

INDEX TO AWA PUBLICATIONS

Copyright © 2015 Ludwell A. Sibley

CONTENTS

Activities - AWA	Crystal.....	27
General.....	Transistor.....	27
Annual Conference.....	Tube.....	27
Local Meets.....	Communications and Short-Wave - General Use.....	29
Museum.....	Communications - Military, Naval.....	30
Cundall Old-Time CW/DX Contest.....	Television.....	30
Kelley 1929 QSO Party.....	Wireless.....	31
'30s Night.....	Replicas, Recreations, and New-Old-Designs.....	31
Activities - General Club News and Meets.....	Restoration Techniques.....	32
Activities - Collecting.....	Reviews - Books	
Activities - Collections - Personal.....	Amateur Radio.....	34
Activities - Public Museums and Libraries.....	Biographies - by Subject.....	34
Biographies / Personalities / Obituaries.....	Biographies - Multiple Subjects.....	35
Electronic Theory.....	Broadcasting.....	35
Histories	Catalogs.....	35
Manufacturers and Distributors.....	Collecting.....	35
Operating Companies.....	Corporate Histories.....	36
Technical Development.....	Servicing Information.....	36
Miscellaneous.....	Technical History - General.....	36
Operations	Technical History - Tubes.....	37
Broadcasting - Radio.....	Other.....	37
Broadcasting - Television.....	Reviews - Periodicals.....	38
Radio/Wireless - Amateur.....	Sites - Historic.....	40
Radio/Wireless - Commercial, Experimental, Military.....	Stamps - Postal and Telegraph.....	40
Parts	Stations	
Detectors.....	Radio - Amateur.....	40
General.....	Radio-TV - Broadcast.....	40
Headsets.....	Radio - Commercial, Experimental, Military.....	41
Keys.....	Wireless.....	41
Loudspeakers.....	Telegraph, Cable, Telephone.....	42
Microphones.....	Test Equipment.....	42
Tubes.....	Transmitters and Transceivers - Radio, Radar, Wireless.....	42
Receivers- Broadcast	Author Index.....	43

This index covers AWA publications from 1960 through 2005:

- Issues of the *Old Timer's Bulletin* (after 2004, the *AWA Journal*) from Vol. 1 No. 1 through Vol. 46 No. 4.
- The 18 volumes of the *AWA Review*.
- The *Fact Sheet* of the 1976-81 Tube Collectors Group.
- The five independent ("New Series") monographs produced in 1978-82. They are:
 - "The RJ-4 Detector and the Wallace Mystery" (No. 1).
 - "A Technological Survey of Broadcasting's 'Pre-History,' 1876-1920" (No. 2).
 - "The Federal Telegraph Co., 1909-1920" (No. 3).
 - "Priority in the Invention of Radio: Tesla vs. Marconi" (No. 4).
 - "The Bliley Electric Co. - The Early Years: 1930-1955" (un-numbered; published jointly with the Bliley Electric Co.).
- The booklet "Fifty Years of AWA," January 2003.

References to *OTB / Journal* articles are in the form of volume-number-page. As an example, to locate information on Peerless tubes, a check of the index under "Parts - Tubes" shows "25-3-32." *OTB* Vol. 25, No. 3, Page 32 has this article. *Fact Sheet* articles are listed in the same format, prefixed with FS. *AWA Review* citations are given as "R," with volume and page (e. g., R2-21). "50 Years" items are cited as "50Y" with page number.

Items cited in this index vary in size from a passing mention to a major feature. An item of a full page or more is shown with an asterisk. An @ sign indicates an article of three or more pages. A "+" denotes an article split between two issues.

Copyright © 1999, 2000, 2003, 2005, 2015 Ludwell A. Sibley

ACTIVITIES - AWA - GENERAL

Amateur Net3-4-5, 4-1-9, 6-1-8, 6-3-14, 6-4-20, 7-2-6, 7-4-11, 8-3-20, 12-3-11, *12-4-12, *13-1-27, 13-2-6, *13-3-4, *13-4-6, *14-2-17, 14-3-25, 14-4-25, *15-1-28, 15-2-22, 15-3-20, 15-4-17, 16-1-26, 18-2-15, 30-1-5, 31-4-5, 30-2-40, 30-3-10, 32-1-37, 33-1-46, 34-2-7, 35-1-44, 35-3-67	41, 36-1-5	35-2-7, 35-3-5, 37-3-12
Amateur Station W2AN4-3-5, 4-4-1, *5-1-1, *5-3-7, 5-3-10, 5-4-3, 6-3-11, 6-4-7, 7-2-7, 7-4-4, 10-4-2, *11-1-11, 17-2-25, 17-4-18, 18-2-23, 22-3-34, 33-1-46	Millen commem. station.....@35-4-41	BK-OTB31-2-15, 32-2-6, 33-3-6, 34-2-7, 35-3-5, 38-4-12
Millen commemorative event35-4-5, 35-4-	Primary keying at.....36-4-38	Elle Craftsman.....21-1-16, 23-1-35
	Transatlantic re-creation36-4-38, *37-1-38, *37-2-17, 39-2-67, *39-2/3-53	Grand Old Man.....13-1-22
	ARCA, absorption of.....35-3-68, *38-4-8	Historical.....7-3-1
	Authors, OTB/Review, 1991-92.....33-1-21	Historian, 1970.....11-2-9
	Authors, "Ace".....35-2-19	J. Albert Moore.....40-1-4
	Awards	Matlack.....21-1-16
	Amateur, 1970.....11-1-1	Nomination Requests.....38-2-9,
	AWA13-3-16, 14-3-1, 15-3-4, 16-3-7, 17-4-46,	39-2-8, 40-2-9, 41-2-13, 42-2-12, 43-2-8,
	25-4-16, 29-4-13, 32-2-26, 33-3-6, 34-2-7,	45-3-7, 46-2-11

Taylor	25-4-16, 29-3-5, 31-1-7, 32-2-6, 33-3-6, 34-2-7, 35-3-5	2001 Museum	..... *43-1-14	Status	..... 3-3-16, 40-3-4
Tyne	29-3-5, 31-1-7, 32-2-6, 33-3-6, 34-2-7, 35-3-5	2002, May	..... 43-3-9	Pin, lapel	..... 42-3-72
Recipients		2003 AWA Members	..... 44-1-13	President's report	
1998	..... 39-4-17	2003 AWA Board	..... 44-1-14	1975	..... 14-4-2, 16-2-3
1999	..... 40-4-24	Chapters - Sarasota	..... 42-4-10	1976	..... 17-1-4
2000	..... *41-4-21	Dues	..... 37-1-7	1977	..... 17-4-3
2002	..... *42-4-9, 43-4-18	"From OTBs past"	..... *37-2-15, *37-3-52	1984	..... 25-3-8
2003	..... *44-4-18	Email, request for member check-in	42-2-14, 42-3-7	1985	..... 26-3-6
2004	..... *45-4-30	Financial reports		1996	..... *37-2-4, *37-3-4
2005	..... *46-4-12	2001	..... *42-2-10, *43-1-9	Receiving contest, old-time	..... 4-1-3, 4-4-9
Recipients (cumulative)	18-4-23, 22-1-5, 23-1-35, *24-4-17, *26-3-39, *28-1-9, @29-1-9, *29-4-9, *30-4-8, *31-4-9, *32-4-4, *33-4-34, *34-4-12, *35-4-33, *41-2-14	2002	..... *44-1-12	Review, new editors	..... 45-4-13, 46-4-9
Badges	9-2-18, 9-4-4, 10-1-24, 12-3-23, 13-1-26, 14-2-17, 16-3-3, 17-2-2	2003	..... *45-1-9	Slide shows, tapes, & videos	
Board & Member Business Meetings		2004	..... *46-2-12	General	2-2-8, 4-4-6, 15-1-29, 18-2-7, 18-4-3, 19-2-36, 19-3-28, 20-1-32, 22-1-31, 23-3-32, 30-3-10, 31-4-47, 33-1-34, 34-2-7, 36-4-5, 37-1-6, 37-4-7; also, 38-1-8 and essentially all later issues.
1962	..... 3-4-3	General	..... *1-3-2, *2-3-16	"An American Inventor" (Armstrong)	13-3-2
1963	..... 5-4-1	in Hawaii	..... 32-1-37	"Charles Herrold Story, The"	35-4-5, 36-1-5, 36-1-46, 36-3-5
1964	..... 5-4-1	History, club and museum	17-4-4, 24-4-9, @R1-7, @50Y	de Forest 1906-10, Thorn Mayes talk	29-1-5
1965	..... 6-3-3	History, publications	..... *50Y-24	"Early Network Broadcasting"	..... 14-4-8
1966	..... 7-4-5	Index		"Golden '20s, The"	..... 7-4-4
1967	..... 8-3-16	All AWA pubs, paper	..... 45-4-60	"Golden Years of Radio, The"	9-3-17, 11-2-5, 11-3-10
1968	..... 9-4-2	OTB Vols. 1-10	..... @10-4-24	"Key, The"	..... 30-1-4, 32-1-6
1969	..... 10-3-8	OTB Vols. 11-14	..... @14-2-24	"Magazine Covers"	..... 25-3-6, 34-3-5
1970	..... 11-4-4	OTB Vols. 1-17	..... @17-4-24	"Polar Adventure"	..... 14-4-8, 17-2-26
1971	..... 12-3-11, *12-4-2	OTB Vols. 1-30 and Review	..... 31-3-3	"Portrait of a Pioneer - Elmo Pickerill"	14-3-2
1972	..... 13-1-20, 13-2-4, 13-4-2	OTB Vol. 45	..... *46-1-54	Museum video	..... 22-4-21, 23-2-15, 24-3-28
1973	..... 14-4-2	OTB, on disc	..... 33-1-3	"120 Years of Brasspounding"	..... 5-3-5
1974	..... 15-4-22	Review Vols. 1-8	..... @35-4-21	1921 Atlantic trial staged	..... 25-3-6
1975	..... *16-4-3	Review tables of contents		Summary	..... *25-4-30, 30-2-11, 31-4-47
1976	..... 17-4-3	Vols. 1-14	..... @R14-19-25	Source sheet, availability of	..... 34-2-7, 34-3-5, 35-1-71
1977	..... 18-4-4	Vols. 1-15	..... @R15-179-2	Vacuum-Tube Committee / Tube Collectors Group	..... 16-2-26, 16-3-19-2, 17-3-30, FS (all issues)
1982	..... 23-4-2	Vols. 1-16	..... @R16-206	Web site	..... 41-3-59, 42-1-10
1983	..... 24-4-4	Vols. 1-17 w/ author index	@R17-203	Message board on	..... 44-1-5
1984	..... 25-2-6	Vols. 1-18 w/ author index	@R18-137	10th anniversary	..... @6-3-9
1985 25-4-4	OTB loudspeaker column *40-1-20	50th anniversary	Call for input 43-2-20
1986	..... 27-1-9	Junior Wireless Club	..... 22-4-15, 23-1-23		
1987	..... 28-4-5	Life memberships	..... 42-2-14		
1988	..... 30-1-5	Logotype	..... 15-4-15, 16-1-4, 16-3-2, 17-1-26		
1989	..... 30-4-4	Logotype trademarked	..... 45-1-4		
1990	..... 31-4-5	Members, overseas	..... 31-4-6		
1991	..... 32-4-23	Officers, 1972 (pic)	..... 13-3-28		
1992	..... 34-1-5	Officers, 1993 (pic)	..... 34-2-68		
1993	..... 35-1-5	OTB / Journal			
2001	..... *42-2-8, *43-1-7	Guide for articles & photos	..... 46-4-5		
		Name becomes Journal	..... 46-1-4		
		Proposal to rename	..... 43-4-5		
		Release dates changed	..... 45-1-4		
		Staff	..... 10-4-7		

ACTIVITIES - AWA - ANNUAL CONFERENCE

Code for these listings:

[A] Announcement

[CR] Equipment-Contest Rules

[EA] Equipment-Contest Awards

[R] Results

[AR] Auction Results

1961 (Rochester) 2-4-1

1963 (Holcomb) *4-2-4, *4-3-2, *4-4-1

Audio Tape 29-2-1-25

1964 (E. Greenwich, RI) 5-2-6, 5-3-1

1965 (Cincinnati) 6-2-4, *6-3-14, 6-4-1

1966 (Philadelphia) 6-4-14, *7-1-9, 7-1-16, @7-2-9, @7-3-1

1967 (Dearborn) *8-1-5, *8-2-9, *8-3-1

1968 (Washington) *9-1-4, *9-2-3, *9-2-9, 9-3-1, 9-3-4, *9-3-12, 9-3-15

1969 (E. Greenwich, RI) 10-1-11, @10-2-11, @10-3-1, 10-4-22

1970 (Canandaigua) 10-4-22, 11-1-9, 11-2-10, 11-3-6

1971 11-4-8, *12-1-14, *12-2-9, *12-3-3

1972 (Washington) [A] *13-2-11; [R] 13-3-5, 13-4-11

1973 [A] 14-1-8; [R] *14-2-4

1974 [A] 15-1-8, @15-2-13; [R] *15-3-4, 15-4-4

1975 [A] 15-4-23, @16-2-15; [R] *16-3-4, *16-4-5

1976 [A] 17-2-14, @17-2-15; [R] @17-3-4, 17-3-29, *17-4-6

1977 [A] *18-2-6; [R] @18-4-6; [AR] *18-4-10

1978 [A] *19-2-17; [R] *19-3-5; [AR] *19-4-8, *19-4-27

1979 [A] *20-1-15; [R] *20-3-6, -32; [AR] *20-4-16, *20-3-7; [EA] *20-4-29

1980 [A] *21-1-17; [R] *21-3-4; [AR] *21-3-4; [EA] *21-4-18

British view of *22-1-22

1981 [A] @22-1-17; [R] *22-3-4, *23-1-29; [AR] *22-3-5; [EA] *22-4-18

1982 [A] @23-1-17; [R] *23-4-5, *24-1-5; [AR] *23-4-7

1983 [A] @24-1-4, 24-1-17; [R] 24-3-4, *24-4-14; [AR] 24-3-7

1921 transcon test staged 24-1-29, 24-2-5, *24-4-16

1984 [A] @25-1-19, 25-2-4; [R] *25-3-8, *25-4-32, *25-4-34; [AR] *25-3-11; [EA] *25-4-34

1985 [A] @26-1-19, 26-2-6; [CR] *25-4-35; [R]

@26-3-8;	Pre-1912 equipment.....	*35-2-49	2000.....	[A] @41-2-16, @41-3-35,
[AR] @26-3-12	Transistor radios at.....	35-1-31	[CR] 41-2-40, [R] @41-4-13, *41-4-26, 41-4-	42, [AR] @41-4-16, [EA] @41-4-22
1986[A] *27-1-4; [R] *27-3-9, *27-4-10; [AR] *27-3-8, 27-4-13	1994[A] 35-2-7, @35-3-35; [R] @35-4-36; [AR] *35-4-30; [CR] *35-1-23, @35-3-38; [EA] *35-4-34	1995[A] *36-1-6, *36-2-8, @36-3-31; [EA] *36-4-22; [R] *37-1-21, @37-1-27; [AR] @37-1-22	2001.....	[A] @42-2-18, @42-3-35,
Alternator transmission, SAQ *27-4-18, 28-2-4	1996[A] *37-2-8, *37-2-26, @37-3-33; [AR] @37-4-22; [R] @37-4-46	1997[A] *38-2-10, @38-3-insert; [CR] @38-2-12, @38-3-insert; [R] @38-4-14; [AR] @38-4-17; [EA] *38-4-24	[CR] 42-3-39; poem about, 42-4-11;	[R] @42-4-15; [AR] @42-4-24,
1987[A] 27-4-6, *28-1-8, 28-2-6; [R] @28-4-8; [AR] *28-3-6; [EA] *28-4-13	On the Web.....	38-4-7	[EA] *43-1-34	
1988[A] 28-4-4; [R] @29-2-7; [AR] *29-3-6, *29-3-10; [EA] *29-4-8	1998[A] 39-1-7, *39-2-10, @39-3-35; [CR] @39-2-13, *39-3-35; [R] *39-4-8, *39-4-20; [AR] @39-4-12; [EA] *39-4-18	Key seminar.....	2002[A] *43-2-10, @43-3-37, [CR] *43-2-12, 43-3-41, 43-3-37; [R] @43-4-14, [EA] @43-4-19, [AR] 43-4-24	
1989[A] *30-1-7, @30-2-23; [R] *30-3-4; [AR] @30-3-5; [EA] *30-3-9	1999[A] *40-2-10, @40-3-35; [CR], @40-2-13, @40-3-37, [R] @40-4-15, [AR] @40-4-18, [EA] @40-4-25		2003[A] *44-2-18, @44-3-33; [CR] @44-2-20, *44-3-37; [R] @44-4-13; [EA] @44-4-19; [AR] *44-4-23	
1990Site, 30-4-4; [A] 31-1-6, 31-2-4, @31-2-27; [R] *31-1-20, *31-3-22,*31-4-24; [AR] @31-3-23; [EA] *31-3-27			2004[A] @45-2-16, @45-3-31; [CR] 45-2-18, 45-3-35 [R] @45-4-24; [EA] 45-4-31; [AR] *45-4-35	
1991[A] 32-1-5, 32-2-4; [R] *32-3-21, *32-4-29; [AR] @32-3-33; [EA] *32-3-22			2005[A] @46-2-18, 46-3-5, @46-3-35; [CR] 46-2-20, 46-3-39; [R] 46-4-24; [EA] 46-4-13; [AR] 46-4-21	
1992[A] 33-3-4, @33-3-29; [R] *33-4-27; [AR] @33-4-28; [EA] *33-4-33			Philosophy: "why do we do it?".....	*46-1-29
1993[A] 34-2-6, @34-3-31; [R] *34-4-4, *35-1-36; [AR] @34-4-5; [EA] *34-4-11				

ACTIVITIES - AWA - LOCAL MEETS

California	Dearborn, 1963.....	4-1-9, 4-2-1	1971.....	12-1-6
1974.....	Florida.....	29-1-8, 29-3-4, 29-4-4, 29-4-5, 30-1-4, 30-3-11, 30-4-7, 31-3-4, 32-3-4, 32-4-5, 32-4-13, *3-4-4, 35-1-5, 35-2-67, *39-3-41, 40-3-13, 41-3-14	1972.....	13-4-3
1975.....	Georgia, 1987.....	28-2-4	1973.....	14-1-3, 14-2-11, 14-2-17, 14-3-2
1976.....	Grote Reber, visit.....	26-3-4	1974.....	15-1-23
1977.....	at Hammond Museum, 1992.....	33-1-5, *33-4-4	1975.....	16-2-10
Carolinas Chapter	*33-4-4		1976.....	16-4-35, 17-1-8
Made official.....	at Manhattan College, 1984.....	25-2-7	1977.....	18-4-31
1975.....	Midwest, upper, 1983.....	24-2-4	1979.....	19-4-20
1976.....	New Jersey		1983.....	24-2-4
1979.....	1987.....	28-2-4	1984.....	25-2-6
1983.....	1988.....	29-1-7, 29-3-4	1987.....	28-2-5
1987.....	1989.....	29-4-7	1988.....	29-1-7
1988.....	1990.....	30-4-7, 31-1-5, 31-2-4	1989.....	29-4-6, 30-2-6
1989.....	1991.....	31-4-7, 32-1-4, 32-2-41	1990.....	30-4-7, 31-2-4, 31-1-5
1990.....	1992.....	33-1-4, 33-3-5	1991.....	31-4-7, 32-1-4, 32-2-41
1991.....	1993.....	34-1-4, 34-2-5, 34-3-28	1992.....	32-4-5
1992.....	1994.....	35-1-5, 35-2-5, 35-3-5	1993.....	34-3-28
1993.....	1995.....	36-2-4	1994.....	35-3-5
1994.....	1996.....	37-2-6, 37-3-12	1995.....	36-1-40, 36-2-4
1996.....	1997.....	38-2-6, 38-3-13	1996.....	37-2-6, *37-3-41
1997.....	New York (Bloomfield and Breesport)		1997.....	38-2-6
2000.....	1961.....	2-4-1	1998.....	40-3-14
2000 activities.....	1962.....	3-2-1	2000.....	41-2-9
2000 Spring.....	1964 Dinner.....	5-3-1	2001.....	4-1-7, 4-2-7
2000 Fall.....	1965.....	6-3-2	2003.....	44-3-13
2001 activities.....	1966.....	7-1-18	2004.....	24-2-13, 45-3-11
2002 activities.....	1967.....	8-1-9	Pennsylvania, 1989.....	29-4-5, 30-1-4
2003 activities.....	1967 Fall.....	8-3-11, 8-3-12	Rhode Island	
2004 Spring.....	1968.....	8-4-2, 8-1-2, 9-2-1, 9-2-3	1966.....	7-1-1
2004 activities.....	1969.....	*10-1-6, 10-3-15	1974.....	15-2-27, 15-3-2
2005 activities.....			1975.....	16-2-20, 16-3-9
			1987.....	28-3-4

ACTIVITIES - AWA - MUSEUM

(Also see rear covers of OTB 19-4 through 42-4, and inside at about p. 10 in later issues.)

Accession and inventory.....	Charter, NY State, reorg. for.....	42-4-68, 43-1-13	ARRL filing, FCC Docket 3929.....	5-3-9
RC, 42-1-RC, 42-1-74	Construction.....	5-1-2 (& 313-2-47), 5-4-1, 6-2-7, 7-1-19, 11-4-10, 12-2-2 (& 33-2-47), 12-4-21, 13-4-2, 14-2-4, 14-3-27, 14-4-3 (& 33-2-47), 15-2-6, 15-3-3	Batcheller, A., WW I Eqpt.....	18-4-32
Accession / deaccession policy.....	Donations and Displays.....	6-2-3	Bell Labs transistor radio.....	43-2-15
21-2-30, 22-4-5, 24-1-4, 26-4-44, 41-2-RC, 41-3-RC, 43-4-13	Armstrong painting.....	15-3-3	Books, Ryan collection.....	16-1-21
Annex/library.....	Apgar 1913 license.....	15-3-22	Canadian Marconi key.....	27-1-43
22-2-5, 22-4-36, @27-1-38, 30-3-10, @40-3-32			Capacitor, British, BVWS.....	21-3-22
CBC Marconi film, Museum in.....			Cellphone, "first".....	43-2-16
23-3-23			Clock, from subchaser.....	26-3-48

Fleming valve.....	4-3-12	Telegraph office (pic).....	37-3-62	Meetings, Member	
Frequency monitor, WDAE.....	18-4-32	Telegraph registers.....	43-2-16	2003.....	45-1-10
Hagey mic-speaker coll.....	28-3-42	Telegraphphone recorder.....	8-2-3, 9-2-8	2004.....	46-2-15
Hauksbee electrostatic gen.....	31-2-48	Telephone history.....	16-4-23	Meetings at Annex.....	35-1-5
Hulit Transmitter.....	28-4-30	Telephones, 1870s.....	17-2-3	Museum Committee.....	28-3-44
Insulator, Rocky Point.....	10-3-12	Television collection (Davis)*36-4-17,	37-2-67	Museum store.....	9-2-36
Internet, home page.....	37-2-67	Television, early gear.....	*38-3-30	Museum fund14-1-5, 14-2-4, 14-4-10,	14-1-4,
Interphone box, SCR-57.....	14-4-6	Transistors, developmental.....	14-4-6	15-2-6, 15-3-3, 15-4-2, 15-4-7, 16-2-3, 16-	4-24, 30-2-48, 34-4-14, *37-2-10, *37-3-8,
Key collection.....	36-1-47, 37-3-63	Transmitters		*37-4-8, *38-1-11, *38-2-15, *38-3-8, *38-4-	10, *39-1-9, *39-2-4, @39-2-15
Kilbourne & Clark AM xmtr.....	31-2-48	Arc, Sperry CS-814.....	1-2-4	Philco-Ford donation.....	15-1-4
Light bulbs, Ryan collection.....	16-3-7	Broadcast, 1-kW RCA.....	26-2-40	VWOA donation.....	31-4-48
Marconi		Millen/W1HRX 1-kW.....	*26-4-42	New building41-3-72, 43-2-14, 44-1-16, 44-2-	13, 46-4-11
Direction finder.....	*25-2-24, R9-55	Quenched-gap, 500-W.....	3-4-3, 6-4-2	Newspaper coverage.....	8-4-30, *26-3-47
High-speed recorder.....	*25-2-12	RCA 3627/USCG T-5.....	2-1-7	New wing.....	@10-1-2
Induction coils.....	5-3-5	Schooner "Yankee"22-2-32, 22-3-21, 22-	4-34	Opening*15-4-3, 16-1-13, 16-2-2, *16-2-6, 17-	1-3
Multiple tuner.....	2-2-5	Spark, 1-kW.....	5-1-4	Prints and slides.....	17-3-3
Papers.....	3-2-16	VHF, 1934.....	15-1-30	Parts available from.....	*42-4-69
Station prints.....	26-1-12	WEC0 9A, from WPDR.....	6-3-19	Postal address, new.....	46-1-11
Receiver, 104.....	37-4-66	Tubes		QST, coverage in.....	31-3-48, *50Y-9
Receiver, Three-Valve.....	1-2-4	Crosley Deflectron.....	31-3-48	Reports	
Stationery.....	5-1-10	Dunlap collection.....	7-2-2	1966.....	7-2-8
Wireless equipment.....	4-1-1, @R9-7	Expanse Valve.....	28-3-3	1968.....	9-2-8
Maconachie donation.....	15-3-9	Fleming Valve.....	4-3-12, 4-4-4	1970.....	11-3-3
Military collection.....	34-4-70	Ryan collection.....	16-1-4	1974.....	15-2-3, 15-3-22
Motor-gen., Crocker-Wheeler.....	6-4-2	Schrader television.....	16-4-30	1975.....	16-3-3
National HRO-600.....	43-4-10	Spark, Meyer.....	34-3-63	1976.....	17-1-3
Naval Research Lab gift.....	15-3-3	Union College, from.....	18-4-32	1978.....	19-3-28, 22-3-34
New eqpt., genl.....	18-2-28, 24-3-36	861 from W1MK.....	14-4-6	1979.....	20-1-32
Papers		862 from WLW.....	4-2-1	1982.....	23-2-25
Baird TV-builder's license.....	12-2-3	862A from NSS.....	*13-3-24	1983.....	24-2-32
Broadcast history, Belgium.....	9-3-3	1985 exhibit.....	*25-4-39	1988.....	29-3-44
de Forest.....	5-1-9, 5-2-4, 6-1-2	TV cameras		1989.....	30-2-48, 30-4-48
Eaton Tube Collection - inventory5-1-9,	9-3-2, @R6-1, @R7-107	from WHAM-TV.....	18-2-1	1994.....	35-4-67
Edison (Ryan Collection).....	16-2-3	Alexanderson disc.....	6-4-2, 9-1-4	1996.....	37-4-66
Federal Arc Transmitters.....	3-2-1	TV sets, Pilot and Hallicrafters.....	6-4-2	2003.....	*44-1-15
William White.....	7-4-15, 13-2-5	Dowd-RCA Tube Archive17-3-30, 41-2-74, 41-	3-63, 42-1-25	Sales of excess material	
Postal stamps, U. S. radio.....	23-3-36	Sampler of tube specs from.....	42-1-25	Books*27-4-39, 30-3-10, 31-1-7, 31-3-6, 32-	1-37, 33-3-6, 34-2-3
Receivers		FCC staff visits.....	5-3-11	Equipment.....	15-2-7, 31-4-48, 43-4-11
French regenerative.....	14-4-6	Financial reports		Tubes28-3-5, 29-4-46, 32-1-37, 32-2-6, 33-	4-4, 34-1-31
National HRO-600.....	32-3-10	2001.....	43-1-68	Staff changes.....	29-4-48, 39-1-66
Millen plate-glass.....	12-2-3	2002.....	*44-1-18	Tape library.....	27-1-43
Radio Receptor superhet.....	14-4-6	2003.....	*45-1-14	Tapes	
RCA-Riverhead diversity.....	*19-2-32	2004.....	*46-2-17	Gerald Tyne.....	6-1-3
Russian commercial.....	1-2-4	Gable, Ed, as new curator.....	39-1-66	John Reinartz.....	1-1-7 (& 33-2-6), 5-3-12
Scott (first model).....	8-2-3	Home page.....	37-4-66	Lee de Forest.....	2-3-1
Transistor.....	29-2-52	Inventory on computer.....	28-1-44	Spark traffic.....	11-2-2
WEC0 4B.....	7-1-17	Library - Tuska collection.....	14-4-11	Tube pioneers.....	16-4-4
Recording, Appar, 1934.....	16-4-30	Library hours31-1-7, 31-2-6, 31-3-6, 32-1-37		Other pioneers.....	31-1-48
Siphon recorder.....	25-2-25	Memorials		Views, 1964.....	*5-4-3
Solid-state transmitter, "world's first"39-2-66		Lincoln Cundall.....	26-3-17	Wills, donations through.....	30-2-48
SS Titanic - photo.....	9-2-14	Eunice Thompson.....	23-1-36, 25-3-37	Work crew, 1985.....	26-2-4
Stations:		Meetings, Board of Trustees		Work crew, 1999.....	*40-3-32
1901/1910 Marconi ship.....	25-1-9	2002.....	44-1-17		
1907 Amateur.....	20-2-36	2003.....	45-1-13		
1908 United Wls.....	23-4-35, 31-4-48	2004.....	45-3-12, *46-2-16		
Technical Materiel Corp.....	45-3-12				
Telefunken wls. gear.....	8-2-3, 9-3-20				

ACTIVITIES - AWA - CUNDALL OLD-TIME CW/DX CONTEST

Photomontage.....	*30-4-24	1979.....	19-3-9, *20-1-23	1988.....	*28-3-38, *29-2-40, *29-3-22
1971.....	11-2-3, *12-1-2	1980.....	*20-3-13, *21-1-22, *21-2-24	1989.....	*30-1-23, *30-2-39
1972.....	12-3-10, *13-1-8, 13-2-6, 13-4-7	1981.....	21-3-22, *22-1-14, *22-2-18	1990.....	*30-3-33, *31-1-26, *31-2-31
1973.....	14-1-22	1982.....	22-3-30, *23-1-5, *23-2-10	1991.....	31-4-31, *32-2-24
1974.....	14-4-13, *15-2-22	1983.....	*24-4-15, 24-1-29, *24-2-24	1992.....	32-4-28, @33-3-34
1975.....	15-3-21, *16-1-27	1984.....	*24-3-31, 25-1-13, *25-2-36	1993.....	*34-1-34, *34-3-37
1976.....	16-3-8, *17-1-25	1985.....	*25-3-33, 26-1-33, @26-2-36	1994.....	*35-1-43, 35-3-24
1977.....	*18-1-24	1986.....	*26-3-3, @27-2-30	1995.....	*36-1-20, *36-3-28
1978.....	18-2-22, *19-1-24	1987.....	*27-3-30, 28-1-40, @28-2-35	1996.....	*37-1-16, 37-3-50

Proposed AM Phone Contest.....	34-3-5	2000...40-4-56, 41-1-53, @41-2-79, *41-3-56	2003....43-4-43, 44-1-21, *44-2-28, *44-3-40
1997.....	37-4-58, *38-1-30, 38-3-39	200141-4-43, *42-1-18, *42-2-23, 42-4-59, *43-1-47	2004....44-4-25, 45-1-21, *45-2-32, *45-3-22
1998.....	*39-1-18, *39-2-22, *39-3-29	2002.....	*43-2-21, *43-3-17
1999.....	39-4-25, *40-1-42, *40-2-47		2005 CW and DX.....46-1-40, *46-3-54, *46-3-56

ACTIVITIES - AWA - KELLEY 1929 QSO PARTY

1983.....	23-4-24, 24-1-29, 24-3-31, 24-4-5	1992.....	33-4-37, *34-2-41	1999.....	39-4-25, *40-1-41, 40-4-56, 41-1-52
1984.....	25-1-13, 25-2-38	1993.....	34-4-46, *35-1-44, 35-2-43	2000.....	41-4-43, *42-1-17, 42-2-26
1985.....	25-4-22, 26-2-5, 26-3-5	1994.....	35-3-24, 35-4-5, *36-1-22	2001.....	*42-3-60, 42-4-59, 43-1-46
1986.....	*26-3-38, 27-1-37, 27-2-5	1995.....	36-3-30, *37-1-36	2002.....	43-4-43
1987*27-3-30, 27-4-23, 28-1-4, 29-2-4, *28-4-4		1996.....	37-4-58, 38-1-30, *38-2-20	2003.....	*44-1-20, 44-4-25, *45-1-19
1988.....	29-2-45, *29-3-23, *29-4-23	160-meter.....	37-4-58	2004.....	*45-4-37, *46-2-40
1989.....	30-2-39, *30-4-26	1997.....	38-4-39, *39-1-19	2005 AM.....	46-1-40, *46-2-42, 46-4-43
1990.....	31-2-31, 31-3-21, *31-4-30	1998.....	*39-3-29		
1991.....	32-1-5, 32-2-41, 33-1-36	160-meter.....	38-4-39		

ACTIVITIES - AWA - '30s NIGHT

2003.....	43-4-5, *43-4-44, 44-1-22, *44-2-30
2004.....	45-1-20, *45-2-34

ACTIVITIES - GENERAL CLUB NEWS AND MEETS

NORTH AMERICA

American Freedom Train.....	16-1-13, 16-4-19
"Angry-Nine" Assn., Internat'l.....	34-3-48
ARCA.....	13-4-11, 13-4-28
1974.....	15-2-5
1976.....	17-2-23
1977.....	17-4-43
1982.....	23-2-14
1988.....	29-1-8
1990.....	31-1-6
1992.....	33-3-9
1993.....	34-2-5, 34-3-52
Final Board meeting.....	36-1-48
Absorption by AWA.....	*35-3-68
Arizona ARC.....	24-3-23, 28-1-39, 32-2-41, 38-4-6
Armstrong Memorial Research Foundation.....	28-4-4
ARRL - W1AW rededication.....	30-2-10
ARRL 1921.....	7-1-2
ARRL 1927.....	10-2-9
ARRL/AWA	
1961.....	2-4-10
1962.....	*3-4-1
1964.....	5-2-7, *5-3-3
1966.....	7-1-14
1975.....	16-3-6
1976.....	17-3-13
1977.....	17-2-25, 18-2-12
1987.....	28-3-43
ARRL Northeast/AWA	
1967.....	8-1-7, 8-1-18
1968.....	9-1-2
1978.....	19-4-4
ARRL Rochester/AWA, 1983.....	24-2-4
ARRL Sun Coast/AWA	
1982.....	23-4-33
1983.....	25-1-21
1987.....	25-4-6
Associations, addresses of.....	9-1-18, 13-2-16, 15-4-6, 25-1-34, 31-4-6
Atlanta Ham Club/AWA.....	29-1-6, 29-3-5
Audio Engineering Society	
Berliner Award.....	12-4-13, 14-1-2
California Historical Radio Society	
General.....	17-4-46, 25-2-4, 29-1-17, 30-4-44, 32-2-4, 34-4-4, 35-1-4

Herrold Award to Bruce Kelley.....	19-2-6
CHRS/AWA 1979.....	*19-4-17
CHRS/AWA 1983.....	24-2-4
CHRS/AWA 1989.....	24-4-5
CHRS, 1992.....	33-1-4
CHRS, 1993.....	34-3-5
Canadian Vintage Wireless Association.....	11-3-3, 14-1-5, 16-4-28
Charlotte Hamfest/AWA, 1985.....	26-3-6
Charlotte Hamfest/AWA, 1986.....	27-3-4
Cincinnati Antique Radio Society.....	38-2-7
Classic Radio Exchange.....	34-3-50, 34-4-13, 35-2-7
Clearwater Amateur Conv./AWA.....	18-1-5
Committee to Preserve Radio Verifications.....	30-2-47, 40-3-10
Delaware Valley Historic Radio Club.....	34-3-4, 34-4-4, 35-1-4, 35-2-6, 36-2-6, 38-1-6
Delaware Valley Radio Assn. "Old Timers' Night".....	2-3-2, 2-3-4, 5-1-1, 5-2-3
de Forest Pioneers.....	2-1-8, *6-2-8, 7-4-23, 9-1-18, 9-4-12, 14-1-26, 18-2-7
Souvenir, 17th anniv., 1969.....	*36-4-30
Early Television Conv., 2005.....	*46-4-55
Electronic Industries Assn., Old Time Exhibit, 1967.....	8-2-20
Experimental Television Soc.....	42-2-16
Friends of Old-Time Radio.....	31-3-4
Gaithersburg Hamfest/AWA	
1981.....	22-3-34
1988.....	29-1-6, 29-2-7, 29-3-5
1989.....	30-2-5, 30-4-5
1990.....	31-4-6
1991.....	32-2-5
1993.....	35-1-44
Houston Vintage Radio Association	
General.....	25-1-21, 28-2-18, 31-4-3, 31-4-6
1988.....	29-4-4
1989.....	29-4-6, 30-2-6
1990.....	30-4-7
1991.....	32-1-4, 32-2-38
1992.....	33-1-5, 33-3-5
1995.....	36-2-6
Hudson Valley Antique Radio & Phono Society.....	32-2-38

1992 Meet.....	33-2-4, *33-4-36
1993 Meet.....	34-3-5, 35-1-46
1994 Meet.....	35-3-7
Illinois - ARCI Radiofest	
1987.....	28-2-4
1989.....	30-1-6, 30-2-5
1990.....	31-2-24
1991.....	32-4-4, *32-3-6
1992.....	33-1-5, 33-3-4
1993.....	34-2-5, *34-4-55
1994.....	35-3-6
1996.....	37-2-7, 37-3-6
1997.....	38-2-7, 38-3-6
Indiana Hist. Radio Society.....	12-3-9, 12-4-3, 13-1-19, 14-1-25, 15-1-29, 16-4-10
25th Anniversary.....	38-1-49
IHRS/AWA	
1974.....	15-1-23, 15-2-5
1975.....	16-1-2, 16-1-29
1977.....	17-4-9, 18-2-3
1979.....	19-4-18
1983.....	24-2-4
1987.....	28-3-4
1989.....	29-4-6, 30-1-6, 30-2-6
1990.....	30-4-7, 31-1-5, 31-2-4
1991.....	32-1-4
Kokomo meet.....	32-2-38
1992.....	32-4-5
Kokomo meet.....	33-1-4, *33-3-8
1993 Kokomo meet.....	34-2-5, 34-4-22
1995 Midwinter meet.....	36-1-5
1995.....	36-2-6
1996.....	37-2-6
1997.....	38-4-6
2001.....	42-1-8, 42-2-7
2004.....	45-4-4
IEEE History Committee.....	6-4-9, 14-3-19
IRE/IEEE 50th Anniversary.....	3-2-1, 4-1-8
James Millen Society.....	41-21-10
100th Anniv. Event.....	42-4-9
Long Island Antique Radio Soc.....	18-2-16
Michigan Antique Radio Club.....	30-4-44
1991 Extravaganza.....	32-1-5, 32-2-4
1992 Extravaganza.....	33-1-5
1993 Extravaganza.....	34-2-5, *35-1-32
1994 Spring Meet.....	*36-1-12

1995 Extravaganza.....	36-2-6, @36-4-42	1997.....	38-2-6	Christmas party.....	18-2-6
1997 Extravaganza.....	38-2-7	Northwest Vintage Radio Society	17-4-17, 27-4-43, 34-2-4	Membership and journal.....	23-2-23
2001 Extravaganza.....	42-2-8	NC Amateur Convention/AWA, 1985..	26-3-6	QSO party.....	20-1-21
Mid-America Antique Radio Club	15-4-31, 28-1-39, 29-3-5	Ohio - ARCO.....	31-3-6, 38-2-7	Telecomm History Symposium	35-2-5, 35-3-5
Mid-Atlantic Antique Radio Club	26-2-39, 30-1-47, 34-1-4, 34-2-4, 34-3-4, 34-4-4, 35-1-4, *35-1-58	Ohio - GCARA, 1988.....	29-1-5	Telephone Pioneers of America.....	9-1-18
RADIOACTIVITY		Oklahoma Vintage Radio Collectors	34-1-4, 34-2-4, 34-3-4, 34-4-4, 35-1-4, 35-2-4	Tesla Society (U. S.).....	10-3-12, 35-4-5
1994.....	35-1-5, 35-2-6, 35-3-5	Old Old Timers' Club	2-2-4, 2-3-15, 3-4-3, 5-4-11, 6-1-12, 6-4-2, 7-4-20, 9-2-10, 9-3-18, 10-2-5, 10-3-6, 11-3-12	Titanic Historical Society	12-2-21, 13-2-23, 14-4-21, 24-2-31
1996.....	38-1-7	Ottawa Vintage Radio Club.....	35-1-4	Toledo Morse Telegraph Club	17-2-5, 17-3-28
1997.....	38-2-6	Pittsburgh Antique Radio Society and KDKA	32-1-25	Toronto Vintage Radio Club.....	37-3-7
2001.....	42-2-7	1995 Spring Fever.....	36-1-40	Tube Collectors Association	40-1-9, 41-1-7, 42-1-6
Midwest Radiorama	34-3-52, 35-2-6, 35-3-6, *36-4-40, 37-2-7	Puget Sound Antique Radio Assn. / AWA	25-1-21, 29-2-6, 29-3-5	2002 awards.....	43-4-6
Morse Telegraph Club.....	5-2-2, 9-1-18, 11-4-9, 13-3-15, 14-1-4, 14-2-10	Quarter Century Wireless Assn.	3-1-4, 3-3-1, 5-4-4, 5-4-11, 6-4-2, 7-4-20, 9-1-18, 9-3-11, 10-2-5, 10-3-6, 11-2-9	TV-FM DX Association.....	26-4-40
Murgas ARC (Wilkes-Barre).....	16-3-8	Radio Club of America		Upper Midwest Vintage Wireless Society, 1979.....	20-3-4
New England ARC.....	31-1-5	General	1-1-1 (& 32-2-4), 1-4-3, 2-3-3, 4-3-11, 9-1-18, 16-1-14	Veteran Wireless Operators' Association	2-1-1, 4-2-1, 4-4-4, 5-3-4, 8-3-11, 9-1-18, 12-1-22
New Jersey Antique Radio Club	33-4-40, 34-3-4	AWA Batcher-Award winners	27-4-22, 32-4-23	Vintage Radio-Phonograph Society/ AWA (Texas)	
Hightstown events		AWA members made Fellows	31-1-20, 32-4-23	1982.....	23-4-4
1993.....	34-2-32	Awards to AWA members.....	31-3-6	1984.....	25-4-6
1994.....	35-1-4, 35-2-67, 35-4-60	CW QSO party.....	44-4-5	1987.....	28-3-4, 29-2-9
1994 NJARC/AWA.....	35-2-5, 35-3-5	Diamond jubilee, 1983.....	24-3-15	1988.....	29-1-6, 29-2-7
1994.....	36-1-5	Banquet, annual		1989.....	30-1-6, 30-2-5, 30-4-7
1995.....	36-2-6	1986.....	27-4-39	1990.....	31-2-5, 31-3-4, 31-4-6
Niagara Frontier Wireless Assn.....	18-2-16	1988.....	29-4-4	1991.....	32-2-5, 32-3-4
Amherst Museum exhibit.....	*34-3-60	1990.....	31-4-47	1993.....	34-3-5, 35-1-5
NFWA/AWA Niagaradio		Rochester Hamfest.....	37-3-42	Western New York Hamfest/AWA	
1980.....	21-3-14	Rocky Mountain Antique Wireless Club	12-3-14, 15-1-8	1966.....	7-1-2
1986.....	27-3-3	Santa Barbara Antique Radio Collectors Club	12-3-9, 14-2-11	1970.....	*11-2-8
1987.....	28-2-4	Scott, E. H., Historical Society	33-3-7, 33-4-3, 35-1-3	1971.....	*12-2-1
1988.....	29-1-7, 29-2-7, 29-3-4	Society of Wireless Telegraph Engineers	6-2-9, R9-206	1973.....	14-2-3
1989.....	30-1-6, 30-2-5	Southeast Antique Radio Society (Georgia)	32-3-4, 32-3-19, 37-2-7	Wireless Institute (pre-IRE)	6-1-3, 6-1-7, 6-2-9
1990.....	31-2-4, 31-3-4	Southern Calif. Antique Radio Society		FOREIGN	
1991.....	32-4-4	General	17-3-28, 31-4-6, 32-4-5, 34-1-4, 34-2-4, 34-3-4, 34-4-4, 35-1-4	Antique Wireless Club (Japan).....	32-1-37
1992.....	33-4-4	/WESCON, 1984.....	25-3-5	Associazione Italiana Radio d'Epoca..	31-3-6
1993.....	34-2-5, 34-4-60	/AWA, 1988.....	29-1-6	Australia, Historical Radio Society of	23-2-4, 31-3-6, 31-4-37
1994.....	35-2-6, 35-3-7, 35-4-5	/AWA, 1989.....	29-4-7	British Vintage Wireless Society.....	17-2-5
1995.....	36-2-35, 36-3-4	1992.....	33-1-5	BVWS/AWA 1984	24-2-5, 24-4-17, 25-2-19, @25-3-20, *27-4-4
1996.....	37-2-7, 37-3-6, *38-1-15	Schenectady, Antique Radio Club of	18-2-16, 25-2-4, 32-1-5	BVWS/AWA 1989	29-3-4, 29-4-7, *30-2-7
1997.....	*39-1-42	Shelby Hamfest/AWA, 1978.....	19-4-4	Invites N. American membership	32-4-39
1998.....	*40-3-12	Society of Wireless Pioneers	9-1-18, 10-1-19, 10-3-16, 12-3-23, 14-1-4, 14-4-21, 15-3-27, 18-1-29	2004 garden party.....	*45-4-49
2000.....	41-3-13, *42-3-12	/AWA, 1985.....	26-1-23	Eddystone Users Group.....	33-4-49
2003.....	*44-3-28	/AWA, 1988.....	29-1-5	Foreign societies, general.....	27-3-23, 31-4-6
2004.....	*45-3-43			Friends of Radio Cultural Association (Spain)	34-4-14
North American Radio Clubs, Association of	11-3-3			Irish Vintage Radio and Sound Society	30-3-36
Northland Antique Radio Club (Minn.)	27-3-5, 28-3-37, 29-1-6, 29-2-4, 29-4-7			London (ON).....	36-3-4, 37-3-6
Radio Daze				National Vintage Comm. Fair (British)	34-2-5, 37-2-6
1989.....	30-1-6, 30-2-7			Nederlandse Vereniging voor de Historie van de Radio.....	24-4-5, 27-3-23
1990.....	30-4-7, 31-1-6			Norwegian Clandestine Field Day	29-1-23, 29-3-28
1991.....	32-1-5, 32-3-4			Philippine Hist. Radio Society.....	17-4-42
1992.....	33-1-5			Tesla Society (Yugoslavia).....	15-1-32
1993.....	34-2-5				
1994.....	35-1-5, 35-2-6				
1995.....	36-1-40				
1996.....	37-2-6				

ACTIVITIES - COLLECTING

GENERAL

Antique, what is a radio.....	*6-1-11
Antiques - where you find them.....	*1-4-1
Australian collectors.....	6-3-2, *30-1-9
Authentication, historic material.....	6-9-9
in Brazil.....	*28-2-40, *32-4-34, @*33-1-22
Cartoon, radio collecting.....	*13-3-17

Catalin sets.....	*34-2-25
Collections, private - list.....	*6-1-16
Cartoons, Rodrigues.....	*6-3-5
Collectors, list of 87.....	1-3-3
Crystal sets, in Austria.....	*34-3-17
Condition, standards for.....	12-4-17
Dating, by patent no.....	16-2-11

Estate, collection as part of.....	26-3-7
Estate, disposing of an (R).....	@40-4-45
France.....	15-2-3, 17-1-35
Frauds, cons, hustles, and rackets	
"Atwater-Kent".....	24-2-23
Auction.....	28-2-44, 28-3-18
Audions and Fleming Valves	12-1-20, 12-2-

8, 18-1-10, 26-4-6, 28-3-36
 Books, double pricing of..... 17-1-2
 "Buyer beware" (stolen goods)..... 34-4-69
 Estate cons..... 10-1-21, 14-2-3
 Fake restorations..... 12-4-9
 Flea-market theft..... 27-4-42, 28-3-37
 Fleming Valve, fake..... 38-2-9
 General..... 13-1-21, 14-4-10, @18-1-10
 Mail-order..... 9-4-5, 18-1-10, 20-3-21, 28-3-23, 28-3-36, 28-3-37
 Museum theft..... 14-4-38, 29-4-10
 Non-members..... 24-4-5
 Payment before shipment..... 17-1-2
 "Private museums"..... 12-2-5
 Repro equipment..... 22-2-27, 24-2-15
 Shady dealer - NYC area..... 10-4-7, 14-1-6, 14-2-13, 15-3-2
 Sucker pricing..... 11-4-3
 Trading new sets for old..... 9-1-3, 9-4-21
 Israel, collecting in..... @34-3-19
 Museum, forming incorporated..... 11-3-5
 Psychology of collecting... *35-2-51, *35-4-55
 QST - holders of full sets..... 13-1-25
 QST - value..... 33-3-28
 Radio logos..... *35-1-16
 Swiss collection, a..... *34-3-15
 "Terry's first radio"..... *35-3-36
 Values, broadcast receivers, with and w/o tubes..... 27-3-19
 Values, equipment *2-3-17, *7-4-22, 9-4-3, 10-3-1, 11-1-12, 11-4-3, *12-2-14, 15-3-12, 15-4-16, *16-1-11, *32-2-17, 33-1-18, *50-4-26
 Values, tubes..... 16-2-22

SPECIFIC AREAS

ARRL amateur handbooks..... 25-4-24
 Autographs..... 9-4-19, *11-2-6, *26-4-35
 Automobile radios..... *18-3-10
 Barbed wire..... 12-2-19
 Batteries, early radio..... 5-4-13, @28-4-16
 Books..... 11-3-21, 13-2-7, @27-1-15
 Books, juvenile..... 2-4-2, 6-3-8
 Bulbs, light *4-4-8 (& *33-2-11), 5-2-10, 24-4-5
 Calculators and digital clocks..... 17-1-5
 Capacitors, variable..... 21-1-25
 Components..... 15-2-11, 15-4-11
 Dime novels..... *13-4-8 (& *33-2-10)
 Grid leaks..... 14-4-19
 Hallicrafters equipment..... @21-4-8
 Headsets *18-2-22, @32-4-46, 33-1-40, 34-2-24
 Instruments, antique..... *16-1-28, *30-4-33
 Insulators, wireline..... 4-3-9, 9-1-7, 9-4-21
 Keys, in Australia..... *16-1-5
 Lightning arresters..... *30-4-21
 Magazines, radio..... 28-3-33
 Microphones..... 15-3-17, *15-4-18
 Phono records, old-time radio..... 5-4-12
 Postcards, wireless..... *31-1-4
 QSLs, preserving early..... 28-2-39
 Radio novelties..... 13-1-28, 14-1-17
 Receivers
 AC..... *17-4-12, 21-3-18, *35-4-47
 Battery, huge stack (pic)..... 17-2-26
 Broadcast *1-2-10, *33-3-12, *35-4-18, 43-1-40
 "Antique," "Vintage," vs. "Classic" 7-3-14
 Crosley..... 19-4-23

Grading scheme for..... 25-2-6
 Value, Radiola III..... 10-3-3
 Recorders, wire and tape..... *22-4-12
 Rider's manuals..... 17-1-28
 Semiconductors..... *27-4-30, 32-4-36
 Single-sideband eqpt., early..... @32-1-7
 Short-wave converters..... *26-3-37
 Stamps, radio/comm..... 11-4-22, 14-4-28
 (Also see "Stamps - Postal and Telegraph")
 Telegrams..... 12-1-20
 Telegraph and cable forms..... 12-1-20
 Television sets 10-1-24, *13-2-20, *22-2-12, @27-3-16
 Television sets, small..... *30-4-35
 Transformers, AF..... 26-2-25
 Transmitters and receivers, old-time *19-3-24
 Tubes
 200-201..... 4-1-7, 9-1-9
 Cartons..... *32-4-6
 CRTs and TV pickup..... *34-2-37
 de Forest..... 4-1-7
 Display case, portable..... 13-1-23
 Displaying 13-1-23, 17-1-5, 17-3-23, *42-3-50
 Fuse clips to display..... 17-1-5
 General..... 22-4-22
 Shipping..... 31-4-3, 32-2-31
 Tube-test labels..... *32-1-30
 Variants of common..... 14-4-3
 Vintage Radio Project (programs)..... 41-2-8
 WW II equipment..... *30-3-13, 37-1-67
 Wireless Institute pin..... 6-1-3
 Wireless operators' insignia..... *26-2-35

ACTIVITIES - COLLECTIONS - PERSONAL

(This section is representative, not exhaustive.)

Abbott, Basil 12-2-19, 13-4-11, 15-1-17, 15-4-15, 16-1-25, 16-3-20, 16-4-8, 17-1-25
 Aitken, Hugh G. J..... 14-1-14
 Alley, John..... 15-1-17, 17-1-25
 Anonymous, battery sets (pic)..... 17-2-26
 Attlee, Franklin 6-3-13, 7-1-15, 7-3-7, 8-1-8, 8-3-13, 9-1-8, 9-2-17, 9-3-7, 9-4-10, 10-2-7, 11-2-18, 12-1-10, 14-1-14
 Barnett, Ralph 6-2-5, 7-4-8, 8-3-13, 9-1-9, 9-4-9, 11-3-22
 Barrett, Del..... 10-3-9, 11-3-22
 Bennett, Floyd..... 14-1-14, 14-4-12
 Berry, Everett 10-9, 11-1-11, 11-3-22, 11-4-6, 12-1-10, 13-4-10, 14-2-5, 17-1-27
 Biraud, Guy..... 23-3-24, 30-4-45
 Bohl, Leslie..... 9-2-16, 12-2-19
 Boyd, Bruce..... 9-2-16, 11-1-10, 15-2-12
 Brewster, Richard..... 14-1-14
 Caperton, John 8-3-13, 8-4-8, 9-2-14, 9-3-6, 9-4-8, 10-2-7, 11-1-10, 12-1-10, 12-3-15
 Chatellier, Wes..... 14-3-14, 15-1-16
 Christen, Tim..... 11-3-22, 13-1-19, 15-2-12
 Clark, Jim..... 17-3-25
 Closson, Charles..... 7-4-8, 8-4-8, 9-4-9
 Clouser, Bob..... 9-3-7, 11-1-11, 11-3-22
 Clutter, Sonny..... 9-3-6, 9-4-7, 15-4-15
 Coughan, Bob..... 12-1-10, 12-2-19
 Collings, Jim..... 17-4-43
 Comer, Mel 7-1-15, 8-3-13, 10-1-16, 13-4-10, 15-2-12, 16-4-8
 Conrad, Ken 6-3-13, 7-3-7, 8-3-13, 8-4-8, 9-1-8, 11-2-18, 11-4-6, 13-3-11, 13-4-10, 14-4-12, 15-3-13, 16-4-8

Cornwell, Perry..... 8-3-13, 11-2-18
 Cundall, Lincoln 13-3-10, 14-1-15, 50Y-8, *50Y-18
 Davis, E. Stuart..... 5-4-12, *6-4-4, 9-1-8
 de Freitas, Edison..... *31-4-14
 Deeley, Dexter 10-1-16, 13-3-10, 14-1-14, 14-3-14, 15-1-16, 15-2-12, 16-2-29
 Denk, Bill..... 14-1-15
 Dennison, Bob..... 34-3-64
 Deuel, Bob, tubes..... *45-2-37
 Diiks, John..... 41-1-8, 43-3-7
 Douglas, Alan 13-3-10, 13-4-10, 16-1-25, 17-3-25, 17-4-43, *28-4-25
 Dowd, Bro. Patrick (see Manhattan College under "Activities - Public Museums")
 Drake, John 8-3-13, 10-4-8, 11-1-10, 14-1-14
 Eaton, Lt. W. A., WW I tubes 5-1-9, 5-2-5, 9-2, @R6-1, @R7-107
 Eklund, Gordon..... 14-3-14
 Elias, Lew..... 10-4-8, 11-3-22
 Elwood, John - Keys..... 15-2-12, 16-3-20, 17-1-25, 17-3-25
 England, Earl 4-2-3, 5-1-7, 5-4-14, 6-1-3, 6-4-17, 6-4-19, 7-4-8, 8-4-6, 8-4-9
 Ewing, Gaylord 8-2-17, 9-6, 10-3-10, 13-4-10, 14-1-14, 15-2-12, 15-4-15
 Fetsch, Joseph, tubes..... @R8-109
 Flegle, Larry 16-1-25, 16-2-29, 16-4-8, 17-4-43
 Gaidosz, Daniel..... 15-2-12
 Gamble, Oren..... 7-4-8
 Giganti, Paul..... 15-2-12, 34-3-64
 Green, Warren..... 9-4-8
 Hannah, Ted..... 7-4-8, 8-4-9, 9-1-4

Hanselman, "Doc"..... 8-2-17
 Hawkins, Bob, microphones..... 10-4-7
 Heckard, Alvin..... 15-2-12
 Herzog, Rudolph..... 28-4-4
 Hicks, Hugh, light bulbs 9-4-21, 11-3-5, 16-1-13, 44-3-11
 Highmark, Vince 12-1-10, 13-4-11, 14-1-15, 14-3-14
 Holly, Bill..... 14-4-12
 Horvath, Joe..... 10-4-8, 11-3-22, 14-2-5
 Howenstein, Marshall..... 9-4-9, 14-1-5
 Jensby, Will..... 16-4-8, 17-3-27
 Jochem, Al..... 14-3-14, 15-3-13, 16-1-25
 Johnston, Don..... 33-3-8, 33-3-60
 Jones, Al, tubes..... *37-3-45
 Juli, Juan Enrich..... 33-4-59
 Kelley, Ray..... 30-1-9
 Kopf, Frank..... 10-1-16, 10-1-24
 Krantz, Frank..... 11-2-18, 13-3-10
 Krauss, Serge 7-1-15, 7-3-7, 7-4-7, 8-3-13, 9-1-8, 9-4-9, 10-3-9, 12-1-11, 13-3-10
 Lane, Bob 10-2-7, 10-3-10, 11-3-22, 14-4-12
 Laverty, Bill 6-3-13, 7-3-7, 7-4-8, 8-4-9, 9-3-6, 10-1-16, 12-1-10, 15-3-13
 Lozier, Robert 11-2-18, 12-1-11, 15-1-6, 16-1-25
 Lyon, Edwin..... R9-178, R9-3
 Lyons, Floyd 6-2-11, 6-3-13, 6-4-10, 7-1-15, 7-3-7, 7-3-19, 8-2-17, 11-1-12, 11-3-12, *12-1-5, 12-4-3, 13-4-11, 14-1-15, 16-1-25, 16-2-29, 17-4-43
 MacIntyre, Robert..... 11-4-7, 14-3-14
 Marcy, Al..... 7-1-15

Martin, Guy..... 15-3-13, 16-2-20
 Matlack, Rex13-2-3, 13-3-15, 15-1-16
 Matson, Roland..... 10-1-16, 10-2-7
 Mayes, Thorn9-1-17, 10-1-16, 11-2-18, 14-1-14, 28-3-42
 McIntosh, Ken 16-1-25, 43-1-62
 McKenzie, Dave8-3-13, 9-4-8, 10-1-16, 11-4-6, 17-3-25, 17-4-43
 McNicol, Donald..... 4-4-9, 6-1-4
 McVoy, Steve, TV collection..... *43-2-39
 Melhuish, Rod..... 6-1-6, 10-4-8
 Merriam, Robert.....4-1-1
 Middleton, Bob..... 10-2-7
 Moreau, Lou.9-15, 11-4-6, 12-2-19, 35-3-57
 Morris, Bob..... 10-4-8, #39-1-48
 Muchow, Ralph11-4-6, 12-2-3, 14-4-12, *20-3-24, @41-2-42
 Auctioned.....42-4-4, (pix) *42-4-36
 Neidich, Richard..... 15-3-13
 Nelson, Jack.....11-2-18, 15-1-16, 16-3-20
 Nelson, Wayne..... *2-1-1, *8-1-10, 15-4-15
 Nichols, Frank7-1-15, 8-3-13, 8-4-8, 9-1-9, 9-4-9, 14-2-5, 15-4-11
 O'Neil, Bob4-4-2, 6-4-19, 8-2-17, 13-3-10, 13-4-10, 14-4-12
 Orr, Bill..... 13-3-10
 Pagano, Frank4-2-5, 6-4-19, 7-1-12, 8-1-3, 8-3-13, 9-1-3, 9-1-8, 9-3-6, 10-1-16, 11-3-22, 13-4-10, 16-4-8
 Paquette, Bob15-3-17, *15-4-18
 Pavek, Joe10-3-9, 14-1-15, 15-3-13, 16-2-29
 Peckham, David15-2-12, 15-4-15, 16-2-29, 16-4-8, 17-3-25
 Peckham, Lauren8-3-14, 8-4-8, 9-1-8, 9-4-8, *9-4-12, 10-1-6, 10-4-8, 11-4-6, 13-3-10, 13-4-10, 14-1-14, 14-2-5, 14-3-14, 15-1-17, 15-2-12, 17-4-43
 Penard, Fred1-1-1 (& 33-2-4), 10-1-9, 13-3-10
 Petsikopoulos, Chris13-3-10, 13-4-10, 14-1-14, 14-4-12, 15-1-16
 Porter, John12-2-19, 14-2-11
 Ransley, Richard9-15, 13-3-10, 14-4-12, 14-1-14, 15-1-17, 15-2-12, 15-3-13, 16-2-29, 16-3-30
 Rasmussen, Erv3-1-10, 4-4-4, 6-3-18, 8-2-17, 9-1-9, 9-13, 10-3-9, 11-1-12, 12-4-10, 13-3-10, 13-4-10, 14-1-14, 14-4-12, 15-2-12, 15-3-13, 16-3-20
 Raser, Ed1-1-3 (& 33-2-6), *1-1-4 (& 33-2-6), *1-2-4, 1-4-2, 4-4-9, 6-1-4, 6-3-13, 6-4-19, 7-3-7, 8-4-9, 9-1-9, 9-4-9, *12-1-9, 12-2-5
 Reber, Grote13-4-4
 Renouf, Phil..... 30-1-9
 Rice, Fred16-1-25, 16-2-29
 Roloson, Bruce9-1-9, 14-1-14, 14-4-12, 15-1-17
 Ryan, Bob - Tubes.....16-1-4, 16-3-7
 Santos, Jorge Barros..... *30-3-36
 Schrader, Howard ... 1-2-3, *12-1-8, *36-4-60
 Schrock, Rodney8-4-9, 10-1-16
 Schroeder, Pete.....11-1-11, 11-2-18
 Sepic, Dick11-1-12, 11-3-22, 11-4-7, 12-3-14
 Schamberger, Dick.....17-3-25
 Shannon, Frank.....9-16, 9-3-6, 13-4-10
 Smith, Ross9-14, 10-2-7, 11-2-18, 16-1-25, 17-4-43
 Stapleford, Bob..... 13-3-2
 Starry, George8-2-17, 8-3-13, 9-1-7, 9-4-8, 10-1-16, 10-3-9, 11-1-12, 11-3-22, 13-3-10, 14-1-14, 16-2-22
 Steed, Wick.....12-1-10, 15-3-13
 Stewart, Charles.....R9-26
 Stewart, Fin9-17, 9-3-1, 10-4-18, 11-1-10, 11-1-13, 1-4-6, 12-3-23, 13-3-2, 13-3-10, 14-3-14, 16-4-8, 17-3-25, 18-1-33
 Stoddard, A. C. 14-1-14
 Stokes, John*8-1-5, 10-4-8
 Szabat, Joe 17-1-27
 Taylor, Ed 14-3-15, 16-4-8
 Thetreau, Tate..... 7-4-8, 8-3-13, 10-4-8
 Thompson, Paul...10-3-10, 13-4-10, 17-1-27
 Thompson, Vern4-4-6, 6-4-19, 7-4-8, 8-2-17, 8-4-13, 10-1-16, 10-3-9, 14-1-14
 Trivette, Clyde..... 11-3-22, 12-4-10
 Tschopp, John.....9-1-8, 10-4-8, 16-3-30
 Tyne, Gerald F. J.6-2-1, *6-3-16
 Walker, John 35-2-72
 Wasiewicz, John 15-1-16
 Watson, Paul - to Smithsonian..... 5-2-11
 Weingarten, Phil..... 9-20
 Wells, Gerald.....*25-1-6
 Wentzel, A. G..... 17-1-25
 WHAM Collection.....4-2-6
 Williams, Barry *R17-201
 Williams, Ralph 10-1-16, 26-2-39
 Wilson, Richard..... 31-1-9
 Wingard, Frank1 3-2-13
 Winnette, J. C. 10-2-7, 13-3-10
 Wisner, Chet15-4-15, 16-2-20, 17-1-27, 17-4-43
 Wolkonowicz, John 14-3-14
 Woods, Ernest..... 9-4-8, 11-1-10
 Woolner, Ted7-1-15, 7-4-8, 8-2-17, 8-3-13, 8-4-8
 Wooters, Barney13-4-10, 15-2-12, 15-3-13, 16-3-20, 17-4-43
 Worthy, Russ..... 7-4-8, 8-4-9
 Yeandle, Ralph 13-1-19
 Ziegler, Carl [Kelley], bulbs 9-1-14
 Znaimer, Moses 37-4-12

ACTIVITIES - PUBLIC MUSEUMS AND LIBRARIES

GENERAL

Donations, Valuing for Tax Purposes11-4-26, 14-1-12, 32-3-17
 Museums to Visit.....3-1-8
 Listing in *IEEE Spectrum* (6-69) and *QST*10-2-15, 11-1-5
 Listing in *IEEE Spectrum* (10-75).... 16-4-28
EASTERN U. S.
 American Museum of Electricity (Schenectady) (defunct)..... 5-1-1, 7-4-14
 Army Signal Corps Museum (Ft. Monmouth, NJ) (defunct)6-1-7, 6-1-8, 15-2-17, 16-2-4, 25-2-6, 30-4-45
 Atwater Kent (Phila.).....30-2-47, 31-1-46
 ARRL Museum (CT)4-1-1, 4-4-3, 7-1-17, 9-3-12, 27-2-39, 27-4-43
 Bell Telephone Museum (New York; defunct) 12-3-28, 12-4-3
 Boston Telephone Museum..... 16-2-22
 Broadcast Pioneers Library (Washington)8-4-17, 21-2-30
 Broadcasting, Museum of (New York) 18-1-36, 25-2-18, 29-3-43, 32-3-46
 Burndy Museum/Library (Norwalk, CT) 9-4-20, 16-2-4
 Columbia University Armstrong Collection (NY) 19-15, 20-1-7
 Computer Museum (Boston)..... 26-2-39
 East Stroudsburg (PA) Univ., Vintage Radio Project..... 38-3-12

Electronics Museum (Schenectady) 4-3-4, 6-2-7
 Emerson/Radio Hall of Fame (NY) 29-1-8, 29-9
 Gilbert, A. C. (CT).....35-2-67, 35-3-5
 Franklin Institute (Phila.).....1-4-3, 5-3-12
 French Cable Museum (MA).....14-4-28,25-3-19
 Hall of History (Schenectady).....33-1-39
 Hammond Museum (MA)18-2-24
 Historical Electronics Museum (Baltimore)25-3-39, 32-2-55, 32-4-3
 International Museum of Photography (Rochester).....30-1-47
 Kent Museum (VT).....10-3-9, 22-2-31
 Manhattan College Tube Exhibit (NYC) *20-4-32, 20-3-16, 26-4-25, @28-3-30, 38-4-58, 41-3-63
 Maryland Science Center.....18-1-31
 Morse Home (Poughkeepsie, NY).....9-4-9
 Mt. Vernon Museum of Incandescent Lighting (Baltimore)9-2-2, 9-4-21, 11-3-5, 16-1-13, 44-3-11
 MIT Museum.....19-3-4
 Museum of Radio & Technology - "Radio Summer Heat" meet.....37-2-7
 Museum of the Moving Image (New York) *27-4-34, 29-3-43, *29-4-11
 Musical Museum (Deansboro, NY) 13-1-7
 Naval Research Lab., records destroyed39-1-

12
 New England Museum of Wireless and Steam (E. Greenwich, RI)4-4-3, 4-3-4, 5-3-2, 5-4-12, 7-2-19, 13-3-30, 25-2-4, *26-3-20, 29-3-43, 32-2-4
 Old Amherst Colony Museum (Buffalo) 19-12, 34-3-60
 Pennsylvania State Museum 29-4-47
 Radio History Society (Bowie, MD) 46-4-4
 Rivers Comm. Museum (Columbia, SC) 31-4-45
 Roanoke Island Museum 24-1-11
 Schenectady Museum 12-2-20
 Seneca Falls TV Museum (NY) 19-2-21
 St. John Fisher College Museum (Rochester) 26-4-36, 27-4-43
 Smithsonian Institution
 General@6-1-13, 7-1-18, 7-2-12, 9-1-19, 9-10, 9-3-16, 10-3-12, 11-3-20, 12-1-11, 12-4-7
 Bicentennial..... 16-1-29
 CBS color TV at 10-2-10
 Farnsworth tubes to 9-1-19
 "Information Age"..... 31-2-55
 National Portrait Gallery - Great People in Radio..... 29-3-43
 Radio-museum plans (1930)..... 38-2-37
 Ship station in 35-4-25
 Station NN3SI 17-2-29
 TV exhibit 30-2-47

- South Wellfleet, MA..... 11-3-20
Speedwell Village (Morristown, NJ).. 12-3-10
Strong Museum (Rochester)31-1-48, 33-4-60
 Radio seminar..... 31-4-6
Thomas Edison National Historic Site (NJ)28-3-5
U. S. Naval Museum (Washington) 5-3-4, 5-4-15, 9-8, 9-4-24, 19-1-15
WBT Museum (Charlotte, NC)..... 14-2-10
Western Reserve Museum.....6-2-1
Western Union Museum (defunct)*9-3-18, 10-1-21
Wm. Penn Museum (Harrisburg).....9-2-1
Woodrow Wilson House (Washington)11-4-21
- CENTRAL U. S**
Air Force Museum (OH).....10-2-3, 10-3-16
Children's Museum (Nashville)..... 10-4-22
Collins Museum (Cedar Rapids)..... 28-3-37
Corpus Christi Museum.....7-4-5
CTS-Turner Museum (Elkhart, IN) *25-4-36
Detroit Historical Museum.....5-4-6, 11-4-25
de Forest Museum (Council Bluffs) 6-1-1, 6-3-20, 7-3-10, 12-4-20
 (Also see Western Heritage Museum)
FCC Museum, Model Car in (Grand Island, NE)..... *33-3-47
Ford Museum (Dearborn, MI)@1-1-4 (& 33-2-5), 1-4-7, 3-2-14, 5-2-1, 8-1-7, 8-1-16, 8-1-18, 8-2-14, 8-2-15, 10-1-17, 11-3-20, 12-2-18, 30-1-47, *30-4-46, *31-1-47, 32-3-46, *36-1-12
 Auction, 1995..... 37-2-18
Great Lakes Marine Museum.....2-4-4
IHRS Museum Displays (Richmond and So. Bend, IN)..... 32-2-55
IHRS Museum (Ligonier, IN)..... 37-3-46
Jack Gray Museum (Cincinnati)5-3-8, 6-1-9, *6-3-15, 7-3-7, 9-17, 11-2-18, 14-1-2, 14-3-25, 17-1-5, *18-3-4, 19-35, 26-3-7, 27-4-43, 36-4-41
McKinley Museum (Canton, OH)..... 22-2-31
Michigan Historical Museum "Wireless Room" (Lansing).....*1-3-4
Motorola Museum (Schaumburg, IL) 30-4-46, 32-4-59
Museum of Comm. (Chicago)..... 28-1-39
Museum of Independent Telephony (Abilene, KS).....14-4-28
Museum of Science and Industry (Chicago) 14-1-2, 15-2-17
National Museum of Communications (Irving, TX)20-2-36, 22-2-31, 23-2-12, 24-4-31, 25-3-39, 29-4-43
Omaha Museum..... 16-4-2
Pavek Museum of Broadcasting (MN) 5-4-13, 6-4-19, 8-2-2, 10-1-10, 28-3-15, 29-3-43, 29-4-47, 32-3-46, 33-3-59, 34-2-66, *35-2-62
Valparaiso Technical Institute Museum (IN)18-1-13, 23-1-33
Western Heritage Museum (Omaha) 16-4-2, 34-2-66
Western Reserve Historical Museum (Cleveland).....6-2-1
World's Fair Hist. Exhibit, 1933..... *18-1-34
- WESTERN U. S.**
American Museum of Radio.....44-4-6
Arizona Museum.....6-2-3
California Museum of Natural History 24-4-25
Perham Foundation (ex-Foothill, Los Altos Hills, CA)4-3-4, 7-4-14, 10-3-8, 11-3-11, 13-1-20, 13-4-24, 14-1-2, 22-2-31, 26-1-5, 28-2-34, 29-3-43, 29-4-47, 30-2-47, 31-1-3, 31-1-46, 31-2-55, 31-4-45, 32-2-55, *36-3-18
 Goes to History San Jose44-2-6, 44-3-4, 44-4-6
Seattle Museum of History and Industry3-1-9, 3-2-4, 8-3-13, 10-1-2, *15-1-22
UCLA Archives.....31-4-45
USFS Museum.....31-4-45
Western Union Museum (Seattle).....16-1-29
- CANADA**
Bell Tel. Museum (Montreal).....2-2-5
Canadian Forces Communications Museum (Kingston, ON).....10-4-18, 22-4-5
Engineerium (Niagara Falls).....24-1-35
Glace Bay Miners' Museum (Marconi celebration)..... *36-4-12
Halton Region Museum (ON).....26-2-3
Hammond, Fred*22-4-32, 26-1-38, 27-2-4, 34-4-5, *40-4-37
Heart's Content Cable Stn. (NF) *22-1-24
Manitoba Amateur Radio Mus.34-2-66
Marconi Museum (Glace Bay, NS) 29-38, 31-2-55, *33-3-50, 36-4-12
Mid-Canada Antique Wireless Museum (MB) 27-2-25
National Museum of Canada (Ottawa) 10-1-11
Queen's University Library (Kingston, ON)4-4-9
Royal Ontario Museum (Znaimer TV Collection).....37-4-12
- FOREIGN**
Askoy Radio Station (Norway)..... *26-4-16
Auckland Museum of Transport.....6-4-12
Australian - General.....*30-1-9
Bergen (Norway).....26-4-26, 27-2-39
Braun (Fulda, Germany)..... 7-3-14
Brazilian Exhibition.....30-1-45, 41-3-7
British Science Museum (London) 3-3-5, 14-4-28, 25-1-9
Bygones and Broadcasting (Barnstable, England)..... 25-4-40
City of Science & Industry Museum (France) 27-1-8
Deutsches Technical Museum (Munich)4-2-9, 8-3-20
Dutch Museum of Broadcasting *35-3-49
European Museums, General18-1-6, 33-1-47
Kreuzlingen Communications Museum (Switzerland)..... 27-1-8
Magic Spark (Australia)..... 24-4-9
Motala Broadcasting Museum (Sweden)27-4-43
Museo della Radiofonia (Rome)..... 32-2-5
Museum of Electricity (Netherlands) 9-1-7, 25-4-40
Museum of Technology, University of Delft *12-3-18
Museum of the Moving Image (London)26-4-6
National Wireless and Communications Museum (Isle of Wight)..... 25-4-40
Nehru Science Center Museum (India) 27-1-8
New Zealand, general..... 33-1-47
Nikola Tesla Museum (Yugoslavia) 11-4-19
Norwegian Resistance Museum (Oslo) 14-3-24
Orkney Wireless Museum..... 24-1-35
Radio Museum Remseck (Germany) 33-1-47
Radio Telefis Eireann Radio Museum (Dublin) 26-1-21
Royal Institution, Faraday Exhibit (London)27-4-43
Science Museum (London)..... 24-1-35
Scottish Museum of Comm.33-1-47
Societe des Amis d'Andre-Marie Ampere Museum (Lyons)..... 25-1-36
Sharp Memorial Hall (Japan)..... 23-2-17
SNE Historical Museum (Brazil)..... *30-3-46
South African PO Museum (Pretoria)24-1-35
Swiss Museum of Audio-Visual (Lausanne)25-4-5
Technisches Museum (Vienna)..... 21-4-30
Telecommunications Museum, Adelaide*30-1-9, *33-4-59
Victoria & Albert Museum (London) *19-1-30
Vintage Wireless Museum (London) 24-2-32, 24-3-15, 29-1-33, 29-38

BIOGRAPHIES/PERSONALITIES/OBITUARIES

Entries marked with # are death notices.

- Aaron, Ralph E.#37-4-6
Abrams, Benjamin#8-2-17
Abrams, Max.....#21-1-28
Abramson, Albert..... *38-1-38, #45-2-59
Adams
 Bruce.....#38-2-19
 David C.....#40-2-59
 Mike..... *35-3-36, R10-149
 Robert..... #44-1-19, @45-2-51
Adler, David.....#28-2-32
Agronsky, Martin.....#40-4-58
Ainsworth, Leo J.....R13-133
Ainsworth, Arthur..... 45-1-15
Aisenstein, Simeon.....#3-4-6
Albers, Anni..... R16-193
Albion, Art.....#42-4-58
Alcocitire, Roy..... 2-4-9
Alexanderson, E. F. W11-2-22, 14-3-12, #16-2-32, 31-1-48, @R3-12, *37-1-41 + *37-2-44, 37-4-16
 Patent Listing.....@R6-155
Alden, John M.....#30-4-44
Alford, Andrew.....#33-1-39
Allen, Charles.....#26-3-3
Allen, Victor O.....#39-54
Ammon, Richard T.....45-3-59
Anderson, John M.R4-31, R5-20, R6-18, 44-4-62
Andrea, Frank A. D.6-2-6, 6-4-17, #22-2-30
Andrews, Paul.....#31-4-7
Andrews, Will.....#10-4-23
Apgar, Charles.....14-4-8, R15-10
Appleby, Tom2-3-2, 3-4-5, 5-3-5, 6-1-5, #12-3-10, 12-4-21, R2-133
Applegate, George..... 2-4-1, #33-4-53
Appleton, Harry.....#39-54
Arbeiter, Henry.....#27-1-8
Argento, Harry.....#28-3-42
Arlan, Harold W.....#27-1-8

Armstrong
 Edwin 4-3-10, 6-1-4, 7-3-9, 8-1-4, 8-3-4,
 8-3-9, 13-3-2, 13-3-12, 16-4-16, @R6-97
 and FM bco@44-3-46
 and FSK*26-3-25
 as Pre-License Amateur 31-1-37
 Patent Listing@R5-143
 100th Anniv. of Birth*31-3-28
 Esther Marion#20-3-5
 Roy#14-3-19
 Arnold, Harold DeForest R11-145
 Arrowsmith, Robert#40-4-70
 Atkins, Dave#35-4-60
 Atlee, Frank#16-3-30
 Austin, Gene#12-4-21
 Ayers, don#35-4-60
 Babbert, Steven J.39-9
 Babcock, C. D.3-3-6, 31-3-9
 Babcock, Larry 39-3-54, 41-3-60, 42-3-59, 42-
 4-7, 44-3-67, 44-4-62, 45-3-59, 46-4-54
 Babcock, Ted39-4-58, #42-2-41
 Bach, J. K.#28-2-32
 Back, George#13-3-31
 Bacon, ChristopherR10-187
 Baekeland, Leo H.R14-179
 Baker, Keith42-3-59
 Baker, W. R. G.#2-1-6
 Bailey, George W.#17-4-43
 Bailey, William F.#40-1-58
 Baird
 Hollis4-2-4, 10-2-12, 10-3-5, #31-1-6
 John 7-4-23, *38-3-40, *42-1-30 + *38-4-46
 + @39-1-29
 L. S.#4-1-9
 Baker, Charles F.36-1-35
 Balaton, AttilaR4-69, R5-122
 Balderston, William#24-3-18
 Baldwin, Nathaniel9-1-17, 9-7
 Ballantine, Stuart11-2-16
 Ballard, Randall#28-3-32
 Balsillie, John G.R13-39
 Bangay, R. D.#10-4-23
 Banker, Dennis42-2-48
 Barber, Ralph#7-4-5
 Barclay, John C.@43-3-50
 Barcus, Les#40-4-58
 Bardeen, John 26-4-4, 27-1-4, 31-1-48, #32-
 1-6, 40-1-19, 40-2-62
 Barfield, Charles V.#7-1-8
 Bark, Raymond#7-1-16
 Barker, Russell C.#15-1-9
 Barnathan, Julius#39-54
 Barnes, William#18-4-31
 Barnett, A. Houston#7-3-19
 Barnouw, Erik#42-4-60
 Barnow, Wilmer#16-3-31
 Barry, Frederick N.#30-2-3
 Barrymore, Lionel (pic)45-2-FC
 Bartles, HarleyR15-127
 Bartlett, George W.#32-3-39
 Bartlett, Paul#43-2-64
 Bartram, GraemeR13-80
 Batcheller, Arthur#19-1-35
 Batchler, Ralph 9-4-4, 17-4-42, (pic) 37-4-68
 Batscha, Robert M.#44-4-40
 Battison, Alvin H.#40-2-63
 Batterson, George #35-1-59, 50Y-8, 50Y-19,
 44-2-7
 Batterson, June#3-2-4
 Bauer, Arthur#46-3-57
 Baum, Arthur#32-2-53
 Baudino, Joseph E.#39-54
 Beale, Horace A.R2-133
 Bean, Helen Quam#35-1-59
 Becker, Donald C.#44-2-72
 Beever, Anthony Wayne#46-2-55
 Beggs, James#25-3-3
 Beideman, Addison#14-3-26
 Begun, S. J.#36-3-49
 Bel Geddes, NormanR16-191
 Bennett, William#24-3-18
 Bennett-Levy, Michael*46-3-14
 Benson, Lester#13-4-20
 Berliner, Emile12-4-13, 14-4-5
 Berman, Jack#38-4-26
 Bernstein, Sidney Lewis#35-1-59
 Bertodatto, Henry#38-4-26
 Beutler, Sherwood#5-1-7
 Beverage, Harold25-3-4, #34-2-58
 Beville, Ross30-3-45
 Beyer, Ray8-2-17
 Bice, Donald B.#44-2-72
 Billings, James H.#40-2-59
 Biilski, Art41-2-56
 Bingley, Frank17-4-47
 Binns, Jack #1-1-1 (& 33-2-4), 7-4-20, 10-4-
 19, 31-1-48
 Bioya, John R.R13-135
 Birkett, Richard A.#46-4-23
 Black, Eugene#38-2-19
 Black, Harold25-1-4
 Blackshear, Roy*R11-164
 Blakeman, Kenneth V.#44-4-52
 Blan ("The Radio Man")12-3-23
 Bligh, Jasmine#33-1-39
 Blisard, KarenR14-80, R16-132, R18-23
 Bloom, Rube17-1-36, 17-2-32
 Blumlein, Alan17-1-13
 Bodle, David28-4-45
 Bohlander, Paul41-4-63, 45-2-43
 Bolen, Lee H.#40-1-59
 Booe, James#35-4-58
 Boot, Henry A. H.R9-155, R9-199
 Borkow, Albert#34-4-63
 Bose, Jagadis Chunder7-1-20, @27-1-16
 Bose, John31-1-48
 Boswell, Connie17-4-47
 Bourbin, Paul39-9, 41-1-65
 Bourland, Lang7-3-19
 Bourne, Geoff45-1-4
 Bourne, Roland 6-1-7, 6-4-10, 7-3-4, 10-2-13,
 10-4-22, 12-4-11, 12-4-21, 15-1-32
 Boyer, Lawrence A.#45-1-64
 Bradford, Henry M. 40-1-64, 40-2-62, 42-3-59,
 44-1-66, 44-2-62
 Braese, Hugh13-3-9
 Braga, Gioia Marconi 24-2-18, *37-1-1 (pic),
 #37-4-9
 Branly, Edouard*24-4-23, 39-3-46
 Brattain, Walter28-4-45
 Braun, Karl Ferdinand 15-1-14, 27-4-24, @40-
 3-22
 Braunbeck, Joseph43-3-20
 Brazill, Stanley#14-1-13
 Bradfield, W. W.R9-6
 Brelsford, Charles#42-4-58
 QCWA award40-3-15
 Brelsford, Ernest#17-1-36
 Breniman, William15-3-24, 16-3-7
 Brennan, Joseph#19-1-35
 Brentlinger, Bill*36-2-22
 Brewer, Robert M.#41-4-38
 Brewster, Richard39-4-58, 46-1-45
 Brickett, Jack17-3-32
 Briggs, ThomasR5-62, #24-2-3
 Brinklay, John3-1-3
 Britt, Charles, Sr.#35-1-59
 Broslaw, Joseph#14-3-19
 Brooks, Donald D.#35-1-59
 Broughton, Wm. Gundry36-1-35
 Brown
 Carlton G.#37-2-58
 George#28-4-45
 J. Edward#26-4-41
 John, Major#34-2-58
 Thomas R.#43-4-50
 Walter#13-4-20
 William C.#41-2-60
 Browning, Glenn 8-1-4, 8-4-13, 15-3-27, #15-4-
 24
 Browning, John W.#37-3-53
 Bryan, Wm. Jennings44-4-37
 Bryant, John Allan#44-4-52
 Bryant, Carl B.#37-4-9
 Bucher, Elmer 4-3-8, #5-3-12, 13-4-4, 24-1-35,
 26-1-23
 Buchholz, Richard S.#32-4-5
 Buck, Daniel G.#46-4-23
 Buckler, James R.#46-4-23
 Budlong, Robert Davol@35-3-8
 Bullock, Mark11-3-8
 Bunker, FrankR13-115
 Bunnell, Jesse*32-4-42, *38-3-53
 Burghardt, Stanley L.#46-1-51
 Burhop, Harold#12-3-23
 Burke, Walter J.#38-1-66
 Burr, Robert Page#40-9-59
 Burnham, Bradshaw#37-4-9
 Burns, James#11-4-5
 Burrows, W. Raymond#37-3-9
 Busignies, Henri#22-2-30, R13-101
 Byron, William J.R7-149, #44-1-19
 Cadmus, R. Y.R2-132
 Cady, Walter#15-4-24
 Cagle, Harold#16-1-32
 Cain, John#9-4-4
 Caldwell, O. H.#8-3-6
 Callahan, T. G.R13-120
 Campbell, Emerson Laird#43-4-50
 Canning, Albert J.#31-2-6
 Capehart, Homer E.#20-3-5
 Carone, Victor#29-4-41
 Carr, Joseph J.#42-2-51
 Carty, John J.R11-144
 Casale, John40-2-62, 41-3-60, 46-1-45
 Caveney, Mike 3-3-1, 4-2-2, 5-3-2, 7-4-23, 11-
 1-7, #12-4-21
 Chambers, Frank B.*R2-121
 Champeix, RobertR6-113, #37-2-46
 Chaplin, MauriceR15-178
 Chase, Kenneth#15-2-27
 Chelkowski, Marion J.#44-4-52
 Chernyshev, A. A.*R9-111
 Chesson, Frederick W. R6-95, R7-89, R8-147,
 40-1-64
 Chidester, Buford44-2-62
 Christensen, John22-3-41
 Church, JohnR17-38
 Clapp, Benjamin#32-1-33, 38-2-40
 Clapp, James#6-1-7

Clark
 Carlos #35-4-60
 George #3-3-9, 31-1-48
 Thomas 3-2-4
 Victor #24-4-4
 Walter G. R14-39
 Clavier, Andre #13-3-31
 Cleland, Walter P. 41-4-38
 Clement, Lewis 13-2-8, *13-2-17, 13-4-4, 15-3-27, #20-4-11
 Clifford, Vern #37-4-9
 Cline, Earl #4-4-1
 Clymer, Floyd #10-4-23
 Coats, D. R. P. R14-93
 Cobaugh, Robert #36-3-50
 Cockaday, Lawrence 8-1-4, 11-1-8, *20-3-28
 Cockburn, Sir Robert #35-3-55
 Coddington, Charles R13-121
 Codel, Martin #14-1-13
 Coe, Robert Stanley #35-3-55
 Coffey, Wm. N. 41-2-56
 Cogan, David #26-1-7
 Coggeshall, Ivan #31-4-7
 Cohen, Julius #34-4-63
 Cohn, Hugo 20-1-14, 30-2-40
 Colebank, Laurence S. #40-4-70
 Collins, Arthur #28-1-42, @R10-222
 Collins, Reginald #38-2-19
 Colleson, Perce 3-4-4, 5-4-7, #7-3-19
 Colpitts, Edwin H. R11-145
 Comer, Mel 7-3-9, 7-3-19, #40-1-62
 Conklin, Steve #44-1-19
 Conkling, George W. @46-3-49
 Conrad, Frank 11-4-21, @R10-126
 Patent listing @R5-143
 Conrad, Ken #29-3
 Confrey, Zez #13-1-23
 Cook, J. Lawrence 17-2-32
 Coolidge, William 9-1-18, 11-3-2, 14-3-18, #16-1-32
 Cooper, Don #15-3-27
 Copland, Harry 17-3-32
 Cordon, James T. #41-3-54
 Cornell, Ken #38-2-63
 Cornwell, Sadie E. 42-1-67
 Corpe, Sam R15-18
 Correia, Louis M. #42-1-38
 Correll, Charles #13-3-31
 Cottam, Harold 25-2-25
 Cotter, William 11-2-7, #11-3-12
 Cousino, Bernie #36-3-49
 Craig, Stuart #41-2-60
 Cram, E. R. R16-99
 Crane, H. Richard 41-2-56
 Craney, Ed #32-4-20
 Crawford, G. Wallace #25-4-29
 Cray, Seymour R. #38-1-52
 Creed, Frederick W. #42-3-61
 Crews, William 6-3-3
 Crocker, Dave 46-1-45
 Cronkite, Milton #12-3-4
 Crosby, Murray #15-2-27
 Crosley, Lewis #19-4-35
 Crosley, Powel 16-2-29, 17-3-20, R13-134, @R16-7
 Cross, Milton 13-1-23, 15-4-24
 Crossley, Gilbert #11-3-12
 Crum, Al 10-3-7, #32-1-6
 Cummings, Ed #15-2-27
 Cummings, Gary #28-4-45
 Cundall, Helen #40-2-63
 Cundall, Lincoln 22-1-16, 25-4-5, #26-1-7
 Cunningham, E. T. 11-2-20
 Cunningham, Gerald #15-3-27
 Curie, Pierre 27-4-24, 31-3-40
 Cutting, Fulton #8-4-12
 Cutting, Mary #13-1-22
 Darr, Clyde 13-1-22
 Dates, James #35-1-59
 Darlington, Sidney #39-1-51
 Davey, Hugh 43-1-6
 Davis
 Carl G. 45-3-59
 E. Stuart *6-4-4, 9-1-17, 9-3-7, 16-3-7, #24-1-35
 Edward #34-4-63
 Jack #37-2-46, 37-3-22
 Dawson, Ernest L. 42-2-41
 Daykin, Cliff 11-4-6, #38-2-19
 Dean, Donald #45-2-6
 Deane, Russ #17-1-36
 Decoste, Ernie #41-1-12
 Deeley, Dexter 40-1-1
 Dervishian, Edward #43-4-26
 Desvaux, Paul H. 44-3-54
 Deutschmann, Theodore #17-1-36
 Deutschmann, Tobe #32-3-39
 De Broglie, Louis #28-2-32
 de Ferranti, Sebastian Ziani 10-4-18
 de Forest, Lee #2-3-1, 3-3-3, 5-1-9, 5-2-4, 5-2-6, 6-3-20, 6-4-10, 7-2-3, 7-2-5, 8-2-16, 8-4-12, *9-1-1, 9-1-13, 9-4-1, 13-1-18, 14-1-26, 16-2-21, 29-23, @R10-99
 and Am. Wireless Tlg. Co. ... *R14-150
 and his "crust of bread" *30-1-14
 Audion, how did he invent? *31-3-9
 Patent listing @R5-143
 Pic, in '20s ship station 6-1-1, 6-1-2, 7-2-5
 with biplane, Maria de Forest, and Bebe Daniels *16-2-21
 with biplane and Wright Bros. (?) *38-1-68, 38-2-5, 38-3-10
 w/ IRE Toronto Board... 38-3-32, 38-4-5
 at St. Louis Exhib. (1904) *9-1-1
 Snoops on WECO transatlantic test *R11-125
 Transistor patent 33-1-20
 Visits W6YPM (pic) *38-1-1
 de Forest, Maria 8-4-12, 11-1-5
 DeHenseler, Max 29-4-10
 de la Croix, Alfred #17-1-36
 Deloy, Leon. 6-2-7, 6-4-10, #10-1-7, 31-1-48
 DeMaw, Milton F. #38-4-56
 Demersman, Pierre R13-114
 de Neuf, Don #29-3-20
 Dengler, Clarence 4-1-9, 6-3-19, 13-1-22, 18-2-27, #23-4-9
 Denk, William R4-109, 39-4-58
 DePoe, Charles #38-3-21, #39-2-17
 Derrick, William #17-4-47
 DeWitt, John Jr. #40-2-59
 Diaz, Raymond #26-1-7
 Dibner, Bern #29-1-43
 Dickow, Henry #12-1-11
 Dietsch, Carl G. #19-1-35
 Dillaplain, Vernon L. #38-4-26
 Dillon, Paul 39-3-70
 Dinger, Harold #16-1-32
 Dingman, James #35-4-58
 Dion, Victor 15-4-24
 DiRuzza, James A. #37-4-9
 Diver, William #9-4-4
 Donaldson, Gordon #38-2-19
 Doolittle, Franklin M. R13-126
 Dorhoffer, Alan #40-4-58
 Dorschug, Harold A. #41-1-55
 Dougherty, Harold #28-4-45
 Dow, Cliff #4-4-2
 Douglas, Alan 31-3-6, 37-3-5, R3-77, 39-4-58
 Dowd, Bro. Patrick 31-3-6, 31-4-47, R9-23, 39-4-58, 41-3-62
 Dragowski, Thaddeus #38-4-26
 Draper, Charles #28-3-42
 Dreher, Joseph W. 40-2-62
 Drew, Charles #12-1-11
 Driscoll, George #26-1-7
 Drummey, Bill 2-1-8, #5-1-7
 Dubilier, William 5-1-7, 10-1-11, #10-2-15
 Dubois, Alton #44-3-5, #44-3-54
 Ducretet, Eugene 41-1-28
 Dukat, Frank #42-1-67
 Dummer, Geoffrey #44-1-55
 Du Mont, Allen B. 6-3-3
 Patent listing @R5-143
 Dumbrack, Melvin #33-1-15
 Dunlap, Orrin 8-4-6, #10-4-23, 19-22
 Dunmore, Francis @R3-61
 Durfey, George *40-4-1
 Duvall, Ted 4-12, 9-4-24, #16-3-30, R8-121
 Dyer, John N. #37-3-53
 Early, James M. #45-2-60
 Eastham, Melville #5-2-5
 Eddy, William #30-1-44
 Edgerton, Harold #31-1-37
 Edison, Thomas A2-3-16, 3-2-4, 7-3-9, 11-4-24, 11-4-25, 16-2-4, 16-2-30, 18-1-17
 Edwards, Alfred J. #42-1-67
 Edwards, Joe #28-2-32
 Eidson, Merrill #37-3-53
 Eitel, William W. 31-1-48, #30-1-44, 32-4-14
 Eklund, Gordon #24-1-35
 Ekstron, Joel 46-1-61
 Elder, Frank R9-185
 Eldred, George Land *37-2-46
 Eldridge, Jonathan #14-4-27
 Elkins, Carl ("Jackie") #37-2-46
 Elle, Bruce 10-2-9, #20-2-3
 Eller, David M. #32-2-5
 Ellsworth, Charles 3-4-5, #8-4-12
 Elwell, C. F. *R7-129
 Emerick, Roland #43-4-26
 Engl, Joseph 44-1-43
 Engler, Ludwig R. #17-1-36
 Engstrom, Elmer #25-4-29
 Engstrom, Henry G. #42-4-58
 Espenschied, Lloyd 4-2-3, 7-4-21, 9-12, 9-3-1, 10-1-21, 10-2-8, #27-2-3, 31-1-48, R11-147
 1907 Amateur Stn. *31-1-11
 Etting, Ruth 43-4-49
 Everitt, William #27-4-42
 Ewald, Arthur H. R17-46
 Faber, Leon #38-4-56
 Facenda, John #25-3-13
 Falkenberg, Jinx 46-4-60
 Fandt, Christian 45-2-43
 Faraday, Michael *9-4-14, 39-36
 Farmer, Dr. Stuart #38-3-21
 Farnsworth, Philo #12-1-11, 25-1-25, 46-2-49
 and electronic television @R1-43

Patent listing@R5-143

Farrand, Clair L.....#21-4-15

Fassett, James.....#28-1-47

Fay, William.....#13-3-31

Fazano, Carlos.....R7-106, 39-3-54, 44-2-62

Feerst, Irwin.....#31-4-36

Fein, Louis.....#28-4-45

Feldman, Jack.....#32-2-53

Fernandez, Frank C.....#38-4-26, #39-1-48

Ferrell, Perry.....#25-2-3

Fessenden, Reginald A4-3-9, 5-1-12, 6-4-1, 7-3-6, 7-4-11, 11-2-22, *R10-89
 "My conversation with" (Orr).....31-3-21
 Bibliography.....@R8-55
 and dev. of radiotelephony *37-4-14 +
 *38-1-34, 38-1-12

Patent listing@R5-143

Fetsch, Joseph T.....R8-109

Fetters, Laten.....*46-3-33 + *46-4-57

Fetzer, John.....#32-2-53

Field, Henry.....@R15-126

Filley, Clarence E.....#45-3-42

Finch, William G. H.....#31-4-36

Findley, William.....#38-2-19

Finlayson, S. M.R14-117, -125, -129, -140, -143

Fisher

Avery.....#35-2-69

Charles P.....R4-44

Helen Field.....*43-2-37

Thornton.....#16-3-31

Fisk, Jim.....#21-1-28

Fitzpatrick, Leo.....#13-1-23

Fitz-Randolph, Roderick M.....#40-1-62

Fizette, Bill*37-1-4, 39-4-58, 41-1-65, 46-1-45

Flaherty, Joseph.....#28-4-45, 30-4-34

Flanagan, Charles A. "Tony".....#39-4-61

Fleck, George.....#11-3-12

Fleming, Sir Ambrose.....9-4-7, R9-30

Patent listing.....@R5-143

Ford, Frederick.....27-3-41

Forrest, Ray.....#40-1-59

Fortier, Charles L.....@R14-163

Foster, Clair.....30-1-10, 35-4-17

Foster, Richard C.....R13-114

Foulois, Gen. Benjamin.....#8-1-8

Fowler, Lester.....32-1-12

Fox, W. C.....38-2-41

Franklin, Charles S.....#5-4-10, R9-34

Frederick, M. L.....39-3-54

Freeman

George41-1-37, 42-1-53, 45-1-64, 46-1-45, R13-155, R15-146

Hubert W.....R15-153

J. Jerry.....#37-4-59

Janet Dell.....43-1-18

de Freitas, Edison.....*31-4-14

Fried, Steve.....#43-2-74

Freshman, Charles.....17-4-16

Freuhauf, Milton.....#38-2-19, 38-3-10

Friedman, Neil D.....R951

Friis, Harald D.....#17-2-32

Frost, Herbert H.....*32-2-11

Fuller, Glen.....R3-136

Fuller, Leonard.. 15-2-4, #28-2-32, @R7-120

Gable, Ed39-1-66, 40-3-62, 40-4-57, 46-1-46

ARRL award.....40-3-7

Gambling, John A.....45-3-28

Gardner, Bernard.....36-1-36

Gardner, Ken.....10-1-18, 31-4-29, #43-2-74

Gassett, Bill.....#10-3-7

Gates, Parker S.....#27-4-42

Gawler, Henry.....#10-4-23

Gee, A. C.....#38-4-56

Geisel, Frank.....10-1-24

Geisler, Helmut John.....#43-4-26

Germeshausen, Kenneth.....#31-4-36

Gernsback, Hugo3-3-3, 4-3-5, 5-1-10, 7-3-4, #8-3-8, 9-1-14, 12-4-9, *18-2-18, 31-1-48, @35-3-31, 35-3-63

Patent listing.....@R6-155

Ghirardi, Alfred.....14-2-4, 35-3-66

Gibbs, Everett.....#35-4-60

Gibbs, Leo L.....#43-3-32

Giblin, Thomas P.....*30-4-9

Giganti, Paul.....#38-1-66

Gildersleeve, Phil.....#7-4-5, 12-3-17

Gifflin, Sennet W.....@R10-25

Ginsburg, Charles P.....#34-1-55

Girard, Norman.....36-3-34, #36-4-50

Gleich, Jacob W.....#42-4-58

Glisson, John..#38-2-19, #38-3-21, #39-3-70

Gluck, Earle.....R13-115

Goddard, Robert.....@R7-151

Godfrey, Arthur.....#24-1-10

"Meets the Expert".....*20-4-21

Godfrey, Earl.....R2-133

Godley, Paul7-3-2, 7-3-4, 11-2-15, #14-3-26, 16-1-4, 31-1-48

Interview with.....@R1-117

Goff, Norris ("Abner").....*36-2-22

Goldmark, Peter.....10-3-12, #18-4-30

Goldsmith, Alfred N.....#15-2-27

Goldschmidt, Rudolph.....9-4-15

Goodall, Alfred.....#9-1-3

Goodman, Byron H.....#45-4-61

Goodnow, Arthur.....3-1-2, #29-1-43

Gosweiler, Herbert.....#35-2-30

Gould, William B. III.....#24-3-18

Graham, Ralph.....9-3-7, #33-1-15

Graham, Virgil.....#10-4-23

Grammer, George.....9-10, 9-3-15, 25-2-23

Granat, M. L.....#17-2-32

Granberg, Helge O.....#37-3-53

Granger, John V.....#39-3-60

Grant, W. W.....@33-3-16

Grauer, Ben.....#18-2-5

Gray, Jack.....8-1-9, 8-3-5, 11-2-9, #11-3-12

Grebe, Al.....42-2-58, R13-128

Green, Cecil H.....44-3-19

Green, Edwin H. R.6-3-17, 6-4-16, 7-2-1, 10-2-6, *20-1-4

Greene, Hugh.....#28-1-42

Greene, Lorne.....#28-3-42

Grenfell, William S.....#36-3-50

Greenwood, Harold.....#12-3-23

Greer, Horace.....#2-3-2

Griffen, Charles S.....39-4-59, 46-1-46

Grimes, David.....11-2-20, 22-2-7

Groff, John C.....44-1-19

Gross

Al.....#42-2-52

Benjamin.....#17-4-47, #20-3-5

Gerald.....#12-2-21

Wilbert.....#17-1-36

Grundig, Max.....#30-4-44

Grundty, Pamela.....R13-123

Grover, Frederick.....#14-1-13

Guild, Lurette.....*38-1-18

Gunshor, Robert L.....41-1-65

Gunther, Frank.....10-1-13, #40-1-59

Gurney, George.....16-3-30

Gurney, John Chandler.....@R15-139

Guthrie, John H.....#45-4-46

Guy, Joseph.....#11-2-21

Guy, Raymond3-4-1, 9-12, 9-3-1, 9-3-4, 11-2-10, #16-2-32

Habann, Erich.....R9-187

Hagen, Mike.....#17-1-36

Haggerty, Jack.....#11-3-12

Haley, William.....#28-3-42

Hall, H. R.....#7-2-17

Hall, M. D. "Bud".....R7-158

Hallenstein, Nate.....#27-4-42

Halligan, William.....#33-4-53

Hallinan, Charles.....#39-4-56

Halstead, William.....#28-3-42

Hamming, Richard W.....#39-55

Hammond, Frederick O.....#41-1-12

Hammond, John H., Jr. 2-1-2, #6-1-7, R906

Handler, Gene.....#8-2-17

Hanlon, Jim.....44-1-66

Haner, Bob.....#14-4-27

Hanlon, Jim.....43-4-12, 44-2-62

Hanson, William W.....#43-3-71

Harman, Emil.....*35-2-30

Harper, John C.....#31-4-7

Harris, Charles.....#27-4-42

Harrison, Richard.....#38-1-66

Hart, Roger.....R14-148

Hartley, Ralph.....10-3-23, #11-1-9, R11-146

Hassel, Karl.....#16-2-32

Hastings, Mitchell.....36-1-37, 36-1-39

Haubner, Theodore.....#4-2-8

Haverlin, Carl.....#26-3-17

Havranek, BarbaraR14-194, R16-205, *R18-99

Hawley, Mark Hiram.....#27-4-42

Haworth, Robert F.....40-2-62

Hayes, Arthur Hull.....#27-3-41

Hazeltine, Louis.....#5-2-5, *7-2-19

Heck, Eldon.....#9-4-41, 30-1-4

Heinemann, F. Parker.....R10-244

Heintz, Ralph.....16-2-4, R10-189

Heising, Raymond.....#5-4-1, R11-146

Henney, Julian Keith.....#31-4-36

Henry

Charles.....#18-2-7

Corwin.....#16-4-36

Joseph.....3-1-11, 17-1-30, *21-1-24

Herbuveaux, Jules.....#31-1-37

Herold, Edward @R7-15, *33-4-20, #34-4-63

Herrold, Charles*10-1-14, 35-3-24, 36-1-46, @R10-111, @39-3-20

Hershberger, Delmar.....#28-2-32

Hertz, Gustav.....#16-4-36

Hertz, Heinrich.....5-3-9, 9-4-11, 39-3-44

Hertzberg, Robert.....11-3-16, #34-1-55

Hewlett, William R.....#42-2-52

Hick, Harry.....12-3-17

Higgs, Desmond G.....#46-3-57

Highmark, G. Vincent.....#37-3-9

Higinbotham, John Sears.....#44-4-52

Hilferty, Dick.....#32-3-19

Hill, Albert G.....#38-1-52

Hill, A. V.....R9-157

Hillman, Leon.....45-3-59, 46-3-13

Hings, Donald L.....#45-4-62

Hinkle, Charles J.....#30-1-5

Hoag, Yates.....3-4-2, 19-3-10

Hoagland, Millard "Hoagy".....	40-1-10	Jonassen, Severin.....	*35-2-33	46-4-54
Hobbs, Marvin.....	#45-2-61	Jones		Krantz, Frank.....
Hodgson, Richard.....	#41-4-58	Al.....		Kraus, John.....
Hoffart, Rudy.....	#39-17	R10-221		Krauss, Serge.....
Hogan, John V. L. #2-1-6, 4-3-5, *10-2-1, 31-1-10		E. T. "Zip"1-4-5, 2-1-2, 6-3-7, #7-1-16, 9-1-7		Krawczyk, Edward S.....
Patent listing.....	*R6-155	Frank C.....	*28-3-34, #37-2-58	Krech, Karl.....
Hojnacki, Stan.....	45-4-67, 46-3-13	Lester L.....	*26-2-8	Kreuzer, Felicia A. R9-96, R14-81, R16-132
Holden, Howard.....	43-3-20	Kaar, Ira J.....	#32-3-39	Kreuzer, James H. R9-95, R14-80, R16-132
Holden, Hugo40-2-62, 42-2-59, 44-1-66, 44-2-62		Kaetz, John T.....	43-4-12	Kubes, Edwin C.....
Holder, Howard R.....	#43-4-51	Kahn, Albert R.....	#46-4-32	Kuhlman, Kathryn.....
Holliday, Alvis Milton.....	#37-2-58	Kaltenbom, H. V.....	27-4-40	Kunde, Keith.....
Holly, Bill.....	*R17-105	Kandel, Joel I.....	31-1-20	Kunz, Raymond.....
Holman, John H.....	#45-3-42	Kaplan, Sam H.....	#41-2-61	Kurtz, Edwin.....
Hoover, Herbert, Jr.4-3-3, #10-2-4, 38-2-68, (pic) 38-3-5		Kardon, Bernard.....	#34-4-63	La Hiff, John.....
Horle, L. C. F.....	6-1-2, 6-2-10	Karns, Melvin E.....	#24-3-4	LaForest, John.....
Houck, Charles.....	3-1-2	Kasperowicz, Henry J.....	#43-3-71	L'Huillier, Brian L.....
Houck, Gilbert.....	31-3-6	Kather, Nevin.....	#30-2-42	Lahuillier, Gilbert.....
Houck, Harry W.2-3-2, 7-3-19, 17-4-46, #30-4-6		Katzdorn, Mike.....	44-3-67	Laker, Edwin.....
Hough, Robert D.....	#42-1-67	Kayatt, Philip.....	#16-2-32	Lamb, James.....
Houskeeper, William G.....	*23-2-16	Kear, Frank G.....	#24-3-18	Landell de Moura, Fr. Roberto.....
Howard, H. Taylor.....	#44-2-50	Kearney, Ty A.....	#42-4-58	Lanksher, Peter.....
Howard, Robert T.....	#42-3-56	Keiper, Francis.....	#17-4-47	LaPlante, Roy.....
Howard, Wm. L.....	39-3-54	Keirn, Amos.....	#31-4-7	Larson, Ray W.....
Hubbell, Burt G.....	R8-71	Keithley, Joseph F.....	#41-2-61	Lauck, Chester ("Lum").....
Huffman, David A.....	#41-1-55	Kell, Ray.....	#28-3-42	Lawrence, Ron.....
Hughes, David Edward.....	39-3-45	Keller, A. C.....	#24-3-18	La□t, Paul.....
Hughes, Howard.....	14-3-19, 14-4-9	Kelley, Bruce31-3-6, 38-4-68, *39-1-4, @39-1-34, *39-1-68, *50Y-6, *50Y-20		Laxton, Fred.....
H□msmeyer, Christian.....	23-2-17, *R9-110	Kelly, Arthur.....	#34-4-63	Leach, Edward A.....
Hurley, Robert.....	5-4-4, 6-1-13	Kelly, John.....	39-3-70	Leach, Val.....
Hurst, Tobert.....	#33-1-39	Kemp, George.....	*R96, *R13-82	Leake, Richard C.....
Hull, Albert.....	#7-2-17, *R9-184	Kendrick, Art.....	#41-3-66	Lear, William.....
and kenoplotron.....	*31-3-7	Kennedy, Colin.....	11-4-8	Learned, Leslie.....
Hull, Ross.....	12-2-17	Kent, A. Atwater.....	@7-3-15, 9-1-19, R10-7	Lee, BartR5-44, R13-97, R15-97, 42-4-4, 45-4-67
Hupp, Joseph.....	#31-1-1	Patent listing.....	*R5-143	Lee, Robert E.....
Hutt, Ray.....	29-4-39	Kent, A. Atwater Jr.....	37-3-5	Leeb, Paul.....
Hyde, Rosel.....	#34-4-63	Kent, Mabel.....	#12-1-11	Leggatt, (D.) PatR6-47, 39-9, 39-3-54, #40-1-62
Hyland, L. A. "Pat".....	#30-4-44	Kilbourne, Edward C.....	R14-39	LeKashman, Larry.....
Ibuka, Masaro.....	#39-55	King		Leming, John E.....
Ingles, Gen. Harry.....	#17-3-32	Janice.....	10-3-19	Lemmon, Walter.....
Irwin, Jack.....	3-1-9	Jean.....	#35-1-59	Le Page, W. Lawrence.....
Isom, Warren Rex.....	#44-2-51	Kent A.....	R11-103	Lescaboura, Austin.....
Israel, Lester L.....	*26-2-8	Kingman, Jack.....	#43-2-74	Leslie, Donald J.....
Ives, David O.....	#44-4-42	Kingsley, Art.....	*42-2-34 + *42-3-25	Leutz, Charles R.....
Iwama, Kazuo.....	#23-3-4	Kintner, Robert W.....	#21-4-15	Levy, Ike.....
Jablin, Julian.....	#39-17	Kintner, Samuel.....	31-1-10	L,vy, Lucien.....
Jackson, Joseph G.....	43-2-48	Kirkbright, Bill.....	#12-1-11	Varney, R. Louis.....
Jacobs, Paul H.....	40-1-64	Kirkwood, Loren.....	#28-3-42	von Lieben, Robert.....
Jacobson, Max M.....	#23-4-4	Kirsten, Charles C.....	42-1-53, *R16-179	Lewis, Ernest R.....
Jaffe, Lawrence D.....	#16-4-36	Kleiner, Eugene.....	#45-2-61	Lewis, W. Turnor.....
James, Vir.....	36-1-37	Kleinman, Russell42-2-56, R14-79, R16-132, R18-22		Lighton, Robert E.....
Jansky, Moreau.....	#16-1-32	Kleinschmidt, Edward E.....	#18-4-5	Lindenblad, Nils.....
Jeffords, Jack.....	#15-3-27	Klink, Granville.....	#38-3-55	Lindermann, Carl.....
Jenkins, Charles F.....	7-1-2, #17-2-30	Klipsch, Paul W.....	#43-3-71	Lindsay, T. J.....
Jenks, Cy.....	#6-3-3	Kloss, Henry.....	#43-2-65	Link, August.....
Jensen, Axel.....	#13-4-20	Knight, John B.....	#36-3-49	Link, Fred M.....
Jensen, Peter.....	@39-42	Kohl, Frank.....	#31-1-6	Lock, Muriel.....
Jewett, Frank B.....	R11-145	Kohman, Girard B.....	#24-3-18	Lodge, Sir Oliver11-2-22, 39-36, 39-3-16, 39-3-47, *43-3-53, @43-4-27
Johnson		Kolster, Charles.....	#15-2-27	Loewy, Raymond.....
Edgar F.....	#32-2-53	Kolster, Frederick A.....	10-1-12, R9-12	Logwood, C. V.....
Herbert G.....	#41-2-60	Konter, Richard.....	#20-3-5	Lomax, Stan.....
Irving.....	#32-1-33	Korf, Earl Watkin.....	#45-1-65, *45-2-63	Loomis
Reynold B.....	#40-1-58	Kory, Michael.....	#28-4-45	Alfred.....
Thomas Alan.....	#43-3-32	Kosinski, Alexander.....	#40-3-9	Mary Texanna.....
Warren S.....	*R14-152	Kotich, John E.....	#40-4-70	Mahlon3-1-4, 4-3-4, 5-3-12, 8-2-14, 15-3-25, *38-3-46
Johnstone, Richard.....	#13-3-9	Kraeuter, David W.R5-191, R6-184, R8-66, 42-1-53, 43-4-12, 44-1-67, 44-3-67, 44-4-62, 45-1-65, 45-2-43, 45-3-59, 46-1-46, 46-3-13,		Patent listing.....
Jolliffe, Charles.....	#11-2-21			and his patent.....

Lopez, Vincent.....#16-3-31
Lord, Phillips S.....#16-3-31
Lorenzen, Howard.....17-2-12
Lotito, Frank40-2-63, 40-4-57, 41-3-60, 42-1-53, 42-2-63, 45-1-65, 45-2-43, 46-1-46, 46-4-54
Lott, Harry.....#31-2-6
Lowell, Percival D.....@R3-61
Lowenstein, Fritz.....@R905
Lowry, Charles A.....@*35-4-10
Lozier, Robert E.....R7-13, 39-4-58, 40-4-57
Lum-King, Kenneth.....*30-1-11, #38-1-66
Luoma, George.....#14-3-19
Lyon, Edwin.....R9-3
Lyons, Floyd.....*8-1-5
Maas, Charles.....#16-4-36
Mackiewicz, Richard W....#39-1-48, 40-1-64
MacMillan, Adm. Donald8-3-5, -1-14, #11-3-12
Madawick, Tucker.....36-1-8
Mader, Joe.....#40-2-63
Magers, Bernard.....41-4-65, 44-3-67
Maggiore, Frank P.....#37-4-9
Magness, Bob.....#38-1-53
Maher, Ed.....#31-4-7
Maier, Howard.....#24-1-10
Mallory, Edward B.....#28-3-10
Mallory, Phillip R.....#16-4-36
Malone, Walter J.....#32-1-6
Malone, Ted.....#30-4-44
Mann, Thomas L.....#44-2-52
Marconi, Beatrix.....#17-3-3
Marconi, Guglielmo
 General3-2-3, 3-2-4, 3-2-16, 3-3-4, 3-4-5, 6-1-9, 7-3-12, 12-1-4, *25-2-13, @36-3-8, @R9-7, *R10-87, 39-3-45
 Creating wireless telegraphy.....*44-2-60
 Did he invent radio? (R).....25-3-25
 El Cristo lighted by.....28-3-18
 Estate and yacht.....3-4-5, *26-4-8
 Interview with (Weir).....5-3-10
 Monuments
 Lombard St., San Francisco..15-4-32
 Roger Williams Park, ProvidenceR15-1-11
 Patent listing.....@R5-143
" Proves he did it" (transatlantic test)30-1-17, 30-2-37
 Some notes on.....*25-1-13
Marcy, Al.....10-4-9, #18-2-7
Marks, "Uncle Dave".....#33-4-53
Marriott, George.....#28-4-45
Marriott, Robert.....9-2, 9-14
Marshall, Lawrence.....#21-4-15
Marshall, Nicholas K.....#37-3-53
Marsten, Jesse.....#25-4-29
Martin
 Bert.....#14-4-27
 Horace G.@43-4-62 +@44-1-52 + *44-2-48, 46-2-51
 De Loss.....#9-1-3
 Ronald G.....#40-3-9
Mason, Dan.....#46-2-55
Mason, James I.....#40-2-63
Massie, Walter.....3-2-13, R14-22
Massole, Joseph.....44-1-43
Matejka, Frank.....7-3-1, #21-4-15, 22-1-4
Mateo, Louis.....31-2-24
Mathews, R. H. G.3-2-5, 8-2-16, 16-4-16, *18-1-7, #23-4-9
Mathieu, Paul A.....45-3-42
Matlack, Rex.....#46-3-57
Matsushita, Konosuke.....#30-2-42
Mauborgne, Joseph O.#12-2-21, *30-3-19, R15-30
Maxim, Hiram P.....1-4-3, 25-4-22
 "An evening at 1AW".....31-1-20
Maxwell, James Clerk..2-2-4, 12-4-7, 39-36
Maxwell, James A.....#44-3-23, 44-4-52
May, Earl.....@R15-133
Maylott, Carleton.....#34-3-62
McArthur, E. D.....R9-185
McCaa, Dr.....9-1-15
McCandless, Henry W.....31-1-13
McCarthy, Gerald E.....#44-1-19
McCarty, Ignatius.....13-3-16, 13-4-23
McCarty, Bob.....#31-1-6
McConaghy, Harry.....#22-3-35
McCormac, Bob.....#10-4-23
McCoy, Daniel.....R6-124, #6-3-3
McCoy, Lewis G.....#42-1-39
McCullough, Frederick S.....*R15-154
McCullough, Jack.....32-4-14, #42-3-24
McDonald, D. H.....#44-2-72
McElroy, Theodore R.#4-4-6, 22-2-30, 33-3-52, 33-4-49
McElveen, H. Moody.....#39-55
McEwen, Neal.....44-1-67
McGannon, Donald.....#25-3-13
McGee, Norman.....#26-2-34
McGraw, Robert V.....#43-3-32
McIntosh, Kenneth L.....43-1-62
McKee, William J.....#31-2-33
McKenzie, Alex.....31-4-47, #39-3-60
McKenzie, David T.....#36-3-50
McKim, James E.....#38-1-66
McKinnon, Jim.....#42-2-41
McLean, Donald F.....42-1-53
McLean, Sir Francis.....#40-1-60
McLean, Noel B.....#25-3-3
McLendon, Gordon B.....#27-4-42
McLeod, George R.....#32-3-39
McMahon, Morgan.....17-4-42
McNamara, F. T.....R9-194
McNamee, Graham.....11-1-13
McPherson, Murdoch.....#28-4-45
McQuillan, John.....#25-3-3
Mehlhouse, Harvey G.....#40-2-60
Mendelsohn, Alex.....42-4-7
Mennie, John.....#46-4-32
Mershon, Ralph.....35-1-51
Merson, Stuart.....#42-2-41
Mertz, Pierre.....#23-4-4
Merz, Dan.....46-2-54
Meucci, Antonio.....13-1-26
Meulstee, Louis.....R8-45
Meyer, Stuart.....#35-4-59
Meyers, Joseph.....#38-2-19
Meyers, Ray.....#26-1-7
Michaels, Charles.....#39-4-56
Middleton, David.....3-1-8
Middleton, Robert G.....#35-2-69
Miessner, Benjamin6-1-9, #17-1-36, 17-3-32, R9-206
Mignon, Ernest.....6-4-9, *R18-112
Milan, George.....#37-4-9
Miller, Frank C.....13-3-12
Miller, Joseph Wm.....#42-1-67
Mints, Aleksandr.....#15-4-24
Mintz, Herbie.....13-1-23
Mitchell, Everett G.....#31-4-36
Mix, Don7-2-5, 9-1-4, 10-1-1, #14-3-19, 15-1-12
Mix, Jennie Irene.....36-3-57
Molinari, Bart.....#32-4-20
Molt, Hillis.....#40-4-59
Montgomery, Luke H.....#40-2-60
Moreau, Lou2-3-3, 3-4-1, 7-3-6, 15-4-19, #*35-3-57, R3-119, R4-83, R6-154
Moreau, Bill.....3-4-1, #10-1-17
Morey, Dan.....#37-4-9
Morey, Don R.....#39-1-48
Morgan, Alfred P.....10-3-14, #13-1-24
Morgan, Donald G.....#38-4-26
Morita, Akio.....#41-2-61
Morris, Robert M29-4-39, 31-3-6, 31-4-47, #39-1-48, #39-1-51, 40-3-62, 50Y-48, R3-60
Morse, Carleton.....#35-2-69
Morse, Garlan.....#26-2-34
Morton, Robert.....3-1-11
Mosher, Horton.....#10-4-23
Moskey, Joseph.....#31-2-46
Mosley, Sydney.....42-1-33
Moseley, Tomlinson I.....#38-3-56
Mott, Sir Nevill.....#37-4-59
Muchow, Ralph.....@41-2-42, 41-2-54
Mullaney, John.....36-1-38
Mullaney, Walter.....#17-4-47
Mullard, Stanley R..6-1-7, 9-4-11, #20-4-11
Mullen, Joe.....5-2-5, #8-2-17
Mullin, John T.....#40-4-59
Mundy, Everett I.....*44-4-52
Muntz, Earl.....#28-3-42
Murgas, Joseph16-3-8, @30-2-9, 30-3-21, @38-4-40
Murphy, Adrian.....#25-3-13
Murphy, Jesse.....31-1-10
Murray, Raymond W.....#41-3-66
Murray, Robert P.R13-37, R14-148, *R17-143, 46-2-54, 46-3-13
Musgrave, A. W.....#12-3-23
Myers, Elman9-4-13, 10-2-12, 10-4-2, 10-2-12, 11-1-5, #14-2-23
Myers, John.....#35-4-52
Nadel, Louis.....#17-2-32
Nafzger, H. J.....#13-3-9, 14-1-13
Nagle, John.....#31-3-5
Nakajima, Shigeru.....R9-113
Nash, Fenton.....#38-1-66
Neal, Harold L.....#21-1-5
Neben, Harry M.....#38-1-53
Neiman, Walter.....#24-3-18
Nelson
 Henry D.....15-3-27
 Jack C.....37-1-59
 Wayne.....2-1-1, #17-3-32
Neumann, Georg.....#17-3-32
Nevel, Charles.....#43-2-74, #43-3-32
Newton, Frank Q.....#46-2-55
Newton, Howard F.....39-4-61
Nichols, Frank A.....#30-2-3
Nicholson, Alexander M.....R15-153
Nipkow, Paul.....*17-4-14
Nole, Len.....#35-1-59
Nolte, Henry J.....#19-1-35
Northrup, Dr. E. F.....7-3-19, 7-4-20
Norwood, C. Wilson.....#35-2-69
Nottage, Don R.....#46-3-57
Noyce, Robert.....#31-2-46
O'Brien, Beatrix.....#17-3-3
Ogden, Clarence E.....R13-134

Ohm, Georg Simon 6-4-16
Okabe, Kinjiro.....R9-113, *R9-188
Oldendorf, Art.....#31-3-5
Oliphant, Mark.....R9-199
Oliver, Benjamin.....#37-4-64
Oliver, Bernard M.....#37-1-58
Olmstead, Elise.....33-1-3
Olsen, George.....#12-1-11
Olson, HankR8-107, R10-220, #37-2-46, 41-2-56
Opperman, David.....#15-2-27
Orr, Bill.....R8-107, #42-2-41
Owen, Frank R.....#43-2-74
Owens, D. K.39-3-54, 41-1-65, 43-2-48, 44-3-67, 46-1-46
Owlett, Chet.....#12-4-21
Pack, George.....#43-1-51
Pack, Richard Morris.....#40-4-59
Packard, David.....#37-3-53
Page, Esterly.....#26-1-7
Paley, William.....#31-4-36
Palmer, Robert.....#35-1-59
Pannepacker, Harold J.....#37-1-58
Paquette, Bob.....R4-156, 41-2-21, 46-1-28
Paris, Demetrius.....#40-2-60
Parker, C. Orval.....#40-4-70
Parker, William N.....#38-2-64, #38-4-57
Parkhurst, Austin.....4-3-9, 5-1-11, #6-2-5
Parkin, G. Kathleen.....#31-4-36
Parks, Dick39-3-55, 42-2-59, 45-2-43, 46-1-46, 46-4-54
Parry, Keith.....#26-3-3
Parsons, Fred.....#9-4-4
Patt, John.....#13-1-23
Patterson, Rev.....9-4-8
Paul, Floyd.....39-4-60, R4-98, R10-260
Paulsen, Charles.....#31-1-37
Pavek, Joseph.....#30-2-3
Peckham
 David.....18-4-23
 Joyce.....#46-1-5, #46-2-55, #46-2-58
 Lauren.....R3-97
Pellnat, Allan.....45-4-67, R18-136
Penard, Fred.....#24-2-15
Pennypacker, Miles.....#40-1-59
Perkins, Harley.....36-1-33
Perrotti, Peter.....#42-1-67
Perry
 Dave.....#10-2-17
 Robert W...40-2-63, #45-4-11, #45-4-46
 Stewart.....#31-2-6
Peterson
 Charles Jr.....39-4
 Charles Sr.2-1-4, 8-4-3, #13-4-20, 32-2-56
 Norman J.#.....46-3-57
 Philip B.....41-3-66
Petritz, Richard.....#44-4-43
de Pew, Reo.....#31-1-5
Pfeifer, Clarence.....#17-1-36
Phelan, Tom.....#16-1-32
Phelps, George M.....*40-2-21 + @40-3-41
Phillips, Brad.....#34-4-63
Phillips, Bud.....#31-4-7
Phillips, Vance.....#21-4-15, 27-1-4
Pichler, Franz.....43-4-12
Pickard, Greenleaf W.8-4-5, 11-2-22, 13-3-29, 13-4-6
Pickerill, Elmo3-3-5, *6-2-8, *8-2-18, #8-4-12, 14-3-2, 14-1-4, 35-3-63
Pierce, George.....3-2-16
Pierce, John Robinson.....#43-3-71
Pipe, Gordon E.....36-4-33
Pletman, Abraham.....#14-3-26
Pohlig, Edward F.....#39-17
Polhemus, Marlan.....*26-1-8
Polkinghorn, Frank.....#28-3-42
Poor, John B.....#37-1-58
Pope, Franklin L.....41-3-45, @41-4-48
Popov, Alexander S.2-3-15, 8-1-9, @41-1-1
Poppele, Jack.....#27-4-42
Posthumus, K.....R9-196
Potter, Orville L.....#44-1-19
Poulsen, Valdemar 9-4-17, 30-3-36, *R10-93
Powley, Allan.....#14-3-26
Pratt, Haraden.....#10-3-7
Prestholdt, Ogden.....#44-3-23
Preston, Herbert "Ed".....#37-3-9
Pridham, Edwin.....2-4-9, #4-1-9, *39-42
Prieto, Teodoro.....40-4-60
Pulhamus, William R.....42-3-61
Pupin, Michael.....27-2-38
Patent listing.....@R6-155
Pyle, Howard.....2-2-1, 6-2-10, #13-4-20
Quinn, C. E.....*36-3-60
Rajchman, Jan.....#30-2-42
Raide, Bob.....40-3-63, 46-1-61, 46-2-54
Rand, Philip S.....#37-3-53
Randall, John T.....R9-155, R9-199
Randles, Wesley C.....#45-4-46
Ransley, Richard.....46-1-47
Rapp, Ray.....#13-4-20
Raser, Ed.....15-1-25, #26-3-4
Rasmussen, Erv.....2-3-11, #24-4-3
Rauland, E. N.....#16-1-32, *33-1-19
Ray, Garo.....#33-1-39
Ray, William B.....#35-4-59
Raymond, Dana.....#45-1-44
Raynor, Richard.....#38-3-21
Reber, Grote2-2-5, 4-1-1, 5-2-12, 7-1-5, 8-3-3, 10-3-15, 17-4-2, 26-3-4, 29-4-39, 30-1-29, #44-1-19, 44-2-6
Reddig, James.....#35-1-59
Redington, Ed 5-1-4, 9-3-15, 9-10, #20-4-11
Redwood, Raymond P.....#39-17
Reed, B. Mitchell.....46-3-52
Reeves, Hazard.....#28-1-43
Reichelderfer, Francis.....#24-1-10
Reid, John.....#15-2-27
Reiher, W. L.....#40-2-60
Reinartz, John#5-3-12, 38-2-68 (pic), 38-3-5
Reine, Forest O.....#42-3-61
Reinhardt, Goyn B.....41-2-54
Reinke, Roger W.....39-4-59
Rennie, Cyril.....#17-2-32
Reumann, William.....#26-3-17
Reuter, Paul.....#15-4-24
Reynolds, Benjamin.....9-11
Rhodes, Richard A.....#44-4-52
Rice, Johnathon C.....#42-4-62
Richardson, Ken...8-3-1, 12-1-22, #20-4-11
Ridderhof, David M.....#41-3-66
Riddell, James G.....#42-3-57
Rider, John F.....#26-1-7, *R16-135
Patent listing.....@R6-155
Riggs, Glenn.....#16-3-31
Ring, Andrew.....#16-4-36
Rizoli, Louis.....#13-3-9
Roberts
 "Bob".....#17-4-43
 Brymer.....#17-3-32
Louis W.....37-1-58
Robison, Samuel.....9-4-3, 10-1-13
Robinson, Harris A.....#30-4-6
Rockwell, James.....#18-2-7
Rockwell, R. J.....41-4-45
Roddy, Francis J.....#42-1-67
Rodiman, Clark.....#23-2-3
Rodrigues, Chuck.....6-3-4
Roder, Hans.....10-2-18
Rogers
 Edward S. "Ted"16-4-28, @R15-147, 46-3-53
 George.....#5-1-7
 Glen.....#38-1-66
 J. Harris.....11-2-16, *12-2-24
 Walt.....#15-3-27
Rohrbeck, John.....#43-3-71
Rollins, John F....39-4-60, 43-4-12, 46-1-47
Rose, Albert.....#31-3-30
Rose, George M.....#25-3-13, *39-3-26
Rosing, Boris.....@41-3-24, 45-4-51
Ross, Joel P.....39-9
Rossman, Peter.....#13-4-20
Rowe, A. P.....*R9-115
Rowe, Dana A.....#43-3-32
Roy, Rob.....6-2-1, #12-3-23
Round, Capt. Henry J.....#7-3-19
Ruben, Samuel.....#29-4-40
Rumpf, Robert L.....#40-2-63
Runyon, Carman.....#14-3-26
Ruske, Roy.....#7-4-5
Ruth, Babe.....11-1-13
Rutherford, Ernest.....12-1-11
Rutherford, Andy.....#16-1-32
Ryan, Byron F.....#31-3-30
Rybak, James P.39-3-55, 41-1-65, 41-3-60, 42-1-54, 42-3-59, 43-1-51, 43-4-13, 44-4-63, 45-4-67, 46-2-55
Ryder, Loren.....26-3-34
Ryle, Martin.....#25-4-29
Sabelli, Cesare.....#25-3-3
Sackerman, Charles.....#31-2-46
Sadenwater, Harry.....#12-4-9
Saftler, Perry.....#27-2-6
Sagall, Solomon.....#43-1-55
Salant, Richard.....#35-1-59
Samuel, Arthur L.#31-4-36, R9-155, *R9-190
Sanabria, U. A.....@38-4-34, 39-1-11
Sandell, Egon.....#38-3-21
Sanders, Ed.....#28-4-45
Santoro, Abel.....40-4-57
Sarnoff, David4-2-8, 7-1-18, 7-3-9, 9-1-13, 10-2-4, 10-4-4, #12-4-19, 13-2-27, R9-70
Sarnoff, Lizette.....#14-4-27
Sarnoff, Robert.....#38-2-64
Schairer, Otto S.....#17-1-36
Schawlow, Arthur L.....#40-1-60
Schechter, Abel.....#30-3-45
Schelkunoff, Sergei.....#33-4-53
Schneider, John F.....R5-142
Schor, Ferdinand W.....#41-2-61
Schradler, Howard#20-1-3, *36-4-60, 37-1-59
Schroeder, Joe.....38-2-5
Schroeder, Peter.....#32-3-19
Schultz, Daniel.....#27-4-42
Schwark, Chuck.....39-4-61, 46-1-47
Schwesinger, Wm. Lee.....#37-3-54
Schwind, Anthony J.....#31-1-6
Scott, E. H.....7-1-12, @R11-7
Scott, Hermon H.....#16-2-32

Scott-Taggart, John.....#20-3-5, *35-4-8
 Seatsma, Charles (pic).....*38-3-1
 Secondari, Dick and Elliott.....R15-53
 Secor, Harry.....#14-3-26
 Seefred, Howard.....2-1-2, #5-4-10, R15-11
 Segal, Paul.....#9-1-3
 Shafer, Andy.....#17-4-43
 Shaffer, Wayne.....R13-132
 Shannon, Claude P.....#42-3-57
 Shapp, Milton Jerrold.....36-1-39
 Sharp, John.....46-3-53
 Shaw, Bruno.....#25-3-13
 Shea, Richard F.....#39-1-52
 Shepherd, Jean.....#41-1-56
 Sherman, Lloyd.....#38-1-66
 Shively, Edward.....#34-4-63
 Shockley, William.....#30-3-45
 Shoemaker, Harry.....11-4-12, R14-27
 Shunaman, Fred.....#32-2-5
 Shure, Stanley N.....#37-1-59
 Sibley, LudwellR3-47, R4-130, R7-65, R8-73,
 R18-64, 40-2-63, 41-2-5, 41-3-60, 46-1-47
 Sienkewicz, Alexander H.....39-4-61
 Silger, Earle M.....#44-2-72
 Silver, McMurdo..17-3-20, *35-1-26, 35-2-21
 Simon, Emil J.....4-3-2
 Simpson, Joseph J.....#3-2-4
 Simpson, Ray.....#19-23
 Sinatra, Frank.....45-2-23
 Sinclair, Donald.....#26-4-41
 Singer, Charles.....#13-1-23
 Siragusa, Ross.....#37-3-54
 Sivowitch, Elliot.....2-2-13, 3-4-38
 Sleeper, Milton B.....#4-1-9
 Sloat, Francis Walter.....#40-3-9
 Smartt, Walter H.....41-3-62
 Smith
 Al.....45-2-5
 Carl E.....#39-3-61
 Carleton.....#25-3-13
 Charles G.....#10-3-7
 David.....#38-2-19
 David B.....#34-2-58
 David Frederick.....17-3-32
 Dick.....#5-1-7
 Emmett A.....#40-2-63
 Ethel.....#38-3-56
 Frank.....#13-3-9
 Irving.....#17-2-32
 J. (James) E.....#14-3-19
 Julian Sinclair.....#35-1-59
 May Lillian.....*39-3-32
 Philip.....#28-4-45
 Ross A.....#41-4-38, *42-1-55
 Theodore K.....#35-4-59
 Smythe, Reid.....#30-2-3
 Snell, Herbert E.....#40-4-70
 Snyder, Sherwood.....9-7
 Snyder, Wilbert E.....41-3-66
 Soifer, Ray.....44-2-63
 Solomon, Aaron.....#43-2-74
 Sommer, Alfred.....#45-4-64
 Sommerville, Jim.....#11-3-12
 Sonderling, Egmont.....#39-1-52
 Spencer
 Neil.....#40-1-62
 Percy.....#11-3-12
 Sir Thomas.....#17-2-32
 Sprague, Robert.....#33-1-39
 Stafford
 C. Friend.....#38-1-66
 Lenford A.....#39-17
 Leo. S.....#37-3-54
 Stanton, Walter.....#42-3-57
 Stanwyck, Edmund.....#30-4-44
 Starry, George.....#16-4-36
 Steed, Wick.....#18-4-31
 Stein, Adam.....31-1-10
 Stein, Fred.....#14-1-13
 Stecker, Kenneth.....#29-4-41
 Steinmetz, Charles P.....37-4-16
 Stephany, Joe.....42-2-59, 42-2-63
 Stephenson, Parks E.42-4-7, 43-1-51, R15-
 125
 Sterling, George E.5-3-10, 7-2-1, 9-3-4, 9-3-
 13, 12-2-8, #31-4-7, R2-132, R5-107
 Sterman, Terry J.....#40-1-61
 Stern, Bill.....#13-1-23
 Stewart, Fin.....R6-133
 Stockellburg, Art.....2-2-1, #6-4-17
 Stockham, Thomas G.....#45-4-64
 Stokes, John.....#40-4-59
 Stokes, William.....#36-3-50
 Stolze, Wm. J.....46-1-9
 St'lze, Gunta.....R16-192
 Stone
 Elery W.....#22-3-35
 J. McWilliams.....#11-2-21
 John Stone11-2-10, 17-1-2, @22-2-8, R1-
 41
 Patent listing.....@R6-155
 Stookey, Charlie.....42-3-32
 Storer, George B.....#16-4-36
 Story, "Doc".....8-4-17
 Strauss, John Francis.....#43-2-74
 Streibert, Theodore.....#28-1-42
 Striglia, Nicholas.....#25-3-13
 Strom, Leland D.....#39-1-52
 Stromswold, Stanley A.....39-3-70
 Stubblefield, Nathan5-2-4, 5-3-9, 8-2-2, 17-2-6,
 *38-2-1, @38-2-32, *R10-86
 Patent listing.....@R6-155
 Stutman, Peter W.....44-3-54
 Suffield, Frederick W.31-1-20, 32-1-20, #41-4-
 38
 Swart, Harold.....#9-4-4
 Swinburn, James.....*R13-57
 Swynar, Edward P.42-3-59, 43-1-51, 43-2-48,
 46-1-61
 Swope, Henrietta.....#21-4-4
 Sypher, Peter.....39-4-58, 41-4-65
 Taishoff, Sol.....#23-4-4
 Tandy, Charles.....#19-4-35
 Tarzian, Mary.....#39-4-57
 Taylor, A. Hoyt.....9-1-16, 20-4-21, R9-100
 Taylor, John Pratt.....#25-3-13, *29-1-37
 Tellefson, E. M.....3-2-13
 Taynton, William.....#7-4-23
 Terman, Frederick E.....#23-4-9, 24-1-10
 Terrell, William D.....#6-1-7
 Tesla, Nikola2-3-3, 3-3-8, 4-1-6, 6-2-7, 6-4-
 16, 8-1-8, 8-3-12, *9-18, 9-3-5, 9-4-1, 9-4-
 16, 9-4-23, 10-3-12, 11-2-3, 11-4-19, 12-4-
 18, 13-2-5, R9-205, 41-2-7, 41-3-7, 41-4-6,
 *42-1-4, 42-2-6
 More than big sparks.....*27-3-37
 and the RF alternator.....26-3-36
 World system of wireless*40-1-28 + 40-2-28
 Thackeray, Desmond.....R7-44, #45-4-46
 Thaler, Wm. J.....R9-178
 Theremin, Leon.....8-1-11, 10-2-5, #35-1-59
 Thetreau, "Tate".....11-2-2, #13-3-9
 Thisse, Fran H.....#42-1-67
 Thomas
 Earl.....#9-1-3
 Lowell.....#22-3-35
 Ralph.....#37-3-9, 37-3-50
 Ronald44-2-63, 44-3-69, 45-1-65, 46-3-13,
 46-4-54
 Thompson, Eunice4-4-2, 5-4-11, #23-1-12, 23-
 3-4
 Thompson, Lincoln.....#34-4-63
 Thompson, Ralph.....#30-2-3
 Thomson
 Elihu.....7-1-8, 7-2-13, 19-4-6
 Sir Joseph.....7-2-13
 Sir William.....7-1-8
 Tilton, Edward P.....#38-3-56
 Tipton, Bill.....41-4-69
 Timmons, J. S.....*23-2-18, #34-2-58
 Tipple, Esther Watson.....#17-1-14
 Tissot, Thomas.....#39-4-57
 Tizard, Henry.....R9-157, R9-181
 Torrisi, Samuel S.....R15-153
 Touch, A. Gerald.....R9-152
 Towers, Natalie.....45-3-16, *45-4-15
 Townsend, George.....#35-1-59
 Trammell, Niles.....#14-1-13
 Trauffer, Art.....#20-4-11
 Travis, Irven.....#27-4-42
 Triggs, Lawrence.....#19-3-4
 Trischan, Glenn.....R14-177
 Trotter, John Scott.....#16-4-36
 Trout, Robert.....#42-1-39
 Trump, John.....#26-1-7
 Tuggle, Mike.....44-4-63
 Turner, George.....#30-1-44
 Tuska, Clarence5-3-4, 7-3-4, 9-4-13, 14-1-3,
 #26-2-28
 Tuve, Merle.....#27-2-6
 Twain, Mark.....14-4-22
 Tykociner, Joseph.....#10-2-4
 Tyne, Gerald F. J.6-2-1, 6-3-16, 7-3-5, 11-3-
 23, 15-1-18, #22-2-15, R8-54
 Tyne, Gertrude H.....#39-1-52, 50Y-22
 Ulasewicz, Joseph P.....#42-3-58
 Uncapher, Keith.....#44-1-56
 Upton, Lane S.....42-1-54
 Vail, Theodore N.....R11-144
 Valli, June.....#35-1-59
 Vanicek, Jerry.....R7-117, R8-111
 van der Bijl, H. J.....@30-2-34, R11-146
 van Donselaar, Rien.....#26-3-17
 Van Horn, J. C.....R2-133
 Vermeulen, Dirk J.....*R11-149
 Vermilya, Irving.....#5-1-5, 6-3-8
 Vernon, Albert.....5-4-13
 Victoreen, John.....#27-3-41
 Villard, Oswald "Mike".....#45-2-6, #45-2-62
 Vogt, Hans.....44-1-43
 Volta, Alessandro.....25-2-16
 Voltaggio, Frank.....#32-1-33
 von Ardenne, Manfred*29-4-27, 30-2-37, #38-
 3-56
 von Siemens, Herman.....#27-2-42
 Vonderschmitt, Bernard V.....#45-4-64
 Vreeland, Frederick K.....35-2-21
 Vyvyan, R. N.....R9-30
 Wade, Frederick L.....#37-2-59

Wagener, Winfield G.....	#37-3-54	Weldon, James.....	#34-4-63	Winkler, Catherine.....	35-2-32
Waite, Amory "Bud"15-1-9, 15-1-12, #26-1-7		Wells, Fay Gillis.....	#44-2-55, 44-3-5	Winslow, Charles H., Jr.....	#41-3-66
Wakefield, William H.....	#29-4-41	Wenaas, Eric P.....	*R18-47	Woese, Carl Frank.....	#35-1-59
Waldo, Ray.....	#38-2-19	Wendt, Karl Rinner.....	#39-3-61	Wolfe, Benjamin.....	#39-56
Walker, A. Prose.....	#44-2-52	Wentworth, Brandon.....	*35-4-17	Wolff, Jean-Bernard.....	#37-3-54
Wallace, Alex.....	#2-4-9	Wentzel, A. G.....	2-4-8	Wood, Robert.....	27-2-6, #27-3-41
Wallace, Don.....	5-4-14, #26-2-34, 32-3-47	Wescott, Herb.....	#12-3-23	Wruck, Robert F.....	#42-2-41
Wallin, Hyman.....	#29-3-40	Weston, Edward5-3-12, #12-3-11, @16-4-29		Wunderlich, Norman.....	#14-3-19
Wallington, Jimmy.....	#13-4-20	Weston, R.....	#16-4-36	Yagi, Hidetsugu.....	#16-4-4, R9-187
Walsh, James C.....	46-1-9	Wetmore, George.....	#15-4-24	Yagi, Taroh.....	23-2-9
Walson, John.....	#35-1-59	Wheeler, Harold.....	#37-4-64	Yeandle, Ralph.....	2-4-1, #20-4-3
Wang, An.....	#31-2-46	Wheeler, Howard E.....	#19-1-35	Young	
Warder, George E.....	#45-4-47	Whipple, Richard.....	35-2-32	Bud.....	#31-4-7
Ware, Lawrence.....	*R11-234	Whitacre, Hogn W.....	39-4-61	Charles.....	23-3-13, #25-3-13
Ware, Paul.....	#12-1-11	White, William.....	#6-1-7, 13-2-5	Charles A.....	#41-4-38
Warren, Claire.....	#13-4-20	Whittinghill, Dick.....	#42-2-53	Clarence.....	#40-4-70
Watanabe, Koji.....	41-2-56	Wiepert, Robert J.....	R6-36	Joel J.....	#38-4-26, 39-1-12
Waterman, Herbert C.....	#38-1-66	Wiepert, Tina J.....	R6-36	Kenneth W.....	#46-4-23
Watson, Esther.....	#17-1-14	Wildman, Tom.....	#8-3-6	Leo.....	R9-101
Watson, Paul.....	#6-4-17	Wilkins, "Skip".....	*R9-115	Owen D.....	#3-3-5
Watson-Watt, Sir Robert..#14-4-27, *R9-115		Willenborg, Richard L.....	#35-1-59	Stuart.....	#27-4-42
Wavering, Elmer H.....	#40-1-59	Willer, Murray.....	R3-119, #45-4-47	Yunatsunagi, Jun.....	39-4-26
Weagant, Roy.....	14-4-26	Willett, Charles.....	#28-2-32	Yung, Charles.....	#12-1-11
Weaver, Sylvester "Pat".....	#43-3-72	Williams		Zacek, August.....	R9-187
Webb, John G.....	31-1-35	Charles, Jr.....	*39-48	Zacharias, Jerrold.....	27-3-41
Weber, Walt.....	#10-3-7	Earl.....	2-3-2, #5-4-10	Zandonini, Elizabeth.....	#30-1-5
Webster, Edward M.....	#17-3-32	Ralph31-1-35, 37-3-5, R3-33, R10-77, R12-320, #43-3-32, @43-3-45		Zenker, Rudolph.....	#37-4-9
Weeks, Paul.....	#31-4-36	Williamson, John F.....	#43-2-66, #43-2-74	Zenneck, Jonathan.....	20-2-4
Wehnelt, Arthur.....	@23-3-19	Willmot, William.....	29-3-41	Zimmerman, Arthur F.....	43-3-20
Weidner, Sam.....	#12-2-21	Wilson, Paul M.....	#41-2-61	Zunner, Irwin W.....	*42-4-70
Weingarten, Phil.....	39-3-70	Wilson, Woodrow.....	11-4-21, 13-4-24	Zworykin, Vladimir.....	5-1-12, #23-3-4
Weinstock, Arnold.....	#43-4-53	Wimperis, H. E.....	R9-119	Patent listing.....	@R5-143
Weir, "Col." Irvin.....	2-4-1, 5-3-10	Wincey, Christopher R.....	#43-2-74	Role in TV development@45-4-51	+ @46-2-45
Weiss, Vern Aubert.....	#40-3-9	Wingard, Franklin.....	#18-1-3		
Weisz, William J.....	#39-55				

ELECTRONIC THEORY

Antennas, LF.....	@41-2-22	Neutralization, working of.....	*41-4-34	Tuned circuits, double.....	46-1-56
Antenna, rcvg loop.....	@44-3-55	Oscillators, theory.....	@45-2-27	Tuned circuits, theory.@43-3-63 + *43-4-66	
Antenna, rcvg loop, unilateral.....	@44-4-59	Power-line carrier comm.*45-1-53 + *45-2-44		Unit of capacitance, jar.....	7-2-18, 13-1-25
Bias, basics of.....	*39-4-43	Radio noise, natural sources*46-1-57 + *46-2-29		Units of measure, understanding obsolete*42-4-54	
Decremeter.....@43-4-66 + @44-1-63, 44-2-8		Regen controls, summary.....	*23-3-31	Volume-control types, summary.....	25-3-30
Extra-low-freq. comm.....	@46-4-40	Regenerative receiver, adjusting (R)*36-4-39			
Navigation systems, VLF-MF@45-3-38 + *45-4-20		Spectrum conservation.....	*45-1-22		

HISTORIES - MANUFACTURERS AND DISTRIBUTORS

(For speaker makers, also see "Parts - Headsets . . .")

GENERAL		Smaller British.....	@40-1-12	Time-capsule opening, 1996.....	*38-1-26
Corporate reorganizations, 1929.....	@10-2-19	SPECIFIC FIRMS		AMRAD.....	5-3-5
Japanese consumer-electronics industry*16-4-26		Adams-Morgan...10-4-24, @23-4-6, @24-1-6		AMSCO.....	*26-2-8
Ohio, 1920s radio industry.....	@43-2-25	Allen-Bradley.....	*18-2-4	Automatic Electrical Dev. Co.....	R17-33
Patent pool, AT&T-GE-RCA-Westinghouse14-3-16		Allied Radio Corp.11-2-10, 11-3-23, 15-4-24		Baldwin/Utah.....	9-7
Rochester, NY, local makers and distributors @R18-101		Amalgamated Wireless Australasia *8-2-13, 14-1-31, @R6-128		Barker & Williamson.....	R2-127
Spark keys, all known mfgrs.....	*R14-82	American Lava Corp. (ALCO, AISiMag)@41-3-48		Belden.....	*18-3-18
Speaker makers, first 12.....	*36-4-24	Arcturus.....	*10-1-22	Bell Tel. Labs.....	9-1-7, 16-1-32, *31-3-15
Stock performance, 1929...10-3-23, *16-3-28		Arnold, J. F.....	Mono. 1	Benwood.....	1-4-11, *13-4-20
Telegraph and electrical gear, early makers (R).....	*46-4-64	Atwater Kent@7-3-15, 7-4-3, 9-1-19, @R2-123		Bliley Electric Co., early years (1930-55) Mono.	
Tube makers/brands		Early radio dev.....	@R1-83, @R12-9	Boudette Mfg. Co.....	*44-2-24
1926 - List.....	*6-1-19	Marketing strategy.....	@R10-7	British De Forest Syndicate.....	R13-39
Australia.....	@R6-125	Metal and mahogany boxes @R2-71, @R12-84		British Radio T&T Co. vs. Marconi@R13-39	
British.....	*15-1-26	AC-powered radios.....	@R3-6, @R12-140	Browning-Drake.....	8-3-10
		Sets "that never were".....	@38-1-19	Brunswick Radio.....	11-4-26
				Bunnell companies.....	*43-1-42
				Bunnell, and "Bug" trademark.....	*45-1-50

Burlingame Telegraphing Typewriter Co. R14-37

Bush & Lane 36-3-42, 36-4-50, 37-1-20, 37-2-21, 37-3-33

Canadian GE, and relation to Can. Marconi R14-127

Canadian Ind. Tel. Co. @R15-149

Canadian Marconi Co., first 30 years @R14-92

Canadian Radio Co. R15-155

Cardwell Condenser Corp. @22-3-9

Caton Telegraph Inst. Shop. @42-4-43

CeCo. *21-3-12, 22-3-24

Cel-Met Products Co. *R8-105

Century Electric Co. @R8-67

Chambers, Frank B. *R2-121

Chicago Tel. Supply (CTS) *36-1-7, *39-1-21

Clapp-Eastham 4-2-5, @20-2-6

Collins Radio Co. 2-2-3, 14-4-21, *R7-154, @R10-222, 39-1-33

Colonial Radio Corp. *19-4, R18-114

Columbia Radio Co. R13-131

Connecticut Tel. & Electric 36-1-7

Continental Electronics 9-3-4, 14-1-26, 17-2-10

Cossor *40-1-12

Coto-Coil Co. 5-1-12, 9-1-6, 9-4-2, 10-1-20

Crosley Corp. 7-4-14, 7-4-24, 8-3-5, 8-4-3, 9-4-17, 10-2-18, 16-2-29, 16-4-28, 17-1-35, 17-3-20, @34-1-17, @R16-10

Modern, overblown "firsts". 37-4-28

CTS-Frost *12-4-22

Cutting and Washington @22-4-6

Dalmo-Victor Co. 38-3-56

Day-Fan 17-1-35, *20-1-20

De Forest

GE considers buying @R6-13

Radio Co. 9-19, 11-2-20, 17-4-12

Radio Telephone Co. R9-206

"RJ-4 mystery, the" Mono. 1

Doolittle Radio Corp. R13-125

Doron Bros. 12-1-17

Drake, R. L. Co. 21-2-5

Duck, Wm. B., Co. 6-3-2, *9-4, 12-2-5

Ducretet, early 41-1-28

Eitel-McCullough @12-3-20

Electro Importing Co. *22-2-11, *35-1-13

Elektrit Radio Eng. Co. (Vilnius) *34-4-30

Emerson Radio and Phono. Co. 8-2-20

Federal Telegraph Co. 3-2-1, 5-1-10, 20-3-14, @R7-119, @R8-75

1909-20. Mono. 3

Federal Tel. & Tel. Co. 5-1-10 (& 33-2-9), *30-1-22

As Telephone Maker @R8-67

Fernseh AG 44-1-7

Ferranti 10-4-8

Freed-Eisemann 10-3-3, 10-3-7

Frost (CTS) 12-4-22

G & R Valve Co. @35-3-42

Garod Radio Co. 13-1-2

General Electric 7-4-14, 13-4-26

Bdcst set mfr. pre-1929 @R17-107

Early tube R & D at @R4-6

Studies buying De Forest @R6-13

Supplying tubes, sets, and people to RCA @R5-1

General Radio Co. 2-2-3, *37-2-50

General Radio Corp. 33-3-21

Gilbert, A. C., Co. 3-1-2

Giffillan Bros., Inc. 11-2-9, 25-3-15, @26-4-10, @27-1-10, @R10-245

Grant, W. W. @33-3-16

Graybar Electric Co. 11-2-20, 17-2-14

Grebe @3-4-9 (& @33-2-14), 9-4-4, 11-4-26, *14-1-28

Grigsby-Grunow 28-3-9

Haig & Haig Mfg. Corp. *R18-121

Haldorson Co. 18-1-13

Hallcrafters 4-3-6, 8-4-16, 12-4-20, 16-4-7, *39-4-52, 40-2-19, 40-2-19

Hallock & Watson R13-142

Hammarlund *9-3-22, @R2-95

Hammond Research Co. 2-1-2

Haynes *28-4-19

Hazeltine 11-4-26, 12-2-8, 15-3-23, 20-3-18

Neutrodyne Licenses 20-1-31

Heath Co. *10-4-6

Heintz & Kaufman *R7-154, @R10-188

Hewlett-Packard *37-2-50

Hickson Electric Co. R18-104

Hoag, Y. M. Mfg. Co. *19-3-10

Holtzer-Cabot 12-3-25

Howard Radio Co. 6-1-3, 6-2-6, *39-4-52, 40-2-19, 41-3-8

IGRAD R18-123

International Radio Tel. Co. *11-3-24

Jenkins Television Corp. *17-2-30

Jewell Instrument Co. 9-14

Johnson Service Co. *R14-156

Kellogg Swbd. & Supply Co., in radio R13-138

Kendrick and Davis *R10-20

Kester Solder Co. *21-3-19

Kilbourne and Clark 2-1-7, 8-4-3, 9-1-3, 21-1-11, R14-39

King Manufacturing Co. 19-2-4

Kipp, H. M. Co. @35-4-10

Kodel Radio Corp. R13-135, @R17-31

Kolster Radio Co. 6-1-9, 10-3-23, *11-1-20, *36-1-23

Leach Relay Co. R14-67

Leake, R. C. R18-115

Leotone Radio Co. 7-1-16

Leutz 3-4-5, *4-1-11, 9-1-20

Loewe Radio *21-2-16

Lowenstein Radio Co. R908

Magnavox 11-3-2, 16-3-7, @23-1-6, 26-3-33, *39-42

Marconi (American) @13-1-11, @R9-62

Sewing-machine maker 17-4-42

Marconi (British) @R91

Marconi (British) vs. British Radio T&T Co. @R13-39

Marconi (Canadian) @R9-83

Martin Mfg. Co. (Vibroplex) *32-4-41, *44-1-57 + *44-2-48 + *44-2-48, @45-2-40, @46-2-51

McCandless, H. W. 31-1-13

Melco 26-2-8

Metropolitan-Vickers *40-1-13

Midwest Radio 12-2-21

Mignon

Electric Mfg. Co. @R18-110

Ernst 6-4-9, @R3-78

Industries & Export Co. @R18-110

Projectors 24-1-32, 24-3-23

Millen, James, Mfg. Co., Inc. @22-1-6

Modern Radio Labs. *34-1-12, 34-2-57, 34-3-3

Motorola 13-2-23

Music Master 33-3-20

Mullard, discontinues tubes 23-1-14

Murdock 9-3-19, 9-4-10, 10-2-17, *11-2-4

National Co. 5-2-12

at war *40-1-54

"Dancing Sam" toy *28-3-8

End of (1991) 33-1-21, 33-3-34

History @R1-65

National Elec. Supply Co. 1-1-6 (& 33-2-6), @2-4-5, @R8-117, R16-98

National Union 17-1-24

Nems-Clarke @2-4-5, @R8-117

Nora *39-57

Northern Electric, '20s BC rcvrs and amps, whole line @R13-7

Paragon (see Adams-Morgan)

Phelps, George M. 40-2-21 + @40-3-41

Philips (Australia) @R6-125

Philco 13-2-20, 17-4-45, @35-2-29, *R2-123, 40-3-21

History, '30s TV @R4-99

Pennsylvania Wireless Co. R16-18

Philmore Co. *16-4-9

Pilot Radio Co. @11-3-16, 16-1-32, 20-2-1, 22-1-13

Poulsen Wireless Tel. & Tel. Co. @R8-75

Precise Mfg. Corp. *R18-118

Precise Products Co. *R18-118

Precision Equipment Co. *R16-21

QRS Co. 9-4-2

QRS of Canada R15-162

Quaker Oats (crystal sets) 11-1-6

Quasar Corp. 15-3-18

Radio Communications Co. (Brit.) *35-4-8

Radio-Craft Co. 11-2-17

Radio Devices, Ltd. @35-4-10

Radio Frequency Labs, Inc. *19-4-12

Radio Products Co. *23-2-6, 41-1-43

Radio Receptor Co. *15-3-8

Raytheon 17-4-11

RCA 9-1-1, 9-14, 10-1-1, 14-3-17, 15-2-26, 17-1-13, *R2-126, @R10-152

Cunningham, connection w/ *39-2-58

Equipment designators 14-3-17

Formation @R17-107

Harrison plant, end of 16-4-23

"Make vs. buy" on tubes *41-3-64

"Nipper" symbol 20-2-21, 17-3-30

Before 1929 @R17-107

Origin of "Radiola" 9-13, 9-3-19

RCA bdcst sets made by GE and W. R17-107

Three-billionth tube 10-1-20

Remler 11-2-20

Rochester Tool & Gauge Corp. R18-121

Rogers 16-4-28, *36-4-33, @R15-147

Rola Company *21-2-8

Scott, E. H. (WW II) *33-4-13

Shure 16-3-24

Siemens Brothers & Co., Ltd. 22-1-5

Silver, McMurdo *39-4-52, 40-2-19, 41-3-8

Sleeper Radio Co. 11-2-21

Sociedad Anonima Industrial Radiotelefonica Argentina @40-4-60

Sparks-Withington (Sparton) 26-2-10

Standard Radio Mfg. Corp. R15-162

Stoddart Aircraft Radio Corp. @34-2-47

Stromberg-Carlson 7-4-16, *R18-102

'20s ad 42-2-1

STC (England) 40-1-14

STC (Australia).....@R6-125
 Sullivan, H. W.5-3-10
 Sylvania*22-2-14
 Three-billionth tube.....14-3-17
 Technidyne.....26-2-8
 Telegraphone Co.....16-4-30
 Television Apparatus Co.....46-1-12
 Thomson-Houston.....16-4-29
 Thordarson Electric Mfg Co.....*18-4-16
 Timmons Radio Products Corp.....23-2-18
 Tri-City Radio Elect. Supply Co.....R16-18
 Triad Tubes.....21-3-12, 22-3-24
 Trinity Radio Co.....*39-3-43
 Tuska, C. D. Co.....@21-1-6
 Ultralite, Inc. (Sam Diaz Pumara).....9-1-5
 Union Switch & Signal Co., sues KodelR17-59
 United Radio Corp.....*R18-107
 United Reproducers Corp.....R18-107
 Valley Appliances Co.....R18-114
 Van Horne Tube Co.@35-2-8, 35-2-72, 40-4-35
 Vibroplex Co.
 and "Bug" trademark.....*45-1-50
 Centennial of.....@46-2-51
 History.....@15-2-18
 and John La Hiff.....@46-1-17
 Wallace & Co.....Mono. 1
 Western Electric
 Tube Plant.....*16-2-31
 Tube Manufacturing at.....@R4-45
 Telegraph keys.....@38-1-37
 Beginnings of radio at.....@R11-105
 Westinghouse.....9-3-3, *9-4-18, 17-1-13
 Broadcast sets made pre-1929 @R17-107
 Weston Instrument.....12-3-11, 16-4-29
 Williams, Charles Jr.....*39-48
 Wireless Specialty Apparatus Co.*4-4-9, 9-4-24, 12-3-12, *41-2-52
 "1-P" vs "IP" designations.....@R18-25
 Yaxley Manufacturing Co.....17-4-17
 Zeiss, Carl, Hertz-Resonator Logo21-4-5, 22-2-17
 Zenith3-2-5, 8-1-14, 12-2-8, 17-2-12, *39-3-48
 Research request.....36-4-52
 Robert Davol Budlong and @35-3-8

HISTORIES - OPERATING COMPANIES

Amalgamated Radio-Telegraph Co. (British) R13-40
 American Wireless Telegraph Co..@R14-15
 AT&T, competing with local telcos..@R8-67
 Bell System update.....22-4-16
 BBC.12-4-14, 24-3-34, @29-3-16, @29-4-24
 Cable & Wireless.....17-1-23
 Canadian Marconi Co., first 30 years@R14-92
 Clark Wireless Co.....3-2-4, 3-3-2, 6-4-17
 De Forest
 American De F. Wls. Tlg. Co.6-4-14, 8-2-18, *9-1-1, R2-128, @38-2-22 + *38-3-14
 De Forest W. T. Co.....*7-2-2, 11-4-28
 Radiotelegraph cos.....@R2-6
 Dollar Steamship Co.....*R10-191
 Federal Telegraph Co.3-2-1, 4-1-6, 20-3-14, @R8-75
 1909-20.....Mono. 3
 in Hawaii.....@R6-19
 Federal Tel. & Tel. Co...5-1-10 (& 33-2-9)
 As Telephone Co.....@R8-67
 French Cable Company.....@25-3-16
 Frontier Tel. & Tel. Co.....@R8-67
 Gehring Wireless Tel. & Tel. Co..*14-1-27
 Globe Wireless (R).....*40-4-50
 Hawaii, early wireless.....@R6-19
 Inter-City Telegraph Co.....3-2-4
 International Radio Tel. Co.....*11-3-24
 KFS World Telecomm.....@R8-75, *R15-51
 Mackay Radio.....@R8-75
 Marconi (American)@13-1-11, 13-4-28, @R6-19
 Marconi (British and American)13-4-28, @R9-63
 McCarty Wireless Co.....13-3-16, 13-4-23
 Mutual Tel. Co.....@R6-19, @R11-151
 Postal Telegraph Co.....35-2-17
 Poulsen Wls. Tel. & Tel. Co.....@R8-75
 Press Wireless Inc.....@19-1-12, *30-3-29
 RCA, in Hawaii.....@R6-19
 Stone Wireless Telegraph Co.....11-2-10
 Tesla - Am. and Brit. Mfg. Co.....6-4-16
 Tidewater Wireless Tlg. Co.....@43-2-57
 Tropical Radio Co.1-4-4, 8-1-19, 9-1-1, 13-3-28
 United Fruit Co....(see Tropical Radio Co.)
 United Wireless4-2-1, 5-1-7, 6-4-17, 10-2-8, @11-4-11, *35-3-63, R2-128
 Universal Aether Telegraph Co.@30-2-9, *31-1-4
 Universal Wireless Tlg. Co. (1929-30)23-4-20
 Western Union5-4-15, 10-1-21, 18-2-26, *26-4-31

HISTORIES - TECHNICAL DEVELOPMENT

GENERAL

Amplifiers, audio, tube....@R7-91, @37-4-36
 Bakelite cabinets.....@R14-178
 "Batteryless" radios, Rogers.....R15-147
 Broadcasting
 FM, Armstrong and.....@44-3-46
 From transmitter viewpoint.....@R7-159
 Herrold system.....@R10-111, @39-3-20
 "Pre-history," technical survey of, 1876-1920.....Mono. 2
 Capacitors, electrolytic.....@35-1-48
 Capacitors, paper and film.....@35-2-24
 Chronology, electronic history, 1877-1947*22-2-23
 Detectors
 Grid-leak@41-1-16, 41-3-4, @41-4-52 + @42-2-66
 Mechanical.....@39-4-37
 Regenerative.....@41-1-22
 Straight triode.....*40-2-33
 Facsimile, radio.....*6-3-6
 Newspapers.....*35-2-70
 Facsimile system, Belin.....*6-3-6, 30-3-29
PATENTS
 7777, Marconi.....@R13-39
 Acoustical, influenced by Armstrong.13-3-12
 Alexander, E. F. W....@R6-155, 33-3-24
 Armstrong, Edwin@R5-143, 33-3-24, 41-1-22
 Armstrong-Pupin "noise-reducing" antenna (R) Frequency assignments, long-wave, historical vs. now.....@41-1-11
 Heising modulator.....5-3-4
 IF filter, crystal.....@37-3-24, 37-4-11
 Inductors, RF, "over the years".....*36-3-46
 Marconi wireless, "capricious results"*35-2-53
 Neutrodyne.....*7-2-19
 Noise, receiver, "reminiscences".....*34-3-27
 Oscillator
 Electron-coupled.....38-2-17, 38-3-11
 Vreeland.....*35-2-20
 Popov, developments.....*41-1-25
 Radar
 Canadian, in WW II.....*37-3-43
 Countermeasures.....@R9-166
 General.....@R9-97
 1904, Telemobiloscope....23-2-17, R9-110
 Radiation, local-oscillator, remarks on*34-1-38
 Radio astronomy.....@7-1-4
 Radio, 100 years of.....*36-3-19, *36-4-12
 Radios, auto.....40-4-52, 41-1-14
 Radiotelephone, air-ground, WW I....*13-2-8
 Radioteletypewriter operation.....10-1-18
 45-2-54
 Busignies, direction-finder.....@R13-105
 Carson, J. R.....@R6-155
 Colpitts, E. H.....@R6-155
 Combs, Edward L.....*40-2-1
 Conrad, Frank.....@R5-143, 33-3-24
 Receivers, regenerative plug-in-coil SW *14-4-16
 Recordings, stereo, 1929.....42-2-4
 Semiconductor electronics.....@39-3-12
 Superhet
 Lucien Levy and the.....*32-4-18
 "Who invented the?".....@R6-97
 Telegraphy, submarine
 19th Century.....@R17-73
 20th Century.....@R18-49
 Transmitters
 Arc.....@R7-119
 Broadcast.....@R7-159, @R8-149
 Spark, at Poldhu.....@R7-29
 Transistors
 Bell Labs@34-4-16, 39-5, @39-24, @40-1-16 + @40-2-24, 43-2-15
 Complementary-symmetry, RCA..@34-2-29
 Early uses.....34-4-20, *36-2-51
 Early days.....@40-1-16 + @40-2-24
 Volume control, evolution of.....@35-3-59
 Davis, Harry P.....@R6-155, 33-3-24
 de Forest.....R2-8, @R5-143, 33-3-24
 de Forest transistor.....33-1-20
 Direction-finder, Busignies.....@R13-105
 Doolittle, stereo AM.....R13-126
 Dubilier, William.....33-3-24

DuMont, Alan@R5-143
 "Famous men & their not-so-famous inventions".....*33-3-24, 33-4-3
 Farnsworth, Philo@R5-143, R7-186, 33-3-24, 46-2-49
 Faroukh loop antenna 20-1-25
 Fessenden, Reginald.....@R5-143, 33-3-24
 Fleming, Sir Ambrose.....@R5-143
 Fortier, coherer.....@R14-172
 FSK by switching antennas.....29-1-22
 General.....9-3-21, 14-1-2, *24-3-16
 Gernsback, Hugo.....@R6-155, 33-3-25
 Ghegan, telegraph.....@42-3-17
 Goddard oscillator.....@R7-151
 Hartley oscillator.....11-1-12
 Herold, Edward.....@R7-15
 Hogan, John V. L.@R6-155, 33-3-25
 Hull, A. W.....R9-185
 Index to Patents, Reviews 5 & 6...*R7-185
 Jenkins, Francis.....33-3-25
 Jones, underground antenna.....3-2-14
 Kent, A. Atwater.....@R5-143, 33-3-25
 Landell de Moura, Fr. Roberto.....@43-1-66
 Law, H. B., color CRT.....*33-4-21, 34-2-57
 Lilienfeld, transistor*8-4-14, 37-3-10, 37-4-10, 38-1-12, *38-1-17, @39-1-44 + @39-50
 Loomis, Mahlon@R6-155, 33-3-25, *38-1-28, 38-2-19, *38-3-46
 Lowenstein, Fritz.....@R9-205
 Maxim, H. P.....33-3-25
 Marconi Co. vs. British Radio T&T Co.@R13-39
 Marconi, G.....@R5-1-43, *R9-16
 Nicolson, heater-type tube.....R15-153
 Pickard, G. W.....33-3-25
 Pupin, Michael.....@R6-155
 Repros from US Patent Office18-4-15
 Rider, John F.....@R6-155, 33-3-25
 Position locator (1919).....*28-4-23
 Samuel, Arthur L.....R9-193
 Sarnoff, David33-3-25
 "Selected," in electronics.....*42-1-62
 Stone, John S.....@R6-155, 33-3-25
 Stubblefield, Nathan.....@R6-155
 Induction system.....*17-2-6
 Superhet, legally "unlocked".....*45-3-55
 Taylor, loop antenna.....20-2-35
 Tuska, Clarence.....33-3-25
 Vibroplex, the "forgotten".....@45-2-40
 Victoreen, John.....33-3-25
 Zworykin, V.....@R5-143, 33-3-25
TELEVISION
 Alexanderson and disc tests33-4-50, @37-1-41 + *37-2-44
 Baird
 Discs, auction of.....38-3-56
 Disk system.....*38-3-40 + *38-4-46
 Stereo televisor.....*44-4-33
 Studio scanner.....*38-3-20
 CCTV cameras, home-built*36-2-26, *36-3-44
 Chicago, early.....@44-3-15
 Disc records of video, playing-back @42-1-12
 Educational, in the '30s.....*42-1-26
 Germany, dev. before electronics.@43-4-59, 44-1-7
 Home, 1940 ("trouble in television") (R)@40-4-38 + @41-1-45
 Farnsworth's contributions..@R1-43, 46-2-49
 Local-oscillator radiation.....*34-1-38
 Mechanical, non-disc.....34-3-1, @34-3-6
 Mihaly Telehor.....@42-3-52
 Nipkow scanning disc.....*17-4-14, 33-4-50
 Philco, '30s dev. at.....@R4-99
 Phonovision.....@42-1-12
 Pre-1930 Color TV.....@42-1-30
 Rosing, Boris, and TV.....@41-3-24
 Sanabria, U. A., and mech. TV...@38-4-34
 Transatlantic, in 1928.....@38-2-40
 United Kingdom, in the.....@R6-37
 Zworykin, Vladimir, contributions to@45-4-51 + @46-2-45
 "25 Years Ago" (1929).....*39-1-49
 405-Line.....*39-4-62
VACUUM TUBES
 Audion, invention of.....*3-3-6, *31-3-9
 CRT, BTL developmental.....*31-3-15
 CRT, RCA color.....*33-4-20
 Filament polarity, '20s radios.....*40-4-10
 Klystrons and magnetrons@*R7-47, *R9-165, @R9-181
 Magnetrons, German WW II.....@35-1-38
 Metal@16-4-12, @17-1-15 (& @33-2-22), 17-2-11, 23-1-35, *32-4-11
 Metal-loctal.....*37-4-33
 Negative grid bias for.....@R905
 at RCA, early@R7-15
 van der Bijl and the.....@30-2-24
 Westinghouse, development at.....*9-4-18
WIRELESS
 Arc transmitter.....15-2-6
 Coherers, at American Wls. Tlg. Co.@R14-161
 CW power generators@43-1-19
 German wireless.....7-2-4, *7-4-21
 "How radio became wireless"@39-36 + @39-3-44
 Hertz apparatus*39-32
 Landell de Moura, Fr. Roberto, tel & tel. @43-1-66
 Lodge, Oliver, research.....@434-27
 Marconi - early ship test.....3-2-15
 Marconi - first marine transmitters on short waves.....*32-2-18
 Murgas system@30-2-9, 30-3-21, 31-1-4, @38-4-40
 Spark engineering, appraisal.....@R2-21
 Tesla
 vs. Marconi: priority in the invention of radio.....Mono. 4
 "The silent tower".....*9-18
 "World system of wireless"40-1-28 + 40-2-28

MISCELLANEOUS

Advertisements, radio, and fashion @R18-65
 AN nomenclature system...21-2-18, *30-3-20
 Antenna, active, making.....*32-4-19
 Antennas of the mid-'30s.....*38-4-53
 Auction, S. Johnson estate.....*24-2-14
 Auto radio, converting to AC.....*40-4-52
 Bandpass tuner for DX.....10-1-23
 Car radio, pioneering (1921).....*21-1-11
 Copyright law*18-1-30
 "California safari, my" (Raser).....6-2-13
 Crosley household appliances.....@R16-74
 Crossword puzzles
 "Circuits - Some Work, Some Don't"45-1-30
 "From the Junk Box".....*44-4-35
 "Radio Men," biographical.....*45-1-50
 "Radio Mfgs. of the '20s".....44-3-53
 Dirigibles, US Navy ZR-series22-1-31, 23-4-20
 "Feminine touch" in telecomm, the.@R4-70
 Free power, the quest for.....31-1-25
 Gift of the Electronic Magi - a Radio Row Christmas Story.....@40-1-24
 "Grid-leak drip pan," making.....*35-3-35
 Grille cloth, history.....@R16-180
 Internet - "on the Web"
 Antique television.....*41-4-56
 Boatanchors.....*42-1-48
 Communications magazines.....*43-4-42
 Crystal sets.....*45-1-57
 Discussion groups, newsgroups, forums@41-2-39, *45-4-22
 Foreign radios.....43-3-69
 Getting started.....*39-4-41, *40-1-56
 Gramophones and phonographs...*46-1-23
 History and ham eqpt.....*41-1-15
 International SW bdcstrs.....*44-3-22
 Message threads.....@40-1-54
 Microphones.....*46-2-4
 Military gear*43-1-54
 Old-time radio*45-3-58
 Old-timers' groups.....*42-3-27
 Parts.....*42-2-56
 Radio-monitoring resources.....*44-2-46
 Regen receivers, homebrew.....*46-4-61
 Restoration resources.....*44-4-66
 Search engines.....*40-2-42
 Telephone & telegraph.....*42-4-53
 Tube and valve data.....*44-1-48
 Vintage hi-fi / stereo.....*43-2-47
 Web sites.....*40-4-49, *41-3-50
 Wireless telegraphy.....*45-2-67
 Job-hunting in the '30s.....*29-1-13
 "Kid with the wagon" cover.....35-1-60
 kr, The (Kraeuter).....*37-4-13
 LF transmission, demonstration from DF beacons.....@42-2-45
 "Lost wireless" (dead spots) (R).....38-3-38
 Marconi's yacht, recreation of.....29-3-43
 Marconi archives, (abortive) auction of38-1-5, *38-2-4
 Model aircraft, radio-controlled, '30s@43-3-47
 Navy designation system14-2-9, 14-3-9, *32-2-12, @R7-69
 Navy avionics equipment, late '40s*30-3-22, *31-1-38
 Operators, commercial, licensing.....*44-3-50
 Parts-catalog page, '30s.....*7-3-20
 Photographing tubes*FS2-2-3 (& *33-2-40), 31-4-3, *32-3-8
 Photos, getting good B & W*30-4-36, 31-1-38, 40-1-15
 Plywood cabinet makers, request for info on 38-2-19
 Pooch Who Made the Radio Shack Her Kennel, The (R).....*19-1-22
 Princess, A Trip on the New.....*19-4-34
 Pulsar: Vulpecula 1937 +21.....29-6
 Radio noise, from VCRs and CD players35-

1-60
 Reading station frequency to a kHz 34-4-46,
 35-1-60
 Return of the Signals 30-2-13
 Soldering, in '20s *45-2-21
 Stereo system, 1881 22-3-25
 "Structured Approach" restoration series,
 summary 43-4-41
 Swift, Tom, Boy Inventor *27-2-36

Tech-manual art
 Canadian view @34-2-53, @35-3-13
 European view @35-1-18, @35-3-19
 U. S. view *33-4-47
 Tesla coils @18-2-8
 Tesla coil, modulascope *19-1-10
 Theremin, the 10-2-5
 Theronoid quack device *33-1-29
 Tin-can doublet @40-2-50

"Tubeless Radio Hoax," the *34-4-21
 Units, "cycles to hertz" 31-3-40
 Want ads, 1914 *27-1-42, *28-3-41
 Want ads, *Modern Mechanics* 9-4-17
 WW I surplus, '20s prices 15-1-8
 World's Fair, Radio, 1929 28-1-17
 60 cycles, origin of 13-4-7, 20-3-12
 1952, electronic events of 33-2-3

OPERATIONS - BROADCASTING - RADIO

Audio-freq. performance in early @R3-48
 Australian stations, program scheds., 1927-27-
 1-19
 "Blooper, The" - poem 12-3-28
 Broadcast DXing 15-1-25
 Then and now *28-3-38
 on crystal set 10-3-8
 on one-tuber *35-4-16
 Broadcasts
 de Forest opera 9-1-17
 Remotes
 Dempsey-Charpentier fight 7-4-15
 Dempsey-Tunney fight *15-4-26
 McNamee-Ruth interview 11-1-13
 Skier 5-1-6
 WJZ (?) airborne, 1927 27-1-1
 Cards, rare BCL *34-4-23
 Cartoons, "radio in the home" 12-1-12, 12-2-

5, 17-4-5
Citizens Radio Call Book, 1927, thoughts on
 @37-1-32
 Cliquot Club Eskimos *12-4-10
 Crystal control, early 5-3-3, *R7-173
 Edison on broadcasting *16-2-30
 India, first operation in 5-1-7
 Ivory Stamp Club, the *45-1-28
 Listening, Nazi warning against foreign 41-2-21
 "Moving day," 1941 (NARBA) 32-3-20
 Networks, general
 Coolidge, at WFAA 24-3-19
 KHQ-KGA 4-3-10
 NY State Network @R3-34, R7-177
 Program transmission and early .. @R3-34,
 29-4-12, 31-1-35
 Rural Radio Net (NY state) *24-4-10
 San Francisco, '30s network centers @R5-

123
 Network, NBC
 Chimes 17-4-11, *20-1-12, 31-4-38, 32-1-23
 Red Net, startup 7-3-10, *11-3-14
 1935 stratosphere balloon remote. *24-4-8
 Network, VOA, early history @36-4-28
 Network, VOA, Greenville site *41-2-47
 Ohio, stations in, 1920s *43-2-29
 Philadelphia, first 50 years @R2-120
 Poster, German, "Traitor" 41-1-37
 Radio Atlantis 14-4-27
 Shortwave, by GE, '20s *R7-178
 Sing Sing Prison, radio in 36-2-17
 in the South, first 4-2-7
 South Africa, in @26-3-14, 31-1-32
 Stations, owned by seed cos., '20s @R15-126
 VU meter, origin of the *27-3-36
 600-meter watch in early bcg *18-3-6

OPERATIONS - BROADCASTING - TELEVISION

Baird TV demo, Brewster @27-2-8
 British standards trials *28-3-22
 Camera, port., 1938 *21-3-16, *39-3-18
 Camera, for moon landing *35-4-14
 CBS, early TV *45-3-16, *45-4-15
 Color, 51 years of *46-2-61
 Fiftieth anniversary of U. S. 30-4-39

High-definition TV, status of *29-4-38
 Demonstration of 30-1-17
 Historic (disk) TV *26-3-32, *26-4-18
 Home, 1940 ("trouble in television") (R) @40-
 4-38 + @41-1-45
 Image sensors, solid-state 26-3-31, *35-4-46
 "Our Lady of Television" 32-1-25

Play, broadcast of, 1928 23-1-12
 Radiomovies: 1928, now @28-2-8
 Station list, 1932 43-3-36
 WGN-TV *38-3-1
 WRGB-TV 30-1-13
 U. K., in the @R6-37
 "Alley-Palley 1936-86" @29-3-16 + @29-4-24

OPERATIONS - RADIO/WIRELESS - AMATEUR

ARRL
 Convention, first (1921) 7-1-2
 Convention, 1927 at KDKA 10-2-9
 Formation of 9-1-15
 Official Observer card, 1937 32-2-20
 Callbook, Boston, 1912 14-2-2
 Call letters, odd 7-4-14, 13-3-9
 Call-letter prefixes, 1927 10-3-24
 Cartoons - Gil - 1914-34 *7-1-10
 Crystals for AWA Net 7-3-10, 7-4-4, 11-2-3,
 12-3-11
 DX requirements in 1907 2-3-18
 DX, spark 2-1-2, 3-1-2, 12-4-17
 Equipment dealers, 1929 ads *12-4-27
 Equipment survey, 1929-32 *35-2-43
 Fifties, amateur radio in the *46-3-62
 France, first contacts with *35-2-14
 French 8AB 6-4-10, *35-2-14
 History
 in Canada 9-3-10
 in Great Britain 8-3-13, 9-1-4
 in Japan *34-2-43
 in NY City Area, pre-WW I @2-3-5, @R6-

115
 in Philippines 16-1-14
 "Is it 1929 again?" *36-4-26
 License, British, 1930s 25-2-38
 Licensed amateur, first 6-1-5, 6-2-11, @R9-29
 Licensing, amateur, 83 years @R9-25
 MIT, radio club at 7-1-9
 Modern operation with OT xmtrs, George
 Grammer's TNT *15-1-24
 National Amateur Wireless Association 8-1-13,
 11-3-12
 Official-Observer report, W2AN 29-1-19
 Old Man, The 1-4-3
 Phone, first amateur 11-1-8
 QRM, spark 11-4-23, *28-4-40
 QSL cards
 First? 8-4-6
 by "Gil" *35-1-45
 Rare *34-1-37
 Rare (AU1A), 1931) 11-2-16
 W8XK/3 (KDKA) 4-4-6
 QSO, last legitimate spark *28-1-37
 QSOs, 50th anniversary 12-4-16, 13-1-21, 13-

4-25, 14-1-9, 14-3-27, 15-1-12, 15-3-20, 16-
 1-26, 17-4-43
 Radio amateur in WW I, a @R1-49
 Recordings off-the-air, search for 4-1-8, 4-2-7
 Single sideband, early 15-1-3
 Spark vs. BC vs. CW, 1922 letter. *11-4-23
 Spark station, early 7-4-9
 Spark trmsn, FCC petition 1-2-1, 4-4-6
 Ted Ostman's rotary 3-3-5
 "They always came back" @3-1-5
 Transcon msg. form, ARRL 27-1-37
 Transatlantic tests
 1BCG *6-4-11, 12-3-6
 1BCG Monument 6-4-11
 Anniversary observations 14-4-5, *37-4-56,
 37-4-58, *38-1-31
 USS North Carolina, station on *45-4-44
 WAC certificate, first 7-2-5, *35-4-17
 Want ads, *QST*, 1924 14-4-26
 1580-meter operation @13-1-3, 15-2-24
 1923, great year *35-2-14

OPERATIONS - RADIO/WIRELESS - COMMERCIAL, EXPERIMENTAL, MILITARY

Air-ground, Pan Am, Pacific@34-4-25
 Air-ground wireless communication, first two-way*30-3-19
 Alexanderson alternator, SAQ transmission*27-4-18, 28-2-4
 Amelia Earhart
 Mystery solved?.....*28-4-24
 Research project..... 33-1-32
 America, radio-equipping the.....*40-2-40
 Armstrong FM system, Empire State Building trial, 1934-35.....@R1-109
 Balbo transatlantic flight, 1933.....29-1-23
 Balloon "America".....3-1-3
 "Blushing brides"..... 10-3-22
 British ship-to-shore traffic, end of CW press service..... 13-4-27
 Byrd Expedition..... 16-4-10
 Callsigns, ship, reassigned to BC stations*13-2-19
 Callsigns, U. S. R-series..... 9-1-18
 Clandestine nets, Europe, WW II....*36-2-49
 Clark System (1903)..... 19-4-31
 Contact with Mars - 1937 views.....9-4-1
 Detroit police 12-2-8
 Direction finding, HF, WW II.....@R13-98
 Distress call
 End of 600-meter watch.34-2-42, 34-4-62
 First U. S.9-11
 "SOS" - Origin of..... 3-4-5, 30-2-13
 SSSSDD, SOE, CQD, SOS..... 30-2-13
 Drawing, operator in ship stn. 17-1-14
 DXing, longwave5-1-9, 9-1-3, *9-3-16, 11-4-7, 13-2-15
 Foreign Broadcast Intelligence Service, FCC @R15-71
 German wireless, early.....7-2-4, 8-4-13
 Graf Zeppelin (USS Shenandoah)*21-2-21, 21-3-11
 Great Lakes operators, in AWA.....14-2-21
 HMCS Haida, radios on.....@35-3-38
 INTERPOL Network.....29-1-14
 Intercept operations
 Military@R15-7
 British military, WW II.....@R17-187
 License ("Certificate of Skill", 1911-12)6-2-11, 9-1-15, 11-4-20, 12-1-19, 12-3-17
 Low-frequency operations
 Modern.....*8-3-17
 Omega Navigator.....11-3-20
 "Marconi Men Against the North".....*12-4-4
 Marconi 1901 transatlantic trmsn3-1-9, *15-4-20, 19-13, 30-1-17, 31-2-46, 35-4-67, *44-1-40 + *42-2-64, 44-2-8, 44-3-6, 44-4-4, @R13-81
 Commemorated by DDH47 *44-2-56
 Marine, CW, end of, at Globe Wireless*40-4-50
 Navy letter frequency designations, WW I3-1-2
 North Africa, "remarkable QSO"35-3-41
 Radio Intelligence Division, FCC, in WW II@R5-63, @R15-69
 Ranges, wireless gear, 19072-3-18
 Schools, wireless.....4-1-3, 4-4-3
 Bowman Technical School.....32-2-33
 British Marconi.....3-4-4
 Harvard, WW I.....5-1-6, 5-3-9, 5-4-13
 Marconi/RCA Institute14-3-28, 14-4-21, 15-2-26, 17-4-16, 37-4-68 (pic)
 National Radio Institute 5-4-14
 Seneca Vocational School.....3-4-8
 United Wireless..... 11-4-17
 Valparaiso Tech. Inst.15-3-26, 15-4-16
 Secret codes via music.....28-4-45
 Signal Corps in Siberia, 1919*33-4-48
 "Silent period," the.....*21-1-12
 Ships named for inventors..... 11-2-9
 Ship station, 1903, opn. of a..... 31-1-8
 South Africa, history of radio in@26-3-14, 31-1-32
 Spark contact, last..... 15-4-19
 Spark station, full diagram..... 16-1-24
 Sparks and dreams - survey..... 33-3-34
 Spectrum conservation.....*45-1-22
 Spies, America's wireless @R5-21
 Spies / intercept ops, radio, general@R15-7
 Stock prices, comm. cos.,`24 28-3-14
 Telephone service, history of wireless in public.....@20-2-16
 Time signals, first to ships.....@43-3-57
 Transpacific radiotelephone circuits, and A-3 Privacy Device.....@R11-151
 Ultraviolet and ozone exposure of spark operators - survey..... 14-1-26
 Vint Hill Farms mon. station@40-3-44, 40-4-54
 War Emergency Radio Service..... 38-1-14
 West Coast, first wls. msg. on.....@41-1-50
 Wireless days, a glimpse of*31-1-10
 Wireless Institute (pre-IRE)6-1-3, 6-1-7, 6-2-9
 "Wireless operator's 1st SOS".....@30-1-38
 World's first outfit 21-2-27
 WW I, military comm in.....@R6-135

PARTS - DETECTORS

Adams-Morgan CR-1235 silicon-antimony23-4-8
 Braun, Karl, & crystal detector 27-4-24
 Carbon-steel (Popov)6-1-10, 6-2-10, 41-1-26
 Home-built.....*23-2-20, 27-1-34
 Carbon-needle, Massie Oscillaphone 22-4-15
 Carborundum story, the@27-3-10
 Coherer
 As AM detector*40-1-38, 40-2-20
 Eduard Branly and the*24-3-23
 History.....*2-2-5 (& *33-2-7), 39-4-33
 Lodge-Muirhead 23-3-22
 Making replica*37-2-39
 Marconi *24-4-22, *R9-13, 41-2-25, 41-3-7
 Popov 41-1-26
 "Revisited".....*41-2-25, 41-3-7
 Crystal, history*4-3-11 (& *33-2-8), 7-1-20, 39-4-33
 Crystallo 9-4-23
 Electrolytic.....*2-4-11 (& *33-2-7)
 Electrolytic, Armstrong 6-1-4
 Flame Audion*17-1-29, 23-1-21
 Frog's leg 34-1-9
 Galena, Bose@27-1-16
 "Galena galore"23-3-17
 Galena, source for7-2-8
 Grewal.....25-1-23, 27-3-7
 IP- (1P)-49 silicon (pic)..... 9-3-17
 IP- (1P)-200-203 (WSA cat.).....@4-4-10
 IP- (1P)-201R18-43
 Liquid barretter, Fessenden 30-4-34, 37-4-15
 Re-creation.....@46-2-37 + *46-3-65
 Magnetic
 Home-built5-4-10, 7-3-4, 8-4-2, @46-2-22
 Marconi*2-4-11 (& 33-2-7), 4-1-1, @R9-44, R9-87
 Use in broadcast band.....6-1-3
 Marconi, for 103 receiver..... R9-70
 Marconi 5-way....1-4-1, 35-4-13, (pic) R9-52
 Perikon..... 6-1-8, 9-3-24
 Responder, de Forest...3-2-16, 3-3-8, 7-4-2
 Tests of early types..... 7-1-1, *7-4-2
 Tone wheels.....*39-4-37
 Tube, "soft".....*37-2-42
 Tikker 13-4-18, *39-4-37, 40-1-11
 Wollaston wire.....6-1-8
 Source for.....6-2-5
 WSA Type 190, vs. IP-201.....R18-43

PARTS - GENERAL

Cable, EO-1..... 10-1-7
 Capacitors
 Electrolytic@35-1-48
 Paper and film@35-2-24, 40-1-54
 History.....*21-1-31
 Transmitting, RCA UC-1819..... 44-3-6
 Wet filter, telephone 26-4-17
 Coils
 Honeycomb5-1-12, 6-4-16, 9-4-2, 10-1-20
 National six-pin.....@34-3-38
 Electrolytic interrupter.....6-1-4
 Grid leak, invention of.....*43-3-42
 Grille cloth, history@R16-180
 Helmholtz-resonator audio filter.....10-2-15
 IF transformer, vacuum..... 9-3-11
 Inductor, finely var.....*15-4-28, 34-2-67
 Ink blotter, Tidewater Wls. Tlg. Co.43-2-57
 Keying relay, Goldschmidt alt.24-4-24
 Lead-acid battery, origin28-3-43
 Marconi undulator..... 7-4-1, *25-2-12
 Motor-generators, & hams.....*17-3-24
 Multi-Audi-Fone (mech. amp.).....@30-3-35
 Noise eliminators, fake..... 28-2-30
 Pickle-bottle rectifier 17-3-28
 Raytheon "A" electrolytic rect.*25-4-18
 Receiving transformer, Clapp-Eastham (pic)9-2-5
 Sources for
 Meshna 11-3-15
 Modern Radio Labs8-3-20, *14-3-24
 Spark coil, Thordarson..... 11-4-7
 Spark coils, Ford, new 12-3-17
 Spark wheels, repro 7-2-13, 7-3-12

PARTS - HEADSETS

Adjustable-diaphragm types.....	*38-2-38	Brown, S. G.	38-2-38	Canadian.....	35-4-52
Ads		Cel-Met.....	R18-106	Marinette.....	37-4-18
Brandes.....	9-3-24, *36-3-48	Chicago Telephone Supply.....	*36-1-7	Mica/nonferrous-diaphragm..	37-4-18, 38-3-16
Holtzer-Cabot.....	9-3-23	Conn. Instrument Corp.	38-3-16	Micaphone.....	37-4-18, 38-3-16
Murdock.....	10-2-17	Connecticut Tel. & Electric.....	36-1-7	Nathaniel Baldwin.....	*24-3-20
Baldwin.....	37-4-18	Crosley.....	*45-1-59	Northern Electric, '20s.....	*R13-34
Blue Streak.....	37-4-18	Early (1905-25).....	5-2-3	Magnavox.....	11-3-2
Brands, list*29-1-38, @32-4-46, 33-1-40, @36-2-38, 37-2-38, *38-1-21, 39-1-41, @40-1-44, *40-1-49		Federal.....	*38-4-29	Proprietary-branded.....	37-2-38
Brandes.....	*39-1-40	IBM.....	*37-3-20, 38-2-39	Radio mica diaphragms (ad).....	38-3-52
		Index of makers (1926).....	*18-2-22	Radiotive.....	38-3-16
		Little Tattler.....	37-4-18	Wireless Specialty Apparatus.....	38-2-38

PARTS - KEYS

GENERAL

Albright License.....	*24-4-21, *35-3-11	Can. Marconi.....	@R14-17	"Guillotine" (pic).....	*R14-1
Bunnell Catalog.....	3-3-8	Chambers, F. B.	R14-48	Spark (pic).....	R9-54
Bunnell steel-lever line.....	@43-2-54	Clapp-Eastham.....	R14-45	Spark, 5-kW (pic).....	R9-79
Century of development, a.....	@R2-106	Codetrol.....	32-2-34	Type 701.....	R9-88
Circuit-closing switches.....	*41-1-59	Commemorative, to Truman and Eisenhower		Wireless, full line.....	@R14-7
Collecting/dating/valuing.....	22-4-17, *28-4-31	32-1-34		Massachusetts Wls. Eqpt. Co.	R14-33
Conkling key.....	*46-3-50	Compound.....	*38-2-57	Massie	
Design, historical1-4-6, @13-3-18, *30-4-31, *32-2-34		Cootie.....	24-3-29, 31-2-42	Ad, ca. 1908.....	9-3-24
Foreign and military.....	@R3-98, @R8-1	De Forest.....	*R14-21	Oil-break.....	6-3-18
Foreign words for.....	30-3-28	Delany.....	*39-3-52	Whole line.....	R14-22
Ghegan patents.....	@42-3-17	Differential-duplex polar.....	*28-2-20	McIntosh.....	R14-69
Historic.....	*32-1-34	Dinger transmitter.....	37-1-40	McElroy teardrop.....	27-3-35
History, general (Raser Coll.).....	1-2-9	Doron Bros.....	R14-47	Mecograph*23-4-23, *29-1-36, 30-1-23, 37-1-40	
Identifying from style of binding post*35-2-18		Dow-Key.....	33-1-38	Melehan Valiant.....	*26-2-32
Junker.....	43-4-71	Duck, Wm. wireless.....	R14-43	Military, WW II.....	29-48, @R3-98
Keys, 1872 view.....	45-4-41	Ducretet et Roger.....	26-1-36, R14-51	Miniature keys and sounders.....	29-3-21
"Levers, pivots, and ambiguity".....	*39-1-53	Ducretet spark.....	*40-1-60	Morro Castle, from SS.....	22-4-17
Maxim, Hiram - personal.....	26-4-34	Dunduplex.....	27-4-19, 33-1-38	Murdock, Wm. J.....	R14-44
Pivots, early keys.....	@37-3-37	Electro Imp. Co.	R14-42	Needle Telegraph.....	*31-4-23
Private-line KOBs.....	*36-4-14	Electro-Set Co.	R14-48	Omnigraph, unusual.....	11-1-17
Protective knob.....	26-1-36	Equable.....	33-1-38	Peerless key.....	*36-1-25
Re-creations, warning re.....	36-1-28	Fessenden.....	R14-29	Phillips.....	*34-3-47
Restoration ("patina vs. polish")*34-4-49, *35-1-55		Fire alarm test ("camelback confusion")*34-2-45		Propst-Jackson Transmitter.....	37-1-40
Spark, history.....	@R14-7	Foote-Pierson "20th Century" ("pump handle")		Q-S-505.....	41-2-3
Spark, mfgs., all known.....	*R14-82	*36-2-44		Q-S-5004, WSA.....	41-2-52
Survey of keys.....	*19-28	General Radio Co.	R14-54	Radio Engineering Co.	R14-47
U. S. Navy types.....	*R14-62	German tank.....	32-2-34	Radio Speed (kit).....	*28-1-36
Vibroplex, designed by John La Hiff*46-1-18		Gilbert, A. C., wireless.....	R15-40	Rotoplex.....	*28-2-33
Williams.....	*39-48	Go-Devil (pic).....	31-2-42	SE-68.....	R9-81
Wireless, European.....	*23-3-25	GPO, 1870s.....	29-48	SE-86.....	R9-77
Wireless, Massie et al.....	23-1-15, *23-2-13	Home-made.....	31-2-42, *35-3-11	SE-3546A.....	R18-14
SPECIFIC TYPES		"Hitler's yacht," attributed to.....	30-3-28	Sematic.....	31-2-42
Acme Wireless.....	R14-31	Hulit Transmitter...8-1-10, *26-3-40, 28-4-30		Shoemaker.....	*R14-27
Altoona (1865).....	28-4-31	Ihili 31-4-23		Slaby-Arco.....	R14-19
Am. Marconi.....	R14-42	Johnson SpeedX.....	27-3-35, 30-2-33	Sideswiper.....	24-3-29, *27-2-23
Autoplex*14-4-7, *24-2-29, 31-1-22, *44-1-53		Keen-Kode.....	19-4-25, 30-2-33, 33-1-38	Signal Electric Sematic.....	*25-1-29
Brittin.....	37-1-39	Keyboard transmitters.....	30-2-33, 31-3-37	Southern Cross, key from.....	24-3-29
Brown, S. G.....	R14-53	Key-on-base sets.....	*26-4-37	Steel-Lever.....	@43-2-54
Bug		Keyer, three-disc, manual.....	7-4-13	Stone T & T. Co.	R14-30
Bootleg.....	*24-4-21, *27-4-19	Kilbourne & Clark.....	*R14-39	Strap.....	31-1-22
Early.....	24-4-29	Leach.....	R14-67	Telefunken.....	*R14-20
Evolution of the.....	3-2-3, *33-1-38	Lefley.....	*36-3-36	Thomas.....	27-1-35
McNew.....	*34-1-51	Leg *25-4-21		Triplex.....	5-4-6, 33-1-38
Bunnell double speed.....	@44-4-44	Lehmkuhl.....	R14-67	Triumph.....	@43-2-54
Bunnell spark.....	R14-41	Lewis.....	@38-1-36, 38-2-57	Ultimate ("73 key").....	*25-3-29
Burlingame Telegraphing Typewriter Co.R14-37		Lineman's test set.....	7-2-7, 29-4-37	United Wireless.....	@R14-22
Cable.....	15-4-5, 29-3-21	Lever Correspondent.....	30-4-31	USS Haraden.....	13-3-12, 13-4-2, 14-1-4
Cain patent.....	*38-4-45	Logan.....	27-3-35	Vailograph.....	33-1-38, *37-2-16
Camelback.....	24-1-33, *28-3-21, 32-4-42	Mac Key.....	31-1-22	Vertical bugs.....	30-1-27
		Marconi		Vibroplex	
		CM-425.....	R9-81	Centennial.....	46-2-51
		"Grasshopper" ...30-4-31, 31-1-35, R9-38		Dating.....	25-2-29
				History of.....	@15-2-18, *44-2-48

"Missing link" (1909-11).....*32-4-41
 Upright..... 30-1-27
 Victor (and sounder)..... 37-3-37

WE 7B "upside down"..... 32-2-34
 Wireless Improvement Co.....R14-49
 Wireless Spec. Apparatus Types...*41-2-52,

@R14-33
 W. T. No. 8 (British)..... @R8-33
 Yetman Transmitter30-2-33, 31-3-37, *34-4-70

PARTS - LOUDSPEAKERS

LOUDSPEAKERS, GENERAL

Bristol Loudspeaker Test Set..... 22-1-32
 Electroacoustic reproduction,
 1920-30..... @R4-84
 Kodex, whole line.....*R17-50
 Northern Electric, '20s.....*R13-34

LOUDSPEAKERS - CONE

Air-Chrome.....*26-2-22
 Arborcone..... 46-1-48
 Boudette Mfg. Co.....*44-2-24
 Bosch Dragon.....*42-4-14
 Crosby Musicone.....*R16-33
 Vintage photo..... 8-4-3
 And Magfon.....*28-4-38
 Dictogrand "Roll"..... 32-2-35
 Drivers, RCA & WE, similarities..... 14-4-26
 Early..... 23-3-8
 Ensco kits.....*45-4-18
 Jewett.....46-1-FC, -48
 Magnetic.....@24-2-20
 Magnetic, 1926-28.....*27-3-34
 Pontico..... 46-1-49
 RCA 100 and 103 - manufacture... 16-2-10
 Sonochorde.....*44-2-24
 Utah ship.....*41-4-44
 Vemard..... 46-1-48
 Vintage, restoring A.....*31-2-15
 WECO, wicker-case..... 11-4-25
 WECO, 540AW (pic).....46-1-FC

LOUDSPEAKERS, HORN

"All known" models, A through B(start of series).....*46-4-52
 Ackerman Bros. Co..... 26-1-24
 Acme Apparatus Co.....*29-4-36
 Added types ("CW / GW," Kenny, Radio-Tone, Reedena, Spilger, Still-O-Vox41-3-47
 Aluminum..... 24-4-18
 American Art Mache.....*32-4-37
 American Electric (Burns).....*31-1-23
 Amplion.....*21-4-12, *38-1-32
 Arkay..... 35-3-34, 36-4-25
 Arnold, J. F..... 36-4-24
 Atwater Kent.....@23-3-9, @R12-81
 Baldwin.....*39-4-50
 Bennett "Auditorium".....*37-2-24
 Berwick..... 40-2-49
 Boissonault Co., G..... 36-4-24
 Borkman "Jewel Case".....*43-4-53
 Brandes.....16-1-19, *25-1-22
 Bristol Amplifier-Speaker..... 23-4-22
 British.....*28-1-25
 BSC (Brittania).....*29-4-2
 Burns (American Electric).....*31-1-23
 Cabinet..... 23-1-24

Callophone.....23-4-22
 CAMCO (Cannon & Miller).....40-4-62
 Ceramic.....*45-3-37
 Clapp-Eastham Electro-Ampliphone..*46-2-25
 Clear Tone.....40-2-49
 "Confucius".....*42-3-11
 Coryphone.....40-4-62
 Crosley Magfon.....43-3-19
 Delco "Ham" Horn (1931).....25-4-25
 Dictograph Portable.....*26-3-42
 Doolittle Amplifone and Audimax (ads).R13-125
 Federal T & T. Co.....36-4-24
 Firco (John Firth).....*34-1-20, 36-4-24
 Florentine Art Productions..... 35-4-57
 Gale Radio Labs.....*33-4-26
 Githens Truetone.....42-2-36
 Herald.....24-4-18, *36-3-35
 History of development.....@17-3-16
 Jerome.....42-2-36
 Jewett.....*40-3-27
 Kennedy, Colin B.....*36-2-10
 King Am-Pli-Tone...9-4-20, 36-4-24, 38-2-25
 Kodex.....*34-2-46
 Known makers.....@20-4-12
 Lamp horns.....*29-1-12
 Los Angeles, made in.....41-1-31
 Magnavox
 Collector Guide.....@21-3-8
 General..... 36-4-24, *39-42
 A1-R/A2-R Amps.....23-3-8
 R-3.....22-4-20
 Majestic Celluloid.....*43-2-23
 Manhattan Electrical Supply*35-1-15, *37-1-10
 Milo26-1-24
 Miniature Horns.....*30-1-28
 Moon Radio Phone.....*42-1-41
 Mozart Baby Grand.....44-4-27
 Mozart Grand.....*38-3-24
 Murdock 500.....*39-1-13, 44-3-20
 Murdock 500.....*44-3-20
 Music Master.....@33-3-20
 Music Master vs. Melody Tone.....*30-4-23
 No-name (like King).....38-2-25
 Ovenshire Laboratories.....*29-3-26
 Peerless Radio Labs.....*38-4-31
 Piroxloid.....31-1-28
 Qualitone.....40-2-49
 Radiolamp.....*33-1-37
 Radio Cabinet Co. ("Orchestrion")...*37-3-36
 Radio Service & Mfg. Co.....36-4-25
 RCA
 FH.....30-3-27
 UZ-1320.....28-3-24, 30-3-27

UZ-1325.....25-1-22, 28-3-24, 30-3-37
 UZ-1336, -1344 (prototypes)..... 28-3-24
 Reichmann.....*32-1-31
 Remo.....35-2-46, 44-4-27
 Rhamstine, J. Thos..... 36-4-25
 Needlephone..... 10-4-3
 Rice & Hochster..... 30-1-28
 Riley-Klotz Mfg. Co.....36-4-25
 Royalfone..... 40-2-49
 Saal.....*27-2-24, 31-3-39
 Sea Shell..... 23-1-24
 Sizes, definition..... 27-4-32
 Sonochorde..... 24-1-21
 Square-bell designs..... 23-4-22
 Standard Metal Mfg.....*32-3-31
 Stentorphone.....*34-3-49
 Stromberg-Carlson.....*39-47
 Survey, collectors' brands.....*25-3-34
 Survey, shapes..... 23-4-22
 Telephone Maintenance Co. (Telmaco)36-4-25,
 *45-2-20
 Teletone.....*41-2-35
 Temple.....*46-2-15
 Thorophone.....*32-1-31
 Timbre-tone.....*31-4-35
 Tower.....30-1-28, *34-4-51
 Trade names & mfgs, table.....24-1-21
 Trimm.....*37-4-20
 Trinity Radio Co.....*39-3-43
 Victory Radio-Electro Amp.-Horn..... 23-4-22
 Vocarola.....*26-4-30
 Westinghouse..... 36-4-25
 Western Electric
 '20s.....*22-1-10, 36-4-25
 14A Amplifier-Speaker..... 23-3-8
 Winkler-Reichmann.....*32-1-31
 Woodlark (ad)..... 41-1-31
 Yahr-Lange..... 27-1-32

LOUDSPEAKERS - MAKERS

Andia, Ltd.....*42-3-11
 Both horn and cone..... 25-2-17
 Continental Radio & Elec. Co..... 36-4-25
 Closing of business..... 27-4-32
 Jerome Radio Corp..... 42-2-36
 Los Angeles area.....*25-2-17
 Operatone.....*44-1-37
 RCA, dates, speakers.....*28-3-11
 Seattle area..... 25-4-25
 Subcontracted parts.....*31-2-40
 Timmons.....*23-2-18
 Small-quantity.....*26-1-24
 Wilson Utensil Co..... 42-1-41

PARTS - MICROPHONES

AKG 202..... 45-3-28
 Amperite SR 80, with Casa Loma Band41-3-56
 Astatic condenser, restoring..... 23-1-13
 Astatic D-104..... 21-1-25
 Cathodophone.....*44-1-43

CFRB combination.....46-3-53
 Early history of.....@R4-131
 Electro-Voice 655.....46-3-52
 Magnavox ST-4.....*42-2-58
 Neumann U-47/U-48.....45-2-23
 Paquette Collection.....@15-4-18

RCA 77A.....*43-2-37
 RCA BK-4A prototype (?)..... 46-4-60
 RCA Varacoustic.....*42-1-46
 Reisz.....*18-1-15, 27-1-34
 Rockwell.....*41-4-45
 Signal Corps T-1.....*43-1-18

Trough transmitter, Fessenden 30-4-34
 Western Electric
 10A 46-1-28
 47A 43-4-49

600A 42-3-32
 633 44-2-11
 D-14293 *43-1-18
 at Dempsey Fight 7-4-15

Westinghouse "tomato can" *44-4-37
 WLW condenser 45-1-15

PARTS - TUBES

GENERAL

1952, tube scene in *43-4-32
 Acorn @42-3-21
 AC, Rogers @R15-152
 Adapters ('20s-'40s) 15-1-15, *32-4-12
 American, early (R) *40-4-34 + 41-1-42
 American, in England, WW II 22-1-33
 Australia
 Early types 8-2-13, @R6-125, *41-2-44
 Wartime production *R7-66
 Babcock, C. D., and the Audion 3-3-6
 Base diagrams @45-4-39
 Bases
 European split-prong 19-1-29
 "Modern," types and names 45-3-17, 45-4-39
 Octal, British vs. US 27-1-41
 Shaw 18-1-27, 37-4-45, 38-2-34
 Shaw, on British tubes 38-2-64
 UV-UX-UY designations 9-1-4
 Books
Saga of the Vacuum Tube at 25 years *43-2-50, 43-3-6
 Tube history, in AWA Review *42-4-56
 Tube references *38-1-24
 Brand names *46-4-50
 Cartons, collecting *32-4-6
 Cold-cathode *FS5-2-3
 Crookes *37-3-21
 CRT, Zworykin contributions to *45-4-55
 CRTs and TV camera, collecting 34-2-37
 CRTs, notes on (where used, etc.) 44-3-25, 45-2-39
 Date code, GE (request for) 38-1-14
 De-etching, at factory 46-3-48
 Detectors, "soft" *37-2-42
 Development at RCA, '30s @R7-15
 Disc-TV: Cratertron, Minitron, Platron, Reflector (pic) 46-1-12
 Displaying 42-3-50
 Eaton coll., WW I @R6-1, @R7-107
 Edison Effect
 100th anniv. *24-3-24
 Tube (pic) R9-48
 Electron-ray, types 34-2-18
 Equivalence charts
 Army-to-civilian, prewar @31-3-11
 GE PJ- and PR-types 31-1-33
 Navy-to-civilian, prewar 30-3-31
 12xx- and 16xx-Series *35-2-22
 55xx-series *34-2-14
 Phillips-to-American 21-3-7
 Van Horne types 25-2-34, *35-2-10, 40-4-34
 Experimental, 1A7-EXP, 1P5-EXP, 6K5-EXP 32-4-36
 Fake Audions and Fleming Valves 12-1-20, 12-2-8, 18-1-10, 26-4-6, 28-3-36, 38-2-9
 Fetsch collection @R8-110
 Filaments, series, early AC sets 16-4-19
 Filaments rated by current 16-4-18
 Fundamentals, 1922 view *15-1-31
 GE ceramic types @38-4-49

General (Tyne/McMurdo Silver) *20-2-24
 Goddard oscillator @R7-151
 Houskeeper metal-glass seal *23-2-16
 Iconoscope
 Zworykin and @46-2-45
 Early (pic) FS4-4-2
 Image orthicon
 Early (pic) FS-4-4-2
 Development by RCA 32-4-15
 JAN types 10-2-15
 Japanese receiving types, "All-Japanese Five" *41-2-36
 Lamps
 Construction, early *4-4-8, *5-2-10, 31-3-19
 Collecting early @31-3-17
 Edison replica 17-3-13, 17-4-5
 Long-lived (595,000 hr.) 17-4-3
 TVI from 25-1-15
 Magic Eye *24-4-30
 Magnetron
 Cavity 31-2-26, *R9-192
 German LMS-series @35-1-38
 Split-anode*FS5-3-3 (& *33-2-45), *FS6-1-2, *R9-184
 Western Elec. @R7-47, @R11-110
 Makers and distributors
 Bootleg 7-4-14, 10-3-17
 British, and brands*22-3-20, *15-1-26, @40-1-12
 U. S., 1926 *6-1-19
 Mercury-vapor rectifiers *FS4-4-3
 Metal
 Development@16-4-12, @17-1-5, 17-2-11
 Identifying 17-1-21
 Original series w/ 6D529-3-42, *32-4-11
 Production statistics 23-1-35
 Metal-glass, old and newer @44-1-26
 Miniature, intro. of *42-2-49
 Negatron *35-4-8
 Non-receiving*FS4-3-2, *FS4-4-3, *FS5-1-3, *FS5-2-3, *FS5-3-3,* FS6-1-2
 Numbering systems
 Receiving tubes @26-1-16
 Semiconductors, early Japanese 32-4-36
 Special-purpose tubes *31-3-20
 Nuvistor story, the @38-3-26
 "Odes" and "Trons," glossary *22-4-22
 "Odes, An Ode to" (poem) 33-1-3
 Pencil tubes *46-1-20 + 46-2-59
 Photographing @32-3-8, *FS2-2-2
 Project Tinkertoy *38-2-53
 Rare, and why they're rare @R8-47
 Ratings
 215A, VT-1, VT-2, Myers RAC, SE-890, SE-1444, TM, WE "D"/201A,"G"/211A, "J"/203A 14-4-23
 Kellogg, De Forest DV/DL, Perryman*29-1-15
 Rebuilders, in '20s 7-4-14, 10-3-17
 Rejuvenation, oxide-cathode and thoriated types *14-3-20
 Rejuvenation, thoriated types *19-4-22
 Rejuvenator, unique 31-2-25

Restoration of *31-2-25
 R1155 receiver, tubes in *32-2-36
 Sales, 1960-75 17-1-23
 Sales, surplus, in '30s 7-3-20, 13-3-11
 Salvage schedules, RCA *44-2-34
 "Second" quality 28-2-25
 Shipping 31-4-3, 32-1-23, 32-2-31
 "So many types, why?" @45-1-47
 Sources of early
 CeCo and MRL 15-4-31
 Hytron Hudson 13-2-15
 "Special Red," RCA @41-2-63
 Spray-shield types *32-2-15
 Stock, building up a *31-3-31, 31-4-37
 "Tests N. O. S." 46-3-44
 Thyratron FS5-1-3
 "Tree" of tube development *13-2-18
 "Three hardy tubes" 32-4-13
 Tube-test labels, collecting *32-1-30
 "Tubes RCA didn't tell you about" (14, 15, 17, 64, 69, etc.) *34-4-43, 35-1-60
 Tune-A-Lite/Tonebeam/Tuneon*30-4-17, 31-1-33, *31-4-27
 Tungar *FS5-1-3
 UV-199, history of @39-4-29
 Vacuum tube, first use of term 9-4-7
 Vacuum tube, "the immortal" *25-1-8
 Values 16-2-22
 van der Bijl and the vac. tube @30-2-34
 Vidicon, early history *23-4-10
 Vidicon, for moon landing *35-4-14
 VT-numbered, and early Army radar*30-3-26
 Wehnelt cathode *23-3-19
 WW II priority certificate 28-2-11
 100-mA AC-DC series 41-4-41
 100-kW, Soviet and U. S. 31-4-27
BY MAKER/TYPE
 Amperex DX-334 Neutron *26-3-30
 Amrad S 16-1-20, FS3-3-2, *FS5-2-4
 Annaka Detectron *31-4-22, *32-4-8
 Apco Twin 16-1-18, 41-1-43
 Arcturus *9-1-6, 9-3-3, *10-1-22, 10-2-18
 AudioTron, CunninghamFS1-4-1 7-3-12, *27-2-18
 AWA Australian Types @R6-125
 AWA AV11 *34-4-41
 Bendix/Eclipse types *29-2-22
 Buchhold integrating accelerometer 26-4-24
 Canadian Westinghouse WD-12, WD-25, WX-25 FS3-1-1, FS3-4-1
 CeCo A through H FS2-3-2
 CeCo P-1 *FS5-2-2
 Collins C-100 *R7-152
 Cosmos lamps 24-2-23
 Cossor Wuncell (British) 9-1-2
 Cossor A.T.50 FS6-1-3
 Crosley Deflectron 31-3-48, 41-1-44
 Cunningham and RCA, common pro-duction 14-2-15, 17-2-11, *39-2-58
 De Forest
 Audion*4-1-4, 4-2-7, 7-4-23, *8-4-20, *23-4-32, 33-3-26
 "Return of the" *44-2-66

"Bootleg".....*R8-50
E. I. Co. catalog page.....*7-3-13
Grid, invention of the.....*4-2-4, *31-3-9
"An early chapter" (Espenschied)@31-1-12
Hudson filament in.....14-1-17, 16-4-18
Operation (1911).....6-4-3, 7-4-23
Operation with magnet.....14-1-17
Powered illicitly by ship's auxiliary battery
9-4-14
Replica.....*21-4-21
Spherical - detail variants14-1-16, *33-3-
26
Laboratory Oscillation.....*29-3-15
Oscillation.....1-4-3, (pix) R8-110
PO Oscillation.....34-3-30
Rarity and values.....*27-1-25
CF-122, -185, -187.....*R7-112
CF-185, rebased.....FS5-2-1
DL-DV Series2-1-7, 4-1-7, *13-4-19, @23-
4-12, 24-2-23
DV-6/20.....FS1-1-1, FS1-2-1, FS2-4-1
DV-6A, CF-185, VT-21 (pix).....FS3-3-3
H.....
*15-3-19
401 to 471.....FS1-2-2
511.....19-1-29
Delta Triode (pic).....FS5-4-1
Donle-Bristol B6, B8, DA2, DP71 (also see
Sodion).....FS3-1-2
Ediswan VT.1.A.REF.....29-1-8
Eimac 33CA2, 5CA2, CD-19, CD-22*38-2-53
Eimac X159 Family.....*42-1-24
Electrad Diode.....14-2-15, 18-1-27
Pic.....5-4-1
Electron Audio Detector (Audiotron)*FS1-4-1
Emerson (Cleartron) Multi-Valve14-3-18, *15-1-
7, 41-1-42
Expanse B.....6-3-13, *8-2-13, @R6-125
Fleming Valve2-1-1, 4-3-12, 10-3-20, 25-1-34,
*R9-48, 39-4-35
G & R Valve Co.....@35-3-42
General Electric
CG-886 (Type G pliotron).....*25-2-32
CG-1787.....FS4-2-1
FH-11.....FS6-1-4
Kenopliotron.....*31-3-7
Kenotrons & pliotrons.....5-1-12
P.J. and PR-types.....31-1-33
PR-1-C.....*FS4-1-3 (+ *33-2-44)
UV-217 (ad).....37-1-9
Heintz & Kaufman
Gammatron.....@R10-195
4E27/8001/5-125B.....*34-1-40
55, 155, 255.....@R7-156
255.....@30-2-19, @32-4-14
Huth PLAV.9.....8-4-7
Kellogg/McCullough 401-40316-3-15, 29-1-8,
*FS4-2-3
Lewis & Kaufman 3DX3.....26-3-31
Loewe
Substitutes for.....32-2-23
Whole Line.....29-4-28
2HF, 3NFW.....32-2-21
3NF.....8-1-5, 8-2-18, 8-3-6,17-1-24,
26-1-13, @32-2-21, 33-1-24
RNF7.....32-2-21
LRS (Lieben-Reisz-Strauss) Relay16-1-25, *20-
3-15, @R5-45, @R8-46
Lumion.....@37-3-47
Majestic spray-shield types.....*32-2-15
Magnatron DE112.....40-4-35
Magnavox.....41-1-43
Marconi
M.T.3.....*FS6-1-2
Type D.....*R8-49
VT.....*33-4-19
V24 and DEQ.....*32-4-9
McCullough AC.....@R15-156
Metal (WW I).....18-4-13
Moorhead
/De Forest... FS1-1-1, FS1-2-1, *33-4-19
Electron Relay variant.....FS5-3-1
External-grid tube.....FS3-2-1
and the Electron Relay@29-3-12 + @29-
4-14
Myers RAC-3 Audion10-3-21, 18-4-13, FS5-3-
1
National Union Corp.....17-1-24
Negatron.....10-1-13
Nelson Multi-Valve.....9-1-2
Northern Electric, '20s.....@R13-30
Nutron.....40-4-35
O & T OT-2, -3, -4.....7-4-14
Peerless (1925).....*25-3-32
Pentodes - Early.....*16-3-26
Philips
A410.....FS3-1-1
E242N.....33-1-24
American equivalents.....21-3-7
Australian types.....@R6-125
Early.....19-10
Numbering code, pre-1935.....11-4-22
Peerless and Star.....*25-3-32
QRS.....40-4-36
Replicas (A410, etc.).....35-2-66
Receiving lamp.....17-4-44
Star 306 (1925).....FS3-1-1, *25-3-32
Pickard "Golden Audion"3-1-10, FS3-3-1 (33-
2-39)
Pingon Detector....11-1-14, 24-3-25, 41-1-43
PRO/COM 6973, re-etched, pinout variance46-
3-67, 46-4-56
QRS.....9-4-2, 10-2-15, 15-1-15
Quadratron.....*14-4-23, 41-1-43
Radio Products triode, rectifier.....*23-2-6
Radio Scientific Lab. RSL-14.....FS6-1-1
Raytheon
Four-pillar.....*23-3-21
Substitutes (BA, CK-1006).....8-1-19
RMA releases, 1933-50.....*FS5-4-3
B, BA, BR.....2-1-3, *21-1-10
BA (pix).....FS3-3-2, FS5-2-2
BH.....2-1-3
RCA
Beam-deflection mixers.....*34-1-38
and Cunningham14-2-15, 17-2-11, *39-2-
58
Dates, UV-UX types
Introduction.....*FS1-4-3
Production.....6-3-7
Factory code, 20s.....*FS2-1-2
Lancaster plant.....*32-4-15
Make-vs.-buy at.....*41-3-64, #41-4-39
and miniature tube.....42-2-49
Pin numbering, early big-pin.....42-1-25
Private-brand markings.....46-3-44
Radiotrons (WD-11 to UX-886)....8-3-19
"Special Red" types.....@41-2-63
Vidicon development.....32-4-15
RSC-850.....*43-3-34
UX-240.....*FS4-1-3
UX-288.....FS5-2-2
6D5, and metal line...*32-4-11, 33-1-40
6SJ7, "special black".....46-3-44
807, alternate numbers for.....32-3-39
810.....32-3-1
825 (Haeff)*FS3-2-3 (& *33-2-38), *FS 3-
3-4 (& *33-2-38)
833.....*32-4-7
861.....*33-1-14
953-959.....42-3-21
1600-series, rediscovered.....@40-2-43
1669/1672/1680/1684/1692.....*39-1-57
1800-, 1900-, 2000-series, rediscovered
*40-1-52
5690, 5691, 5692, 5693.....*41-2-63
6806.....23-1-34
6949.....20-4-36, 21-1-19
Rectobulb.....3-3-2
Righi diode detector.....22-4-29
Rogers R30, R32.....FS5-1-1
Rogers 15, R-100, R-200, AC-20, AC-30,
AC-32.....@R15-160
Roome Oscilaudion.....FS2-1-4
Round Valves (C, N, CA, LT, TFHC3F, FE1,
ERECT).....*R8-51
Royal Ediswan Fleming Oscillation Valve10-3-
20
Russian, Czarist.....*24-1-30, *34-2-1
Schickerling.....*27-1-20, 41-1-43
Schickerling Z-50 (pic).....FS3-3-2
SN-856-F.....26-4-24
Siemens-Halske tant. lamps.....25-1-15
Sodion (also see Donle)6-4-8, 15-1-9, 19-2-
10, 19-3-19, *FS3-4-2, 40-4-34
Sociedad Anonima Industrial Radiotelefonica
Argentina, types by.....40-4-60
Sparton (Arcturus?), blue 486.....17-3-23
Speed Triple-Twin (291, 293, 295).*15-4-12
STC, Australian types.....@R6-125
Telefunken
Arcotron.....*35-1-24
Numbering system.....16-2-11
Replicas: "R", RE-11, RE-7126-3-31, 35-
2-66
RE 1, RE 26, RE 38.....FS3-1-2
Thorpe/Unidyne/Solodyne K4.....FS4-3-1
TM (Telegraphie Militaire).....14-2-15
Tungar, full-wave.....3-3-2
Tverskaia No. 777.....*24-1-30, *34-2-1
Unidyne/Thorpe K4.....FS4-3-1
Universal Wireless transmitting tubeFS5-1-1,
FS5-2-1, FS5-4-1
UV-196.....15-2-17, 16-2-11
UV-204.....19-3-19, *25-1-30
Designed by committee?.....*22-1-30
Made without base.....9-3-5
UV-207.....32-1-3
UV/UX-210
History.....17-4-10, 18-4-13
VT-25 as substitute.....15-1-15
Amateur's favorite.....*28-1-32
UV-212.....15-1-15
UV-862/F-862A.....29-4-3
From NSS.....*13-3-24
From WLW.....4-2-1
As linear amplifier.....@R8-149
UV-877.....*26-2-33
UX-112/WL-112.....FS4-3-1
UX-121.....FS6-1-1

UX-200/200A.....	11-3-11, 18-2-9	Pix.....	FS5-4-1	300B, tube mfg. at WE.....	@R4-45
UX-201AA.....	FS5-1-1	Western Electric/Northern Electric		300B, replica.....	35-2-66
UX-201A		Classification.....	21-1-29	310A, in submarine repeater.....	R18-57
Brands of*27-3-24, 28-1-33, *28-4-34, 30-4-30, *32-3-34, *FS5-4-4, 35-1-24, 35-2-22, @36-2-46, 40-2-18		CRT, Tyne developmental.....	*31-3-15	416B.....	*29-1-32, *30-1-19
Collecting.....	4-1-7, 9-1-9, 21-3-24	D-spec types.....	*31-3-29, 31-4-27	444A & 463A.....	*31-3-14
Dating by detail variations.....	10-4-4	Discontinued types.....	16-4-33	700-Series.....	@*R7-47
Variants ('20s).....	*FS2-4-2	Early radio, in.....	@R11-110	S.....	FS4-2-1
Prices up.....	8-1-10	Identifying and dating.....	@R5-109	ST-bulb variants.....	*43-1-23
Substitutes for, general.....	33-3-38	"Interesting and historic types"@R4-110,		Westinghouse	
Substitute for, 6AB4.....	10-4-4	31-1-35		Aeriotron WD-11, WR-21, WB-800*14-2-22, 35-1-9	
UX-221.....	13-3-25, FS6-1-1	Letter designations.....	*14-1-18, 15-2-10	Early dev. at.....	*9-4-18, 10-1-10
UX-222.....	19-10	Long life in repeaters.....	14-4-27	Experimental triodes.....	FS3-2-2
UY-227s, weak, as detectors.....	14-4-19	Manufacturing.....	16-2-31, @R4-45	Quad triode.....	*28-2-19, FS5-1-1
UX-274.....	9-8-8	Nonuse by other makers.....	17-1-24	UV-201 (4 V, 0.8 A).....	17-2-11, FS1-2-1
UX-859 (pic).....	R7-171	Ratings - 10x, 2xx, 3xx Types.....	15-2-10, *29-4-17	WL-530.....	9-1-2, 9-16
UX-874.....	*24-2-16	VT-1, -2, -3 (pix).....	FS4-1-2	WL-787.....	*FS1-3-1 (& *33-2-42)
Vaic Valves.....	35-2-66	VT-1/203A2-2-2, 11-1-14, 11-2-19, 13-3-11, 18-2-9, *41-4-61		White Valve.....	18-2-21, 18-4-23
Van Horne, whole line.....	@35-2-8, 35-2-72	VT-1, yellow tip.....	20-1-19	Wireless Specialty Co. "Golden Audion"3-1-10, FS3-3-1 (& 33-2-39)	
Equivalentents.....	25-2-34	VT-2/CW-931.11-1-14, 11-2-19, *41-4-61		Wunderlich	
VT90 (710A).....	@R7-66	VT-2 and VT-5, source for.....	5-4-4	General.....	11-2-16, 14-1-16, 17-3-23
VT-128 (1630).....	*30-3-25, *37-1-46	102A/D/E.....	FS3-1-2	Arcturus.....	21-4-20
VT-158 (Zahl).....	*17-1-9	201A vs. 201B.....	18-2-24	Non-Arcturus.....	18-1-28
WD-11		201B (D).....	FS4-2-2	Variations, four.....	22-2-15
Developmental models.....	*29-20	201A, 203A, 203B (pix).....	FS4-1-2	29 and 69 versions.....	17-2-14, 17-3-23
Pricing and replication.....	17-4-44	215A.....	4-3-11	OZ4 37-4-29	
Substitutes for.....	13-4-25, 16-4-19	Colored tips.....	21-2-23	3KP4, replacing.....	17-4-45, 29-3-41
Weagant Valve ("Dollar Detector" or "Relay Audion").....	13-3-11	216A, substituting 101D.....	17-1-24	12B7 metal-locat.....	*37-4-33, 492-19
Welsh diode.....	2-3-2, 14-2-15, 18-1-27	216A, 217A, 221D (pix).....	FS3-3-3	7233, in "inverted" circuit.....	*44-3-44
		230D.....	FS4-2-2		

RECEIVERS - BROADCAST - CRYSTAL

(Also see "Parts - Detectors")

Airophone.....	3-1-4	DX crystal set, designing a.....	@44-4-47	Nora.....	33-1-22
British, Registration Nos.	@34-1-13	Federal Junior.....	14-2-21	Postcard, Czech.....	33-1-23
Can. Marconi 139 (pic).....	26-2-FC, 6	Headsets branded like xtal sets.....	34-2-24	Quaker Oats.....	*22-4-19
Can. Marconi 138, 139 (pic).....	R14-123	Heathkit CR-1.....	31-2-41	Radioleake.....	R18-115
Crown GR-10 germanium (pic).....	34-4-72	Kilbourne & Clark.....	8-4-1, 9-4-8	Radio Devices Model K.....	35-4-11
Crosley Harko.....	R16-11	Kodel S-1.....	R17-39	Scyrad.....	16-3-6
Crosley Model 1.....	R16-17	Meccano.....	14-1-7	Thomson-Houston (British).....	22-2-25
Crosley Junior.....	R16-24	"Midget".....	28-3-15	Vocaphon Baby.....	*30-2-18
Crystal radios in Vienna, '50s.....	43-3-23	Miller 565 hi-fi tuner.....	*37-4-17	WSA Radiola AA-1381.....	*17-3-9 & *33-2-1
Ducretet, 1922.....	33-1-23	Mystery (vertical).....	17-1-28	"18 Crystal Sets" (MRL).....	34-1-12

RECEIVERS - BROADCAST - TRANSISTOR

GENERAL		Emerson 856.....	*36-3-27	IEI Capacitors in.....	34-4-45
Books on.....	*34-4-44, 35-1-30	Emerson 888.....	34-3-45	History, evolution, census, bibliography, and private-brand versions.....	@R17-1
British vs. American, '30s (R).....	*46-1-59	Transtimer version.....	*36-1-19	Regency TR-1G, 4.....	*R17-20
Condition scale, Video.....	34-2-40	Fleetwood NTR-66G "Globe".....	31-2-41	Ross Compact.....	28-1-24
"Core collectibles".....	@34-3-44	GE P765A rechargeable.....	*30-3-34	Saxton wrist radio A-990.....	28-2-13
Deterioration of cases.....	34-3-46	Global (pic).....	33-4-25	Sonora TR-282-B.....	*36-2-36
"First".....	43-3-4	Hallicrafters TR88.....	29-1-39	Sony TR55.....	34-3-45
"Mature at last".....	*33-4-24	In eyeglasses frame.....	27-4-36, 28-2-30	Sony TR63.....	*30-2-31, 34-3-45
Values, price guides, video.....	*34-1-44	Lloyds TR-800.....	*38-1-40	Standard Micronic Ruby.....	28-2-13
SPECIFIC MODELS		Magnavox AW-100.....	*30-4-22	Toshiba 3TP-315.....	37-2-13
Admiral 7L12 solar-powered.....	*28-4-15	Mantola M-4D.....	R17-22	Toshiba 5TR-193 "Lace".....	34-3-45
Arrow IC-5000 mini.....	28-1-24	Mitchell 1101.....	*30-1-18	Trancel TR-80.....	*36-1-10
Arvin 9574-P.....	29-35	Mitchell 1101-03.....	R-1722	TravLer TR-282-B.....	*36-2-36
Automatic SAC-2 radio/Geiger counter.....	37-1-9	NEC NT61.....	38-3-45	Truetone DC3902.....	*36-2-36
Bell Labs 1951 superhet prototype.....	@34-4-16, (pic) 43-1-1	Olympic 447.....	*31-1-36	Zenith	
Buick 1958 "Trans-Portable".....	*29-4-29	Philco T-9.....	*32-4-40	Royal 500 H-8.....	*29-3-24
pic.....	33-4-25	RCA developmental.....	@36-2-51	Royal 950.....	*35-3-16
Bulova 250.....	*30-1-18	RCA Victor RZD311, RZG28, RZG354, RZS321.....	*36-1-8	Royal (all models).....	*32-1-38, 34-3-45
Channel Master 6506.....	*31-3-41	Regency TR-1 (Mitchell 1101)*30-1-18, 34-3-44, (pic) 33-4-24		Trans-Oceanic, repair data.....	34-4-48
DeWald K-701 "Catalin".....	*32-3-38				

RECEIVERS - BROADCAST - TUBE

GENERAL

- AC sets, early, series htrs. 16-4-19
AC supply, Lowell and Dunmore patents@R3-61
AC-DC receiver, the*41-2-58, 41-4-41
Armstrong prototype superhet.....*34-2-36
Audio amplifiers, history.....@R7-91
Audio amplifiers, theater.....@37-4-36
Auto radios, early*18-2-10 @37-3-13 + @37-4-29
Bakelite cabinets, design, manufacture, typical sets.....R14-178
Bandpass tuners, 4-gang, sets using11-4-3, 12-1-4, 12-2-18
Battery superhets, early*30-2-22
British, 1922-50, slide show.....21-3-30
Catalin, general.....*34-2-25
Classification system for.....7-3-14
Consoles.....*26-2-18
Dating, by CONELRAD marks 30-4-15
"Dynes" and "Flexes"..... 13-1-20
First ten years, the@16-3-16
Hot-chassis sets.....*31-1-31, *31-3-38
Identifying, hints on*30-4-15, 35-1-72
Infradyne adapter.....*21-4-16, *30-4-16
Italian "People's Receivers".....@R7-1
"Keg" sets..... 33-3-3
Midget*25-1-32
Modified*34-1-23
"Mystery"..... 31-1-9
Novelty.....*25-2-14
Plastics - history in radios & restoration@34-2-10
Radio(s) in the '30s.....@24-3-8
"Radio as it used to be" (1927, 1934)*41-4-57
Small receivers, building.....*34-3-51
Solid-state operation.....*15-1-10, 16-1-17
Superhet
 "Who invented the?".....@R6-97
 "Mystery"..... 20-2-5
 Superhet, notes on the..... 20-4-23
TRF, of the '20s.....*24-2-12
Underground, Dutch9-5, 26-4-39
- BY MAKER OR BRAND**
- Acme Reflex, restoration..... 8-2-20
Adams-Morgan Paragon
 Three..... 21-1-32
 Four.....*11-1-6, 11-2-15
 RA-10..... 14-2-2, 14-4-19
 RA-10 w/ 10-R and DA-2 (pic).37-2-17
 Whole line@23-4-7, @24-1-6
Adey Portable 4*34-2-23
Arcon Junior.....*36-3-32
Arkay A-12 amplifier.....*34-3-43
Atwater Kent
 AC-powered@R3-6, @R12-140
 Ad, last (1937)..... 12-1-24
 Breadboard solid-stated.....*15-1-10
 as time receiver.....*8-2-1
 2- and 3-tube 7-3-17
 Dates, Models 5 to 50 *14-1-30, 14-2-9
 Early models@R1-83, @R12-9
 Listing: Models 5 to 52.....*7-3-19
 Metal and mahogany box models@R2-71, @R12-84
 "Millionth"..... 13-2-20, 13-3-30
 Service setup, 1930.....30-4-27
 Store display panel.....*30-4-1
 Whole product line.....@R12-9
 5, schematic25-2-28
 5A 6-3-1, 6-4-14, 7-2-8, 46-4-56
 20, "not guaranteed" mark23-4-29
 20, restoration46-4-36
 37, Deco paint.....*21-4-29, 24-2-13
 40, restoring.....*32-3-18
 40, vs. Radiola 17 / Philco 51*38-2-48
 55 family21-2-23
 228.....*37-2-1, 37-2-5
 545.....*31-4-33
BBC monitor, for Norwegian Resistance*39-3-62, 39-4-22
B-battery eliminators
Dubilier 800, wiring change..... 16-2-11
Kodel@R17-53
Majestic*16-3-32
Philco AB-460..... 15-1-29
Willard, restoration 8-4-12
Boston Scale receiver..... 8-4-16
Browning-Drake*8-3-10
Brunswick radio-phono (Radiola III) *27-2-33
Burndept Ethophone Grand (pic).....15-4-5
Bush & Lane, restoration@36-1-30, *36-2-34, 36-3-42, 36-4-50, 37-1-20, 37-2-21, 37-3-33
Cardwell Torodyne22-3-10
Canadian GE JK53.....*34-3-16
 '20s sets from GE and .W.....@R17-121
Canadian Marconi
 1921-31 line..... R14-133
 "C" Set (SE, ST1, VD1, AA1, PA1)@34-3-22, 34-4-29, R14-122
 55A amp..... R14-122
 Marconiphone models.....@R14-132
Canadian .W., '20s sets from GE and U. S. .W.....@R17-121
CGE Radio Balilla*R7-5
Chelsea Model 102..... 10-2-10
Clapp-Eastham "Baby Emerson"..... 15-1-3
Clarion 400, restoration*31-2-39
Clarion 85, restoration*34-2-8
Clearcut cathedral - restoration.....24-4-13
Clifton Instruments amp.....*44-4-38
Cockaday four-circuit.....*26-1-8
Coto-Coil Symphonic*27-3-14
Courier, whole line..... R18-109
CRL Paragon, restoration.....*20-4-6
Crosley
 Ad, 1925*7-4-24
 Early models.....@R16-15
 Everyhome (pic)..... 14-3-8
 Harko Sr..... R16-15
 Pup*12-4-23, 33-4-50, 45-2-57
 Bibliography on..... 45-2-58
 Super Buddy Boy.....25-4-16
 Triirdyn 20-2-28, *36-2-20
 V (circuit).....*13-4-15
 Whole line ('20s).....@34-1-17
 3B23-1-24
 50 portable.....*25-3-36
 53, 54, and 57, diagrams..... 13-2-22
 609 and 610, diagrams..... 17-4-12
 628, restoring.....*34-1-21
De Forest
 D-10..... 14-1-32
 D-17 20-1-29
 W-6 18-3-5
Decor, Ltd. keg set.....*33-4-46
De Forest-Crosley..... 9-3-13, 9-4-17
Dolores De Luxe..... 9-4-8
Ducretet Mural..... 24-2-19
Dynergy..... 5-1-12, @28-1-10
Echophone 50, info req..... 43-4-6
Emerson
 BA-201, restoration.....*44-1-49
 BB-209, replicating*32-2-40
 60, restoration 37-3-33
 540A..... 25-1-33
 Fada Neutrodyne..... 19-26
 Fada 460S, restoration@29-10
Federal
 59 and 61..... 14-4-11, 14-1, 21-2-22
 Red Jacket RDA-2.....*30-1-22
 Two-stage audio amplifier..... 14-2-21
Firth, John, 230A, restoration.....*17-4-19
Fisher 80AZ amplifier (pic)..... R7-102
Flex-O-Dyne 26-2-8
Freshman Masterpiece..... 13-3-14, 13-4-22
Girard ("two-tube heaven").36-3-34, 37-2-21
Gloritone 26, restoration..... 40-2-72
General Electric M-81*32-2-39
Giblin Model RL*30-4-9
Grant, W. W., whole line.....@33-3-16
Grebe
 Synchrophase 12-4-9
 List of types..... 9-4-4
 CR-9, 13, 14, 18 - diagrams...*14-1-28
Grimes Inverse Duplex..... 15-4-13
Halsion Diamond 5-3-12
Hammarlund Hi-Q 29@27-4-14
Haynes DX@28-4-19
Heathkit K-2, building the.....*33-4-35
Hoag N-4, N-5.....@19-3-12
Howard 525 45-1-29
Imperial cathedral, identifying maker 35-1-72
Infradyne..... 2-1-2
Japan-American Radio Co..... 15-1-17
Kadette 1019 "10"-tube (5-tube).....*28-3-16
Kennedy
 110, diagram & instructions.....*8-4-15
 281 and 581..... 10-4-3
 One-tube portable..... 17-2-23
Kodel, whole line@R17-39
Kolster, restoration.....*36-1-23
Leutz
 C-Series, gen'l and rest'n.....*37-4-43
 C-7 (Radio Parts Co. ad)..... 37-2-27
 Transoceanic (ad)..... 9-1-20
 Golden 10-3-4
 Silver Ghost (pic)..... 14-3-7
Lodge "N" with Multivalve 15-1-7
Loewe
 EB100, 2H3N, RO43332-2-21, OE333
 *8-1-5, 8-2-18, *28-4-36, 33-1-23
Magnavox TRF-5 19-3-23
Magnavox Mod. D, restoration*20-1-30
Majestic
 Model 59.....*32-2-14
 Model 71, reviving.....*35-1-33
 Promotion coin box 24-3-13
 "That was" 38-4-64
Marconiphone V2 (pic)..... 14-3-8

Marlodyne.....	*30-4-10	68, 37-4-32	Silver-Marshall 782, odd trouble.....	36-2-34
Marti AC Set, ca. 1927.....	17-1-5	RCA / RCA Victor / Radiola	Smith-Halstead radio-phonograph.....	26-4-9
McIntosh		Aeriola/Radiola Grand.....	Solodyne-Cowper "batteryless".....	9-4-15
20-watt amplifier (pic).....	R7-103	'20s sets from GE and <u>W</u>	Sparton 5-15, restoring.....	41-3-44
C-104 preamp, restoration.....	*44-2-73	B-411, restoration.....	Sparton 69, restoring.....	42-4-12
MC-30 amplifier (pic).....	R7-104	Product line, 1922.....	Stacy, John F. reflex.....	9-2-7
McMurdo Silver Masterpiece VI.....	35-4-66	Product code.....	Steinite ("unident.") one-tube.....	43-1-49, 43-2-5
Melodyne, restoration.....	*19-11	Release dates, receivers.....	Stenode Radiostat.....	*12-2-23 (& *33-2-17)
Mercury		Superhets, early.....	Stromberg-Carlson 1-A, 633, 641 (pix).....	7-4-19
Super Ten.....	*26-3-18, @35-4-10	Victor Electrola 45, rest'n.....	Supertone Superhet.....	*17-3-19
Super Power Ten.....	*35-4-11	AA-1381, WSA.....	Super Ant. Co. R2-A3 "Super".....	*35-1-35
Mantel set.....	*35-4-11	AR-812.....	Telefunken 9W & 40W.....	33-1-24
Metrodyne, restoration.....	*19-1-26	AR-1300/AA-1400 (Rad. V).....	Tinkerer's radio.....	@39-4-47
Midwest.....	12-2-20	III, IIIA.....	Thordarson 175K-30 amp (pic).....	R7-102
Mopar 800, restoration.....	*31-2-33	III	Tuska Superdyne.....	14-1-3
Motorola 48L11.....	25-1-33	With UX-199 & UX-120.....	Unda Radiorurale.....	*R7-3
Motorola 5J2, restoration.....	37-1-19	With UX-199 or 30.....	Victoreen Universal 8.....	11-4-26
Nora Pc.....	*39-57	With transistors.....	Volksempfänger.....	@25-2-8, *R14-190
Northern Electric, '20s.....	@R13-7	in Brunswick radio-phonograph.....	Warwick 630.....	*44-2-53
Norden-Hauck Imp. Super-10.....	12-3-9	Canadian.....	WE 10A Loudspeaking Tel. (with 7A Amp)	
Operadio portable.....	*32-1-29	Circuit.....	*17-3-18	
Philco		IV, circuit.....	Western Electric	
Cathedrals, restoration.....	15-1-23	V, ad.....	25-Type Amp.....	*39-3-25
Date code.....	*30-4-15	IX (AR-1395).....	34A amp.....	*42-2-29
"Mystery control" (116RX).....	*44-4-51	BP-10.....	43A amplifier (pic).....	*R7-90
A-801 (C1908).....	*31-2-33, 31-4-34	9Y7, restoration of.....	91A amplifier (diagram).....	37-4-37
AB-460.....	31-2-10	17 & 18.....	Westinghouse	
C1908, restoration.....	*31-2-33, 31-4-34	17, vs. AK 40 and Philco 51.....	Aeriola Senior	
17, restoration.....	*29-1-10	20.....	Catalog entry.....	14-2-23
51, vs. AK 40 & Radiola 17.....	*38-2-48	24, Prototype.....	(Pic).....	22-2-29
70, "modernized".....	*35-2-44	25.....	Restoration.....	12-4-19 (& 33-2-36)
96.....	26-4-39	28X5, "autobiography".....	RA-DA (pic).....	34-3-20
116RX.....	44-4-51	41, restoring.....	RC.....	*26-2-30
37-60, restoration.....	*30-4-12, 31-2-47	64.....	RC, Aeriola Sr./Jr.....	*10-1-12
38-12, restoration.....	*32-1-40	4760 (New Zealand), rest'n.....	WR-120, restoration.....	44-3-21
41-788 Tropic.....	31-3-32, 31-4-38	Red Jacket RDA-2.....	WR-315.....	45-1-31
48-214, recreation.....	*33-1-35	Rogers batteryless, history@R15-147; (reprint)	W2XR high-fidelity.....	*26-1-14
53-562, restoration.....	*34-4-47	@36-4-33	Zenith	
Philips		Rogers Commander, Jubilee, 90, 100, 110,	"Cage" loop, reconstructing.....	*36-2-15, 36-3-
Monoknob.....	*31-4-10	120, 250, 480.....	3, 37-2-21	
2515.....	33-1-24	Rogers 200.....	Portable, 1924 - restoring.....	*23-3-34
5926 amplifier (pic).....	R7-102	"Rundradiomottagningsapparat" (Finnish).....	Product code, to 1948.....	30-4-15
Pilot (1929-30), photo.....	22-1-13	Shindo Laboratory amp (pic).....	Product code, post-1949.....	32-2-37
Plate-glass		St. James superhet.....	Transoceanic.....	*17-2-12, *28-4-44
Dolores De Luxe.....	9-4-10	Scott	Service data on.....	34-4-48
Millen.....	12-2-3	General6-4-17, *7-1-12, (& *33-2-18), 7-2-	Top-of-the-Line 1928 Models.....	8-1-14
Radio Receptor.....	15-3-8	2, 8-4-6, @R11-7	4V31, conversion to AC power@38-2-43,	38-3-10
St. James.....	9-3, 9-3-11	Morale Receivers, WW II (SLR-12, SLR-	8A02 chassis.....	*31-1-34
Unknown.....	4-4-2	M, Export).....	17.....	8-1-3
Quad II amplifier (pic).....	R7-104	SLR-M.....	H-845 AM-FM.....	28-1-34
Radio Engineering Labs 517.....	44-3-48	Repair info on.....	6S229 - restoration.....	*30-4-14
Radio Receptor superhet15-3-8, (pic).....	*37-2-	Silvertone 1670, restoration.....		

RECEIVERS - COMMUNICATIONS AND SHORT-WAVE - GENERAL USE

U. S.		"A great".....	Skyrider 23.....	*30-4-29
Airport receiver, "mystery".....	@46-2-63	Circuits for CR-9, 13, 14, 18.....	Skyrider TRF.....	13-3-25
"All-Star Junior".....	*46-4-33	Listing, CR-1 to CR-14.....	Listing: S-1 to S-41.....	*8-4-17
"All-Star Senior".....	*32-2-42, 32-3-17	Hallcrafters	Hammarlund	
Breting 14.....	@35-4-26	CR-3000.....	Comet All-Wave - circuit.....	12-3-5
Crosley LoWave converter. 20-3-14, 21-2-12		DD-1 diversity.....	Comet Pro.....	12-3-25, @25-4-10
Echophone EC-1.....	*44-1-38	S-1.....	HQ-129X.....	*44-2-32
Restoration.....	*33-3-42	SX-23.....	Heathkit GR-81.....	*38-2-51
"Explore".....	41-3-8	SX-28.....	Howard 437.....	*46-3-46
GCR-5 (SE-1420).....	23-1-23	In FCC use.....	Howard 438.....	*45-3-24
GE AR-1496.....	*30-1-36, 30-2-37	S-29.....	K-L-K regenerative.....	@36-3-22
GE XR-1A.....	*44-4-58	S-38.....	Lafayette HE-10/KT-200.....	31-1-29
Grebe		S-39.....	Lafayette 56-MHz kit.....	32-4-27
CR-3A.....	20-1-29	S-41.....	Langevin 3-A control panel.....	*35-4-53
CR-18.....	*16-4-17, *36-1-11	SX-43.....	Low-loss tuner.....	*25-4-14

Mackay 104-B.....	14-1-23	NC-45.....	43-1-17	AR-1496.....	*30-1-36
Mackay 138-B.....	*39-4-45	NC-46.....	43-1-17	AR-8505.....	43-1-16
McMurdo Silver		Restoring a.....	*31-1-29, *40-3-31	ACR-175.....	*37-3-23
5C.....	@27-1-22	NC-57.....	@36-2-11	RMCA AR-8504.....	*35-1-28
Ham Super.....	35-1-27, 35-2-21	NC-81X.....	43-1-16, @43-2-17	RME RME-69.....	@45-1-16
Meissner 10-1116, restoration*43-2-67 + *43-3-61		NC-100, rest'n.....	*41-4-11, 42-1-37	Regen plug-in-coil, history.....	*14-4-16
Millen DFP-201, -501.....	*23-1-8	NC-200.....	*34-4-31	Reinartz.....	1-4-2, 9-4-16, 15-1-32, *16-4-34
National		NC-300, restoration.....	@36-1-16	REL No. 193.....	@34-2-33
AC-DC.....	*43-1-16	RHP/RHQ.....	@37-1-11	Sargent Model 11.....	@26-4-20
Addendum to Moore <u>Communications</u>		RPW-3.....	*41-1-20	Scott Special.....	8-4-6, @33-4-8, *R11-7
<u>Receivers</u>	@37-3-28	SW-3		Selective voltmeter, as VLF-MF receiver@46-3-22	
AGS.....	*16-4-25, @28-2-14	Basics12-2-7, *15-3-7, 34-3-39, @44-4-28, *45-1-56		Selectosphere.....	*32-3-32
AGS and AGSX.....	*R17-145	Restoration.....	@44-4-54	Silver-Marshall "Round-the-World Four"*19-4-10, @26-1-10	
AGS-58C assembly.....	@28-3-12	As preselector.....	*23-2-7, *23-4-34	Stoddart NM-40 and similar.....	@34-2-47
AGS-HRO hybrid.....	9-4-12	SW-5 Thrill-Box.....	15-1-13, 34-3-39	Western Electric	
Desk-mounted station.....	*41-2-55	SW-54.....	*29-4-21	2A.....	*23-4-30
FB-7.....	@26-2-14, @26-3-34	SW-54, repairing.....	*42-2-54	3B recreated.....	*37-2-48
HRO		Power units		4B.....	7-1-7, *11-3-1, 11-4-5
American Airlines variant.....	*34-4-33	For early models.....	11-2-7	4D.....	18-3-8
Autobio of an elderly.....	*40-2-15	Whole line.....	@34-1-25	4D recreated.....	*37-1-44
British Army, in the.....	*32-4-21	697, restoring.....	*44-3-58	9-type aircraft*29-46, @29-4-18, 30-1-29	
Developmental model.....	26-1-33	Sliding-coil-tray models*28-4-20, *29-1-20, @R11-167		Westinghouse SW relay.....	*18-4-18
Early.....	@24-1-11	Six-pin coils for.....	@34-3-38	3CDQ portable - 1927.....	6-4-18
Early, dating the.....	28-1-16, @R4-32	Pilot Super Wasp.....	*11-3-16, 12-1-23	FOREIGN	
Evolution of whole line, table of models, identification hints, and use in WW II @R17-145		Pilot Wasp.....	11-4-24, 12-1-23, *30-4-32	Can. Marconi MSL-5.....	10-1-13
Fire-damaged.....	*42-4-38	QST 1936 simplified superhet, building@37-2-54		HRO, foreign versions of	
Restoring@38-3-35, @24-3-12, *25-1-14		QST 2-band 5-tube s'het.....	*45-2-35	AWA ACR-100/101.....	*35-2-38
-W, Signal Corps.....	*44-3-42	Restoration.....	*45-2-46	AWA AMR-101.....	R17-195
-5A, "An HRO Story".....	@32-2-44	Raco R-S-R & Super-Clipper.....	@33-1-26	AWA Reception Set No. 8.....	35-2-38
-7.....	@42-2-27	RCA		AWA SC-CD-412-44.....	*35-2-38
-50, 60.....	*R17-180	AR-57.....	27-4-40	Collier & Beale 941.....	R17-196
-500.....	*32-3-15, R17-184	AR-60.....	*29-3-27, 29-4-42, *37-1-56	Kingsley K-CR-11.....	35-2-38
-600.....	*32-4-24	In intercept station (pic).....	R15-35	Japanese.....	35-2-38
NC-44, restoration.....	@43-1-24	AR-88.....	18-1-35, @32-1-11	MCR-1 (Br.).....	*31-4-16
				Pic.....	R15-82

RECEIVERS - COMMUNICATIONS - MILITARY/NAVAL

U. S.		Navy electronics directory.....	@R8-123	SE-1950 radio compass.....	*28-4-14
AN/ARR-1 and -2.....	38-4-12	NESCO, general.....	@R8-117	SE-2301/2302.....	36-2-63
AN/ARR-6.....	33-1-13	R-140.....	R17-175	SLR-12.....	*33-4-15
AN/SRR-3.....	*33-4-16	R-1051/URR.....	42-4-33	SLR-M.....	*33-4-17
ARB.....	@31-2-43, 31-2-53, @32-1-18	RAK-RAL.....	*30-3-24	TCS.....	*30-3-15
BC-SCR-RC directory.....	@R-6-49	RAS.....	*31-3-33, *R17-171	VLF, tabulation.....	@19-3-13 (& @33-2-19)
BC-13A (SCR-67A).....	5-1-3	RAW.....	R17-174	FOREIGN	
BC-14A/SCR-546-1-3, 6-2-12, 11-1-8, 11-2-19, 12-4-15, *33-1-6		RBA, RBB (pic).....	R15-41	EKB (East German).....	34-3-11
BC-54.....	6-1-3	RBG (pic).....	R15-64	Funk Peil (direction finder) 2C.....	26-1-37
BC-131.....	4-4-6	RBJR17-173		G6 35-1-42	
BC-224/348.....	@27-2-14, @27-3-20	RBO.....	*33-4-14	1F607 (Italian) (pic).....	R15-50
BC-348 in B-17 (pic).....	*35-3-1	Digital tuning for.....	*46-6-44	KV-M (Soviet) (pic).....	R15-47
BC-312/314/342 family.....	@27-4-20	RBT-2 (National 1-10) (pic).....	R15-54	Mark III (British).....	*16-1-12
BC-1206.....	37-4-29	RCK.....	*33-4-15	Model 92 (Japanese).....	R15-60, 61
CF-122A control unit8-2-14, 22-3-19, 22-3-29		RDG.....	*32-2-46	Model 99 (Japanese).....	*39-1-24
CGR-25A (pic).....	R15-33	RE *.....	36-2-63	NE-18Z (Japanese).....	R15-62
CM-294 (Am. Marconi).....	13-3-13, R9-80	REE.....	*33-4-16	R-140 M (Japanese).....	*40-4-8
CN-113A (Nat. Elec. Supply).....	*34-1-16	RU *38-3-42, 38-4-13		R-311, R-313M, R-326 (USSR).....	@34-3-11
CN-239 (Nat. Elec. Supply).....	2-4-8, 10-4-5	SCR-54.....	See BC-14A	R1155, & T1154 xmtr (Brit). . .	@31-4-11, *32-1-24, 32-2-36, 34-2-52, 34-2-67
Coast Guard, unident. regen.....	41-1-14	SCR-54 to -72, Listing.....	6-4-9	R1545 (British).....	*33-1-9
de Forest, WW I.....	12-4-21	SCR-206 (pic).....	R15-43	Reception Set No. 8 (Aust).....	*35-2-38
DAG, DAQ DF sets.....	R13-102	SE-95A.....	4-1-3, 4-3-9, 4-3-11	RF2 (Italian) (pic).....	R15-50
DT-3A.....	*33-1-7	SE-143 (IP-500).....	12-3-15, 12-4-3, 37-2-36	SC-CD-412-44 (Aust.).....	*35-2-38
General.....	26-2-19	SE-899 (National Elec. Supply).....	4-2-6	Torn E. b (German) (pic).....	R15-78
HRO-W, Signal Corps.....	*44-3-42	SE-1000.....	37-2-36	Type 97 (Japanese).....	R15-62
LSR-101 (pic).....	R15-33	SE-1012A.....	21-3-29		
Military equivalents of civilian.....	*32-1-14	SE-1071.....	37-2-36		
		SE-1420 (IP-501).....	@22-3-14		

RECEIVERS - TELEVISION

GENERAL

Collecting, getting started@27-3-16
 CBS color wheel, from Apollo 10-3-12
 Color wheels of the '50s *33-4-22
 Color, 51 years of 46-2-61
 Farnsworth's contributions ..@R1-43, 46-2-49
 Philco '30s dev., "elusive frame of history"
 @R4-99
 TV serviceman, adventures of*42-2-34 + 42-
 3-25

DISC / MECHANICAL

GE "Octagon" disc *30-1-12
 Re-creation@43-2-60
 Jenkins Radiovisor...13-1-26, 17-2-31, 39-40
 Mechanical - mirror-screw, vibratory, Mihaly-
 Traub, Scopphony.....@34-3-6
 Scanning disc
 General *26-2-12, *29-36
 Nipkow@17-4-14, 33-4-50
 Tuning a 1930 *20-3-20

SEE-ALL disc *43-3-33
 TAC Telescor46-1-12
TUBE
 Admiral 21F1, run w/ oldie tubes7-3-14
 Andrea KTE-5, restoration.....@40-1-51
 DuMont
 RA-119A9-3-9, *30-3-38, 30-4-39
 18036-4-17
 Echophone 41@41-4-29, 42-1-26
 GE HM-22636-4-17
 GE TC chassis, repairing *33-4-43
 HMV 904, circuits and restoration *44-1-31 +
 @44-2-25
 Hallicrafters 50513-2-20
 Meissner kit36-4-17
 Restoration of@40-2-36
 National TV-7W13-2-21
 Philco
 First postwar? *40-1-50
 "Mystery control" as first wireless remote

*44-4-51
 Predicta, Seventeener, Safari @35-2-29
 Predicta *28-4-32, @35-2-29
 Safari *45-2-24
 "Slender 17er"@35-2-29
 Pilot TV-37 3" *28-1-20, *35-3-25
 Pre-WW II, restoring *42-4-51
 RCA
 TRK-124-4-5, *16-1-3, *41-2-48
 TT-5, restoring 42-4-51
 62136-4-18
 63022-4-34, *25-3-14, 36-4-18
 Scratch-built *31-4-28, 32-2-31
 Set-top boxes *45-1-35
 Stromberg-Carlson 112 (pic) 7-4-18
TRANSISTOR
 Epson *30-4-35
 Philco Safari *35-2-33
 Sinclair *30-4-35
 Sony 5-303, 8-301 *36-4-18

RECEIVERS - WIRELESS

Annaka crystal receiver *25-1-10
 Arnold, J. F., 1913 *20-3-19, 21-1-13
 Ballsie System@R13-47
 Cabinet Audion (1913) 4-4-9
 Can. Marconi 8-mineral xtal 5-4-12
 Clapp-Eastham
 Dual detector28-1-19
 "Cambridge Giant" coupler *33-1-8
 191311-2-19
 Type D *27-4-17
 Clark4-4-7
 de Forest
 Audiophone amp.*5-4-8 (& 33-2-46), 6-1-
 2, *8-4-19
 PN detector19-4-14
 RJ control boxes
 RJ-4 *8-4-18, 9-4-12, 27-3-19
 RJ-4 Mystery, The Mono. 1
 RJ-5 8-4-18
 RJ-911-3-20, 15-1-20
 List - all types11-4-19
 Portable29-20
 De Forest (?) testbed *32-3-11
 Regenerative receiver (pic)14-3-9
 Tuner and Syntonizer detector (pic) 14-3-
 7
 Unit Panel...11-4-19, *16-4-31, *31-1-21
 Direction finders
 Adcock *R13-101
 Bellini-Tosi *R13-99

Marconi *25-2-24, R9-55
 Dunlap, Orrin home-made, restoration@36-1-
 27
 Eaton Circuit Driver, Type D21-4-23, 22-2-21
 Electro Importing Interstate16-2-20
 Loose coupler
 Duck loose-coupler set, restoration *43-4-
 34
 Sir Oliver Lodge and the@39-3-16
 Vertical2-4-3
 Radio Apparatus Co. vertical2-4-12
 Marconi
 16, 31R9-60
 101 R9-68, *37-2-18 102, R9-71
 10313-1-14, *R9-69
 104 (pic)37-4-67
 10510-1-10
 1061-4-6, 13-1-16, R9-75
 Restoration *23-2-21
 110R9-76
 112R9-77
 122R9-79
 Coherer receiver13-3-29
 Fleming-valve receiverR9-50
 Multiple tuner2-2-3, 4-1-1, R9-46
 Type 843 crystal setR9-89
 Type D tuner (pic)4-1-3, R9-64
 Universal crystalR9-59
 1901 transatlantic13-2-1
 Mignon

General4-4-9, 21-3-30, 22-1-33
 RLC-210-4-17, *28-1-23
 RLC-4S *31-2-19
 RLC-515-3-26
 RW-4R18-112
 Whole Line@R3-79
 "Undamp" (Radio News, 2-21)7-1-17
 Omnigraph Audion breadboard5-1-12
 Pacific Wireless Specialties13-4-25
 RCA RD-1 *24-3-11
 Telefunken coherer RX35-2-49
 Telefunken crystal RX3-2-2
 Time-of-day receivers
 Bowman32-2-33
 Tissot *34-1-7
 General Electric *34-1-10
 United Wireless, general@11-4-11
 United Wireless Type E Tuner12-3-15
 Wallace Valve Detector8-1-2
 Weagant 3-loop anti-static *28-3-19
 Wireless Specialty Apparatus
 IP- (1P)-types9-13, 17-1-14
 IP-76 (1P) series4-1-6, *7-2-13, 7-2-15, 9-
 13, @R18-27
 IP- (1P)-777-2-14
 IP-500 (SE-143)9-4-24
 IP-501 (SE-1420)9-4-24, @22-3-14, *R18-
 44
 IP-500 and -501, cat. page *9-4-20
 Model 2158-3-6

REPLICAS, RECREATIONS, AND NEW-OLD-DESIGNS

"All-Japanese Five" receiver41-2-36
 Amplifier, audio
 w/ submin. tubes *42-2-38
 w/ 300B tube *37-4-36
 Audions *6-1-4, 6-4-6
 Battery, 22-½ V11-1-5
 Cathedral sets (solid-state)
 GE 4100-J *29-3-39
 Philco "Baby Grand"13-4-18

Thomas, Welbilt *29-1-25
 Thomas29-39
 Cigar-box radio *31-3-35
 Coils, basket-weave23-3-33
 Coupler
 Clapp-Eastham24-3-15
 Loose8-4-11
 Loose, Greenwood7-1-18
 Crystal sets

Carborundum *19-1-21
 Designing a modern *23-2-19
 Full-wave detector26-4-38
 Lyonodyne *20-1-10
 Oversize14-4-9
 "Radio Boys"26-2-21
 Ramsey Electronics kit35-4-5
 Short-wave tuners *29-14, *33-3-43
 Slide-coil8-4-11

Tunnel-diode	*23-1-32	Harkness Reflex	*19-4-21	(W2ETT)	6-4-7
160-meter CW	*19-4-26	Infradyne, E. M. Sargent's	*21-4-16	202 (W2BJI)	13-2-2
Detectors		Interpanel	*40-3-18	202 spark-coil (IDH circuit)	*17-2-20
Armstrong regenerative	23-3-22, @41-1-22, *41-2-50	Loop-antenna regen	*46-1-15	203 (W2AN)	*5-1-1, *6-4-6
Carbon-needle	22-4-15	Loose-coupler, Douglas	16-3-15, *32-4-16	203, 3-tube xtal-controlled	*15-4-29
de Forest		Second version/Rochester display	*35-1-11	210	
D-101	*12-3-16	Lyons Model T one-tube	*18-3-13	160-Meter	*27-3-32
RJ-4	11-1-9, *31-1-16	"Radiola 18" superhet	*45-3-29	W1FPZ TGTP	@33-4-37
RJ-5	12-1-11	Samson T-C	*25-1-24	W2HBE	*26-1-34
RJ-9	15-1-20	Sargent 11 "Iron Sarge"	@30-2-27	W2HIN	*29-4-22
Liquid barretter	@46-2-37 + *46-3-65	Small, building	*34-3-51	W2LV	12-1-3
Magnetic	@46-2-22	Type 30, re-constructing	*34-1-32	W2TKG	*35-3-45
Screen-grid regen	*41-3-18	"Ultimate TRF"	@44-1-58	WB2MVK	*32-3-28
Superregen	*42-4-48 + *43-1-27 + *43-2-35 + 43-3-7	Unidyne 1-A (Australian)	25-1-35	W3HWT	*23-3-12
Infradyne adapter	*30-4-16	Victor two-tube, 1933	*31-2-17	K4JO	16-4-11
Oscillators, VHF, old-time	*34-2-50	Zenith, new "old"	*32-4-38	W6SAI TNT	14-1-19
Panel, shielded	28-1-41	1938, recreating	*34-2-27	K8IKO	6-4-8
Receivers, amateur		Resistors, variable, making	*26-3-46	W9GFS	5-3-3
ARRL Handbook, '35	*46-3-25	Spark coil	11-1-5	245 TNT, VE3BDV	15-2-23
Direct-detection, "1928"	16-3-22	Stations, amateur		W5DPM	16-4-11
Regenerative		Murdock	6-1-18	311B	*35-1-47
2-tube	*14-2-19	75-year-old	*30-2-38	807 50th-anniversary	*29-1-13
3-tube	*29-1-34, 29-3-28	1929-era	*34-1-35, @42-3-33 + @43-1-29	1937-50 final	24-4-20
'30s TRF-regen	*45-1-37	+ 43-2-4 + @43-2-41, 42-4-7		809, 1936-39	*22-3-31
Late-'30s	@35-2-40	Superhets		1921 "5-watt radiophone"	*37-3-51
"SW-3-inspired"	*45-4-46	Battery	*30-2-22	1921 RAC	@43-3-27
SW-3, w/ submin tubes	*46-3-19, *46-4-38	Best's 45-kHz	*20-4-22	1922 MOPA	*41-1-38
38		Some four-tube	*25-4-8	1928	11-3-11
Weagant	*14-1-20	Sweep generator, AM IF	*34-1-49	1929 40-m	@46-3-28, *46-4-26
1923	25-2-35	Television scanners	*29-3-6	1929 TNT and Hartley	38-3-39, *39-3-30
1920s low-loss tuner	*25-4-14	Transmitters, arc	*15-2-25, 16-2-32	1929, OT Contest Rig	@40-3-28
1920-22	24-3-23	Transmitters, spark		1929, MOPA	@42-3-33 + @43-1-29 + 43-2-4
1929@26-3-22, *35-3-47, (R)*36-2-28, @43-2-41		1913	26-3-43	1934 (ZL2JJ)	*29-1-18
1929 superhet	@43-1-56, @46-1-30	Rotary gap	@26-1-30	1934	*20-3-10
1930	*25-3-24	Spark-coil	11-1-5	MT16s (W1DM, 1 kW)	7-1-7, *14-2-6
1934 single-signal	*28-1-14	W6AX	2-2-2, 7-2-6	MOPA revisited, the	@38-2-26
1935	*35-3-45	Transmitters, tube		MOPA, "20s" xtal-controld	*41-3-28
1937 3-tube	*25-4-23	AM, adding to vintage	*46-1-37	Neutralize - whether to	7-1-20
Receivers, general		AM broadcast, "Part 15"	*45-1-32	Old-time - general	*6-4-6
Adams, Robert, series	*45-2-51	"Collage of ideas"	@44-2-40	TPTG, 1930	*40-2-54
Audio-freq., for whistlers, etc	46-2-29	Hartley	*32-3-28	Tuner	
Audion	6-3-7, *28-1-35	MOPA adapter	*46-2-34	Tuning, how to (R)	*41-1-32
Breadboard, 3-"Audion"	*45-2-48 + *45-4-16	6CK4 "early 1920s"	*40-4-42	Marconi Type D	*22-4-14, R9-64
Browning-Drake	*21-3-23, 40-4-53	6L6		Reinartz	*22-2-16
Doughnut Five	*20-2-22	"Minimax"	@31-2-7	United Wireless	
Emerson CR-261	*36-1-14	Ollietron	*29-4-4, 29-3-28	Type C	11-1-7
"Europe on one tube"	*33-3-23	One-tube	26-4-38	Type D	*37-1-68, 37-2-34
Fada Neutrodyne	*24-1-16, *26-2-20	160-meter	@37-4-40, *38-1-13	VFO, '30s	@43-4-36
French 1925	25-4-13	6V6, OT Contest (W1YG)	@34-4-57	Vintage ckts w/ modern parts	*37-2-33
Grunow, "second-generation"	*30-1-21	117L7	*38-1-41	"When is a set not a repro?"	*21-1-21, 21-2-22
		42 (1933)	26-2-38		
		45 (pic)	41-1-4		
		199s (W2IK)	5-2-7, 6-1-15		

RESTORATION TECHNIQUES

AC sets		Breadboards	@R12-312	25	
General	*17-4-12	Breadboards, replica	9-13	Sweeping AM IF	*34-1-49
Preventing burnout	14-4-19, 23-1-33, *24-1-24, 29-1-28, 43-2-34	Design defects	*40-3-16	Troubles found	45-1-29
AC voltage, reducing	37-4-44, 38-1-49	Metal parts, refinishing	11-4-27 (& 33-2-35), 12-1-20 (& 33-2-35)	Antenna, IRE standard dummy	39-35
AC-DC sets		Power units	*32-3-18, @41-2-28, 42-1-47	Bakelite parts, finish on	29-2-29, *29-3-28, *29-4-42
General	@31-2-34, 31-3-38, *41-2-58, 41-4-41	Tuning bands, fixing	10-2-18 (& 33-2-36), 20-4-30 (& 33-2-36), 22-3-29, 23-4-29 (& 33-2-36)	Baseboards, plywood, avoid	17-4-45
Hum reduction in	*24-2-30	Alignment		Bass, insufficient, fixing (bad previous repair)	44-4-53
Restoring when tubes unknown	42-1-49	Aids	*39-30	Batteries	
Adhesive from tape, removing	28-2-18	Indicator, constructing	38-3-24	Making a 45-V	*32-2-9
Aeriola instruction cards, repro	14-4-19	Superheterodynes	@32-4-43, 34-2-20, 37-2-	Rebuilding	16-4-32, *32-2-7
Atwater Kent				Simple A and B supply	32-2-9

Using 9-V as "B".....	13-4-17		
Battery eliminators			
ABox and Fansteel wet "A"	19-3-26		
Antique Electronic Supply.....	26-4-3		
Fuge.....	4-1-9		
Hum in	24-1-25		
Use with regen. receivers.....	25-2-35		
Schneider.....	19-27, 22-1-33, 23-4-24		
Simple "B".....	*32-2-8		
Universal.....	*23-4-18, *40-4-32		
Using off-the-shelf parts.....	*30-3-32		
Whitlock 6-V	12-3-15		
1.5-volt "A"	23-1-33		
5-volt "A".....	*19-3-16		
Bias, basics of.....	*39-4-43		
Bus-bar wire, making tinned.....	7-4-15		
Bus-bar wire, sources.....	10-4-4, 16-2-27		
Cabinets			
AC-DC sets, rear covers.....	21-3-25, 29-3-40		
Bakelite.....	41-3-43		
Refinishing, avoidance of.....	23-3-32		
Refinishing.....	31-2-12		
Water rings on wood.....	27-2-29		
Veneer, salvaging-patching	25-1-35		
Capacitors			
AC line-bypass.....	38-4-27		
Bathtub, restoring	*35-1-53		
Checker-reformer.....	*20-2-30		
Defect in BC-348.....	28-1-41		
Electrolytic			
Avoiding under-voltage operation.....	15-4-25, 16-1-22		
Filter, inexpensive.....	32-2-31		
Rejuvenating.....	19-16, *31-2-10, *28-3-40, *37-3-35		
Mershon, restoring.....	7-4-20, 13-2-2, 15-1-23, 35-1-48		
Mica, defective.....	34-2-18, 37-4-32, 37-4-45, 38-3-22, 42-1-47, *43-4-33		
Paper and film.....	@35-2-24		
Philco block-type.....	15-1-23, *38-1-46		
Replacing and use.....	*35-1-48, 42-1-35		
Restoring	33-1-32		
Shorted	29-2-29		
Shorted/leaky, finding.....	21-3-25, 35-1-52, 44-1-24		
Testing with digital meter.....	35-2-50		
Tubular bypass, replacing.....	27-3-38		
Tuning			
Corroded wipers.....	40-3-17		
National PW/NPW.....	*33-1-33, 35-3-17, @36-4-8		
Steel wool in	38-4-27		
Ultrasonic cleaning	42-4-12		
Catwhiskers, replicating	13-1-25		
Choke, filter, solid-state replacement.....	*45-2-14		
Circle cutter (Brookstone).....	22-1-21		
Circuit restoration - high-impedance power supply method	*30-4-18		
Cleaning			
AK breadboards.....	10-4-4		
Aluminum.....	27-4-37, 34-3-46, 34-4-62		
Brass.....	21-1-30, 35-2-47		
Cabinets.....	16-4-32, 29-1-17, 34-2-17, 39-4-46		
Capacitors, tuning.....	21-4-19		
Chasses, by washing	38-1-47		
General.....	17-4-46, 19-1-8, 21-3-25, 37-2-22		
Grille cloth.....	34-2-18, 34-2-44		
Knobs and cabinet parts, caution.....	45-5-14,		
46-1-14			
Metal cases	18-2-17		
Metal parts, w/o accidental plating.....	35-1-52		
Mold for knobs	30-4-20		
Panels	9-8		
Speaker airgaps.....	42-4-12		
Tubes	18-2-17, 34-2-18		
Tube-socket contacts.....	10-3-15, 34-2-18		
Ultrasonic, of small parts.....	*16-4-6		
Volume controls.....	29-1-39, 35-2-47		
With mechanic's hand cream.....	13-1-25		
Coils			
Fixing missing turns.....	26-4-32		
Fixing open.....	*33-4-45		
Forms, plug-in, making.....	42-1-47		
Forms, plug-in, repro	42-3-14		
Replacing paper wrap.....	34-2-20		
Color codes			
Battery leads.....	23-2-22, 24-3-33		
Dial lamps.....	23-2-22		
Line-cord resistors.....	23-2-22		
Resistors and capacitors	25-2-22		
Resistors, Atwater Kent.....	43-3-44		
Transformer leads	24-3-33		
Components, identifying	41-4-31		
Connectors, replicating	*35-4-7		
Cords			
Dial, fishline for	25-1-35		
Dial, replacing.....	*25-3-31		
Headphone, source.....	17-3-28		
Power, cloth-covered	22-2-24		
Decals, replacing.....	30-1-16		
Decals, Magnavox, source for	16-3-21		
Detector, crystal, Radiola I & V.....	22-2-24		
Dials			
Aeriola replacement.....	9-4-19		
Belts, Zenith, replacing.....	34-2-17		
Black finish on brass.....	*9-3-14, 10-3-5		
Enamel.....	21-3-25		
Glass, source for round.....	18-2-21		
Kennedy, restoring.....	9-1-16, 10-3-5		
National PW, backlash	21-1-30		
On AC sets, refinishing.....	17-4-46		
Plastic, warped, fixing.....	44-4-57		
Restrings.....	37-2-22		
Restoration service	9-14, 11-4-27		
Rubber drive replacement.....	13-4-17		
Windows, plastic, replica	34-2-20		
Discs, glass, for meters.....	17-2-24		
Electrodes, ball, for spark gaps.....	16-2-19		
Field coil, solid-state replacement.....	*45-2-14		
Fuses, stocking/using.....	*37-2-52		
Fuses, random failure.....	44-1-24		
Gears, for S-C receivers	4-3-8, 20-1-14		
Graybar sets, repair info on.....	32-3-40		
Grid leaks, Aeriola, repairing.....	*12-4-19 (& 33-2-36)		
Grid leaks, repairing.....	27-4-37		
Grille cloth			
Avoiding too-new look.....	*33-4-44		
Avoiding sags.....	35-1-52		
Ground lugs, open	37-3-33		
Horn speakers			
Celluloid, fixing.....	14-3-24, 34-2-20		
New drivers.....	15-4-14, 23-4-29		
Regluing jig.....	*29-43		
Repairing.....	15-4-14		
Hum, reducing			
in early AC sets	@37-1-48		
in Radiola 41 speaker.....	*31-4-32		
Hum-bucking coils, phasing.....	44-2-47		
Jacks, for switching in rcvrs	*24-1-22		
Knobs			
Plastic, casting.....	*16-3-14 (& *33-2-41), 16-4-32		
For telegraph keys.....	13-4-22, 15-2-5		
Tight setscrews on	19-4-16 (& 33-2-43)		
Line cords, resistor, replacing.....	19-4-16, *42-3-15		
Litz & tinsel wire, soldering.....	20-3-22		
Litz wire, source for.....	21-1-30		
"Long-ago" repairs, correcting.....	*44-2-47		
Lubrication, general.....	37-2-22		
Machined parts, source for.....	16-3-30		
Magazines, fixing.....	*23-3-30, *31-2-20		
Magnets, restoring weak.....	*33-3-39		
Manuals, for comm. receivers	21-4-19		
Marble, cutting.....	*25-2-31		
Meters, panel	30-3-30		
Military eqpt, WW II.....	*30-3-13		
Mold & mildew, removing	32-2-32		
Nameplates.....	16-2-27		
Replica.....	10-1-24		
RJ-9	11-3-20, 11-4-27		
National receivers			
Cleaning parts.....	38-4-37		
Coil tray, removing	41-3-41		
Bypass caps in	35-3-18		
Open wiring in.....	35-3-18		
Restoring power cord.....	38-4-37		
Neutralizing.....	38-1-49		
Noise, fixing intermittent.....	38-3-23		
Paint, matching AK brown	21-4-19		
Paint, hammertone	34-2-18		
Painting steel chasses	34-2-17		
Panels			
Filling engraved markings.....	7-3-10, 14-2-9, 15-2-28, 16-1-22, 17-2-24, 29-4-35		
Filling holes in bakelite.....	*14-3-23, 22-3-29, 43-2-34		
Filling holes in metal.....	20-3-14, 26-3-41, 35-4-48		
Removing scratches.....	13-1-25, 14-2-9, 15-1-23		
Plexiglas in place of bakelite.....	8-4-16, 12-2-18		
Straightening	22-2-24		
Yellowed hard-rubber.....	18-4-14		
Paper, corrosion-inhibiting	16-4-7, 21-1-33		
Parts, casting replica metal.....	*35-2-27		
Parts, sources for replica			
General.....	21-1-33, 21-2-20		
Matson.....	*22-3-19		
Parry.....	*20-4-31		
Streeter.....	19-27		
Parts and supplies, sources for.....	26-1-39, 26-4-33		
Philco design defects.....	*40-2-71		
Philosophy, general.....	41-2-33		
Philmore crystal detector, cover for.....	15-3-12 (*33-2-43)		
Pilot lamps			
Chart.....	*26-2-29, 34-2-17		
Removing	20-2-34		
Replacing.....	34-2-17		
Pilot TV-37 TV set.....	*35-3-25		
Plastic dust covers.....	16-1-22		
Plastics, history & restoration in radios.....	@34-2-10		
Plating parts.....	*17-2-27 (& *33-2-34)		

Plugs, polarizing AC.....	38-4-27	Telegraph relays, repairing.....	15-3-12	34-4-62
Potentiometers, graphite, replica elements.....	12-1-23	Telephone parts, sources for.....	7-3-14	Bases, resoldering.....
Pot metal, freeing shafts in.....	18-4-14	Television receivers.....	*31-2-22	Filaments, rewelding.....
Pot metal, repair.....	13-4-17, 14-1-19, 15-2-28, 16-2-27, 20-2-34, 44-4-53	Later pre-WW II.....	*42-4-51	Grid caps.....
Previous mistakes, finding.....	*39-3-56	Testgear.....	41-2-32	By tapping.....
Pushbutton labels.....	31-2-24	Tips on phone cords.....	20-4-30	Replacing with FETs.....
Radiola 17-18 lamp hoods.....	*30-2-32	Shrink tubing for.....	23-1-33	16-2-22 (& 33-2-37), 22-4-31 (& 33-2-37), 23-1-14
RCA catacombs.....	7-3-9, 9-4-1, 23-1-16	Tools.....	41-2-32	Replacing w/ diodes, caution.....
Testing.....	11-2-17	Transformers, audio		70.7-volt for output.....
RCA Radiola 32, hum in.....	16-3-21	Bypassing open.....	6-1-15 (& 33-2-43), 22-4-31, *29-1-16, 43-3-43	Restoring, gen'l.....
Receivers, communication, in Rider's, Sams, and Supreme.....	*32-1-16, 33-3-34, *34-2-21	Repairing.....	*11-2-23, 11-3-21, 12-3-23, *15-4-30, 29-4-35, *33-4-45	Storing.....
Reference sources.....	*41-1-57	Replacement.....	17-2-24, 17-4-8, 21-2-18, 22-4-23	Substitutes
Regenaformer, resurrecting a.....	*40-1-22	Replacement windings.....	10-3-21	1S4 for 201A, etc.
Resistors, checking/replacing.....	41-2-35	Transistor substitute.....	*22-4-30, 43-3-44, 44-1-23	1R5 or 1LA6 for 1L642-2-65, 42-3-14, 42-4-12
Rewinding service, speakers & headphones	22-3-38	Transformers, IF		For 27, improved.....
RF coupling circuits, outline.....	*23-4-25	Bypassing open.....	38-3-22	For 12xx & 16xx special types.....
RF generator, restoration.....	37-2-21	Leaky.....	*29-3-25, 43-4-34, 45-4-14, 46-1-13	For 55xx special types.....
Rust, removing.....	22-2-24	Transformers, power		For WD-11 (1A5, 1LA4, 1LE3, 1Q5) @44-3-30
Safety		Removing tar.....	10-3-21, 10-4-8, *15-3-23, 33-1-40	Testers and testing.....
Asbestos, avoiding.....	*43-2-38, 43-3-6	Rewinders.....	14-3-17, 14-4-19	29, @36-2-31, 36-3-41, 37-1-19, 37-3-11, 37-4-10, 38-2-18, 38-3-12, @39-1-14
Cadmium hazard.....	39-4-23	Rewinding.....	41-3-43	Transmitting types.....
Headphones.....	35-4-15	Rewinding for 2.5 V.....	29-4-35	*42-2-39, *42-3-66
Line cords and grounds.....	*33-1-31	Saving from junkers.....	28-2-41	Troubles caused by bad.....
Shock hazard, avoiding.....	32-4-36	For tube projects.....	*40-1-34	45-4-14, 46-1-13
Speaker frames, grounding.....	18-2-17, *28-2-31, 34-2-20	With internal fuses.....	46-4-56	Tuning eye, inoperative.....
Test, AC sets.....	32-2-32, 42-1-49	Troubleshooting w/o testgear.....	*46-3-33 +46-4-57	3KP4, sources for.....
Slate, cutting.....	*25-2-31	Tubes		"When is a tube bad?".....
Spaghetti, making.....	15-4-14	Ballast, replacing.....	34-2-19	50B5 vs. 50C5.....
Speaker, cone, restoring.....	*31-2-15	Correct placement in sets.....	35-1-52	Vibration isolators, replacing.....
Speaker cones, mounting.....	23-2-22	Faded numbers, reading.....	16-4-32, 22-1-21, 31-2-25	Volume control, inoperative.....
Speaker cones, replacements.....	21-2-18	Filling hot-branded bases.....	35-1-52	"When is it restored?".....
Speaker leads and plug pins.....	*25-4-38	Pinout variance, trouble from.....	46-3-67	@36-4-47
Stain, custom-mixed.....	31-2-12, *33-1-30	Rejuvenating, thoriated and coated-cathode.....	*14-3-20, 22-1-21, *42-1-60	Windings, open.....
Surge limiter, adding.....	37-2-20	Repairing		18-4-26
Switches, rotary		Bases, cracked brass.....	33-3-38	Wire brush, reactivating.....
Fixing wafers.....	27-4-37, 41-4-63	Bases, gluing.....	18-1-16, 19-3-26, 34-3-29,	34-3-46
Tarnish on.....	21-1-30, 41-4-63			Wood's metal, sources for.....
Switches, toggle.....	32-3-40			26-4-32, 27-2-29
Symbols, old-time schematic.....	21-2-19			Work area.....

REVIEWS - BOOKS

("R": reprint; "O": out of print)

AMATEUR RADIO

Amateur Radio in the Philippines, A History	16-1-14
ARRL Handbook, 1975.....	15-4-31
Calling CQ (O).....	4-4-8
Fifty Years of ARRL.....	7-1-18
Gil (ARRL cartoons).....	27-3-41
Halcyon Days (Australian).....	29-1-42
Magic of Ham Radio.....	21-2-31
Radio Handbook for Amateurs and Experimenters, The (R).....	41-3-52
Spark to Space, From - The Story of Amateur Radio in Canada.....	9-10
World at Their Fingertips, The - The Story of Amateur Radio in Great Britain.....	8-3-13, 9-1-1
York Radio Club - History.....	21-1-35
50th Anniversary of the Amateur Radio Regulations in New Zealand.....	14-1-4
200 Meters and Down (R).....	7-1-8
BIOGRAPHIES - BY SUBJECT	
Alexanderson - Pioneer in American Electrical	

Engineering.....	33-3-59, 34-3-62
Allen, Fred - His Life and His Wit.....	31-1-46
(Armstrong) Man of High Fidelity.....	3-1-4, 7-4-6, 8-3-19, 9-4-11, 10-1-8, 10-2-9, 15-1-8, 21-4-31, 22-1-34, 22-3-32, 23-2-24
Baird	
Baird, John Logie, and Television.....	19-4-32, *39-1-29
Baird, John Logie: A Life.....	44-2-59
Baird's Image, Restoring.....	42-2-61
John Logie Baird, Television Pioneer.....	42-4-27
Television and Me.....	45-4-59
Bell	
Bell, Alexander Graham - The Life and Times of the Man Who Invented The Telephone.....	39-53
Bell, Alexander Graham, and the Conquest of Solitude.....	15-1-14
Genius at Work - Images of A. G. Bell.....	23-2-23
Blumlein, The Life and Times of A. D.....	42-4-28

(E. G. Bowen) Radar Days.....	29-50
Braun, Ferdinand.....	23-1-31
(G. H. Brown) Recollections of a Research Engineer.....	25-3-38
(Clark, George H.) Candid Autocamera Biography, A (with audio CD).....	44-1-33
(Clemons) Wake of the Wirelessman.....	38-1-51
De Forest, Lee, and the Fatherhood of Radio.....	35-1-68
De Forest - Father of the Electronic Revolution.....	42-2-60
Edison	
Edison.....	2-3-16, 4-2-3
Edison: Inventing the Century.....	42-3-30
Edison, Thomas, The Diary of.....	11-4-24
Edison, The Man Who Made the Future.....	18-4-28
Menlo Park Reminiscences.....	3-2-14
Streak of Luck - Life and Legend of Edison.....	20-3-34
Faraday, Michael.....	6-3-8
de Ferranti, S. Z.....	10-4-18

Farnsworth	vents Wireless Telephone: But Was It Radio? Facts and Folklore about Nathan Stubblefield.....43-2-51	Golden Years of Radio, The.....19-4-32
The Distant Vision: Romance and Discovery on an Invisible Frontier.....32-1-47	Tesla	Great Radio Personalities.....29-34
Boy Genius, The, and the Mogul: The Untold Story of Television.....43-3-55	Experiments with Alternate Currents (General).....15-3-25, 41-4-6	Historical Dictionary of American Radio44-1-35
Fessenden, Reginald.....11-3-11	Colorado Springs Notes, 1899-190020-3-35	International Broadcasting, History of34-3-62
Fessenden, Reginald Aubrey - The Cosmic Inventor.....41-2-54	Man Who Invented the 20th Century, The: Nikola Tesla, Forgotten Genius of Electricity43-2-52	KMA Radio - The First 60 Years...33-3-57
Fessenden and Early Radio Science34-3-61	Tesla, Dr. Nikola, Bibliography20-1-5, 21-3-31	Manipulating the Ether - The Power of Broadcast Radio in Thirties America39-3-59
(Friis, H. T.) 75 Years in an Exciting World12-2-7	Tesla, Man Out of Time.22-3-33, 44-2-58	Museum of Broadcast Communications Encyclopedia of Radio.....45-2-25
(Goddard) This High Man.....13-1-28	Tesla, Master of Lightning (video)43-3-54	On the Air - the Encyclopedia of Old Time Radio.....40-1-63
Godfrey, Arthur - The Adventures of An American Broadcaster.....41-1-30	Tesla, Nikola, on His Work with AC Currents.....33-4-58	On the Short Waves 1923-1945 - Broadcast Listening in the Pioneer Days of Radio40-1-57
(Goldmark) My War with CBS.....13-4-16	Prodigal Genius - Life of Nikola Tesla (O)2-3-3	Outlook for Television, The (O).....4-3-5
Heaviside, Oliver: The Life, Work, and Times of an Electrical Genius of the Victorian Age.....45-3-13	Wizard: The Life and Times of Nikola Tesla.....43-2-52	Radio Broadcasting in Middle Tennessee, Early.....13-2-5
Henry, Joseph, The Papers of.....17-4-10	Theremin: Ether Music and Espionage43-3-55	Radio Commentators, Those.....19-10
Herrold, Charles, Inventor of Radio Broadcasting.....44-4-31	Twain, Mark - Science Fiction Writer14-4-22 (Varian Bros.) Inventor and the Pilot, The25-2-23	Radio Programs, 1924-1984 - A Catalog of Over 1800 Shows.....40-2-61
Hertz, The Work of - Signaling Through Space Without Wires.....*28-1-18	Wallace, Don C., W6AM....31-3-6, *32-3-47 (Watson-Watt) Pulse of Radar, The: The Autobiography of Sir Watson-Watt (O)44-3-60	Radio Yesteryear Presents "Themes" Like Old Times (Record).....9-10
(Jensen, Peter) Great Voice, The (O) (R) @39-2-42	Zworykin, Pioneer of Television.....*36-4-21	Rise of Television, The - A Reference Guide38-4-58
(Kent, A. A.) WPI's Forgotten Millionaire19-1-15, 19-3-26	BIOGRAPHIES - MULTIPLE SUBJECTS	Trouble Is Not in Your Set, The....32-2-54
Langmuir, Irving, The Quintessence of44-3-61	Biographies, Inventors (<i>Electronics Digest</i> reprints).....12-1-22	Words at War: World War II Era Radio Drama and the Postwar Broadcasting Industry Blacklist.....44-2-58
Lodge, Sir Oliver, Psychical Res-earcher and Scientist.....*43-3-53	Empire of the Air	WYXIE Wonderland.....22-4-29
Loomis	(book).....32-4-57	CATALOGS
Mahlon Loomis.....15-3-25, 38-3-46	(video).....33-1-47	ALFA, 1976.....17-1-32
Mahlon Loomis, Inventor [sic] of Radio8-1-4, 8-2-14, 8-3-13, 38-1-50	Great Physicists: The Life and Times of Leading Physicists from Galileo to Hawking44-1-34	Allied Radio, 1929 (O).....27-3-40
Marconi	Pioneers of Electrical Communications45-3-14	Antique Electronic Supply24-3-34, 32-4-56, 34-4-69
Epic History of Radio Story of One Man42-1-11	Radio's 100 Men of Science (O)29-39, 29-3-29	Collector's Tubes.....35-1-68
, My Father.....3-2-4, 7-3-12, 7-4-23	Airwaves of New York, The.....39-4-35	Antique Radio Labs.....23-2-65
, My Beloved.....41-3-52	American Broadcasting - Sourcebook of History of Radio and Television.....16-1-14	Audio Classics.....34-1-63
Signor Marconi's Magic Box: The Most Remarkable Invention of the 19th Century and the Amateur Inventor Who Sparked a Revolution.....45-1-45	Australia's Radio Broadcasting, The Dawn of37-1-20	Bampton Books.....23-4-68
Maxim	Behind the Tube: A History of Broadcasting Technology and Business.....31-2-54	Billington Export Ltd. (tubes).....35-1-68
Genius in the Family, A.....11-2-15	Big Broadcast, The - 1920-1950.....13-3-27	Burstein-Applebee, 1965.....15-4-31
Horseless Carriage Days....6-1-9, 11-2-15	Birth of Broadcasting (Britain).....4-2-2	Ducretet 1901-1902 (R).....22-4-24
(Maxwell) Man Who Changed Everything, The: The Life of James Clerk Maxwell46-2-57	Brass Button Broadcasters - A LightHearted Look at 50 Years of Military Broadcasting*33-3-58	Electro Importing Co. (R).....24-3-34
McCandless and the Audion (booklet & audio CD).....45-1-45	BROADCASTING	Electron Tube Enterprises.....35-1-68
Morse	Broadcast Industry, The: An Examination of Major Issues.....16-3-25	Fair Radio Sales.....34-3-62
Lightning Man: the Accursed Life of Samuel F. B. Morse.....45-4-60	Broadcast Stations, List of World....14-4-20	Gilbert Radio Apparatus (R).....37-2-23
Murphy, Frank - "A First Class Job"34-1-63, 34-3-61	Blast from the Past: A Pictorial History of Radio's First 75 Years.....37-4-54	Lindsay's Electrical (/ Technical) Books31-1-46, 42-1-44
(Pupin, Michael) From Immigrant to Inventor (R).....*42-4-29	Broadcasting, Inventing American, 1899-192228-4-47	L-W Book Sales.....34-2-65
(Sacks, Oliver) Uncle Tungsten: Memories of a Chemical Boyhood.....44-1-33	Cincinnati Radio, Early.....14-3-19	New Wireless Pioneers.....32-2-54
Sarnoff	Commercial Broadcasting Pioneer - The WEAf Experiment (O).....13-2-5	Playthings of Past.....37-3-27, 39-3-64
David Sarnoff.....7-1-18	Fireside Politics: Radio and Political Culture in the United States, 1920-1940...42-2-63	Radio Enters the Home (R).....20-2-33
General, The - David Sarnoff & the Rise of the Comm. Industry.....28-2-43	Golden Age of Radio in the Home.27-4-25	Radio Equipment and Supplies (1922) (R)21-3-31
Looking Ahead, The Papers of Sarnoff9-1-13	Golden Age of Radio, More.....32-2-54	Rees, Tudor, Vintage Parts16-1-22, 17-2-24, 18-2-27, 27-4-7
Smith, Kate - Biobibliography.....29-51		"Signal Corps, The".....35-1-68
Stanley, C. O., Radio Man: The Remarkable Rise and Fall of.....43-4-45		Tannenbaum, A. G.....34-1-62, 35-1-68
(Stubblefield, Nathan) Kentucky Farmer In-		Tuska (R).....21-2-31

COLLECTING

- American Crystal Set, The: A Guide to the Brand Name Crystal Sets Made in the USA, 1919-1926..... 41-1-30
- Appraising Audiovisual Media 34-4-68
- Bakelite, Illustrated Guide 35-3-51
- Classic Cones: Pictorial Reference and Value Guide for 1920s Radio Cone Speakers..... 43-2-51
- Classic Plastic Radios of the 1930s and 1940s: A Collector's Guide to Catalin Models..... 31-3-47
- Collecting Old Radios and Crystal Sets*18-2-26
- Collector's Directory (Clubs)..... 19-23
- Collector's Guide to Antique Radios33-3-57, 42-4-29
- Complete Price Guide to Antique Radios, The: Pre-War Consoles 41-4-66
- Complete Price Guide to Antique Radios, The: The Sears Silvertone Catalogs 1930-1942 42-3-28
- Crystal Clear
Vol. I..... 32-2-55, 32-3-46
Vol. II..... 37-4-55
- Crystal Radios, Price Guide on..... 36-2-18
- Donate Less to the IRS 23-1-30
- Evolution of the Radio, Vol. 2 34-4-45
- Fixing Up Nice Old Radios..... 31-3-47
- Flick of the Switch, A..... 15-3-25, 16-1-30
- Guida del Radiocollecionista 33-3-58
- Guide to Old Radios: Pointers, Pictures, and Prices..... 30-3-40
- Heathkit - A Guide to the Amateur Radio Products..... 38-2-57
- Histoire du Tube Electronique - Guide du Collectionneur..... 33-3-59
- Horn Speaker Encyclopedia21-1-31, 27-4-25
- Key Collecting, Introduction to..... 31-4-46
- Kovels' Antiques & Collectibles Price List34-1-61, 37-1-17
- Lawlor's Radio Values..... 32-2-55
- Machine Age to Jet Age III - Radiomania's Guide to Tabletop Radios 1930-196241-2-54
- Made in Japan 34-4-44
- Philips, Collecting Radios Manufactured by24-3-34
- Portable Radio in American Life, The34-4-45
- Radio Finder..... 32-3-46
- Radios of the Baby-Boom Era 34-4-44
- Radio/TV Finder..... 33-3-57
- Price Guide, 1990: Vintage TVs, 1935-1963 and Catalin, Novelty, and Mirror Radios, 1935-1950s..... 31-3-47
- Radio and TV Collector's Guide
Vol. 1..... 29-50, 29-3-41
Vol. 2..... 30-3-40
- Radio Collector (video)..... 31-4-46
- Radio Collector's Direc. & Price Guide
1st ed..... 27-2-7
2nd ed..... 37-1-17
- Radio Collector's Guide 6-2-4, 14-3-19
- Radio, Radio! 26-3-4, 27-2-7
- Radio Horn Speaker Encyclopedia... 30-1-24
Addendum..... *30-2-30
- Radio Tubes and Boxes of the 1920s40-4-64
- Restoration and Preservation of Scientific Apparatus for Collections 28-3-39
- Sinclair Archeology - The Complete Photo-Guide to Collectable Models..... 38-1-50
- Speaker Articles..... 41-1-30
- Telegraph Collector's Guide40-1-63, 40-2-20
- Tickling the Crystal: Domestic British Crystal Sets of the 1920s..... 43-1-63
- Transistor Radios, A Collector's Encyclopedia and Price Guide..... 36-2-54
- Transistor Radios, Collector's Guide to*35-1-30, 35-3-52
- Transmitters, Exciters & Power Amplifiers, 1930-1980 37-3-19
- Vibroplex Collector's Guide..... 31-3-37
- Vintage Radio2-3-1, 12-3-27, 12-4-18, 13-3-28, 14-1-24, 14-2-16
- Vintage Radio (books)15-4-31, 17-1-31, 18-2-25, 20-1-6, 20-3-35, 29-3-42
- Wireless Apparatus Guide 1995..... 36-2-18
- Wireless, Early, A Collector's Guide 22-1-35
- Zenith Radio Locator Index..... 34-4-69
- Zenith Trans-Oceanic - The Royalty of Rad- ios 36-2-19
- CORPORATE HISTORIES**
- Bliley Electric Co., The Early Years 1930-1955..... 23-4-21
- Collins Radio: First 50 Years..... 25-3-38
- Creative Ordeal, The - The Story of the Raytheon Co..... 17-4-11
- Crosley 17-3-20
- David Sarnoff Research Center: RCA Labs to Sarnoff Corp. 42-2-26
- E. H. Scott and John Meck Story, The46-4-59
- Federal Tel. & Tel. Co. 34-3-61, @R8-67
- General Electric Co., The Steinmetz Era18-4-26
- Hacker Radio 35-1-67
- Hallicrafters Story, The, 1933-7529-3-36, 32-2-55, 32-3-46
- Heath Nostalgia..... 34-4-69
- "His Master's Voice" in America (RCA)32-4-57
- Lloyd's of London - An Illustrated History16-2-28
- Los Angeles Radio Manufacturing - The First 20 Years..... 29-4-29, 34-4-68, 40-1-57
Supplement..... 37-4-55
- Marconi Scandal, The..... 6-1-9
- Marconi and His South Wellfleet Wireless10-3-11
- Marconi Company, A History of..... 11-3-11
- Mission: Communications 16-1-21
- Philco Corporation, The..... 23-1-30
- Philco - 1928: Birth of the -- Radio34-3-59
- Philco Radio, 1928-1942... *35-2-64, 35-3-51
- Philips, N. V., Histories..... 23-3-29
- Pye Wireless..... 20-2-32
- Radio Industry, The - The Story of Its De- velopment (O)..... 13-2-5
- Radio Manufacturers of the 1920s
Vol. 1..... *29-1-40
Vol. 2 30-3-40
Vol. 3 32-4-58
- RCA 28-2-43
- Radio Corp. of America: Four Views. 9-14
- Rebel in Radio: The Story of WQXR14-2-16
- Setmakers, The - A History of the [Brit-ish] Radio and Television Industry..... 32-2-55
- Vibroplex Co, Inc., The, 1890 to 199031-4-46
- Wheeler and Hazeltine Corp., Early Days of 23-3-29
- SERVICING INFORMATION**
- All-American Five Radio, The: Understanding and Restoring Transformerless Radios of the 1940s, 50s, and 60s..... 44-4-31
- Antique Radio Rest'n. Guide..... 34-1-61
- Basic Radio Course (O)..... 43-4-46
- Bret's Old Radios Presents: Antique Radio Restoration, Vol. 1: A Step-by-Step Video Guide to Old Radio Repair; Vol. 2: Inter- mediate to Advanced Theory and Trouble- shooting (videos)..... 46-2-56
- Ghirardi Bibliography..... 35-3-66
- Mallory-Yaxley Radio Service En-cyclopedia (O)..... 22-4-25
- Most-Often-Needed Diagrams (R) 15-2-28
- Gernsback "Official" service manuals, whole series..... @R16-135
- Official Radio Service Manual, 1930 (R)17-1-31, 26-1-13, @R16-135
- Radio Diagram Sourcebook..... 38-3-34
- Radio Receiver Repair (O)..... 43-4-46
- Radio Receiver Servicing Guide..... 11-4-24
- Radio Troubleshooter's Handbook (O)44-1-35
- RCA Radiotron manuals @R16-166
- Rider's Manuals..... 17-1-25, @R16-135
- Rider's and Sams' service literature 30-1-16
- Tower's International Transistor Selector16-2-28
- TECHNICAL HISTORY -GENERAL**
- Achievement in Radio - 70 Years of Radio Science at the National Bureau of Stand- ards (O)..... 28-2-44
- Airway Radio Story, The..... 12-1-22
- American Telegraphy & Encyclopedia of the Telegraph (R) 38-3-34
- Arc Lighting and Generators, Early 4-2-3
- Atlantic Telegraph, The (R) 14-2-16
- Audio Recorder, Evolution of the..... 39-1-54
- Auto Radio, The..... 29-1-41
- Behind the Panel - 1920's Radio.... 35-3-52
- Berengaria Exchange, The..... 16-3-25
- Bits of Wireless History10-1-17, 10-2-6, 11-1-12, 12-3-27
- British Radio & TV Pioneers - Patent Bibli- ography 34-4-69
- Canst Thou Send Lightnings? (phono record) 5-1-12
- Cat's Whisker, The - Fifty Years of Wireless Design..... 19-3-27, 21-1-9
- Chemical History of a Candle, The. 43-4-45
- CK722 Classic Germanium Transistor (web site)..... 43-4-46
- Come Quick, Danger - A History of Marine Radio in Canada..... 40-2-58
- Communications: An International History of the Formative Years..... 46-2-56
- Communications-Electronics in the U. S. Navy, History of (O)..... 6-3-8
- Communications Miracle: The Telecommuni- cation Pioneers from Morse to the Infor- mation Superhighway 43-4-47
- Continuous Wave, The: Technology and American Radio, 1900-1932 26-2-10
- Detectors, Early Radio Wave21-4-30, 25-3-38
- Early Days of Radio Broadcasting... 43-4-47
- Early Development of Radio in Canada 1901-1930: An Illustrated History of Can- ada's Radio Pioneers, Broadcast Receivers and Their Products 46-4-59
- Early Electromagnetic Instruments..... 6-1-9
- Early Radio - In Marconi's Footsteps37-3-19
- Electrical Communication, Early6-1-9, 13-2-5

Electronic Genie - The Tangled History of Silicon.....	39-3-58	Radio! Radio! (O).....	44-1-34	Guide to the Dowd Vacuum Tube Collection	38-4-58
Electronics, A History of.....	20-4-35	Radio and Electronics Patents, Index to	37-4-54	Collector's Vacuum Tube Handbook, The,	
Electronics and Sea Power.....	19-3-27	Radio and Television Pioneers - A Patent Bibliography.....	33-3-57	Vol. 1: The Non-RMA Numbered Receiving Tubes.....	42-3-30
Electronics in the West, The First 50 Years 8-4-10, 9-1-13, 9-13		Radio and Wireless, 1905-1928.....	2-3-2	History of GEC and the Marconi-Osram Valve.....	40-2-19
Engineering and Science in the Bell System, A History of:		Radio in Canada, Pictorial History of	17-1-31	Johnson, J. B., and the 224A CRT	44-3-60
The Early Years (1875-1925)	17-4-11, 20-4-35	Radios of Canada.....	45-2-25	McCandless and the Audion (booklet & audio CD).....	45-1-45
(Whole series).....	*30-1-25, 31-2-54	Radio Guidance, On the Early History of (O)	6-1-9	Origins of the Vacuum Tube: An October 1964 Talk by G. F. J. Tyne (booklet-CD)	46-2-57
Evolution of Radio, The: From Faraday to Marconi.....	35-2-65	Radio Manual, The (O).....	*28-3-20	Philips Valves, Illus. History of, to 1935	
Experimental Researches in Electricity (R)	43-4-45	Radio Patent Lists and Index 1830-1980	42-3-30	1st ed.....	20-4-34
Faraday's Experimental Researches in Electricity: Guide to a First Reading	43-4-45	Radio Personalities in Historic Photos	29-3-36	2nd ed.....	37-2-47
Gibson Girl Story, The.....	35-1-67	Railroad Radio.....	38-1-50	Röhrencodierungen der 20er und 30er Jahre	30-1-26
History and Evolution of the Microphone, The	44-4-32	Secret Wars, The.....	21-4-30	Saga of the Vacuum Tube	
Historic Televisions and Video Recorders	34-3-61	Semaphore to Satellite, From	7-1-18, 13-3-27	Radio News version.....	4-3-6
Historical Sketch of Henry's Contribution to the Electromagnetic Telegraph, An	31-1-64	Shadow of the Shield, in the.....	32-4-58	Book version	17-2-19, 17-3-22, 17-4-2, 18-4-28
History of Telegraphy.....	*43-1-63	Signing On - The Birth of Radio in Canada	24-1-36	25-yr. retrospective.....	*43-2-50
History, Theory, and Practice of the Electric Telegraph (R).....	14-2-6	South Wellfleet, Technical History of....	9-14	Triodes in Radar: The Early VHF Era	42-1-6, 42-2-60
History and Evolution of the Microphone, The	41-2-21	Spark to Satellite, From.....	20-1-5	Tube Lore - A Reference for Users and Collectors.....	37-4-54
History of Electronics: Bibliography	14-1-24	Story of the Key and American Telegraph Instrument Makers, 1837-1900, The	36-3-12	Valve Box, The.....	46-4-51
History of Radio to 1926 (O).....	*28-2-12	Syntony and Spark - The Origins of Radio	17-1-31	OTHER	
History of Television, A		Television Race, The Great.....	26-1-29	American Shipwrecks, Encyclopedia of	13-3-26
1880 to 1941.....	29-3-37	Ticking the Crystal 2: Domestic British Crystal Sets of the 1920s.....	45-3-14	Arno Press Reprints*12-2-17, 14-2-16, *15-3-10, *17-3-21	
1942 to 2000.....	45-2-25	Tinfoil to Stereo, From.....	2-1-7, *10-2-16	<u>AWA Review</u> (reviews/promos)	
How to Make a Neutrodyne Receiver (R)	38-4-58	Tube Testers and Classic Electronic Test Gear.....	41-4-41	Tube History in.....	*42-4-56
Invention of Radio (Russian).....	8-4-10	Tower in Babel, A.....	7-3-12, 7-4-7	Vols. 1-5 on CD-ROM.....	42-4-64, 43-3-53
Invention That Changed the World, The: How a Small Group of Radar Pioneers Won the Second World War and Launched a Technical Revolution.....	44-3-60	Tube - The Invention of Television	39-1-54, 39-19	Vol. 1.....	*27-3-6, 27-4-25, 31-4-7, 32-1-6
Inventive Americans, Those.....	12-2-7	U. S. Signal Corps, History of.....	5-1-6	Vol. 2.....	28-2-44, 28-3-39, 32-3-5
Inventors and Their Inventions: A California Legacy	31-2-54	United States Army in WW II - The Technical Services - The Signal Corps (The Emergency); (The Test); (The Outcome)*	33-4-58	Vol. 329-6, *29-4-12, 30-1-18, 31-1-6, 32-1-6	
Japanese Radar and Related Weapons of World War II.....	46-4-59	Victorian Internet, The: The Remarkable Story of the Telegraph and the Nineteenth Century's Online Pioneers.....	45-3-14	Vol. 4.....	29-3-42, 30-4-5, 31-1-6, 32-1-6
Le Radio Popolari ("People's Sets")	34-2-65	When Pirates Ruled the Waves.....	13-4-16	Vol. 5.....	31-3-5, 31-4-8, 32-1-6
Light, In Quest of The; Visible & Invisible (video).....	34-1-61	Wireless: From Marconi's Black-Box to the Audion.....	44-1-34	Vol. 6.....	32-3-5
Lighting a Revolution.....	20-4-34	Wireless Communications in the U. S.: The Early Development of American Radio Operating Companies.....	31-1-45	Vol. 7.....	*33-4-6
Maiden Voyage, The (Titanic).....	10-3-11	Wireless for the Warrior, Vols. 1 and	239-4-36	Vol. 8. 34-4-15, 35-1-69, 35-2-67, 35-3-53	
Manufacture of Wireless Components - Machinery's Industrial Secrets.....	40-2-58	Wireless Radio - A Brief History	38-4-58, 42-3-31	Vol. 9.....	36-4-11
Marconi's Atlantic Leap.....	42-2-63, 42-3-4	Wireless Telegraphy, Principles of (O)	3-2-16	Vol. 10.....	37-3-5, 37-4-39, 38-1-9
Marconi's Battle for Radio.....	38-3-33	Wireless, from the, to the Web.....	42-1-44	Corrections.....	37-4-31, 38-1-11
Naval Radio-Electronics, Evolution of, and Contributions of the Naval Research Laboratory.....	21-4-31	2MT Writtle, The Birth of British Broadcasting	29-3-37	Vol. 11.....	38-1-9
NBD Story, The.....	1-1-3 (& 33-2-7)	TECHNICAL HISTORY - TUBES		Vol. 12*40-4-55, 40-4-64, 41-1-49, *41-2-15, *41-3-23	
Nicola Tesla - Guided Weapons and Computer Technology.....	41-3-53	70 Years of Radio Tubes and Valves	23-3-29, 23-4-21, 24-2-31	Corrections.....	40-1-5
Nicola Tesla's Teleforce and Telegeodynamics Proposals.....	41-3-52	75 Years of Western Electric Tube Manufacturing.....	34-1-61	Vol. 13.....	*41-4-20, *42-1-29, *42-2-17
Pictorial History of Radio.....	3-4-7	AWA Tube Collector Group Fact Sheet, Vols. 1-6 (R).....	45-2-31	Vol. 14.....	42-3-61, 42-4-63
Pictorial Album of Wireless and Radio, A, 1905-28.....	11-1-12	British Radio Valves - The Vintage Years: 1904-1925.....	41-3-68	Vol. 15.....	43-4-75
Pioneer Tales.....	8-3-20	Cathode-Ray Tube, The - Technology, History, and Applications.....	34-1-62	Vol. 16.....	44-4-70
Puerto Rico, History of Radio in.....	34-3-58	Complete Jackson 648 Tube Tester Manual, The.....	45-3-13	Vol. 17.....	45-1-57
QTC - A Seagoing Officer's Scrapbook	32-1-47			Vol. 18.....	46-3-10

Contact at Sea.....	8-3-15, 11-1-12, 13-1-28	
Cosmic Universe, Our.....	22-1-34	
CQ, or in the Wireless House (O).....	4-4-8	
Crystal Radio - History, Fundamentals, and Design.....	38-2-55	
Crystal Radios, Modern.....	19-2-7	
Crystal Sets, All About.....	27-2-7	
Crystal Set Handbook, The.....	37-1-17	
Crystal Set Loopers - A 3-Tuber & More.....	40-1-58	
Crystal Set Projects - 15 Radio Projects You Can Build.....	38-3-33	
Dime Novel Radio.....	*13-4-8	
Electric Waves (Hertz, transl.) (R).....	4-1-6	
Electrical and Electronics Technologies.....	22-4-25, 24-1-15, 27-4-36	
Electric Word, The (O).....	8-4-10	
Electronic Experimenter's Guidebook.....	15-4-31	
Electronics, Story of.....	20-1-5	
Electrostatics.....	10-2-17	
Everyman's Guide to Radio (4-vol. set) (O).....	4-4-9	
Experimental Science (R).....	39-3-58	
Experimental Wireless (British) (O).....	5-1-9	
Fire at Sea.....	1-4-7	
For a Dime and a Boxtop.....	13-1-28	
From Beverages Through Oscar: A Bibliography 1909-88.....	30-4-45	
Fun of Refinishing Furniture.....	18-4-15	
Golden Anniversary Yearbook (R. C. of A.).....	1-4-5	
Golden Web, The.....	9-4-11	
Government Call Book, 1913 (O).....	3-3-8	
Grit of the Girl Telegrapher, The (movie) (R).....	10-1-20	
Guide to RTTY Frequencies.....	24-2-31	
Guide to VLF Listening.....	8-1-4	
Hallicrafters Equipment.....	24-1-34	
Handbook of 1001 Practical Circuits.....	16-4-29	
Hawkins Electrical Guide (O).....	4-2-3	
Horn Speaker Notebook.....	32-2-54	
Icebound in the Siberian Arctic.....	17-3-27	
Ida Was a Tramp - And Other Reflections.....	16-3-25	
Il Mondo in Casa.....	29-3-9	
Invisible Universe Revealed, The - Radio Astronomy.....	29-5-1	
Juvenile Fiction, Early.....	2-4-2	
Kent, A. Atwater: The Man, the Manufacturer and His Radios.....	44-2-58	
Nikola Tesla: Lecture Before the New York Academy of Sciences - April 6, 1897.....	37-4-55	
Magnetic Cone Speakers.....	25-1-35	
Marconi, Guglielmo, in London - An Historical Tour.....	40-1-63	
MOSFET Circuit Guidebook.....	16-4-28	
Nymph and the Lamp.....	2-1-7, 6-3-4, 6-4-3, 18-2-27	
Old Fall River Line.....	3-4-7	
Pendragon House Books.....	14-2-16	
Operator's Wireless Telephone and Telegraph Handbook (O).....	8-2-18	
Phillips Code, The.....	16-4-29	
Primary Cells.....	4-2-3	
QRD? Snohomish (O).....	10-4-2	
Radio Astronomy for the Amateur.....	16-2-28	
Radio Boys and the Garrulous Grebe, The.....	35-3-52	
Radio Encyclopedia - 1927 (Gernsback) (R).....	14-4-20	
Radio Girls series (O).....	11-3-21	
Radio Physics Course (O).....	29-1-42	
Ralph 124C 41+.....	@35-3-31	
Regenerative Receiver, How to Build Your First.....	39-1-54	
San Francisco Story of the Waterfront and Wireless, My.....	6-1-9	
Science of Radio, The.....	38-2-55	
Shipwreck - The Strange Fate of the Morro Castle.....	13-3-16	
Shoulders of Giants, On the.....	20-2-3	
Signal Hill and Marconi.....	22-3-32	
Solid-State Design for the Radio Amateur.....	18-2-27	
SOS at Midnight.....	2-2-3	
SOS Korea 1950 Illustrated.....	45-1-46	
SOS to the Rescue (R).....	17-2-5	
SOWP Yearbook, 1971.....	12-3-23	
Stay Tuned: A History of American Broadcasting.....	19-2-7, 43-2-52	
Strange Ordeal of the Normandie.....	3-1-9	
Tales of the Wireless Pioneers.....	8-3-20, 9-4-8	
Taylorvision.....	25-4-33	
Telegraph and Telephone, The.....	4-1-6	
Telecommunication Pioneers (O).....	9-4-14	
Tempter, The.....	*42-4-30	
Titanic and the Californian, The.....	8-2-14	
Tom Swift series.....	6-3-8	
Twinplex Regenerative Set, How to Build the.....	39-4-35	
Useful Network Theorems.....	30-3-40	
Van Bliksenschicht tut Radio.....	25-2-29	
VLF Radio Engineering.....	8-4-10	
Vintage Crystal Sets 1922-1927.....	17-2-24, 17-4-44	
Wireless Telegraphy, A Handbook of (O).....	6-4-20	
Wireless Telegraphy.....	15-4-25	
World in My Ears, the.....	20-2-32	
50 Things to See (British Museum).....	10-4-18	
21 Simple Transistor Radios.....	16-4-28	
1929 - America Before the Crash.....	24-1-34	
REVIEWS - PERIODICALS		
Antique Radio Classified.....	25-3-5, 27-3-41, 28-3-43, 31-4-3	
Amateur Radio (British).....	24-2-31	
Antique Wireless Association, The (QST, 5-59).....	1-3-2	
(Edwin Armstrong) "A Study of the Operating Characteristics of the Radio Detector and its Place in Radio History" (Proc. Radio Club of Am., 25:1 [1948]).....	43-2-53, 43-3-54	
ART.....	15-2-28	
Art Deco Radio, The (American Heritage, 4-88).....	29-3-41	
Audions (Electronics World, 9-65).....	6-3-4	
Australia's Radio Pioneers (Electronics (Aust.)), 5-74 and later).....	15-4-25	
AWA 1966 Conference (R-E, 1-67).....	7-3-6	
AWA (IEEE Spectrum, 4-71).....	12-4-6	
Ayrton, Wm. Edward (IEEE Trans. on Education, 5-90).....	31-4-46	
Baird, John Logie, and TV (BVWS Bulletin, 10-86).....	27-4-40	
Birth of the Vacuum Tube, The (Pop. Elect., 5-91).....	32-1-47	
Brasspounder's Gossip.....	17-2-5	
British Sales List (BVWS Bulletin).....	23-1-31	
Bro. Pat's Museum (Pop. Elect., 2-90).....	30-4-45	
Broadcast Engineering - 20th Anniversary.....	20-2-32	
Broadcast Receivers, Index (Radio News, 3-25).....	7-4-23	
Broadcasting, History Issue (10-12-81).....	23-1-30	
Calendar, 1993, and Alexanderson Alternator.....	34-2-65	
Canadian Broadcasting, Early (Broadcast Engineering, 4-68).....	9-1-13	
Channel One (R-E, 3-82).....	23-1-31	
Classic Ham Radio Shopper's Guide.....	35-1-67	
Code Speed Champions (Radio, 1-84).....	25-1-33	
Code Speed Standards (Ham Radio, 4-73).....	14-1-24	
Collecting for Fun and (Maybe) Profit (Playboy, 9-71).....	12-3-27	
Collector's Guide to Romance (IEEE Spectrum, 10-75).....	16-4-28	
Collins & His Company (HR, 12-87).....	28-4-46	
Collins Wireless Bulletin.....	7-2-18, 11-1-7	
Cortlandt Street Story (CQ, 10-65).....	6-3-3	
Cosmic Static at 144 Meter Wavelength (Reber; J. of the Franklin Inst., 1-68).....	9-1-11	
CQ (1930s comm'l version).....	11-2-17	
Crosley (IHRS Bulletin, 12-75).....	16-4-28	
Crosley Broadcaster, The.....	@34-1-17	
Dawn of the Semiconductor Age (Ham Radio Horizons, 12-77).....	18-4-29	
de Forest Anniversary (Radio-Craft, 1-47).....	8-2-16	
de Forest Audion (Spark Gap Times, 6-63).....	4-2-7	
de Forest - History's Hall of Honor (Electronics Digest, 4-69).....	9-1-13	
de Forest Lecture (1912) (IEEE Proc., 3-63).....	4-1-6	
de Forest and the Triode Detector (Sci. Am., 3-65).....	6-1-2	
Desoldering, All About (Radio-Electronics, 11-79).....	20-4-25	
Detector, Crystal (IEEE Spectrum, 4-81).....	22-1-32	
Detectors, Early (MAARC Broadcaster, 9-81).....	22-3-33	
Dots and Dashes (Morse Telegraph Club).....	14-2-10, 22-4-35	
Dreamer Who Made Us All Fall in Love with the Future, A (Gernsback) (Smithsonian, 8-90).....	31-3-47	
Ducretet Superhet (BVWS Bulletin, Vol. 6 No. 2).....	22-4-24	
Early Days of Radio (Atlantic Monthly, 2-66).....	6-4-13	
Early Vacuum Tubes (Electronics World, 12-64).....	5-4-12	
Edison, The Fabulous Drone (73, 3-67).....	8-1-4	
Electrician and Mechanic.....	7-2-18	
Electronic Design, History Issue (9-77).....	18-4-28	
Electronics Digest.....	9-4-11, 14-1-25	
Electronics, Communications Issue (4-17-80).....	21-2-31	
Electronics, End of an Era.....	*30-2-16	
Electronics Illustrated, End of.....	13-3-12	
Electronics World/Popular Electronics Merger.....	13-1-28	
Espenschied, Lloyd, Biography (Electronics Digest, 7-71).....	12-2-5	
Father of FM (73, 2-82).....	23-1-30	
FB-7 Receiver (CQ, 7-73).....	14-2-21	
Federal Arc Transmitter (CQ, 2-79).....	20-1-5	

Federal Telegraph Co. (<i>IEEE Proc.</i> , 3-63).....	4-1-6	Radio Program Mementoes (<i>Yankee</i> , 3-73)14-1-17
Ferdinand Braun and the Cathode Ray Tube (<i>Sci. Am.</i> , 3-74).....	15-1-14	Radio Row, A Requiem for (<i>QST</i> , 4-69)10-1-9
Fessenden, Reginald (<i>R. C. of A. Proceedings</i> , 10-78).....	19-4-33	Radio Spectrum Below 550 kHz (<i>IEEE Spectrum</i> , 3-67).....
Fessenden, Father of the Fathometer.....	5-1-2	<i>Radio-Electronics</i> , 50th Anniversary (10-79)20-4-34
First Electron Tube (<i>Sci. Am.</i> , 3-69).10-1-8		Reader's Review - Collector Journals, 1989 30-3-40
First Radio Program (Fessenden) (<i>Yankee</i> , 12-65).....	6-4-1	Receiver Design, Diversity (<i>HR</i> , 11-79)20-4-34
First Wireless Stations in Alaska (<i>Ham Radio</i> , 4-73).....	14-1-24	Regency TR-1 (<i>IEEE Spectrum</i> , 12-85)28-1-38
Ford, Henry, and His Wireless Station (<i>Bulb Horn</i> , 1-73).....	14-1-17	Reinartz, John (<i>HR</i> , 8-81).....
French Cable Co. "PQ" (<i>Telegrapher</i> , 9-78) 19-4-33		Repair Antique Radios (<i>R-E</i>).....
FRENDX.....	22-1-35	Rescue at Sea, A (<i>PE</i> , 11-66).....
Gernsback, Hugo (<i>R-E</i> , 8-84).....	25-3-38	Riverhead, Beginnings of the RCA in (<i>Long Island Forum</i> , 3-69).....
Gernsback Publications, List of.....	9-1-14	Roaring 20s.....
Giffillan Bros. Inc. (<i>SCARS Gazette</i> , 8-84)25-3-15		Round, H. J. (<i>BVWS Bulletin</i>).....
Godley, Paul, Interview (<i>R. C. of A. Proceedings</i> , 3-75).....	16-1-14	Saga of the Vacuum Tube (<i>Radio News</i> , '43-'46).....
Gold Award SOS (73, 9-69).....	6-3-8	Sarnoff, David (<i>R. C. of A. Proceedings</i> , Summer 72).....
Graphic Antiquarian, The.....	11-3-11	Science for Navy and Nation (<i>QST</i> , 1-73)13-4-26
Hallcrafters DD-1 (<i>Ham Radio</i> , 4-80)21-1-9		Ship DX (<i>PE</i> , 9-68).....
Hallcrafters Story, The (<i>CQ</i> , 11-79) 20-4-34		Ship Operator, Life of A (<i>Spark Gap Times</i> , 3-69).....
Hallcrafters Ultra-Skyrider (<i>CQ</i> , 8-79) 20-2-5		Single-Dial Control (<i>IEEE Spectrum</i> , 2-83)24-1-34
Ham Radio, History (<i>CQ</i> , 1977).....	18-4-28	<i>Sound Practices</i>
Ham Radio, History (73, 1979).....	21-1-35	Sparks - SOWP Journal.....
<i>Ham Radio Horizons</i>	17-4-18	Speakers, Horn (<i>CQ</i> , 11-79).....
Hammarlund Comet Pro (<i>HR Horizons</i> , 12-78).....	19-4-32	SSB, History of (<i>HR</i> , 9-84).....
He Created the Signal Corps (Myer) (<i>Army</i> , 1-73).....	13-4-16	Stamps, Collecting Communications (<i>IEEE Spectrum</i> , 1-70).....
Hello Again.....	13-3-26	Stay Tuned.....
Hertz, The Experiments of Heinrich (<i>IEEE Spectrum</i> , 12-68).....	9-4-11	Star Fleet, Great (<i>SOWP J.</i>).....
<i>Hollow State Newsletter</i>	34-4-68	Stone, John Stone (<i>R-E</i> , 3-80).....
<i>Horn Speaker, The</i>	13-4-23	Stratemeyer, Edward, and His Book Machine (<i>Saturday Review</i> , 7-11-71).....
Hot Carbon (73, 1-76).....	16-4-28	Surprise in the Skies (73, 11-68).....
How the Communication Receiver Began (73, 3-74).....	15-1-14	SW-3 Receiver (<i>CQ</i> , 6-71).....
Historical Tube Collection (Machlett Cathode Press).....	5-1-4	<i>Telegrapher, The</i> (Davis).....
<i>IEEE Proceedings</i> , 50th Anniv. Issue3-2-8, 4-1-8		Telegraph Keys (<i>QST</i> , 12-77).....
<i>IEEE Trans. on Consumer Electronics</i> , History Issue (5-84).....	26-3-19	Telegraph History (<i>Radio Engineering</i> , 3-31) 10-3-11
Induction Coil, The (<i>Sci. Am.</i> , 5-71) 12-2-7		Telegraphone - The History of Recording (<i>Modern Records</i> , 12-75/1-76).....
Invention of Radio (Popov) (<i>Technology and Culture</i> , 7-67).....	8-4-10	Television, Historical Look (<i>R-E</i>).....
IP-Series Receivers, The Famous (<i>FM Radio-Engineering</i> , 5-43).....	9-13	Television, History of.....
Jenkins, Charles, TV Development (<i>SMPTE J.</i> , 2-86).....	27-2-7	Tesla (73, 11-76).....
KDKA History (<i>Spark Gap Times</i> , 1970)11-2-20		Tesla Biography (<i>Radio-Electronics</i> , 4-63)4-2-6
<i>Key Klix</i> (O).....	5-1-9	Tesla Biography (73, 2-69).....
Kilbourne & Clark Story (<i>Wire & Comm.</i> , 11-60).....	2-1-7	Tesla, Eccentric Genius (<i>IEEE Spectrum</i> , 6-72).....
Lightning, Plasma, and Balls of Fire (<i>R-E</i> , 4-67).....	8-1-4	Tesla, History (<i>IEEE Spectrum</i> , 5-70)11-3-20
Long-Delayed Echoes (<i>Radio Comm.</i> , 9-69) 10-3-16		Tesla, World's Greatest Engineer (<i>R. C. of A. Proc.</i> , Fall 71).....
Long Island Spy Station, The (<i>Popular Electronics</i> , 12-90).....	31-4-47	(73, 11-72).....
Loomis, Mahlon, Father of Radio? (<i>Iron Worker</i> , Spring 1979).....	21-1-35	Titanic, History of the (<i>Radio</i> , 2-29) 11-1-7
MacMillan Expedition, The (<i>National Geographic</i> , Fall 25).....	12-2-7	Transatlantic Cable History (<i>R. C. of A. Proceedings</i> , 10-75).....
<i>Marconigraph, The</i>	*8-1-12, 8-2-2	<i>Transistor Radio Collector</i>
Marconi (<i>IEEE Spectrum</i> , 12-74).....	15-4-25	Tubes, Substituting Diodes for (<i>HR</i> , 10-83)21-3-34
<i>Marconi Service Magazine</i>	*8-1-12	Twenty Years of Transistors (<i>Saturday Review</i> , 12-14-68).....
Manual Morse, History of.....	26-4-40	U. S. Army Radiotelephone in WW I (<i>Signal</i> , 6-62).....
Marine Radio (73, 11-76).....	17-3-20	
Marriage That Almost Was, The (WU-AT&T, 1876) (<i>IEEE Spectrum</i> , 2-76).....	17-1-31	
Maxim, Hiram S. (<i>True</i> , 2-63).....	4-1-6	
McCullough/Kellogg Tubes (<i>CQ</i> , 9-75)16-3-15		
McMurdo Silver (<i>ARCA Gazette</i> , 9-76) 17-3-20		
Mignon (<i>ARCA Gazette</i> , 3-77).....	18-1-23	
<i>Mignon Radiogram</i>	6-4-19	
<i>Modern Electrics</i> 7-2-18, 9-1-14, 11-1-7, *35-1-13		
<i>Modern Radio Drama</i>	32-4-56	
Modern Tubes in Old Sets (<i>R-E</i> , 9-65)7-1-8		
<i>Morsum Magnificat</i>	28-1-42	
<i>Museum of Broadcasting Newsletter</i> .18-4-28		
Musical Broadcasting in the 19th Century (<i>Audio</i> , 6-67).....	8-2-16	
National SW-2 (<i>CQ</i> , 10-77).....	18-2-24	
National SW-3 (<i>CQ</i> , 7-71).....	12-2-7	
(<i>CQ</i> , 2-78).....	18-4-29	
National SW-5 (<i>CQ</i> , 11-78).....	19-4-33	
New Fun from Old Radios (<i>EI</i> , 11-69)10-3-11		
No Place to Go But Up (<i>PE</i> , 3-69).10-1-9		
Ohm's Law, Origin of (<i>PE</i> , 5-72).....	13-3-27	
Omnigraph, A Clock-Wound (<i>CQ</i> , 2-81)22-1-35		
Old Radios - New Turnon (<i>Pop. Mech.</i> , 3-78).....	19-1-15	
<i>Old Timer's Bulletin</i> , offered on CD-ROM41-4-7, 42-1-23, 42-2-22, 42-2-61, 42-4-63		
Classic tube articles on.....	42-1-28	
Oldest Broadcast Station (<i>J. of Bcg.</i> '77)19-3-8		
Otter Cliffs, Echoes from (<i>Down East</i> , 11-64) 6-1-1		
Pony Express (<i>W. U. Tech. Rev.</i> , 4-60)1-4-2		
<i>Popular Electricity</i>	7-2-18	
<i>Popular Science</i>	11-1-7	
<i>Ports o' Call</i> (SOWP).....	10-1-9	
Positive Feedback, History of (<i>Radio & Electronic Eng.</i> , 2-72).....	13-3-26	
Progress in Radio Telegraphy (<i>Sci. Am.</i> , 1-15-16).....	10-1-21	
Publication Dates - U. S. radio journals11-1-7, *16-2-24, *17-1-32, *30-4-27, *32-4-33		
<i>QST</i> , 1st issue, oddity in date.....	17-2-19	
<i>RADARHIST</i>	30-1-24	
<i>Radiosporting</i>	28-2-34	
Radiola Superhets (<i>Radio Age</i> , 12-77 / 1-78) 18-4-31		
<i>Radio Age</i>	28-4-4	
Radio Americas, <i>Electronics Illustrated</i> Visits (<i>EI</i> , 7-68).....	9-3-10	
Radio Ancestors (R. H. Marriott bio) (<i>IEEE Spectrum</i> , 6-68).....	9-14	
Radio Broadcasting History (<i>Broadcast Journal</i> , 7-70).....	11-4-24	
<i>Radio Bygones</i>	31-1-45	
<i>Radio Collector, The</i>	35-3-52, 36-3-12	
Radio Control, History (<i>Model Aviation</i> , 3-86) 27-1-31		
<i>Radio-Craft</i> Jubilee Issue (March, 1938) (R) 28-2-43		
Radio Days (film).....	28-1-42	

UX-210 Tube (CQ, 12-76).....	17-4-10	WHD/2UO (73, 2-80).....	21-1-35	WW II Surplus (HRH 12-77).....	18-4-29
Vacuum Tube Valley.....	38-3-33	Wireless Age, Conversion to Popular Radio 17-3-31		W7GAQ Key Collection (73, 5-79)...	20-2-32
Vail Correspondent, The.....	35-1-71	Wireless in the 1920s (Electronic Engineering (British), 1-71).....	12-1-22	Xtal Set Society Newsletter.....	35-1-67
Video Game History (R-E, 7-82).....	23-2-24	Wireless Stations, Early (Ham Radio, 10-68) 10-2-10		50 Years of Television (Ham Radio, 2-76)17- 1-32	
Vintage Electrics (Vol. 2 No. 1, transistor history).....	32-2-54	Wireless Trader.....	33-3-57	78-RPM Records, Dubbing.....	23-2-23
Vintage Radios by the Score (Smithsonian, Feb. 1997).....	38-2-57	Wireless World (ex-Marconigraph).....	9-3-19	100 Years of Radio (Radio-TV Experimenter, 10-67).....	8-3-15
VLF Whistlers (PE, 3-74).....	15-1-14	60th Anniversary (4-71).....	12-3-27	807 - 50th Anniv. (HR, 8-86).....	29-1-13
VRPS Newsletter.....	17-1-36	Wire & Communications (ex-Tel. & Tel. Age) - End of.....	3-2-2, 6-1-15	1929-1941, The Golden Years (CQ, 4-76)17- 1-32	
WCC, Marine Station (Dots & Dashes, 1-69) 10-1-7		WNP - MacMillan Expedition (73, 7-75)16-2- 28		1930 Xmtr-Rcvr (HRH, 8-80).....	21-2-4
Weston, Edward - Pioneer in Electrical De- velopment (ARCA Gazette, 12-71)16-4-28		WSL, Sayville (73, 11-76).....	17-3-20	1938 Transmitter (CQ, 4-78).....	19-1-15
WHD/2UO (CQ, 1979).....	20-2-21				

SITES - HISTORIC

Atlantic Highlands (Marconi).....	20-3-18	Original Site (pic).....	31-3-4	RCA Rocky Point/Riverhead9-3-2, 10-1-8, 12- 4-20, 16-2-20, 18-4-30, 19-3-22, 24-4-12, 38-4-44, @R10-154	
Armstrong (Yonkers).....	19-3-4, 23-2-14	Pic with George Clark.....	9-2	Roselle Park (Marconi-GE-WDY).....	17-3-12
Askoy Station (Norway).....	*26-4-16, 27-2-39	Pic w/ Armstrong and Marconi....	*30-3-12	Shark River, NJ, Marconi Tower12-1-4, 15-3- 27	
Battery Park (NYC) - VWOA Monument2-1-1		Marconi Tower (Binghamton).....	*39-3-11	Swan Island (United Fruit Co.).....	9-3-10
Brant Rock, MA (Fessenden)....	2-1-2, 6-4-1	Nauen, Germany (tower failure, ca. 1912)23- 2-28		1BCG (Greenwich, CT).....	*6-4-11
Dixon, CA (VOA).....	@37-1-53	Radio Row/Cortlandt St.9-1-14, 11-4-10, @19- 1-4, *29-1-24, @40-1-24, (R) *45-3-26			
Magnavox (Napa, CA).....	26-3-33	RCA Bolinas/Point Reyes/Marshall (KET)@R2- 50, *18-3-20, 31-4-45			
Marconi Shack (Babylon/Rocky Point, LI) 13-2-22, 30-4-44					

STAMPS - POSTAL AND TELEGRAPH

Broadcast DX and Ekko.....	*29-24	Bcg. Anniv., 50th (Aust.).....	14-4-20	ITU Anniversary (Japan).....	22-2-19
Postal		Communications (German).....	15-3-17	Marconi (Canada).....	15-4-25, 44-2-7
Amateur Radio.....	*23-1-10	General.....	6-4-12, 22-2-19	Radio Canada International.....	12-2-18
Armstrong (Czechoslovakia).....	8-1-4	Hist. Equations (Nicaragua).....	12-3-14	Rutherford (Canada).....	12-1-11
BBC 50th Anniversary.....	13-3-12	INTERPOL.....	*29-1-14	Telegraphers.....	7-1-9
Bell's Tel. Invention (US).....	16-4-35	Inventors.....	24-3-33	Telegraph.....	*23-2-8, 28-2-6

STATIONS - RADIO - AMATEUR

EARLY		W3VVS, '40s.....	45-2-22	W5KL.....	31-2-9
Early and Reproduction.....	*8-2-4	3ZO, 1922.....	@29-16,29-3-27	W5VA, 1921 Vintage.....	6-4-17
Mobile, Early (ca. 1920).....	14-4-17	6EA3-1-2		WA5VLZ.....	31-2-31
Phone Station, My First.....	11-1-8	8BE (pre-WW I) (pic).....	7-4-9, 8-1-9	W6TXR.....	31-1-28
Receiving Station, 1921 (Voorhis, Red Bank, NJ).....	7-2-5	8CR, Powel Crosoey (pic).....	R16-13	W7JY Replica.....	17-3-11
EF-8CT, 1928.....	23-3-24	8TE/W8TE, Original & Replica.....	*12-2-6	W8BFD, New OT Station.....	27-3-31
WJW, Willenborg, 190721-1-13, *21-2-6, 29-1- 4		9TL, 1919.....	*32-1-27	W0ACU.....	4-2-8
W1HRX, Millen.....	*26-4-42, 26-3-33	REPLICA		8ABG (ex-B5).....	10-1-1
XY, Espenscheid, 1907.....	*31-1-11	GB3BCT, Anniversary Station.....	12-4-15	8AQO.....	@10-4-10
1AW, An Evening at.....	31-1-20	W2AN (see "Activities - AWA - General")		8NH.....	24-3-30
1BCG.....	6-4-11, *12-3-26	K2MP.....	31-4-31	8TE/W8TE, Original & Replica.....	*12-2-6
1WP.....	2-4-3	W1BB, 160-Meter.....	3-4-11	1916, W4AA.....	*11-2-1
2COW/3BVN.....	13-2-9,*21-3-20	W1MX (MIT).....	7-1-19	1928, W1FAT.....	17-3-11
3GG Canadian.....	4-2-2, 5-1-2	WM2GK, Marconi Celebration.....	13-2-23	1933, W2NX.....	12-3-24
		W2HBE.....	31-2-9		
		K5AM, Canal Zone, '30s.....	20-1-21		

STATIONS - RADIO-TV - BROADCAST

Canadian, early.....	11-1-17	Owned by seed companies, '20s @R15-126		CFRB.....	R15-170
Canadian National tower (Toronto)...	15-1-13	Philadelphia, First 50 Years.....	@R2-120	CKNC.....	*R13-1
Callsigns		Program Listing, 1922.....	*11-1-16	CKAC.....	9-1-13
From initials.....	17-4-47, 35-4-51, 37-1-34	Station List, 1922.....	*11-1-15	HVJ, Vatican.....	5-1-12
Reassigned from Ships.....	35-4-50	Union College, 2ADD and WRUC...11-3-10, *31-1-17		KMA.....	@R15-133
Three-letter.....	*35-4-49	Voice of America		KBRW, Pt. Barrow.....	17-1-13
European, 1926, listing.....	27-3-40	Bethany, OH.....	15-2-11	KCLN.....	*8-2-1
"First" station3-2-3, 5-1-4, 7-3-6, 9-3-23, 9-4- 13, 10-1-14, 10-1-24, 10-3-20, 11-3-10, 12- 1-19		Greenville, NC.....	4-1-7	KCOM, Sioux City, IA.....	45-1-26
		CFCA.....	R15-150	KDKA4-4-6, 5-2-6, 9-3-23, 10-2-9, 11-1-17, 11-4-25, *32-1-25, *R10-128	

First wavelength.....	*15-1-21	WFAA.....	24-3-19	Did it propel a car?.....	31-1-25
"Doghouse" returned.....	44-2-4	WFAW.....	9-3-6	WLWO.....	R16-90
KFAB-KFOR, Lincoln, NE.....	45-1-215	WFI R2-128		WMH.....	13-3-23
KFKB (Dr. Brinkley).....	3-1-9, R15-126	WFPG.....	R2-127	WNAX.....	@R15-139
KFNF.....	@R15-127	WGL.....	R2-129	WOL, Washington.....	5-4-10
KFQX, pic.....	*33-1-3	WGY 3-1-1, 5-1-7, *8-2-1, 10-2-8, @R7-161		WOO.....	R2-128
KMA, Shenandoah, NE.....	45-1-25	Anniversary.....	3-4-6	WOR, 60th Anniversary.....	22-4-29
KMMJ, Clay Center, NE.....	45-1-24	Time signals from.....	8-2-1	WPG.....	R2-131
KSCJ, Sioux City, IA.....	45-1-26	200-kW operation.....	@R8-149	WQAA.....	R2-129
KTIV, Sioux City, IA.....	45-1-27	WHA.....	10-1-4	WQXR/W2XR.....	10-2-2, 34-2-57
KVTV, Sioux City, IA.....	45-1-27	WHE.....	R2-128	50th Anniversary.....	27-3-15
LCM, Stavanger, Norway.....	4-3-9	WHAM.... 7-4-17, 10-1-18, 17-4-11, R18-104		WRGB.....	30-1-13
PCGG.....	10-3-20	WHAM, AWA members at.....	17-4-11	WWI (Henry Ford).....	14-1-17
SJN, San Jose, CA.....	*10-1-14	WHAR.....	R2-131	WWJ.....	9-3-23, 11-4-23, *33-3-45
W2XAB.....	*45-3-16	WHEC.....	R18-104	WSAI.....	R16-19, 37
WBXCT.....	R16-91	(Old-time exhibit).....	6-4-19	WTAF-TV.....	15-1-27
WBAB.....	R2-132	WHQ.....	R18-104	WTAG.....	11-3-15
WBT.....	@R13-115	WIPR2-128		WTAM.....	4-3-5, *8-2-6
WBZ, 60th Anniversary.....	22-4-23	WJAR.....	*33-3-44	WWJ.....	9-3-23, 11-4-25
WCET.....	R16-91	WJZ.....	16-1-32	W2XMN.... 26-3-7, 26-4-36, 31-3-28, 44-2-5	
WCJ.....	3-1-12	WKRC, Cincinnati.....	@R17-44	XER (Dr. Brinkley).....	3-1-3
WCTS/WTAG.....	11-3-15	WLIT.....	R2-128	XWA/CFCF9-1-13, 11-1-17, R9-90, @R14-118	
WDBX, "NY's smallest station".....	*19-4-24	WLS.....	15-2-7	2MT, Marconi/BBC.....	25-1-7
WDM.....	9-10, 9-3-19	WLW.....	13-1-24, 13-3-23, @R16-14	2XL, Lavender Hill, London.....	*27-2-12
WEAF.....	13-2-5, *17-2-14	500-kW operation.....	@24-2-6	8MK.....	*33-3-45
WEAR (Baltimore).....	*8-4-1, 9-1-14	and dance music (1929).....	24-3-22	9ZN3-2-5	
WEFM.....	13-1-23	Custom mic.....	*41-4-45	250-watt AM stations, general.....	*46-4-62

STATIONS - RADIO - COMMERCIAL, EXPERIMENTAL, MILITARY

1AGI.....	R13-126	NAA, Arlington..2-1-2, 3-1-4, 3-2-13, 3-3-5, 6-1-14, 6-4-13, 7-1-8, 7-2-15, @R2-43		WCBS-FM.....	R13-128
4XDR13-116		Postcard.....	5-3-9	WCCO.....	R13-153
9XAH.....	R13-137	Spark-vs.-arc test, 1912.....	*31-1-15	WCK, Detroit Police.....	12-2-8
Alaskan, general.....	7-2-6	WECO transatlantic radiophone test from @R11-112		WDRC, WDRC-FM.....	R13-128
Alternator-equipped, 1924 map.....	12-3-19	NAA, Cutler ME2-2-3, 2-3-15, 3-1-1, 5-3-9, 6-1-1		WEAC.....	R13-139
Broadcast, early, general.....	@R13-124	NPG.....	R15-31	WEB.....	R13-138
Broadcast, early, owned by mfgs. and vendors.....	@R13-143	NPM, Haiku.....	@44-2-36, 44-3-5	WFAV.....	R15-126
Calls, ships named for inventors11-1-6,11-2-9		NSS, Annapolis		WGU-20.....	14-3-13, 16-1-19, 16-2-24
DDH47, commemorates Marconi transatlantic transmission.....	*44-2-56	Antennas, demolition of.10-4-19, *41-4-32		WHB.....	R13-137
Haiku, HI, Navy.....	@44-2-36, 44-3-5	Closing.....	*39-4-27, 40-2-18	WHD, N. Y. Times.....	19-21
HMCS Haida, radios on.....	@35-3-38	VLF tests.....	9-1-16	WKBN.....	R13-130
Intercept stations, Army and Navy, WW II @R15-36		(Modern).....	9-1-18, 14-2-17	WKRC.....	R13-135
Long-wave stations, modern		QSL from.....	40-1-33	WLW.....	R13-136
Lists... *7-4-10, 8-1-3, 8-1-7, 9-1-2, 9-1-16		Radio Central@R10-151, (R) *46-2-32 + @46-4-46		WMC.....	R13-130
Closings.....	9-1-2	Radio-op position, B-17 (pic).....	35-3-1	WMH, Baltimore, Closing.....	29-3-42
Omega navigation.....	11-3-20	Ship's radio room grows up.....	@36-3-13	WMU.....	R13-142
RCMP vessel St. Roche.....	14-1-12	TG, Mare Island, 1904.....	6-3-7	WNL, Rocky Point.....	10-1-18
GBR, long-wave, xmtr photo.....	20-1-19	Titanic, RMS, Marconi installation@42-4-40 + @43-1-36		WNAM.....	R13-137
GBTT, SS Queen Elizabeth II.....	12-1-18	From observing wreck.....	@R15-98	WNP.....	7-2-5, 9-1-14, 9-8
GBTT, SS Queen Mary.....	8-3-13, 31-1-37	Tuckerton, NJ.....	12-2-16	WNW.....	@43-2-57
KET, Bolinas.....	*R2-50	"USS Eagle" recreation.....	@37-2-35	WOC.....	R13-142, R15-126
KFS16-2-5, @R8-75		USS Albacore, eqpt. of and operating from @42-4-32		WPD, Tampa.....	*17-1-6
Closing.....	40-4-51	USS Ling, LF/MF comm eqpt.....	@42-1-56	WPAJ.....	R13-126
KGG.....	R13-142	Vint Hill Farms intercept stn.....	@40-3-44	WPDR, Rochester Police.....	*6-3-19
KJA, Jualin, AK.....	6-3-18, 7-2-6	VLA, Australian Wireless Co.....	21-3-21	WSBC.....	R13-141
KLZR13-139		W1XPW.....	R13-128	WSC, RCA, Eagleswood, NJ.....	16-2-5, 19-35
KOG.....	R13-141	WAAM.....	R13-139	WTAM.....	R13-140
KQV.....	R13-143	WAAY.....	R13-132	WVEP restoration.....	16-4-23
KZYR13-140				WVY.....	R15-27
LBT, airship Norge.....	25-2-16, 25-4-20			WWV.....	7-2-19, 14-2-20, *14-4-24
Montauk Point, WECO.....	@R11-110			1XM, standard frequency.....	*20-3-30
				7XJ/7XK.....	32-2-56

STATIONS - WIRELESS

GENERAL		Lists of stations		Commercial, 1908.....	3-3-12
Alaska, Early.....	10-2-8	Canadian shore, 1908.....	4-1-10	Navy shore, 1908.....	3-3-10,

4-1-10, 4-2-2, 4-2-7
 Press and broadcast, 1920.....9-4-21
 Worldwide, 1922.....*9-1-12, 9-3-4
 New York City, early.....2-3-6, @R6-115
 Ship station, 1903, op'n of a.....*31-1-8
 Ship's radio room grows up.....*36-3-13

SPECIFIC

American Wireless Telegraph Co., in Milwaukee area.....@R14-156
 Apia, Samoa, German, WW I.....*19-4-1
 Babylon, de Forest.....5-4-6
 Boston, BN.....*2-2-1
 Brant Rock 2-1-2, 6-4-1, 7-3-6, 7-4-4, 7-4-11
 Brooklyn Navy Yard, PT.....4-2-2, 7-2-5
 Cape Breton, Marconi.....*41-3-32, *41-4-36
 Cape Hatteras, Fessenden.....15-1-25
 Cape Henlopen, DE*10-3-18, 10-4-6, *30-2-14, 30-3-21
 de Forest
 Colorado (10 stations)8-2-18, @38-2-22, *38-3-14
 DF.....2-1-3
 Albany.....*6-4-15, 11-1-5
 Early mobile.....*7-2-3
 KW, Key West.....4-3-5
 Eiffel Tower, FL.....6-2-4, 6-4-13
 Marconi

Albany.....6-4-15
 Buffalo, BF (ex-UWT), pic.....*7-3-11
 Caernarvon, MUU.....*R2-46
 Cape Race.....R9-87
 Clifden, Ireland.....R9-53, 37-4-10
 Early Mobile.....*8-1-1, R9-43
 Glace Bay, GB, 19011-4-5, 12-4-27, 26-3-4, 36-3-1, R9-84, *36-4-12, R14-100
 Kingston, ON.....*R9-89
 Louisbourg, NS.....@42-3-44
 Marion, MA.....1-4-5, 6-4-16, 29-15
 Midland, ON.....R9-88
 New Brunswick.....16-2-27
 Newcastle, NB.....28-1-38
 Poldhu, Cornwall*11-1-18, 28-1-40, @R7-29
 Sable Island.....6-3-4
 San Francisco, KPH6-2-14, 6-4-12, 10-3-22
 Closing.....40-4-51
 Siasconset, SC/MS*10-4-18, 11-1-5, 31-1-4
 South Wellfleet, CC/MCC/WCC*4-2-9, 4-3-9, 4-4-7, 4-2-9, 5-1-5, 5-3-9, 5-4-14, 6-3-8, 9-14, 10-3-11, 11-3-20, 13-1-12, 15-2-5, 15-3-28, 16-1-20, 24-1-31, 30-1-3, *36-4-36, @37-2-28, 37-3-10, 38-2-17
 Closing.....40-4-51
 Massie, Pt. Judith, PJ3-2-4, 23-4-31, 25-2-24, *26-3-20

Otter Cliffs, NBD...1-1-3 (& 33-2-5), 6-1-10, 6-3-6, 6-3-17, 7-2-13, 8-1-5, 8-3-16
 Pearl River, WNU, closing.....40-4-51
 San Diego, NPL.....7-2-16, 37-2-47
 Sayville, WSL...3-2-7, 4-3-5, 14-4-8, 16-4-30, 17-1-28, 17-3-20, 18-2-20, 30-2-40
 Seattle, KPE.....36-2-64, *36-3-58
 Ship stations
 SS Imperator, 1912.....8-13-17, 9-1-17
 SS Manhattan.....10-2-8
 RMS Olympic.....17-2-14, R9-57, R15-4
 SS Santa Isabel, WHN.....13-3-15
 SS Tionesta, WCA.....10-2-6
 RMS Titanic, MGY.....10-3-11
 SS Topeka.....9-4-11
 USCG Cutter Modoc, 1923.....14-3-16
 Sweden, SAQ, alternator*21-2-10, 21-3-25, 27-2-5, 27-4-18, *38-2-47, *45-4-57
 UJ (United Fruit Co), closing of.....*1-4-4
 Unga Island, KVI.....8-3-13
 United Wireless
 List of stations, 1911.....11-4-18
 Buffalo.....23-4-35
 SH, 1912.....26-2-34, 26-2-40
 New York, NY.....24-1-23
 New York, WA.....*35-3-63
 San Francisco, CH.....11-4-13

TELEGRAPH - CABLE - TELEPHONE

Atlantic (telegraph) cable, first*16-1-16, 16-4-28, 17-3-12, *22-1-24
 Atlantic cable, new 6000-mile8-2-15, 12-4-20, 14-2-20
 Australian overland line.....14-1-31
 Barclay, John, improvements in apparatus @43-3-50
 Bell System update.....22-4-16
 Beardslee telegraph.....32-1-34
 Binding posts, 1872 view.....45-4-43
 Bunnell, ad, ca. 1910.....*13-3-32
 Bunnell companies.....43-1-42@
 Bunnell repeater.....*38-3-53
 Buzzer telegraph, military.....R8-21
 Cablephoto service, W. U.....R18-60
 Canada, last Morse message.....13-3-30
 Cartoons
 Commercial operator.....15-1-30
 Railroad telegrapher.....*11-3-13
 Caton keys and sounders.....@42-4-43
 Chemical telegraph, Bain...*29-3-20, 29-4-38
 Code
 American Morse vs. Continental2-3-3, 4-4-5, *27-1-36, 27-3-33
 Champion, Barfield.....7-1-8
 Conkling, George, champion.....*46-3-49
 Curiosities.....*20-4-8
 High-speed Morse demo at AWA9-11, 9-3-7, 9-3-9, 14-4-13
 Morse, first reading by ear.....32-4-42
 Morse, origin of.....13-3-14, 14-1-5
 "Morse nostalgia".....35-3-30
 Phillips.....11-1-14
 Speed records7-1-8, 13-3-23, *33-3-40, 33-4-49
 Code contest, world champion*26-2-24, *35-4-9

Death Valley Coyote, 1905.....*27-2-11
 Devil at the Key, the.....*21-2-14
 Edison, code phono record.....16-2-4
 Equipment, identifying from binding-post style *35-2-18
 Facsimile system, Bain.....29-4-39
 Facsimile receivers, RCA and Finch*35-2-70
 French Cable Co. in the U. S....@25-3-16
 Fullerphone, the.....@30-3-16, *R8-23
 Ghegan Patents, keys and sounders@42-3-17
 Gill selector.....34-4-54
 Illinois and Mississippi Telegraph Co.42-4-43
 Indo-European telegraph, the.....*28-1-22
 Instrument makers, early.....*24-2-10
 KWR-37 RTTY crypto receiver.....*38-3-49
 Martin, Horace G., "The Telegrapher"@43-4-62 + *44-1-52 + *44-2-48
 Morse, Samuel, final message.....@42-1-65
 Morse circuit, commemorative, 1971.11-4-9
 Needle.....*31-4-23, *33-4-41
 Omnigraph, disk codes.....*35-1-54
 Optical telegraph, the.....25-1-16
 Phelps, George M.....40-2-21 + @40-3-41
 Poem, "Charge of the Lightning Sender"*17-4-10 (& *33-2-13)
 Printers, early.....*32-3-37
 Printing telegraph, impact of the29-34 (pic), *34-1-50
 Privacy device, A-3.....@R11-151
 Quadruplex.....*33-3-41
 Railroad dispatcher's call (W. E. 60-type selector).....*34-4-53
 Railroad stations, early.....20-3-8
 Railroad telegrapher, Father was a *25-2-20
 Railroad Telegrapher, job functions *45-3-19
 Relays, 1872 view.....45-4-41
 Rowland Octoplex.....*40-4-41

Signal Corps in Siberia, 1919.....*33-4-48
 Siphon recorder, unusual.....25-2-25
 Songs, telephone-related.....12-4-13
 Sounder, driven by radio.....7-1-2, 14-4-13
 Sounder, largest.....25-3-39
 Sounders, 1872 view.....*45-4-42
 Spare parts, for keys.....15-2-5, 15-3-12
 Stock ticker, Bunnell.....*11-1-3
 Stock ticker.....*37-4-34
 Submarine cables
 1800s.....@R17-73
 1900s.....@R18-49
 Tapes, perforator.....*26-2-11
 Tapes, recording on paper.....*26-1-25
 Telegraph and electrical gear, early makers (R).....*46-4-64
 Telegraph circuit
 Basic.....24-1-33
 Basic plus line relays.....26-1-32
 Telegraph instrument classification...*32-1-35
 Telegraph laboratory, 1913.....*35-2-16
 Telegraph office, in the old.....29-1-12
 Telegraph sesquicentennial..*35-2-1, *35-4-1
 Telegram, first train.....12-1-5
 Telegram, WU singing.....15-3-18
 Testboard, early (telephone).....21-1-32
 Theatrophone.....@33-3-10
 Time-of-day announcements.....*21-4-24
 Time signals, telegraphic.....43-3-57
 Vail register.....@42-2-42
 Visual signalling instruments.....@44-1-44
 Western Electric and the telegraph@44-3-62
 Western Union...18-2-26, *26-4-31, *41-3-45
 Singing telegrams gone.....15-3-18
 Repeats 1869 message.....10-1-23

TEST EQUIPMENT

(Authors listed are columnists and writers of stand-alone articles or book reviews of a page or more, excluding routine administrative material. Where material appeared in a recurring column, the actual author is the one listed.)

- "R. A." [Kelley]
"Ring of Fire" at W2VW.....*25-1-12
- Abramson, Albert**
"Alley-Palley": 1936-1986@29-3-16, + @29-4-24
- Adams, Mike**
New Perham Foundation Electronics Museum Planned.....*36-3-18
One Hundred Years of Radio: 1895-1995 *36-3-19
Race for Radiotelephone, The: 1900-1920 @R10-79
Terry's First Radio.....*35-3-36
- Affelder, Charles**
Restoring an Astatic Condenser Microphone 23-1-13
- Allen, Bob [Kelley]**
Collecting Early Radio Batteries.....@28-4-16
Consoles on Display.....*26-2-18
Early RCA Superheterodynes.....*27-2-34
Historical Preservation At Its Best..*26-3-20
Mercury Super Ten, The.....*26-3-18
Midget Receivers.....*25-1-32
Release Dates for Popular RCA Receivers and Speakers.....*28-3-11
Tube Collectors: Don't Overlook Modern Tubes [Amperex Neutron].....*26-3-30
Novice Collector, The, and His First Set*22-2-12
- Ammon, Richard T.**
How a Judge "Unlocked" the Superheterodyne Circuit.....*43-3-55
- Anderson, John M.**
A Sketch of Early Radio Vacuum-Tube Research and Development at the General Electric Company.....@R4-6
General Electric Company, The, Considers Buying the de Forest Radio Telephone and Telegraph Co., 1916.....@R6-13
General Electric XR-1A, The.....*44-4-58
Supplying Tubes, Sets, and People to RCA: The General Electric Connection...@R5-1
Station SAQ Gets a New Lease on Life [with Benson, Lennart].....38-2-47
- Anderson, Leland**
A Glimpse of Wireless Days.....*31-1-10
John Stone Stone on Tesla's Priority in Radio and Continuous-Wave Radiofrequency Apparatus.....@R1-19
Priority in the Invention of Radio: Tesla vs. Marconi.....Mono. No. 4
Silent Tower, The [Tesla].....*9-18
- Applegate, George**
A Brief History of Early Detectors*2-2-5, *33-2-7 (R)
Crystal Detectors.....*4-3-11, *33-2-8 (R)
Magnetic and Electrolytic Detectors2-4-11, 33-2-7 (R)
- Aquilino, Leonard**
Bush & Lane Radio, The.....@36-1-30
Restoring a Philco 17.....*29-1-10
Silvertone Model 1670, A - "It Looked Brand New".....*33-3-14
- Archibald, Dr. Fred**
An Inexpensive Power Supply for Battery Radios Using Off-the-Shelf Parts*30-3-32
- Armstrong, Edwin H.**
Audion, The (R).....*23-4-32
- Arzoomanian, Leonard**
Thomas P. Gibling and His Radioear Model RL.....*30-4-9
WJAR in Providence, Rhode Island*33-3-44
- AT&T Co.**
Construction Details on the WECO 416 Family *30-1-19
- Atlee, Frank**
Atwater Kent Mfg. Co.....@7-3-15
Production Dates of Early Atwater Kent Sets *14-1-30
- Babbert, Steven J.**
Birth of the Transistor, The.....@39-26
- Babcock, Larry**
1999 Annual Conference, The.....@40-4-15
Annual Conference, The: One Man's Impressions
2000.....@41-4-13
2001.....@42-4-15
2003.....@44-4-13
2005.....*46-4-24
- AWA Bradenton Meet, The.....*39-3-41
AWA Carolinas Chapter Annual Spring Meet, The.....*38-3-18
AWA Spring Meet.....*37-3-41
Extravaganza '95.....@36-4-42
Extravaganza '93.....*35-1-32
"Found at Bloomfield," 1993 (*Modern Electronics*).....*35-1-13
IHR Spring Meet.....*33-3-8
Meet Report Extravaganza.....@40-3-12
Michigan Spring Meet, The.....*36-1-12
Museum News: NFWA's Federal Exhibit *34-3-60
Niagaradio '96.....@38-1-18
Niagaradio '97.....*39-1-42
Ralph 124C 41+.....@35-3-31
Report on the ARCI Meet, A.....*32-3-6
Report on Niagaradio 2002.....*44-3-28
Report on Niagaradio 2003.....*45-3-43
Restoring a 67-½ Volt Battery.....*32-2-7
Son of "Meet Report Extravaganza"@41-3-13
- Babcock, Ted**
1998 Annual Conference, The: One Man's Impressions.....*39-4-8
- Bach, J. K.**
Amateur's Favorite, The - The UX-210 Tube *28-1-32
Gold-Plated 416B Tube, The.....*29-1-32
SN-856-F, The.....26-4-24
- Bacon, Christopher**
Commemorating the 75th Anniversary of Radio Central.....@R10-151
- Baird, Malcolm**
Eye of the World: John Logie Baird and Television (R)*38-3-40 +*38-4-46 + @39-1-29
- Baker, Keith**
Method of Displaying Tubes, A.....*42-3-50
- Baker, W. J.**
Letter "S," The (R).....*15-4-20
- Balaton, Attila**
Elements of Reference for Identifying and Dating Western Electric Electron Tubes @R5-109
Tube Manufacturing at Western Electric: The WE 300B.....@R4-45
- Banker, Dennis**
Recreating the General Electric Octagon Scanning-Disk Television Receiver.....@43-2-60
- Bardeen, John**
Early Days of the Transistor, The: 1946 to 1955.....@40-1-16 + @40-2-24
- Barrett, Dick**
First WAC Certificate, The (R)7-2-5, *35-4-17
- Bartram, Graeme**
Marconi v. British Radio Telegraph and Telephone Company: The Patent Case That Changed the World.....@R13-39
- Base, Robert E.**
I Remember Television 25 Years Ago*39-1-49 + *39-40
- Bassett, Leigh**
A Solid State Filter Choke or Field Coil Replacement.....*45-2-14
- Bechtold, Dave**
Sylvania Tubes - Still Glowing.....*22-2-14
- Belanger, Brian**
Pavek Museum of Broadcasting, The (R)..*35-2-62
- Benson, Lennart**
Station SAQ Gets a New Lease on Life [with Anderson, John].....38-2-47
- Berezowski, Henryk**
"Elektrik" Radio Engineering Company - Vilnius, 1925-39 [with Paskowski, Piotr]*34-4-30
- Biddle, William**
Short History of Day-Fan.....*20-1-20
- Bilski, Art**
Dr. Ralph "Doc" Muchow 1917-2000: A Friend Gone But Not Forgotten.@41-2-42
- Birdsong, John**
Obsolete Tube Substitution [1S4 for 201A, etc.].....*21-2-29
- Bisaillon, Chris [source]**
Tech-Manual Art - A Canadian View@34-2-53, @35-3-13 (R)
- Blackshear, Roy S.**
Trans-Pacific Radio-Telephone Circuits and the A-3 Privacy Device.....R11-149
- Blisard, Karen**
Early Wireless Pack Sets: Spark Hits the Beach [with Russ Kleinman et al.]@R16-96
Motor Buzzer Transmitters: Spark Goes QRP! [with Russ Kleinman and A. J. Link] @R18-1
Spark Keys: the Interplay of Wireless History and Technology [with Russ Kleinman, Felicia Kreuzer, and Jim Kreuzer]@R14-7
The Spark Key Project [with Russ Kleinman] @R14-82
- Bliley, Charles**
Bliley Electric Co., The - The Early Years: 1930-1955.....(Unnum. mono.)
- Blonder, Isaac**
Job Hunting in the '30s.....*29-1-13
- Blossom-Smith, Cicely [Kelley]**
The Auto Radio - A Romantic Genealogy (review).....29-1-41
- Bohlander, Paul**
All-Star Junior Communications Receiver, The: A Kit for Lean Depression-Ear Purses [with

Fizette, Bill]*46-4-33
 "All-Star Senior, The" - A Depression Receiver.....*32-2-42
 Navy Model RAS Receiver, The: A Thinly Disguised HRO Junior?.....*31-3-33
 Radars for Navy Fighters.....*31-2-47
 Radio As It Used to Be.....*41-4-57
 Radio Memories from Two Eras.....45-2-21
Bollinger, Walter
 Radio Boys, The, Visit Nova Scotia*33-3-50
Boucicault, Dan [Kelley]
 G. E. Model 4100-J, The.....*29-3-39
Bourbin, Paul
 Genesis Revisited: The Commemoration of the First Wireless Message on the West Coast.....@41-1-50
 Rejuvenating an Electrolytic A- and B-Battery Eliminator.....*31-2-10
Bowers, R.
 Devil at the Key, The (R).....*21-2-14
Boyd, Bruce
 Notes on the Westinghouse Model RC Radio Receiver.....*26-2-30
 Remarkable Job [new arc xmtr].....*15-2-25
Bradford, Henry M.
 Cape Breton Stations of the Marconi Transatlantic Radio Service*41-3-32 + *41-4-36
 Celebration of 100 Years of Radio in Cape Breton, Nova Scotia.....*36-4-12
 Did Marconi Receive Transatlantic Radio Signals in 1901?.....*44-1-40 +*44-2-64
 Marconi Transatlantic Wireless Receiving Station at Louisbourg, Nova Scotia, The @42-3-44
 Tesla's Dream: The World System of Wireless.....@40-1-28 + 40-2-28
Braunbeck, Joseph
 Cold War and Hot Radios: Vienna in the Early Fifties.....@43-3-23
Brelsford, Charles
 Cockaday Four-Circuit Broadcast Receiver, The.....*26-1-8
 Founding and Development of the Antique Wireless Association and Its Museum, The @R1-7
Brewster, Richard
 Adventures of a TV Serviceman*42-2-34 + *42-3-25
 Albert Abramson - TV Historian.....*38-1-38
 AWA Receives Antique Television Collection *36-4-17
 Columbia Is Telecasting!.....*45-3-16
 Diminutive Echophone Model 41, The *41-3-29
 Educational Television in the 1930s *42-1-26
 Fifty-One Years of Color Television *46-2-61
 First Post-War Philco TV, The?.....*40-3-50
 First Really Portable TV, The.....*45-2-24
 Historic TV Camera Abandoned on the Moon *35-4-14
 Inside the Baird Studio Scanner.....*38-3-20
 Ken McIntosh - TV Historian.....*43-1-62
 Michael Bennett-Levy.....*46-3-14
 Moses Znaimer TV Collection.....*37-4-12
 Operating the TRK-12.....*41-2-48
 Original Television Girl, The.....*45-4-15
 PARS Helps KDKA Celebrate Its 70th Anniversary.....32-1-25
 Philco Mystery Control, The: Forerunner of the TV Wireless Remote.....*44-4-51
 Restoring Later Pre-WW II Television Receivers.....*42-4-51
 SEE-ALL Television Receiver, The .43-3-33
 Slaby-Arco Wireless on USS Baltimore *31-4-4
 TAC Telesvisor, The.....*46-1-12
 2005 Early Television Convention, The *46-4-55
Briggs, Richard
 Spark-Coil I. C. W. Replica Transmitter with Optional Conversion, A.....*17-2-20
 Early Pentode Tubes.....*16-3-26
 Standard Frequency Station 1XM... *20-3-30
Briggs, Thomas
 Arthur Wehnelt & His Wonderful Cathode @23-3-19
 Czarist Russia Made Tubes!.....*24-1-30
 Edouard Branly and the Coherer.... *24-4-23
 Triode That Predated de Forest, The: Robert von Lieben and the LRS Relay@R5-45
Brown, Stephen
 A Comparison-Contrast of the Aeriola Grand and Radiola Grand.....@35-1-6
Brydges, Chuck
 More Double-Lever Mystery [McNew key]*34-1-51
Burnham, Brad
 Specialized DX Listening on Longwaves*9-3-16
Burton, Norm
 LF News from Down Under.....*8-3-17
Buzalski, Thomas
 Field Test of the Armstrong Wide-Band Frequency Modulation System from the Empire State Building, 1934 and 1935...@R1-109
Byam, Peter
 1934 Amateur Station at ZL2JJ, Waverly, New Zealand.....*29-1-18
 A Single-Signal Receiver.....*28-1-14
Byron, William
 Arc Method of Producing Continuous Waves, The.....@R7-119
Cadrecha, Dr. J. M. and J. S.
 Filament Power Supply for 5.0 Volt Tubes *19-3-16
Capen, George
 Transformer Substitute.....*22-4-30
Carlson, W. L.
 First Super Heterodyne Receivers [letter]*12-1-21
Casale, John
 Bunnell Double Speed Key, The: Was It Really Introduced in 1888?.....@44-4-44
 Bunnell vs. Bunnell.....@43-1-42
 Centennial of the Martin Vibroplex@ 46-2-51
 Early Manufacturers of Telegraph and Electrical Equipment [source for] (R).... *46-4-64
 Evolution of a Triumph, The.....@43-2-54
 Forgotten Vibroplex Patent, The....@45-2-40
 Franklin L. Pope - Telegraphic and Electrical Engineer.....*41-3-45 + @41-4-48
 George M. Phelps - Instrument Maker40-2-21 + @40-3-41
 Ghagan Patents, The.....@42-3-17
 Horace G. Martin, The Telegrapher@43-4-62
 The Phillips System and the Autoplex*44-1-52
 A Vibroplex in Every Telegraph Office*44-2-48
 John C. Barclay: Western Union's Chief Engineer, 1902-1910.....@43-3-50
 John La Hiff and the Vibroplex Company @46-1-17
 Signature of the Father.....@42-1-65
 Technical and Legal History of the "Bug" Trademark.....*45-1-50
 Telegraph Instrument Factory of John Dean Caton, The.....@42-4-43
Champeix, Robert
 Who Invented the Superheterodyne?@R6-97
Chaplin, Maurice
 "Just Plug-In - Tune In" - The First Commercial Light-Socket Operated Radio Receivers with AC Tubes from Rogers Ltd., Toronto, Canada.....@R15-147
Chauncy, John [Kelley]
 Collecting Short-Wave Converters....*26-3-37
 Collecting Wireless Operators' Insignia*26-2-35
 Jacks, Jacks!.....*24-1-22
 Novelty Radios.....*25-2-14
 "Magic Eye" Tube, The.....*24-4-30
 Replacing Dial Cords.....*25-3-31
Chesson, Fred
 Classic Radio, A - The Navy ARB Aircraft Receiver.....@31-2-43
 Electronic Military Equipment - Naval Equipment Manufacturers.....@R7-69
 Navy Electronics Directory.....@R8-123
 Gift of the Electronic Magi, A - A Radio Row Christmas Story.....@40-1-24
 [source for] Navy Avionics Equipage, Late WW II.....*30-3-22
 Signal Corps SCR-RC-BC Directory @R6-49
 Thoughts on the *Citizens Radio Call Book* of 1927.....@37-1-32
Chidester, Buford
 Cone Speakers of Michigan.....*46-1-48
Childress, Wayne
 Addendum to the National Section of Moore's Communications Receivers.....@37-3-28
 National Company's NC-57, The@36-2-11
Clark, George
 Collector's Choice, The - The SE-1420 / IP-501 Receiver [with Kelley, Bruce] (R)@22-3-14
 Early Marconi-RCA Periodicals.....*8-1-12
 Eaton Tube Collection, The - 1. The Story of the Tube Collection of the Washington Navy Yard.....@R6-1
Clark, Vic
 Amateur Radio Postage Stamps.....*23-1-10
Cobaugh, Robert
 Early Hi-Fi AM Broadcast Receiver *26-1-14
 John V. L. Hogan.....*10-2-1
 What Time Is It? [with Kelley, Bruce]*21-4-24
Coffey, William N.
 Memories of a VOA Visit.....*41-2-47
Cohen, Henry
 "Transistorland" series:
 Book Reviews, and Those IEI Capacitors*34-4-44
 Collector's Guide to Transistor Radios - Identification & Values (review)....*35-1-30
 Core Collectibles.....@34-3-44
 In the Beginning, etc.....34-2-39
 Prices, Price Guides, & Videotape.*34-1-44
 Transistor Radios - Mature at Last*33-4-24
Collings, Lewis
 SC-MSC - A Famous Pioneer Wireless Station.....*10-4-18

Comer, Mel
A Christmas Trip to Cortlandt Street (R)*45-3-26

Condon, William
de Forest DL-DV Series, The.....@23-4-12
Moorhead and the Electron Relay@29-3-12 + @29-4-14

Constable, Anthony
B. V. W. S. Editor Attends AWA Conference *22-1-22

Crandell, C. F.
Visit to an English Wireless Museum [Gerald Wells].....*25-1-6

Crane, H. Richard
Coherers Revisited*41-2-25

Crocker, Dave
Borkman "Jewel Case" Speaker, The43-4-53 + *43-4-53
Bosch Dragon, The.....*42-4-14
Boudette Mfg. Co.: The Sonochorde Family of Cone Speakers.....*44-2-24
Ceramic Horn Speakers.....*45-3-37
Clapp-Eastham Electro-Ampliphone, The*46-2-25
"Confucius," The*42-3-11
Crosley Magfon, The.....*43-3-19 (Radio Reproducers) - Moon.....*42-1-41
Ensco Speaker Kits, The.....*45-4-18
"Githens Truetone," The, Alias the "Jerome" *42-2-36
Majestic Celluloid Horns, The.....*43-2-23
Mozart & Remo Horn Speakers, The*44-4-27
Murdock Model 500 Speaker, The.. 44-3-20
Operatone Horn Speaker, The.....*44-1-37
Telmacophone Loudspeaker, The.....*45-2-20
Temple Horn Speaker, The.....*46-3-15
Utah Ship Speaker.....*41-4-44

Crompton, Doug
Opening the Atwater Kent Time Capsule [with Fizette, Bill].....*38-1-26

Cross, Jim
Five "New" 1600 Series Tubes.....*39-1-56
Van Horne Tube Company, The.....@35-2-8

Dachis, Chuck
Collecting the Big "Little h".....@21-4-8

Dameron, David
Building Small Receivers.....*34-3-51

Danielson, G.
Reforming Electrolytic Capacitors.....*28-3-40

Davis, Carl
What Did a Railroad Telegrapher Do, Anyway?..... 45-3-19

Davis, Henry
Capacitor Checker and Reformer....*20-2-30

Davis, Jack
Antique Television Restoration.....*31-2-22
Brewster's Baird Television Demonstration @27-2-8
Color Wheels of the '50s.....*33-4-22
General Electric Octagon Receiver, The*30-1-12
Getting Started in Television Collecting@27-3-16
Historic Television*26-2-12 +*26-3-32 + *26-4-18
John P. Taylor - A Man of Unique Talents *29-1-37
Museum of the Moving Image.....*27-4-34
Philco Predicta, The.....*28-4-32
Pilot TV-37, The.....*28-1-20

RCA 630, The.....*25-3-14
Retain, Restore, Replicate?*29-3-26
Television Topics.....*28-3-22
Theatrophone.....@33-3-10

De Henseler, Max
Volksempfänger, The.....@25-2-8
Marconi and Elettra Reunited.....*26-4-8

Deeley, Dexter
Bruce Kelley, Friend.....*39-1-38
History of the C. D. Tuska Co. ...@21-1-6

DeNeuf, Don
1905 Death Valley Coyote, The.....*27-2-11
Amelia Earhart Mystery Solved?.....*28-4-24
American Morse Code vs. Continental*27-1-36
Armstrong's Early Radiotelegraph Development *26-3-25
Bain's Chemical Telegraph.....*29-3-20
Code Curiosities.....*20-4-8
"DENNE" Graf Zeppelin Calling.....*21-2-21
DX Broadcast Monitoring and Ekko Stamps *29-2-4
First Remote-Controlled BC Transmitters [Rural Radio Net].....*24-4-10
French Cable Company in the United States, The.....@25-3-16
History of Press Wireless Inc., A@19-1-12
History of Press Wireless Inc., More*30-3-29
History of Wireless in Public Telephone Service.....@20-2-16
Impact of the Printing Telegraph....*34-1-50
Incredible Indo-European Telegraph, The*28-1-22
Kleinstone Perforator Tape*26-2-11
Optical Telegraph, The.....25-1-16
Partings, Percha, Punctures, and PQ*16-1-16
Quadruplex, The [with Sibley, Ludwell]*33-3-41
Some Notes on Marconi.....*25-2-13
Status of High-Definition Television *29-4-38
Tales of Tapes*26-1-25
Telegraph Stamps.....*23-2-8
Trip on the New Princess, A.....*19-4-34
Western Union.....*26-4-31

Denk, Bill
Crosley and the Crosley Broadcaster@34-1-17
Elusive Frame of Television History Preserved, An [Philco].....@R4-99
Jagadis Chunder Bose and His Galena Detector.....@27-1-16
Mahlon Loomis and His Patent.....*38-1-28
Resurrected Trirdyn, A.....*36-2-20
Two Rich Minds - One Poor Invention (R) *45-2-54

Dennison, Bob
1929 QSO Party Transmitter, A.....*26-1-34
1929 Regen, A.....*35-3-47, (R) *36-2-28
1933 Victor Two-Tube Superhet, The*31-2-17
Cigar-Box Radio, A.....*31-3-35
How to Get Good Black-and-White Photos *30-4-36
It Is Time to Build an Early 1929 Receiver @26-3-22
Make Your Own 45-V B-Battery.....*32-2-9
Making Your Own Grid-Leak Drip Pan*35-3-35
"Modernized" Philco Baby Grand, A*35-2-44
Photographing Radio Tubes.....*32-3-8
Replacing Open Audio Transformers in Broadcast Receivers with Cascade Circuitry *29-1-16

Dixon-Nuttall, Geoff.
Philips Monoknob Receivers, The...*31-4-10

Demersman, Pierre
Radio Direction Finding and "Huff-Duff" [with Foster, Richard C.].....R13-98

Douglas, Alan
A. C. Supply for Radio Receivers - How the Lowell & Dunmore Patents (Almost) Changed the Industry.....@R3-61
[source for] Alan Douglas, Radio Historian*28-4-25
Another Odd Tube [Buchhold integrating accelerometer].....26-4-24
Collecting Old Radios and Crystal Sets (review).....*18-2-26
Cutting and Washington - History of a Pioneer Radio Company.....@22-4-6
Dynergy - The First American AC-Powered Radio.....@28-1-10
Howard/Silver/Hallicrafters Time Line, The*39-4-52, 40-2-19, 41-3-8
How General Radio Fumbled the Ball*37-2-50
Joseph Henry - The First To Send and Receive Radio Signals?.....*21-1-24
Lesson in Radio History, A [Lester Jones] *26-2-8
Loewe Radio.....*21-2-16
Loose-Coupler Crystal Set, A.....*32-4-16
McMurdo Silver and His Coil Patent *35-1-26
Modulascope, The.....*19-1-10
Origin of the BC-191/375.....*32-1-15
Paragon.....@24-1-6 + @23-4-6
Patents.....*24-3-16
Peripatetic Audion, The.....*33-4-19
Radio Products Co. [with Norwood, Wilson] *23-2-6
Raytheon "A," The.....*25-4-18
Raytheon 4-Pillar Tubes.....*23-3-21
RDG, The: An Unusual HRO-Derivative [with Sibley, Ludwell].....*32-2-46
Repairing Magazines.....*23-3-30
Restoring A CRL Paragon - and Other Topics.....*20-4-6
Restoring Radio Magazines.....*31-2-20
Rider Voltohmyst, The.....*38-4-32
Schickerling Tube, The.....*27-1-20
Short History of Clapp-Eastham Co.@20-2-6
Star Tube.....*25-3-32
Story of CeCo and Triad Tubes, The*21-3-12
Story of the James Millen Mfg. Co., Inc., The.....@22-1-6
Thoughts on Tube Testing, or What Does That "Good-Bad" Scale Really Mean?@36-2-31
Vacuum-Tube Photography*FS2-2-3, *33-2-40 (R)
Westinghouse Short-Wave Broadcasting Using an Unusual Receiver [with Elskamp, Rich].....*18-4-18

Dowd, Bro. Patrick
201 Tube, The.....*32-3-34
201/201-A Saga Finale, The.....@36-2-46
Dates in the Development of Solid-State TV Scanners and Image Sensors, 1964 to 1984.....26-3-31, *35-4-46
Early History of the Vidicon.....*23-4-10
Fritz Lowenstein, The Forgotten Man of the Vacuum Tube.....@R905
GE's 12B7 Blue-Metal Octal Tube.*37-4-33

GE's Micro-Miniature Metal-Ceramic Tube Family.....@38-4-49

George M. Rose - A Man Ahead of His Time*39-3-26

Heintz & Kaufman Gammatron 255, The@32-4-14

History and Development of the All-Metal Radio Tube@16-4-12 + @17-1-15, @33-2-22 (R)

History of the CG-886 (Type G Pliotron), The*25-2-32

History of the Vacuum Tube, The - Vacuum Tube Display Panels on Exhibit [Manhattan College].....*28-3-30

Master List of the 201/201-A Brand Names *28-4-34

Nuvistor Story, The.....@38-3-26

Project Tinkertoy.....*38-2-53

Radiotron Model UV-877*26-2-33

RCA's "Special Red" 10,000-Hour Tube@41-2-63

Unresolved Mystery of the 201/201A, The*27-3-24

UV-199, The.....@39-4-29

UV-204 Tube, The.....*25-1-30

Vacuum Tube Reference Books*38-1-24

Dreher, Joseph

1935 Receiver and 210 Hartley Transmitter, A *35-3-45

Tin-Can Doublet, The.....@40-2-50

Two Hams from California.....*36-2-22

Drogoski, Tad

If You Cannot Acquire - Replicate [WE 3B receiver]*37-2-48

DuBois, Alton

Casting Replica Metal Parts.....*35-2-27

Railroad Dispatcher's Call [W. E. 60-type selector].....*34-4-53

Saving a Crosley 628.....*34-1-21 (Westinghouse 120 Restoration).....44-3-21

Dupertuis, Michael

The Vocaphon Baby.....*30-2-18

Duvall, Edward

A History of the National Electric Supply Co. @R8-117

Eaton, Lt. W. A.

Eaton Tube Collection, The - Appendix - Description of Vacuum Tubes in Navy Service..... @R6-1

Edge, Fred

Replica Audion Unit II [with Stump, Earl]6-3-7, *28-1-35

Ekstrom, Joel

Some Remarks on Tunable Double Tuned Circuits.....*46-1-56

Ellis, Marc

AWA AM QSO Party Results*46-2-42

More on That Tomer Tube-Tester Quote*36-4-49

Elskamp, Rich

Westinghouse Short-Wave Broadcasting Using an Unusual Receiver [with Douglas, Alan] *18-4-18

Emmerson, Andy

Keeping 405 Alive.....*39-4-62

Emery, Frank

British Mark III WW I Receiver.....*16-1-12

England, Earl

Scott Receiver Story, The.....*7-1-12, *33-2-18 (R)

Ensanian, Berj

Reweld Broken Tube Filaments.....*34-2-16

Erickson, Ero

Silent Period, The*21-1-12

Espenschied, Lloyd

Early Chapter in Radio-Electronics, An @31-1-12

How Did de Forest Invent the Audion?*4-1-4, *31-3-9

Ewing, Gaylord

Collecting Early Wire and Tape Recorders *22-4-12

Fandt, Christian

Silent Brass - A Brief Biography of Earl W. Korf, K2IC.....*45-2-63

Farmer, Paul

Regency TR-1, The: Fifty Years Later@R17-1

Fazano, Carlos

Birth of Semiconductor Electronics, The@39-3-12

Brazilian Collector, A (Edison de Freitas)*31-4-14

Brief History of the Valve Audio Amplifier, A @R7-91

Collecting Antique Radio Logos*35-1-16

Collecting Antique Electrical and Electronic-Wireless Artifacts in Brazil.....*28-2-40

Collecting Antique Instruments*30-4-33

Collecting Antique Literature on Electronics @27-1-15

Collecting Vintage European Radios in Brazil @33-1-22

Collecting Wireless Artifacts in Brazil

Restoring a Preamp from the Golden Age of Hi-Fi*44-2-73 + *32-4-34

Restoring a Preamp from the Golden Age of Hi-Fi*44-2-73

Restoring a Vintage Cone Speaker *31-2-15

SNE Historical Museum, The [Brazil] *30-3-46

Tips on Collecting Antique Incandescent Lamps.....@31-3-17

Fisher, Charles

HRO Report, The: Dating the Early HRO @R4-32

FitzGerald, Anton

A Psychological Foothold.....*35-4-55

Fizette, Bill

1935 Lafayette 56-MHz Superhet Kit, The*32-4-27

1936 American Airlines HRO Communications Receiver, A*34-4-33

1936 Regenerative Receiver, A - The Sargent Model 11.....@26-4-20

1937 National NC-81X, The.....*43-2-17

1938 Raco "Super-Clipper," The...@33-1-26

1990 AWA Conference Report*31-3-22

1994 Merger [sic] of the Antique Wireless Association and the Antique Radio Club of America, The.....*38-4-8

All-Star Junior Communications Receiver, The: A Kit for Lean Depression-Era Purses [with Bohlander, Paul].....*46-4-33

AWA Profiles: Kenneth Lum-King, ex-K6BAZ *30-1-11

Bruce Kelley Legacy, The.....*39-1-4

Building the 1936 QST Simplified High-Performance Superhet.....@37-2-54

Depression-Era Receiver for the Beginning Amateur, A.....*46-3-25

Early National HRO Receiver, The@24-1-11

Early REL Amateur Receiver, An: The 1929 "Old Standby" No. 193.....@34-2-33

Early Television Gear at the AWA Museum [with Kelley, Bruce].....*38-3-30

Fire and Flood: Fact or Fiction....*42-4-38

Hallcrafters "Sky-Rider" S-1 Short Wave Receiver, The.....*38-1-22

Hammarlund Comet "Pro" Receiver, The@25-4-10

James Millen Commemorative Station at AWA, The [with Raide, Bob].....@35-4-41

K3DA Regenerative Receiver, The [with Gunnoe, George].....@35-2-40

Japanese Model R-140M, The.....*40-4-8

K-L-K 4-Tube Regenerative Receiver, The @36-3-22

Mackay Radio Model 138-B Marine Communications Receiver, The.....*39-4-45

Marine Radio . . . The RMCA Model AR-8504 Shipboard Receiver.....*35-1-28

McMurdo Silver 5C Communications Receiver, The@27-1-22

More on the HRO Receiver.....*25-1-14

National AGS-58C Airport Communications Receiver Assembly, The.....@28-3-12

National Company at War, The.....*40-1-54

National Company HRO-7, The....@42-2-27

National Company RH- Airport Receivers, The@37-1-11

National Company Model RPW-3 Communications Receiver, The.....*41-1-20

National Company's AGS, The - A Commercial Communications Receiver.....@28-2-14

National Company Desk-Mounted Station, A *41-2-55

National Notes Nos. 1 - 6.....*35-3-17

National Notes No. 7 - Restoring PW Dial @36-4-8

National Notes Nos. 8 & 9 - Restoring the HRO Communications Receiver; Applying Power to the Rebuilt HRO@38-3-35

National Notes Nos. 10, 11*38-4-37

National Notes - A Continuing Series [#12, #13].....*39-20

National Notes - A Continuing Series - Note 14: Removing the Coil Tray from a Sliding-Coil Receiver.....*41-3-41

National Sliding-Coil-Tray Receivers, The*28-4-20

Notes on Resurrecting a Very Sick National NC-300 Amateur Communications Receiver @36-1-16

Opening the Atwater Kent Time Capsule [with Crompton, Doug].....*38-1-26

Passing of a Legendary Figure, The - Bruce L. Kelley, W2ICE.....*39-1-34

Remarkable FB-7 Receiver, The@26-2-14 + @26-3-34

Remarkable National SW-3, The...@44-4-28

Restoration of the Early HRO Receiver [with Wiesner, John].....@24-3-12

Restoring a Classic National NC-100 Receiver.....*41-4-11, *42-1-37

Restoring National PW and NPW Capacitors *33-1-33

Restoring the BC-348 World War II High Frequency Aircraft Receiver to Operating Condition.....@27-3-20

Restoring the National Company Sliding-Coil Receivers.....*29-1-20

Restoring the National PW Dial Drive@36-4-8
 Scott SLR-M, The: A Wartime Entertainment
 and Communications Receiver.....*43-3-21
 Silver-Marshall "Round-the-World Four," The
 @26-1-10
 Some Notes on the National NC-46*40-3-31
 Structured Approach to Fixing Up Those
 Nice Old Radios, A
 1, Your Reference Sources.....*41-1-57
 2, Your Work Area, Tools, and Some
 Philosophy About What and What Not to
 Do.....@41-2-32
 3, Test Gear, The Vacuum Tube Volt-
 meter, The Capacitor Checker.....*41-3-22
 4, More Test Gear, Identifying Com-
 ponents, More Study.....41-4-28
 5, Condensers and Resistors.....*42-1-35
 6, Repairing an AC-DC Radio, The Na-
 tional SW-54.....*42-2-54
 7, Repairing a 1951 Personal Portable*42-
 4-47
 7 bis, Fixing Up an National NC-44@43-1-
 24
 8, Restoration of a Meissner 8-Tube
 "Combination" Kit Receiver, Part 1*43-2-67
 10, Restoration of a Meissner 8-tube
 "Combination" Kit Receiver, Part 2*43-3-61
 - , Taking Stock of Where We've Been43-
 4-41
 - , Repairing a Depression-Era Economy
 Radio Receiver.....*44-1-49
 - , Attending to a Family Heirloom: The
 1935 Model 630 Warwick Three-Band
 Tombstone.....*44-2-53
 - , Restoring a Power Supply - The Na-
 tional #697 "Doghouse".....*44-3-58
 - , Restoring a 1930s National SW-3
 Regenerative Receiver.....*44-4-54
 - , More on the National SW-3..45-1-56
 - , Rehabbing a Home-Built Communi-
 cation Receiver.....*45-2-46
 - , Repairing a 1940 Howard Model 437
 *46-3-46
 - , Resurrecting Grandpa's AK20 46-4-36
 Those National AC-DC Receivers....*43-1-16
 Those National 6-Prong Plug-In Coils@34-3-
 38
 Those National Power Supplies.....@34-1-25
 Western Electric 9-type Aircraft Receivers,
 The.....*29-46 + *29-4-18
 World War II National HRO, A.....*44-3-42
 WW II Vintage Japanese Military Airborne
 Radio Receiver, A.....*39-1-24
Fleming, Joe
 Last Legitimate Spark QSO?.....*28-1-37
Fortin, Bob
 Tube Numbering.....@26-1-16
Foster, Richard C. [with Pierre Demersman]
 Radio Direction Finding and "Huff-Duff"R13-98
Frankenfield, A. L.
 Hail Spark! / How I Built a Rotary-Gap
 Spark Transmitter.....*12-4-26, @26-1-30
Franzoni, Vic
 Marconi: The View from Italy.....*36-3-10
Fred, Jim
 Removing Embedded Components (R)*15-3-23
Frederick, M. L. "Hutch"
 May Lillian Smith - A Pioneer Amateur Oper-
 ator.....*39-3-32
Freeman, George
 Amperite SR 80 with the Casa Loma Band
 41-3-56
 Early Radio Stations: Weeds and Trees
 @R13-124
 Ivory Stamp Club, The.....*45-1-28
 Remembering Ross Smith.....@42-1-55
 Sowing Seeds: Growing America's Broad-
 casting System.....@R15-126
 Traitor! [German poster].....41-1-37
 "The (Wo)man, The Mic" Series
 AKG 202, John A. Gambling.....*45-3-28
 B. Mitch Reed; Electro-Voice Model 6545
 *46-3-52
 Bob Paquette, Western Electric 10-A46-1-28
 Cathodophone; Hans Vogt, Joseph Massolle
 and Joseph Engl.....*44-1-43
 CFRB Combination, John Sharpe and Ted
 Rogers.....46-3-53
 Magnavox ST-4, Al Grebe, Sr.....*42-2-58
 Neumann U-47/U-48, Frank Sinatra *45-2-23
 Prototype for RCA BK-4A?, Jinx Falkenberg
 *46-4-60
 RCA "Varacoustic," Orson Welles... *42-1-46
 RCA 77-A, Helen Field Fisher.....*43-2-37
 Rockwell, Guy Lombardo and Ruth Lyons*41-
 4-45
 Western Electric 600A, Charlie Stookey 42-3-
 32
 Western Electric 47-A, Ruth Etting *43-4-49
 Western Electric 633 "Saltshaker," Kathryn
 Kuhlman.....*44-2-11
 Western Electric D-14293, Janet Dell Free-
 man.....*43-1-18
 Westinghouse Double Button "Tomato Can,"
 William Jennings Bryan.....*44-4-37
 WLW Condenser, Arthur Ainsworth...45-1-15
Friedman, Neil
 83 Years of U. S. Amateur Licensing@R9-25
 Omnigraph Disk Codes.....*35-1-54
Fuller, Glen
 Alexanderson System for Electro-Mechanical
 Production of Radio-Frequency Energy, The
 @R3-120
Gable, Edward
 (Bruce Kelley obituary).....*39-1-68
 Hammond Museum, The New.....*40-4-37
 Restoring the National NC-46.....*31-1-29
Gardner, Ken
 1929 Transmitter, A.....*20-4-24
 [FCC Permits Spark Operation].....*28-4-40
 Modern Operation with Old-Time Transmitters
 *15-1-24
 Modern Operation with Old-Time Transmitters
 - Three-Tube Crystal-Controlled... *15-4-29
 Of Motor-Generators and Hams.....*17-3-24
 Paragon 2-5-U Transmitter, The....@18-4-24
 PR-1-C (RCA UX-240), The*FS4-1-3, *33-2-44
 (R)
 RTTY - Teletype Pioneering on Old WNL10-
 1-18
Garry, Robert
 Voice of Union College, The (R) .@31-1-17
Gibbs, Leo
 Pickard "Golden Audion," The*FS3-3-1 (+ 33-
 2-39)
 R. H. G. Mathews.....*18-1-7
 Some Forgotten Metal Tubes.....*29-2-22
Giganti, Paul
 Annaka Field Crystal Receiver.....*25-1-10
 Special Time Receiver for Observatories, A
 *34-1-7
Gilbert, Wayne
 De Forest Gang Hits Colorado, The@38-2-22
 + *38-3-14
Goodman, Phil
 Restoring a Rare Portable [Zenith].*23-3-34
Goodnow, Art
 1925 Transmitter at W1DM.....*14-2-6
 Across the Gap: An Appraisal of Spark
 Radiotelegraph Engineering.....@R2-21
 KDKA's First Wavelength.....*15-1-21
 Model 1928 Balanced-Demodulator Type
 Heterodyne Receiver.....*16-3-22
 Plating Parts.....*17-2-27
Grammer, George
 Rotten Signals: How to Cure Them@41-1-
 32
Granat, M. L.
 Brief History of Philmore.....*16-4-9
Gray, Jack
 Grebe Radio Story, The@3-4-9, @33-2-14
 (R)
Green, Warren
 Broadcasting Finds Its Founding Father
 [Charles Herrold] (R).....*10-1-14
 Seattle Museum - Federal Arc Exhibit*15-1-22
Grundy, Pamela
 "Anything You Can Think of Doing, We'd
 Just Do It" - the Early History of Char-
 lotte's Radio Station WBT.....R13-115
Gummelt, Pete [Kelley]
 Popov's Detector.....*23-2-20
Gunnoe, George
 K3DA Regenerative Receiver, The [with
 Fizette, Bill].....@35-2-40
Gunshor, Robert L.
 Evolution of a 1922 MOPA Transmitter*41-1-
 38
Hager, Robert
 Line Cords, Grounds, and Safety...*33-1-31
 Simple Battery Eliminator, A.....*32-2-8
Hall, M. D. "Bud"
 Marconi on Cape Cod - Revisited (ed. by
 Fales, H. H.).....@37-2-28
 Major Armstrong and Captain Round: The
 V24 Valve [with Sibley, Ludwell]...*32-4-9
 Robert H. Goddard and the Goddard Oscilla-
 tor.....@R7-151
Hallaya, Igor
 Experimenting with an "Antique" Radiowave
 Detector [with Kryzhanovsky, Leonid]*37-2-
 39
Halstead, William
 Early Amateur Radio.....*21-3-20
Hanlon, Jim
 1945 Hammarlund HQ-129X, The...*44-2-32
 Echophone Commercial Model EC-1, The*44-
 1-38
 Hallicrafters SX-28 Super Skyrider, The
 @43-4-54
 Hallicrafters SX-43, The.....@46-1-42
 Howard 438, The.....45-3-24
 RME-69, The - Most Famous of Its Line
 @45-1-16
Hart, Roger
 Arcon Junior, The - A Missing Link?*36-3-32
 Canadian Marconi "C" Set, The...@34-3-22
 First Thirty Years of the Canadian Marconi
 Company, The [with Robert Murray]R14-92
Hatfield, Philip

A 1930-Style Amateur Receiver.....*25-3-24

Haught, John
Collins 4A Transmitter, The.....*39-1-32
Miller Hi-Fi AM Tubeless Tuner, The*37-4-17

Haus, Randy
2001 Linc Cundall Memorial OT DX Contest, The*42-1-18
2001 O. T. DX Contest Results*42-3-60
2002 Linc Cundall Memorial OT DX Contest, The*43-1-47
2002 Linc Cundall Memorial OT DX Contest, Results of the*43-2-21
2003 Linc Cundall Memorial OT DX Contest, The*44-1-21
2004 O. T. DX Contest Results*45-3-22
2005 O. T. DX Contest Results.....*46-3-56

Hauske, George
Another Unsung Hero: E. N. Rauland*33-1-19
Belden Marks 75th Anniversary.....*18-3-18

Havranek, Barbara
Bakelite Radio, The: An Icon of the 20th Century.....@R14-178
History of the Development of Radio Grille Cloth, The.....@R16-180
Radio Advertising and Fashion.....@R18-65

Hawes, James
Ulises A. Sanabria - Mechanical Television Pioneer.....@38-4-34

Haworth, Bob
Autobiography of an Elderly HRO *40-2-15
Autobiography of a Radio (RCA Victor 28X5) *31-2-13
Biographical History of the AR-88, RCA's "World Class" Communications Receiver, A @32-1-11
Classic Cathedral, A - The Clarion 85 *34-2-8
Constructing A Pre-War Zenith Cage Antenna *36-2-15
Evolution of a Radio Type - Hallicrafters Portables.....*32-3-13
Hum in Your Radiola 41 or Similar RCA? *31-4-32
"I Crown Thee King of the Novelty Collectibles" (Decor, Ltd. Keg Set).....*33-4-46
Kolster K23 - Restoring Another New Jersey - Made Radio.....*36-1-23
Leaky IF Cans in Old Superhets [with Zimmerman, Dave].....*29-3-25
Making Mating Connectors - Course 501*35-4-7
Marlodyne, The - A Man and His Radio *30-4-10
Nostalgic Look at RU Type Receivers, A*38-3-42
"Refrigerator Radio" Restoration, A" [Clarion 400].....*31-2-39
Replacing Capacitors in Military-Type "Bath-tub" Assemblies.....*35-1-53
Restored Gem from Canada, A - CGE's JK53.....*34-3-16
Restoring a Fada 460S.....@29-10
Revisiting the Hallicrafters HT-6 - A Search and Rescue Mission.....*38-1-43
Super Vintage Receiver from Yesteryear, A - The AR-60*37-1-56
"The Manufacturer Reserves the Right [Echo-phone EC-1 restored].....*33-3-42
Trip Down Memory Lane with RCA's ACR-175 Receiver, A.....*37-3-23
World War II Relic Revisited, A - National's NC-200*34-4-31

Heinemann, F. Parker
Collins Radio Company, The - Ingredients of Success.....@R10-222
Three-Watter for the Linc Cundall Memorial OT Contest, A.....@34-4-57

Helgeson, Don
VT-Numbered Tubes and Early Army Radar *30-3-26

Herbert, Ray
Transatlantic Television in 1928....@38-2-40

Herkimer, John
QSL Cards by "Gil" [source for] [with Sibley, Ludwell].....*35-1-45

Herold, Edward
Early History of Complementary Symmetry, The.....@34-2-29
Footnote on An Important Color-Tube Invention, A*33-4-20
Historical Remarks on Local-Oscillator Radiation.....*34-1-38
Memories of Early Electron-Tube Development @R7-15
Radio Receiver Noise - Reminiscences *34-3-27
Tubeless Radio Hoax, The*34-4-21

Hertzberg, Robert
Radio A La Cortlandt St!.....@19-1-4
Radio Receptor Story, The.....*15-3-8

Hillman, Leon
Flying Radio-Controlled Models in the 1930s @43-3-47
World War II Radiosonde Systems@46-3-41

Hoag, Yates
History of the "Hoag" Radio.....*19-3-10

Hofer, Stephen
Farnsworth's Contributions to Modern Electronic Television.....@R1-43

Hojnacki, Stan
Getting on 40 Meters - 1929 Style@46-3-28
Home-Brew SW3-Inspired Receiver, A*45-4-46
Restoring Wrinkle Finishes..23-3-35, 30-3-30

Holden, Howard
Evolution of a 1921 RAC Transmitter@43-3-27
LF/MF Communications Equipment Aboard USS Ling.....@42-1-56

Holden, Hugo
Grid-Leak Detection in the 1920s@41-4-52 + @42-2-66
Restoration of an Andrea KTE-5 Kitset@40-1-51
Restoration of the Meissner 5" TV Kit*40-2-36
Restoring a British HMV 904: Part 1 - The Circuitry.....*44-1-31
Restoring a British HMV 904: Part 2 - The Procedure.....@44-2-251

Holly, Bill
Evolution of the Submarine Telegraph, the, with an Extensive Bibliography.....R17-73
"Missing Link," The (Vibroplex, 1909-11)*32-4-41

Horle, L. C. F.
Eaton Tube Collection, The - 4. Vacuum Receiving Tubes - Report on Collection of Various Types.....@R6-1

Horn, Charles
Wireless Station at Cape Henlopen and Its Spark Coil, The*30-2-14

Horvath, Joe
Restoring a Marconi Type 106.....*23-2-21
Restoring a Melodyne Receiver.....*19-1-11

Houston, Doug
New York City's Radio Row*29-1-24
RCA Victor Television-Radio Combination, Model TRK-12*16-1-3

Howard, William
BBC Monitor Receiver for the Norwegian Resistance, A*39-3-62
Eagle Has Docked, The [radio-room recreation].....@37-2-35

Hudson, Donald
Report on the W1BCG Special Event Operation.....*38-1-31
Special Events Station to Honor First Transatlantic Short Wave Transmission [with Kelley, Bruce].....*37-4-56

Hurni, Bill
Vintage Transmitter for Operation in the 1980s, A.....*23-3-12
Low-Loss Tuner, The, Amateur Receiver of the Twenties*25-4-14
Vintage Resistor Construction.....*26-3-46

Hyder, Harry
"Modern" Shipboard Spark Transmitter, A (Am. Marconi P-4, 1915).....*32-1-21
Radio Frequency Inductors Over the Years *36-3-46
WCC - Wireless Cape Cod*36-4-36

Irving, Ron
Some Notes on 2XL, The Lavender Hill Station - London.....*27-2-12

Ivarson, David
Carrier-Operated Loudspeaker Control - 1940s Style*35-4-53
Re-construction of a Type 30 Regenerative Receiver.....*34-1-32
Restoration of an RCA Model 9Y7 *38-2-34

Jacobi, Anthony
Converting a Zenith 4V31 to AC Power@38-2-43

Jacobs, Paul
Power Supply Transformers for Vacuum-Tube Projects*40-1-34

Johnson, Alva
Trouble in Television (R)@40-4-38 + @41-1-45

Johnson, David
Collecting CRTs and Pickup Tubes*34-2-37

Johnson, Henry
A Short-Wave Crystal Tuner.....*33-3-43

Johnson, Joseph G.
Asbestos Exposure and Radio Collecting*43-2-38

Johnson, T. Arthur
Hammarlund Hi-Q 29 Receiver, The@27-4-14

Johnstone, Richard
Marconi Wireless, The, The Morse Telegraph, and the Blushing Brides.....*10-3-22

Jones, Al
Ye Olde Transmitting Tube Museum*37-3-45
Defiance in the West: The Heintz and Kaufman Story [with Olson, Hank] @R10-188

Junker, Ned
1950 Spark Transmitter & Coherer Receiver, A 27-4-33

Kaetz, John	Collecting Antique Broadcast Receivers *1-2-10	Master Index.....@17-4-24
Troubleshooting a Sparton "Tough Dog" and "A Cautionary Tale".....45-4-14	Collecting Autographs.....*26-4-35	Meet the Collectors - Microphones [Paquette Coll.].....*15-4-18
Kailus, Peter	Collecting Early TV Sets.....*13-2-20	Muchow's Museum.....*20-3-24, *41-2-42
Short History of Allen-Bradley Company*18-2-4	Collector's Choice, The - The SE-1420/IP-501 Receiver [with Clark, George] (R)@22-3-14	National Historical Radio Convention@7-3-1
Short History of Thordarson Electric Mfg. Co. *18-4-16	"Colonel" E. H. R. Green.....*20-1-4	National AGS (R).....*16-4-25
Kasch, Darryl	Converting the SW-3 [into a preselector] *23-2-7	National Historical Radio Conference - Here's the Story.....*16-3-4
A Long Way from Home: Majestic Model 59.....*32-2-14	Crosley Pup, The.....*12-4-23	Huge Success.....*19-3-5
Katzdorn, Mike	de Forest Audions [DV-DL].....*13-4-19	Huge Success.....*20-3-6
Armstrong and the Birth of FM Broadcasting @44-3-46	de Forest Unit Panel Set.....*16-4-31	National Radio Company's Toy: "Dancing Sam".....*28-3-8
Kelley, Bruce	Don Wallace, W6AM - Amateur Radio's Pioneer (review).....31-3-6, *32-3-47	National Telegraph Office [Davis].....*6-4-4
(Kelley also wrote under the pseudonyms "Bob Allen," "Cicely Blossom-Smith," "Dan Boucicault," "John Chauncy," "Pete Gummelt," "Ernest Hathaway," "Frank Merriwell," "George Scarbar," "Fernando Trump," "Islip Twerdle," "Peter Vanquis," "Horace Witherspoon," "Chas. Willett," and "Carl Ziegler.")	Dope on the Antique Wireless Association. *1-3-2	Navy Model "RE" Receiver.....*36-2-63
1907 Amateur Station, A (WJW).....*21-2-6	DuMont RA-119A "Royal Sovereign," The [with Sibley, Ludwell].....*30-3-38	Old Time Transmitters - Receivers *19-3-24
1913 J. F. Arnold Receiver.....*20-3-19	Early Broadcasting Days.....*8-4-1	Pilot "Wasp" Receiver, The.....*30-4-32
1918 Radio Compass System.....*10-3-18	Early Horn Speaker Development.@17-3-14	Pioneer Station EF-8CT.....*23-3-24
1925 MacMillan Expedition Transmitter-Receiver.....*16-1-23	Early Television Gear at the AWA Museum [with Fizette, Bill].....*38-3-30	Pre-1912 Equipment at Conference *35-2-49
1928 Transmitter On Air.....*11-1-11	Eaton Tube Collection, The - 2. The Eaton Tube Collection and AWA.....@R6-1	Preserving a 50-Year-Old Station [Millen]*26-4-42
1929 Amateur Equipment.....*35-2-43	Emerson Multi-Valve/Baby Emerson*15-1-3 & -7	Quenched-Gap Spark Transmitters..*35-4-20
3ZO: Super-Station of 1922.....@29-16	Excellent Example of Reconstructed 1916 Amateur Spark Station.....*11-2-14	Radio Historian and Collector's Guide, The @1-3-6
50th Anniversary - 807 Tube.....*29-1-13	Exciting Side-Line for Any Collector, An [meters].....*16-1-28	Radio Manufacturers of the Twenties [Vol. 1] (review).....*29-1-40
Aeriotron Vacuum Tubes.....*14-2-22	Extremely Rare Photograph [de Forest tower, Albany].....6-4-14	Rare Amateur QSL Cards.....*34-1-37
Alexanderson Alternator Transmission from SAQ.....*27-4-18	FCC Authorization to Operate a Spark Transmitter.....*1-2-1	Rare BCL Cards.....*34-4-23
Amateur Museums and Collections Owned by AWA Members.....*6-1-16	First "Modern" Commercial SW Receiver: The AR-1496.....*30-1-36	Rare Photograph of Dr. Lee de Forest at Louisiana Purchase Exposition.....*9-1-1
Amateur Station 8TE - 1915; Amateur Station W8TE - 1971.....*12-2-6	First Condenser, The.....*21-1-31	RCA and Finch Fax Machines.....*35-2-70
American Museum of the Moving Image *29-4-11	Go on the Air with Old-Time Gear...*6-4-6	Reinartz Tuner.....*16-4-34
Another Xmtr for OT Contest.....*22-3-31	Gray Museum Is Moved.....*18-3-4	Report on Annual Conference [1981].....*22-3-4
Antique Wireless Assn. - 10th Year of Activity.....@6-3-9	Grebe CR-18 Shortwave Receiver, The*36-1-11	[1988].....*29-3-6
Arc Transmitter at the Ford Museum, The *31-1-47	Grebe Low-Wave Receiver.....*16-4-17	Reproducing Early Components.....20-4-31
Are All Collectors Good Guys?.....*18-1-10	Hammond Museum, The.....*22-4-32	Review - 1967 Historical Radio Convention @8-3-2
Autoplex - First Semi-Automatic Key*14-4-7	Highlights - National Antique Wireless Ass'n Conference at Canandaigua.....12-3-4	Scott Special Communications Receiver, The [with Meredith, John].....@33-4-8
AWA Assists in Making Marconi Film for Canadian Broadcasting Company..23-3-23	Historic Equipment (1935 Stratosphere Balloon).....*24-4-8	SE-1950 Radio Compass, The.....*28-4-14
AWA Canadian Summer Meet.....*33-4-4	Historical Police Transmitter at AWA*6-3-19	Secret Tube, A [Zahl VT-158].....*17-1-9
AWA Member Presides at Opening of Dutch Museum [Tyne].....*12-3-18	Historical TV Equipment at AWA Museum*18-2-1	Signatures: An Exciting Side-Line for Any Collector.....*11-2-6
AWA Museum Annex, The.....@27-1-38	Index, OTB Vols. 1-10.....@10-4-24	Silver-Marshall "Round-the-World Four," The *19-4-10
Birth of a Receiver (Pilot Super-Wasp) *20-2-1	Index, OTB Vols. 11-14.....@14-2-24	Small TVs Highly Collectible.....*30-4-35
Brief History of the "B" Type Rectifier Tube 2-1-3, *21-1-10	Introduction to Collecting Early Radio Receivers.....*1-2-10, *33-3-12, *35-4-18 (R)	Special Events Station to Honor First Transatlantic Short Wave Transmission [with Hudson, Donald].....*37-4-56
Brief Review of Conference.....*26-3-9	Jack Gray's Wireless Museum.....*6-3-15	Special Report [officers' tour].....*12-1-7
Brief Review of Conference - Huge Success! *27-3-9	Join the Fun! [2-tube regen].....*14-2-19	Special Report: National Historical Radio Conference.....*18-4-6
Bro. Pat Has Historical Tube [UV-852] *22-2-22	Large Collection of Headphones.....*29-1-38	Stenode, The - Revolutionary Development 40 Years Ago (R).....*12-2-23, *33-2-17
Broadcast Receivers: The First 10 Years @16-3-16	"Law of Supply and Demand," The, Current Trend in Early Radio Equipment.*16-1-11	Test for Radio Historians, A.....35-3-63
Build a 1934 Transmitter.....*20-3-10	Lawrence Cockaday - Early Radio Receiver Designer.....*20-3-28	Theronoid, The.....*33-1-29
Bunnell Stock Ticker.....*11-1-3	Loewe OE333 Receiver, The.....*28-4-36	Tom Swift, Boy Inventor.....*27-2-36
Charge of the Lightning Sender, The *17-4-10, *33-2-13 (R)	Lyons Historical Collection.....*12-1-5	Treasures - Public and Hidden - At the Ford Museum.....*30-4-46
Classic Receiver of the Month - SW-3 *15-3-7	Marconi 101 Receiver, The, and the Ford Auction.....*37-2-18	Tube Adapters in Broadcast Receivers*32-4-12
	Marconi High-Speed Recorder in AWA Museum.....*25-2-12	Tune-A-Lite [with Sibley, Ludwell]...*30-4-17
	Marconi Ship Installations [AWA Museum] 25-1-9	Tyne's Tubes.....*6-3-16
		Unusual Equipment in AWA Museum [1908 United Wireless station].....23-4-35
		Rare Key.....*28-2-20
		World's Largest Receiver?.....19-3-2
		[roller inductor].....*15-4-28
		Valuation Listing.....*2-3-6

Value of Old Equipment, The.....*12-2-14
Value of QSTs, The.....*33-3-28
W2RAN/1BCG Transmissions on Dec. 2 & 9,
1995, The.....*37-1-38
Weagant 3-Loop Anti-Static Antenna*28-3-19
Westinghouse [RC, Aeriola].....*10-1-12
When Is a Set Not a Reproduction?*21-1-21
William B. Duck Co. [with Starry, George
[source]].....*9-4
Winter Trip to Washington.....@6-1-12
Wireless Show, The (V & A Museum)*19-1-
30
WW I German Station at Apia, Samoa*19-4-1
WW I Navy Equipment-Identification System,
The [with Sibley, Ludwell].....*32-2-12
WW I SCR-54 (BC-14) Receiver.....*33-1-6
Kelly, John
Selectosphere, The.....*32-3-32
Keyes, Barry
QUO . . . QUO*36-2-49
Kimple, Wilbert
Phoenix Rises, A [RCA - New Zealand
4760, restoration].....*38-4-28
King, Kent A.
Technology of the E. H. Scott Radio Labora-
tories, The.....@R11-7
Kingman, John
First Two-Way Wireless Air-Ground Communi-
cation, The.....*30-3-19
Kirsten, Charles C.
John F. Rider, Hugo Gernsback, and RCA
Radiotron: The Saga of Rider's Early Radio
Manuals.....@R16-135
"Obsoleting" a Vintage Tube Tester *42-1-20
Kjeldsen, Norman
Brief History of the Cardwell Condenser
Corporation, A.....@22-3-9
Kleinman, Russell
Wireless Specialty Apparatus Company, The
*41-2-52
The Spark Key Project [with Karen Blisard]
@R14-82
Motor Buzzer Transmitters: Spark Goes
QRP! [with Karen Blisard and A. J. Link]
@R18-1
Early Wireless Pack Sets: Spark Hits the
Beach [with Karen Blisard, Felicia Kreuzer,
Jim Kreuzer, and August Link]..@R16-96
Russ Kleinman
Spark Keys: The Interplay of Wireless Hist-
ory and Technology [with Karen Blisard,
Felicia Kreuzer, and Jim Kreuzer]@R14-7
The Spark Key Project [with Karen Blisard]
@R14-82
Kosoff, Joel
Crystal Set Receiver on the 160-Meter CW
Band.....*19-4-26
Krauter, David
[Also source of essentially all book reviews
since May, 2001]
"Circuits - Some Work, Some Don't" [cross-
word puzzle].....45-1-30
Famous Men of Radio and Their Not-So-
Famous Inventions.....*33-3-24
From the Junk Box, or Parts Is Parts
(crossword).....*44-4-35
Index and Additions to Patents Lists [Re-
views 5 & 6].....*R7-185
Is This Pup Distempered?.....45-2-57
kr, The.....*37-4-13
Laten Unfettered Further.....*46-4-57
Lessons from Laten: Diagnosis Without Test
Gear.....*46-3-33
New Bibliography of Reginald A. Fessenden,
A.@R8-55
Radio Manufacturers of the 1920s: A
Crossword Puzzle.....44-3-53
Radio Men: A Biographical Crossword *45-
1-50
Selected Patents in Electronics.....*42-1-62
U. S. Patents of Alexanderson, Carson,
Colpitts, Davis, Gernsback, Hogan, Loomis,
Pupin, Rider, Stone, and Stubblefield; The
@R6-155
U. S. Patents of Armstrong, Conrad, de
Forest, Du Mont, Farnsworth, Fessenden,
Fleming, Kent, Marconi, and Zworykin; The
@R5-143
Who Invented the Grid Leak?.....45-3-42
Why Do We Do It?.....*46-1-29
World-Famous Inventors of the Transistor [de
Forest].....33-1-20
Krause, Serge
Haynes DX Receiver, The.....*28-4-19
RCA-ARB-ATB Memoirs.....@31-2-43
Kreuzer, Felicia
Marconi - The Man and His Apparatus [with
Kreuzer, Jim].....@R9-7
Spark Keys: The Interplay of Wireless
History and Technology [with Karen Blisard,
Russ Kleinman, and Jim Kreuzer]@R14-7
Early Wireless Pack Sets: Spark Hits the
Beach [with Karen Blisard, Russ Kleinman,
Jim Kreuzer, and August Link]..@R16-96
Wireless Specialty Apparatus Co. Catalog
1919 (O) (review) [with Kreuzer, Jim]*28-4-
39
Kreuzer, Jim
Early Wireless Pack Sets: Spark Hits the
Beach [with Karen Blisard, Russ Kleinman,
Felicia Kreuzer, and August Link]@R16-96
Marconi - The Man and His Apparatus [with
Kreuzer, Felicia].....@R9-7
Spark Keys: The Interplay of Wireless
History and Technology [with Karen Blisard,
Russ Kleinman, and Felicia Kreuzer]@R14-
7
The Radio Manual (O) (review).....*28-3-20
The Work of Hertz - Signaling Through
Space Without Wires (O) (review)28-1-18
The History of Radio to 1926 (O) (review)
*28-2-12
Krome, Ed
Universal Battery Eliminator.....*23-4-18
Kröger, H.
Swiss Collection, A.....*34-3-15
Kryzhanovsky, Leonid
Alexander Popov: Father of Russian Wire-
less Telegraphy [with Ryback, James]@41-
1-25
Kunde, Keith
"Iron Sarge," The - An Old-Time CW Rec-
eiver.....@30-2-27
"Mini-Max," The: An Old-Time CW Transmit-
ter.....@31-2-7
Experimenting with an "Antique" Radiowave
Detector [with Hallaya, Igor].....*37-2-39
Lahouillier, Gil
160-Meter Hartley Transmitter for OT Contest
*27-3-32
1929 QSO Party Transmitter.....*29-4-22
*29-1-34
Lankshear, Peter
My Ultimate TRF: An Adventure into Nos-
talgia.....@45-1-58
TRF Receiver of the 1920s, The...*24-2-12
Larson, Ray
Two-Tube Heaven.....36-3-34
Larson, Robert
Is It 1929 Again?.....*36-4-26
Lawrence, Ron
("With the Chapters" column in later *OTB /*
Journal issues)
Spring Meet in the Carolinas 2004 *45-3-45
Layer, Harold
Stoddart and the Radio Research Receiver
@34-2-47
Vintage VLF/ELF Vacuum-Tube Receivers,
1918-1962.....@19-3-13
(& @33-2-19)
Lee, Bart
America's Wireless Spies.....@R5-21
BVWS Throws a Garden Party.....*45-4-49
Marconi's Transatlantic Triumph - A Skip into
History.....R13-81
Radio Spies: Episodes in the Ether Wars
@R15-7
Leggatt, Pat
Adey Portable 4, The.....*34-2-23
De Forest (?) Test Bed, A.....*32-3-11
How Radio Became Wireless.....@39-2-36
+ @39-3-44
Loewe Valves Revisited.....@32-2-21
Lucien Lvy and the Superhet: A Postscript
*32-4-18
Review of Early Television in the UK, A
@R6-37
"Rundradiomottagningsapparat," A (Finnish)34-
3-21
"Woolworths" Communications Receiver, The
[MCR-1].....*31-4-16
Leming, John E., Jr.
History of the Kodel Radio Corporation, A
R17-31
Lescaboura, Austin
Hammarlund Story, The (R).....*9-3-22
Levine, Joel
Collecting Early Single-Sideband Equipment
@32-1-7
Collins KWM-1: The Radio That Changed
Communications.....*31-1-27
Lewis, W. Turnor
Amateur Station 9TL in 1919.....*32-1-27
Lindauer, Louis
Rejuvenation of Vacuum Tubes.....*19-4-22
Lindsay, T. J.
Building a 1929 State-of-the-Art Superhet-
erodyne.....@43-1-56
Link, August
Early Wireless Pack Sets: Spark Hits the
Beach [with Karen Blisard, Russ Kleinman,
Felicia Kreuzer, and Jim Kreuzer]@R16-96
Motor Buzzer Transmitters: Spark Goes
QRP! [with Karen Blisard and Russ Klein-
man].....@R18-1
Linn, Fred
Zenith Model 6S229.....*30-4-14
Lorenzen, Howard
Arthur Godfrey Meets the Expert...*20-4-21
How the Zenith Trans-Oceanic Portable

Came into Being.....*17-2-12

Lotito, Frank
 160-Meter Single-Tube MOPA Transmitter, A @37-4-40
 1920s Crystal-Controlled MOPA Xmtr, A@41-3-28
 1938 TPTG Rig in Modern Dress, A @40-2-54
 Build an Early 1920s One-Tube Transmitter *40-4-42
 "Collage of Ideas" Transmitter, A.@44-2-40
 Considerations for Building a 1929-Type 40 Meter Transmitter, Part 1.....*46-4-26
 CW Keying Interface for OT and Classic transmitters, A.....@42-1-50
 Decremeter and Grid Dip Oscillator, The: VLF Through UHF@43-3-63 + @43-4-66 + @44-1-63
 Extra Low Frequency Communication @46-4-40
 Frequency Selective Voltmeter as a VLF-MF Radio Receiver, The.....@46-3-22
 Historical Review of Continuous Wave Radio Frequency Power Generators, A@43-1-19
 Let the Heavens Speak - An Introduction to Natural Radio.....*46-1-57 + *46-2-29
 LF Antennas, But More Like Tiny Stubs @41-2-22
 Long and Short of It, The.....@41-1-10
 Let's Talk Oscillators.....*45-2-27
 Power Line Carrier Communication Technical Issues.....@45-1-53
 Large-Scale Power-Line Communication*45-2-44
 Mid-1930s "TRF-Regen" Receiver, A*45-1-37
 Practical Demonstration of What Is Possible at LF, A.....@42-2-45
 Radio Navigation Systems, VLF through MF @45-3-38 + *45-4-20
 Receiving Loop Antenna, The.....@44-3-55
 Understanding Obsolete Units of Measure*42-4-54
 Unilateral Receiving Loop Antenna, The@44-4-59
 Vintage Circuits with Modern Parts *37-2-33

Lowe, R. M.
 My Father Was a Railroad Telegrapher (R) *25-2-20

Lozier, Robert
 Ricevitore Popolare Italiano (The Italian People's Receiver) 1934-1942..... @R7-1
 Tinkerer's Radio.....@39-4-47
 Twenty Years of the Magnavox Story - 1911-1931.....@23-1-6
 Ultrasonic Cleaning of Small Parts .*16-4-6
 What Do We Do Now? - Disposing of An Estate Collection (R).....*40-4-45

Lundgren, Carl
 Anyone for 1580 Meters? [with Morris, Bob] @13-1-3

Lyon, Edwin
 International Contest for RADAR, The @R9-97
 Real Story of the Magnetron, The@R9-181

Lyons, Floyd
 Best's 45,000-Cycle Superheterodyne*20-4-22
 Brief History of British Receiving Valves, A [with Peckham, Lauren]*22-3-20, *15-1-26
 Browning-Drake.....*21-3-23
 Building a 50-Year Broadcast Receiver*26-2-20

20
 Building a Fada Neurodyne.....*24-1-16
 Building a Reinartz Tuner.....*22-2-16
 Building a Samson T-C Receiver...*25-1-24
 Building an Old-time Receiver - Doughnut Five.....*20-2-22
 Carborundum Stabilizing Detector Unit, The *19-1-21
 Harkness Reflex.....*19-4-21
 Let There Be Light.....*4-4-8, *33-2-11 (R)
 Lyons Model T [receiver].....*18-3-13
 Magazine Documentary.*16-2-24 + *17-1-32

Macho, Erwin
 Collecting Crystal Sets in Austria.....34-3-17

MacIntyre, Robert
 R1155 Receiver, The, and T1154 Transmitter [with Sibley, Ludwell].....@31-4-11

Mackiewicz, Dick
 Adjustable Diaphragm Headsets.....*38-2-38
 Chicago, Connecticut Headphone Manufacturers.....*36-1-7
 Federal Headsets and the Elusive Federal #15 Plug.....*38-4-29
 Headset Update.....@36-2-38, *38-1-21
 Headsets: Blue Streak, Little Tattler, Nonferrous Diaphragms.....*37-4-18
 History of Nora, The.....*39-5-7
 IBM Headsets.....*37-3-20, 38-2-39
 Master Headset Finder, The.....@40-1-44
 New Brandes Finds.....*39-1-40
 Radio Collecting in Israel.....@34-3-19

MacKinnon, Colin
 AWA AV11 Rectifier, The.....*34-4-41
 G & R Valve Company, The.....@35-3-42
 ([source] and Sibley, Ludwell) Four Foreign HRO-Derivatives.....*35-2-38
 Secret Tubes for Radar: Appendix - Production of VT90 [710A] Tubes in Australia R7-66

Magers, Bernard
 SCR-68, The, and Its Vacuum Tubes*41-4-61
 Western Electric and the Telegraph*44-3-62

Marcy, Al
 Making of an Amateur Station, The - 8AQO @10-4-10

Mateo, Louis
 Spark-Against-Arc Competition of 1912, The *31-1-15
 To Hartley or Not To Hartley?.....*32-3-28

Matlack, Rex
 Station WPD, Tampa, Florida.....*17-1-6
 Philadelphia Radio Story, The - The First Fifty Years.....@R2-120

Matson, Roland
 Restoring Black Finish on Brass Dials*9-3-14

Mayer, Thorn
 A Live Ghost From the Past.....*21-2-10
 Brief History of the United Wireless Telegraph Co.@11-4-11
 DeForest Radio Telephone Companies, 1907-1920.....R2-6
 Federal Telegraph Co., The, 1909-1920Mono. No. 3
 Historical Station Marker at Foothill Electronics Museum.....*18-3-20
 History of the American Marconi Company @13-1-11
 Tesla Coils.....@18-2-8

Maylott, Carleton
 [WE] No. 10-A Loud Speaking Telephone

Outfit, The.....*17-3-18

McCoy, Daniel
 Amateur Radio in the New York City Area Pre-WW I.....@2-3-5, @R6-115

McCullough, Jack
 More on the Gammatron.....*32-4-14

McElroy, T. R.
 World Championship Ship Code Speed Tournament 50 Years Ago.....26-2-24

McEwen, Neal
 Charles Williams, Jr. - Instrument Maker to the Inventors.....*39-4-8
 Spark Key, c. 1915-1919, A.....*40-1-60
 Unusual Artifact from the Tidewater Wireless Telegraph Company, An.....@43-2-57
 Victorian Era Visual Signalling Instruments @45-1-44

McIntosh, Ken
 Crookes Tube, The.....*37-3-21

McLean, Donald F.
 Playing Back the Earliest Known Video Recordings.....@42-01-12

McVoy, Steve
 Early Television Museum, The.....*43-2-39

Mednick, David
 Catalin Radios - All They're Cracked Up To Be.....*34-2-25
 Psychology of Collecting, The.....*35-2-51

Mendelsohn, Alex
 On the Air from the USS Albacore's Radio Room.....@42-4-32

Meredith, John
 E. H. Scott Low-Radiation Marine Receivers of World War II, The.....*33-4-13
 Scott Special Communications Receiver, The [with Kelley, Bruce].....@33-4-8

Merriam, Bob
 Regenerative Plug-In-Coil SW Receiver, The *14-4-16

Merriwell, Frank [Kelley]
 Report on BVWS-AWA International Meeting @25-3-20)

Merz, M. Daniel
 Building a Replica Magnetic Detector@46-2-22

Meulstee, Louis
 Fullerphone, The.....@30-3-16
 HRO in the British Army, The.....*32-4-21
 Larkspur.....@34-4-35
 Saved by Radio - Evolution in Air-Sea Rescue Radio Transmitters.....@31-4-17 + @33-1-9
 Some Soviet and East German Military Radios.....@34-3-11
 Tech-Manual Art - Another Look [source] @35-1-18, @35-3-19 (R)
 Unusual Military Morse Keys.....@R8-1

Meyer, Stuart
 Hammarlund Radio.....@R2-95

Michael, George
 Father of Radio and Television, The: Dr. Ernst F. W. Alexanderson*37-1-41 + 37-2-44

Miller, Harry J.
 General Electric Flying Radiofone Types AS1B and AS1C, The.....*42-3-62

Moreau, Lou
 Albright License Tags.....*24-4-21
 Autoplex Key, The.....*14-4-7, *24-2-29
 "Bootleg" Keys.....27-1-35

"Bootleg" Keys [Dunduplex].....*27-4-19
 "Bugs" Other Than Vibroplex*33-1-38
 Camelback Keys.....*28-3-21
 Century of Telegraph Key Development, A
 @R2-106
 Code-Speed Contests.....*33-3-40
 Dating Keys.....*28-4-31 + *30-4-31
 Early Printers.....*32-3-37
 European Wireless Keys.....*23-3-25
 Feminine Touch in Telecommunications, The
 @R4-70
 Foreign and Military Telegraph Keys [with
 Willer, Murray].....@R3-98
 Historic Keys.....*32-1-34
 Hulit Transmitter, The.....*26-3-40
 Key-on-Base Sets.....*26-4-37
 Leg Keys.....*25-4-21
 Mecograph Keys.....*23-4-23
 Mecograph Keys.....*29-1-36
 Melehan Valiant, The.....*26-2-32
 Military Communications Explosion in WW I,
 The.....@R6-135
 Military Keys.....23-1-15, *23-2-13
 More on the Needle Telegraph.....*33-4-41
 Needle Telegraph Instruments.....*31-4-23
 Old-Time References on Key Construction*32-
 2-34
 Protective-Knob Keys.....*26-1-36
 Rotoplex Key, The.....*28-2-33
 Sideswiper Key, The.....*27-2-23
 Signal Electric Sematic Key.....*25-1-29
 Telegraph Myths.....*32-4-42
 Vibroplex.....@15-2-18
Morris, Bob
 1923 - A Great Year in Amateur Radio*35-2-
 14
 Anyone for 1580 Meters? [with Lundgren,
 Carl].....@13-1-3
 600-Meter Watch in Early Broadcasting, The
 *18-3-6
 Audio-Frequency Characteristics in Early
 Broadcasting.....@R3-48
 Establishment of the Radio Monitoring Station
 at Vint Hill Farms.....@40-1-44
 Letter Designations of Early Western Electric
 Tubes.....*14-1-18
 More on the RCA 825 Inductive-Output Ampli-
 fier (The Haeff Tube).....*FS3-3-4
 NBC Network Chimes, The.....*20-1-12
 Origin of the VU Meter.....*27-3-36
 Solid-State A-K Breadboard.....*15-1-10
Murray, Robert
 Before and After the Mercury Super Ten
 @35-4-10
 Broadcast Receiver Manufacture by General
 Electric and Westinghouse in the First
 Decade of RCA.....@R17-107
 Jig to Repair an Amplion AR19 Horn Speak-
 er*29-4-3
 Manufacture of Broadcast Receivers by the
 Northern Electric Company in the 1920s
 @R13-7
 Re-Creating Reginald Fessenden's Liquid
 Barretter.....@46-2-37 + *46-3-65
 "Voice of the Prairie, The": A Brief History
 of W. W. Grant.....@33-3-16
 First Thirty Years of the Canadian Marconi
 Company, The [with Roger Hart]...R14-92
Nagle, John
 Brief History of the National Company, Inc.,
 A @R1-65
 Electronics: The End of an Era...*30-2-16
 Haste Makes Waste.....*24-1-24
 Using an SW-3 as a Pre-Selector Without
 Modification.....*23-4-34
Nelson, Mark
 Early TV "Set-Top" Boxes.....@45-1-35
Nelson, Walter
 A Glimpse at Old-Time Transmitter Devel-
 opment.....@R8-149
Nelson, Wayne
 Interview with Paul Godley, An (R)@R1-117
 Leutz Story, The.....*4-1-11
 What Is a Radio Antique?.....*6-1-11
Newcomer, C. D.
 Brief Narrative on RCA's Lancaster Plant, A
 *32-4-15
Noble, John
 Open Audio Transformers.....*15-4-30
Nordenholt, Don
 Australian Radio Museums and Collectors*30-
 1-9
Norwood, C. Wilson
 Radio Products Co. [with Douglas, Alan]
 *23-2-6
Novrocki, Michael
 Joseph Murgas, the Neglected Wireless Pio-
 neer [with Stefanides, Scott].....@30-2-9
Okolowicz, John
 Modern Design Need Not Be Boring*36-1-8
 Philco, 1958: An Era of Unique TV De-
 signs.....@35-2-29
 Robert Davol Budlong and Zenith..@35-3-8
Olson, Hank
 AC-DC Receiver, The.....41-2-58
 Evolution of the Auto Radio, The@37-3-13 +
 @37-4-14
 Defiance in the West: The Heintz and
 Kaufman Story [with Jones, Al]@R10-188
 KFS-Federal-Mackay Story, The: From CW
 Arc to Silicon Valley - The Waves of Pro-
 gress [with Orr, William].....@R8-75
 Visit to the Dixon, CA, Voice of America
 Site, A.....@37-1-53
 Vreeland Oscillator, The.....*35-2-20
Orr, William
 EIMAC Story, The.....@12-3-20
 204-A Tube, The, Designed by Committee?
 *22-1-30
Owens, D. K.
 Active Antenna for Your Antique Radios, An
 *32-4-19
 Alignment Problems and Some Interesting
 Sets.....*45-1-29
 Basics of Bias, The.....39-4-43
 Building A Broadcast-Band Grid Dip Meter
 *39-3-50
 Chemistry of Coils, The.....*33-4-45
 Correcting Long-Ago Repairs.....*44-2-47
 Defective by Design
 Philco.....*40-2-71
 Atwater Kent.....*40-3-16
 Electrolytic Capacitors.....@35-1-48
 Evolution of the Volume Control...@35-3-59
 Gems from Back Issues of the *OTB**43-1-40
 General Electric M-81, The.....*32-2-39
 Grid Leak Detection in 1920s Receivers@41-
 1-16, @42-2-66
 Haunted by Mistakes of the Past? *39-3-56
 History & Restoration of Plastics in Radios
 @34-2-10
 Mica Capacitor Problems; Restoring a Duck
 5A Loose Coupler.....*43-4-33
 Miscellaneous Topics.....@41-3-43
 Modified Antique Radios.....*23-1-23
 Ohio's Radio Industry in the 1920s@43-2-25
 Paper and Film Capacitors.....@35-2-24
 Plug-In Forms; Doctoring a 1R5; Replacing
 Resistor Line Cords.....*42-3-14
 Pitting the AK 40 Against Its Competition..
 *38-2-48
 Radios That Won't Quit.....*32-1-41
 Reader Response to "When Is It Restored?"
 @36-4-47
 Replacing Burned-Out P-P Output Trans-
 formers and Other Lore.....*43-3-43
 Replacing Philco Caps [with Sibley, Ludwell]
 *38-1-46
 Restoring Atwater Kent Power Packs@41-2-
 28
 Restoring Leutz C-Series Superhets; Reducing
 AC Voltages on Old Radios; Leaky Mica
 Capacitors; Shaw Tube Base.....@37-4-43
 Restoring Weak Magnets.....*33-3-39
 Resurrecting a "Raegenafomer".....*40-1-22
 Six-Volt Tubes and Auto Radios.....40-4-53
 Solid-State Audio Transformer Replacements
 and Other Tips.....*44-1-23
 Substitutes for the WD11.....@44-3-30
 Switch Repair Lore.....41-4-63
 Testing a 1L6 Substitute; Cleaning Variable
 Caps and Voice Coils; Sparton 96 Resto-
 ration.....*42-4-12
 This N' That.....*42-1-47
 Two Case Histories and a Pot Metal Fix
 *44-4-53
 When is a Tube Bad?.....*34-1-42
 When Is It Restored?.....*36-3-38
 Wood Stains for Antique Radios.....*33-1-30
Paquette, Bob
 Early Microphone History.....@R4-131
Parker, Orval
 Radiola 17 and 18: Alike But Not Alike*35-
 3-64
 Transistor, The: Older Than We Think*38-1-
 17
Parker, William N.
 Early Chicago Television.....@44-3-15
Parks, Dick
 Absolutely Anonymous One-Tube Receiver, A
 [Steinite].....*43-1-49
 Another Subminiature SW-3.....*46-4-38
 Apparatus of Dr. Hertz, The.....@39-3-2
 Big Tubes - Little Tubes.....*42-2-38
 Build a Simple Oscilloscope*43-3-14 + *43-4-
 57 + 44-1-28
 Coherer as an AM Detector, A*40-1-38, 40-2-
 20
 Coto-Coil Symphonic Broadcast Receiver*27-3-
 14
 Earliest Detectors, The.....*39-4-33
 Firing Up a Western Electric 34-A..42-2-29
 Inverted Tubes.....*44-3-44
 How Fancy Do Breadboards Get?..*44-4-38
 Meet the *OTB* Interpanel Receiver! *40-3-18
 Neutralizing - How Does It Work?..*41-4-34
 Power Supply for Your Breadboarding Pro-
 jects, A.....*40-4-32
 Project Radios of Robert J. Adams, The@45-
 2-51

Regenerating Loop Antenna, A.....*46-1-15
Regenerative Detectors.....@41-1-22
Regenerative Detectors - Another Version*41-2-50
Return of the Spherical Audion, The*44-2-66
Revisiting the Power Tube Testing Breadboard.....*42-3-66
Screen-Grid Regenerative Detector, A*41-3-18
Sir Oliver Lodge and the Loose Coupler@39-3-16
Straight Triode Detector, The.....@40-2-33
Subminiaturizing the SW-3.....*46-3-19
Super-Regenerative Detectors*42-4-48 + *43-1-27 + *43-2-35
Super-Simple RF Generator for Your Bench, A *42-1-42
Three-Audion [sic] Breadboard Receiver, A *45-2-48 + *45-4-16
WECO Model 25 Amplifiers, The.....*39-3-25
Winter Madness - Creating a Radiola 18-S *45-3-29
Working with Crystal Control: A "Part 15" Broadcast Band Transmitter.....@45-1-32

Paskowski, Piotr
"Elektrit" Radio Engineering Company - Vilnius, 1925-39 [with Berezowski, Henryk]*34-4-30

Paul, Floyd
Acme Apparatus Co.....*29-4-36
Addendum for Radio Horn Speaker Encyclopedia.....*30-2-30
Air-Chrome Speaker, The.....*26-2-22
American Art Mache.....*32-4-37
American Electric Company - Burns Radio Loud Speakers.....*31-1-23
Amp-Horn Combinations; Study of Horn Shapes.....*23-4-22
Amplion's Activities in America*21-4-12,*38-1-32
Amplion Horn Speaker, The [with Stokes, John].....*21-4-12
Atwater Kent Horn Speaker, The [with Williams, Ralph].....@23-3-9
"Auditorium" Horn Speakers.....*37-2-24
Baldwin Loud Speakers.....*39-4-50
Brandes and Baldwin Horn Speakers*25-1-22
Cabinet Horn Speakers.....23-1-24
Colin B. Kennedy Co.....*36-2-10
Collector's Guide to Magnavox Horn Speakers, A [with Sanders, Walt].....@21-3-8
Counterfeit or Imitation? - Music Master vs. Melody Tone.....*30-4-23
Crosley's Magfon & Musicone Speakers (1921-1927).....*28-4-38
Decade of Electroacoustic Reproduction (1920-30), A.....@R4-84
Dictograph Portable Horn Speaker, The*26-3-42
Early Cone Speakers; Integrated Amps23-3-8
English Horn Speakers.....*28-1-25
Firco Horn Speakers.....*34-1-20
First Dozen Radio Speaker Manufacturers, The.....*36-4-24
Frank C. Jones - Pioneer Radio Writer and Editor.....*28-3-34
[Frequency Response of Magnavox R3-D]22-4-20
Gale Radio Laboratories.....*33-4-26
Gilfillan Bros. - Radio Manufacturers@26-4-10 + @27-1-10

Gilfillan Bros. Inc., Early Records@R10-245
H. H. Frost, CTS, and the Musette Radio Horn Speaker.....*32-2-11
Herald Horn Speakers.....*36-3-35
Herald, and Cast-Metal, Horns.....*24-4-18
History of the Rola Company (1923-1980) [with Perry, Charles].....*21-2-8
Horns from the Seattle Area.....25-4-25
Jewett Horn Speakers.....*40-3-27
J. S. Timmons and the Timmons Radio Products Corporation.....*23-2-18
Kodel Radio Corp.....*34-2-46
Loudspeaker Information from the George Clark Historical File [Vocarola]....*26-4-30
Loudspeaker Summary.....*25-3-34
Made in Los Angeles.....41-1-31
Magnetic Cone Speakers.....@24-2-20
Magnetic Cone Speakers, 1926-1928*27-3-34
Manhattan Electrical Supply*35-1-15, *37-1-10
Miniature Horn Speakers.....*30-1-28
Mozart-Grand Company, The.....*38-3-24
Murdock Radio.....*39-1-13
Music Master Horns.....@33-3-20
Nathaniel Baldwin Earphones [with Rogers, Bruce].....*24-3-20
Peerless Radio Laboratories.....*38-4-31
Radio Cabinet Co. Horn Survey....*37-3-36
Radio Horn Lamp Speakers.....*29-1-12
Radio Horn Speakers That RCA Didn't Make *28-3-24
Radiolamp Co., The.....*33-1-37
RCA Radio Horn Speakers.....*30-3-37
Saal Horn Speakers.....*27-2-24
Standard Metal Mfg. Co. Horns.....*32-3-31
Stentorphone Co., The.....*34-3-49
Stromberg-Carlson Horn Speakers *39-47
Subcontracted Speaker Parts.....*31-2-40
Teletone Horn Speakers.....*41-2-35
Timbre-tone Horn Speakers.....*31-4-35
Tower Mfg. Corp.....*34-4-51
Trade Names & Makers, Table.....24-1-21
Trimm Radio Mfg. Co. Horn Speakers*37-4-20
Trinity Radio Co.....*39-3-43
Unusual Find, An [BSC/Brittania horn]*29-42
Western Electric Horn Speakers of the 1920s *22-1-10
Winkler-Reichmann Co. and the Reichmann Co.....*32-1-31
Wonderful Horn Speaker, The.....@20-4-12 - [Additional Horn-Speaker Types]41-3-47

Peckham, Lauren
1988 AWA Conference Report.....*29-3-7
1989 AWA Conference Report.....*30-3-4
Albert W. Hull's Kenopliotron: Born Too Soon?.....*31-3-7
Auction, The - Report on the Stanley Johnson Estate Auction.....*24-2-14
Brief History of British Receiving Valves, A [with Lyons, Floyd].....*22-3-20, *15-1-26
Building the Heathkit K-2 Receiver *33-4-35
Cambridge Giant, The [loose coupler]*33-1-8
CN-113A, The: A High-Quality Crystal Receiver.....*34-1-16
Collecting Development Tubes.....*29-20
Early Form of the Audio Oscillator, An*29-3-15
Early Tube Specs.....*29-1-15
Eaton Tube Collection, The - 3. Key to the Photograph.....@R6-5
Federal Receiver That Isn't a Federal?, A*30-1-22
Fessenden Equipment Developments*30-4-34
Fessenden Developments, More*31-1-14
From OTBs Past.....*37-2-15
Great Grebe, A.....*32-3-36
Identification and Value of Tubes - The AudioTron.....*27-2-18
Identification and Value of de Forest Tubes *27-1-25
Kadette, The - A 5-Tube/10-Tube Receiver [Model 1019].....*28-3-16
Major (Armstrong) Prototype, A*34-2-36
Mignon Masterpiece, The.....*31-2-19
Multi-Audi-Fone, The.....@30-3-35
Museum-Annex "Super Receiver," The *35-1-35
Navy CG-1104A Aircraft Transmitter, The*32-2-13
(Editor) Notes on Early Vacuum Tube Development at Westinghouse *9-4-18
Orrin Dunlap's Laboratory Project @36-1-27
Pliotron from Japan?, A....*31-4-22, *32-4-8
Presidential Profile [Fizette].....*37-1-4
Quality Portable Radio in 1925, A [Operadio] *32-1-29
Radio Apparatus of Ernst C. Mignon, The @R3-78
Rare Receiver, A[Clapp-Eastham Type D] *27-4-17
Rare Receiver, A [Mignon RLC-2]..*28-1-23
Recollections of Bruce Kelley.....*39-1-36
Specifications for Western Electric General-Purpose Tubes.....*29-4-17
Unusual Japanese Vacuum Tube, An [Annaka Detector].....*31-4-22, *32-4-8
Unusual Westinghouse Tubes.....*28-2-19
Values, Broadcast Receivers, with and without Tubes.....27-3-19
Water-Cooled Tubes.....23-1-34

Pellnat, Allan
Made in Rochester.....@R18-101
Radio Operating in a Museum Ship*45-4-44

Perkins, Harley
RCA's Radiola 64 Console Revisited*36-1-33

Perry, Charles
History of the Rola Company (1923-1980) [with Paul, Floyd].....*21-2-8

Perry, Robert W.
Radio-Equipping the America.....*40-2-40

Petersen, V. E.
A Method of Making (Casting) Plastic Parts Using an Existing Part as the Model for the Mold Outline.....*16-3-14 (& *33-2-41)

Pichler, Franz
Development of Television in Germany in the Pre-Electronic Period.....@43-4-59

Pipe, Gordon
History and Development of the Rogers Batteryless Receiving Set, The (R) @36-4-33

Pope, Franklin L.
Relays, Keys, Registers, and Sounders (R) @45-4-41

Proc, Jerry
Canadian Radar in WW II.....*37-3-43
HMCS Haida and Her Vintage Radios@35-3-38
KWR-37 On-Line Crypto Receiver, The*38-3-

Raide, Bob

- 1921 "5-Watt Radiophone" Set, A..*37-3-51
 Adding AM to Your Vintage CW Rig*46-1-37
 AWA Commemorates Two-Way Transatlantic Test.....*39-3-53
 Inexpensive Way to Build a 1929 Transmitter, An.....*39-3-30
 James Millen Commemorative Station at AWA, The [with Fizette, Bill].....@35-4-41
 Simple "MOPA" Adapter for the 1929 QSO Party, A.....*46-2-34
 Turn Your 1929 Hartley into an "OT Contest" Rig.....@40-3-28
- Ransley, Richard**
 Crosley 50 Portable.....*25-3-36
 Radiola III/IIIA Modification.....*22-3-6
- Raser, Ed**
 Historical Notes on Old CC/MCC/WCC*4-2-9
 IP-76, The.....4-1-6, *7-2-13
 Story of a Unique Key Collection, The*1-2-7
- Reber, Grote**
 Early Radio Astronomy at Wheaton, Illinois (R).....@7-1-4
- Reinke, David**
 Early Telegraph Instrument Makers [with Reinke, Roger].....*24-2-10
- Reinke, Roger**
 4 x 2 = Octoplex: The Rowland System *40-4-41
 Are Martin and Albright Spinning in Their Grave?.....*35-3-11
 Bug That Was Too Attractive, The [Peerless] *36-1-25
 By Their Knurls Ye Shall Know Them [identifying by binding-post style].....*35-2-18
 Cain's Concentricity [key].....*38-4-45
 Camelback Confusion [fire-alarm test keys] *34-2-45
 Circuit-Closing Switches: Simple Wins*41-1-59
 Click Twice If We Need Ice [private-line KOBs].....*36-4-14
 Compound Keys: Confusing Complexity.....*38-2-57
 Early Telegraph Instrument Makers with Reinke, David].....*24-2-10
 Empire Spring Bed Co., The: Cradle of Telegraphic Innovation?.....38-3-53
 For Those Who Have Lost Their Grip [Foote-Pierson "20th Century"].....*36-2-44
 Fresh Face Finds Few Fans, A.....*39-3-52
 Hammer Meets Anvil [Phillips key] *34-3-47
 I'll Never Forget That Old Whatchamacallit [obscure keys].....*37-1-39
 Levers, Pivots, and Ambiguity.....*39-1-53
 Lewis Key, The: A Tasteful and Innovative Arrangement.....@38-1-36
 Patina vs. Polish.....*34-4-49 + *35-1-55
 Pivots, Patents, and Promotion [Lefley]*36-3-36
 Right Stuff, The [code contests]*26-2-24, *35-4-9
 Simplicity is Strength! Complexity is Fatal! [pivots, early keys].....@37-3-37
 Telegraph Instrument Classification..*32-1-35
 Ticking the Ivories at 40 WPM [stock ticker] *37-4-34
 Vail Register, The.....@42-2-42
 Vail to No Avail, A [Vailograph].....*37-2-16

Reoch, Alex

- Marconi Men Against the North.....*12-4-4
- Rice, Fred**
 Brunswick Radio-Phonograph, The..*27-2-33
 Solid-State Tube Replacement in Early Receivers.....*16-1-6
- Roberts, A. H.**
 Variations on a Theme by Roy Weagant *14-1-20
- Robinson, Harris A. "Robbie"**
 BC-348 High Frequency Aircraft Receiver, The.....@27-2-14
 De Forest Unit Receiving Set, The*31-1-21
 RCA AR-60 Receiver, The.....*29-3-27
 Receivers RAK and RAL.....*30-3-24
 World War II BC-312 Family of Signal Corps Receivers, The.....@27-4-20
- Rogers, Bruce**
 Nathaniel Baldwin Earphones [with Paul, Floyd].....*24-3-20
- Rollins, John**
 1929 QSO Party Results - Annual OT DX Contest.....*42-1-17
 1929 QSO Party Results [2002].....*44-1-20
 2002 O. T. DX contest Results - Participation Hits Five-Year High!.....*43-3-17
 Bruce Kelley Memorial 1929 QSO Party Results for 2004.....*46-2-40
 MOPA Revisited, The.....@38-2-26
 Push-Pull Tuned-Grid Tuned-Plate Oscillator, 1929 Style, A.....@33-4-37
 QSO Party Results (2001).....*43-1-46
 Restoration of a Gross Radio Co. Transmitter *39-1-26
 Results of the January 2005 Linc Cundall Memorial OT contest.....*46-3-54
 Results of the 2000 Linc Cundall Memorial Contest.....@41-2-70
 Results of the 2001 Linc Cundall Memorial Contest.....@42-2-23
 Variable Frequency Oscillators - The Colpitts Way.....@43-4-36, 44-1-6
- Rolosen, Bruce**
 AWA 33rd Annual Conference.....@35-4-36
 Haeff Tube, The [825]*FS3-2-3 (& *33-2-38)
 Magnetron, The.....*FS5-3-3
 Obituary - Louise Moreau.....*35-3-57
 Split-Anode Magnetron, The*FS5-3-3, *33-2-45 (R)
 Vacuum Tubes Other Than Receiving
 (I) Introduction.....*FS4-3-2
 (II) Rectifiers.....*FS4-4-3
 (III) Gas Rectifiers.....*FS5-1-3
 (IV) Cold-Cathode Devices.....*FS5-2-3
- Rosenfeld, Morris**
 Collecting ARRL Amateur Handbooks25-4-24
 Cutting Slate or Marble.....*25-2-31
- Rosica, Tom**
 King and Colonial.....*19-4
- Rosine, Lawrence**
 Breting 14 Communications Receiver, The @35-4-26
 Skyrider 23: A Different Design from Halli-crafters.....*30-4-29
- Ross, Joel P.**
 J. E. Lilienfeld and the Discovery of the "Transistor Effect".....@39-1-44 + @39-50
- Rudan, Milivoj**
 Reproducing an RJ-4 Detector.....*31-1-16
- Ryan, Bob**

- Replica Audion Unit for Demonstration Purposes, A.....*21-4-21
- Rybak, James**
 Boris Rosing: Electronic Television Visionary @41-3-24
 Early European Television: The Mihaly Telehor Machine.....@42-3-52
 Early Mechanical Detectors for Continuous Wave Wireless Telegraphy - Tickers and Tone-Wheels.....@39-4-37
 Father Landell de Moura: Brazil's Wireless Telephony Pioneer.....@43-1-66
 Forgotten Pioneers of Wireless
 Part 1 - Nathan Stubblefield...@38-2-32
 Part 2 - Dr. Mahlon Loomis...@38-3-46
 Part 3 - Fr. Joseph Murgas.....*38-4-40
 Part 4 - Charles D. Herrold...@39-3-20
 Part 5 - Karl Ferdinand Braun@40-3-22
 John Logie Baird's 1928 Stereoscopic Telescopor.....*44-4-33
 Oliver Lodge: Almost the Father of Radio @43-4-27
 Pre-1930 Color Television.....@42-1-30
 Reginald A. Fessenden and the Development of Radiotelephony.....*37-4-14 + *38-1-32
 "Soft" Detector, The.....*37-2-42
 Vladimir K. Zworykin's Contributions to the RCA Electronic Television System@45-4-51 + @46-2-45
- Ryback, James**
 Alexander Popov: Father of Russian Wireless Telegraphy [with Kryzhanovsky, Leonid].....@41-1-25
- Sandell, Egon**
 Recreating a 1938 Receiver.....*34-2-27
- Sanders, Ian**
 British Crystal Set Registration Numbers (1922-1924).....@34-1-13
- Sanders, Walt**
 A Collector's Guide to Magnavox Horn Speakers [with Paul, Floyd].....@21-3-8
- Sands, Bob**
 Art Deco Theme of Third Annual Radiorama *36-4-40
- Sannella, Michael**
 Wm. J. Murdock Co.*11-2-4
- Santoro, Abel**
 Argentina's First Valve Factory@40-4-60
- Scarbar, George [Kelley]**
 Marconi Direction Finder.....*25-2-24
- Schade, Otto**
 A Portable Television System Built in 1938-39.....*21-3-16
- Schneider, John**
 San Francisco's Network Broadcast Centers of the 1930s.....@R5-123
- Schrage, Wilhelm**
 Nipkow Scanning Disc, The (R).....17-4-14
- Schrock, Rodney**
 Arkay A-12 Amplifier.....*34-3-43
 Atwater Kent Model 545.....*31-4-33
 Atwater's Revenge [AK 40 power unit]*32-3-18
 Battery Superhets - Recalling Some Experiences.....*30-2-22
 Building a Tube-Type CCTV Camera36-2-26
 Channel Master Model 6506.....*31-3-41
 E. M. Sargent's Infradyne.....*21-4-16
 Emerson CR-261, The.....*36-1-14
 Europe on One Tube.....*33-3-23

Fixing a Mouse Nest - Philco Model 53-562 *34-4-47	er Field (R)..... *16-4-26	Majestic and the Spray-Shield Tube*32-2-15
Gary Davis Solid-State Black-and-White TV Camera, The.....*36-3-44	Schwesinger, W. L.	Major Armstrong and Captain Round: The V24 Valve [with Hall, M. D.].....*32-4-9
GE TC Chassis, The.....*33-4-43	Brief History of Super-Power Station WLW @24-2-6	"MG" tubes - Old and Not-So-Old@44-1-26
Hallicrafters S-38 as a Broadcast Receiver, The.....*29-3-38	Shaw, Bill	Military Equivalents of Civilian Receivers....*32-1-14
Heathkit SB-610 Modulation Scope.....*35-2-48	Collecting Lightning Arresters..... *30-4-21	More on Murgas.....*30-2-12
Infradyne Adapter, The.....*30-4-16	Shaw, Myron	More on the Annual Conference.....*32-4-29
National SW-54, The.....*29-4-21	Hugo Gernsback - Broadcast Pioneer, Inventor, Author, Publisher..... *18-2-18	Notes on Tube Bases.....*45-3-17
Philco 38-12, The.....*32-1-40	John Stone Stone - Inventor, Mathematician, Engineer.....@22-2-8	On Collecting and Restoring WW II Military Equipment.....*30-3-13
Philco 48-214.....*33-1-35	Shawsmith, Alan	"Original Nine" Metal Tubes and the Forgotten 6D5, The.....*32-4-11
QRP Rig Using the WE 311B Tube, A*35-1-47	Morse Key Collecting "Down Under".*16-1-5	Pencil Tubes.....*46-1-20 + 46-2-59
QST Two-Band Five-Tube Superhet, A*45-2-35	Pooch Who Made the Radio Shack Her Kennel, The.....*19-1-22	Philco Radio, 1928-1942 (review)....*35-2-64
RCA Victor "Camera Radio" Model BP-10, The.....*38-1-45	Sheldon, Ed	Replacing Philco Caps [with Owens, D. K.] *38-1-46
Recreating the Emerson BB-209.....*32-2-40	Radio in the Thirties.....@24-3-8	Program Transmission and the Early Radio Networks.....@R3-34
Restoring the Philco C1908 [Mopar 800] Car Radio.....*31-2-33	Sibley, Ludwell	QSL Cards by "Gil" [with Herkimer, John [source]].....*35-1-45
Restoring the Pilot TV-37.....*35-3-25	"18 Distance Crystal Sets" - The Return of Modern Radio Labs.....*34-1-12	Quadruplex, The [with DeNeuf, Don]*33-3-41
Scratch-Built TV - Silver Anniversary*31-4-28	20th Century Evolution of the Submarine Telegraph.....@R18-49	R1155 Receiver and T1154 Transmitter, The [with MacIntyre, Robert].....@31-4-11
Second-Generation Grunow.....*30-1-21	25 Years: Saga of the Saga.....*43-2-50	Radio Noise by Parachute [AN/CRT-2 jammer].....*34-1-48
Some Four-Tube Superhets.....*25-4-8	100th Anniversary of Armstrong's Birth*31-3-28	RDG, The: An Unusual HRO-Derivative [with Douglas, Alan].....*32-2-46
Sweeping the AM IF.....*34-1-49	833 Story, The [with Wagener, Win]*32-4-7	Restoring AC-DC Receivers.....@31-2-34
TCS Receiver, The.....*30-3-15	1989 Conference Auction Results...@30-3-5	"Restoring" Vacuum Tubes.....*31-2-25
Theater Sound in Your Home.....@37-4-36	1990 Conference Auction Results...*31-3-22	Report - BVWS-AWA International Meeting *30-2-7
Three Old-Time VHF Oscillators.....*34-2-50	1991 AWA Conference.....*32-3-21	RMA Code for Special-Purpose Tubes and Solid-State Devices, The.....*31-3-20
Western Electric 444A & 463A Traveling-Wave Tubes, The.....*31-3-14	1992 AWA Conference, The.....@33-4-27	Rochester Conference - 1993, The@34-4-4
Western Electric 4D on a Breadboard, A*37-1-44	1996 Rochester Auction Results...@37-4-22	RS-6, The: A Survival Radio, Fifties-Style *34-1-47
Working on a Zenith Trans-Oceanic*28-4-44	Acorn Tube, The.....@42-03-21	RSC-850, The: Another "Mystery" Tube*43-3-34
Zenith Chassis 8A02.....*31-1-34	Air Forces Catalog of German Equipment, The.....*35-1-41	Secret Tubes for Radar: The Western Electric 700-Series.....@R7-47
Schwark, Chuck	"AN" Nomenclature System, The....*30-3-20	Some Notes on Cathode-Ray Tubes@44-3-25
Antique Television on the Web.....*41-4-56	Another Radio Time Receiver.....*34-1-10	Some Thoughts on Collecting "Antique" Semiconductors.....*27-4-30
Boatanchors on the Web.....*42-1-48	AWA Annual Conference Report...@37-1-21	Some RCA Discoveries.....*46-3-44
Communications Magazines on the Web*43-4-42	Bell Labs Developmental CRT in AWA Museum.....*31-3-15	Special, Premium, and Long-Life Tubes*34-2-14
Crystal Sets on the Internet.....*45-1-57	Broadcast DX and the "Radio Craze"*35-4-16	Strange VT-128, The.....*30-3-25
Discussion Groups and Forums on the Internet.....*45-4-22	Broadcast DXing - Then and Now *28-3-38	Tech-Manual Art.....*33-4-47
Foreign Radios on the Web.....43-3-69	Brother Pat Dowd - A Tough Act to Follow *41-3-63	Telegraph Lab, in the.....*35-2-16
Gramophones and Phonographs on the Web *46-1-23	Building a Repair Stock of Tubes..*31-3-31	Those 1200- and 1600-Series Special Tubes *35-2-22
History and Ham Equipment.....*41-1-15	Celebration of Tube Brands, A.....*46-4-50	Those Lil' Fuses.....*37-2-52
Homebrew Regenerative Receivers on the Web.....*46-4-61	Collecting Tube Cartons.....*32-4-6	[Tube Column] New Douglas Book Now Available, Series-String Tubes for 100 mA, "Tubes" at Rochester.....*41-4-41
Internet, Getting Acquainted.....*39-4-41	Collins AN/ARC-2 Transceiver, The *33-1-16	[Tube Column] "Twin Tetrode" - The Eimac X159 Family; An RCA Sampler; The OTB on CD-ROM.....*42-1-24
Internet, Basic Hardware and System Requirements.....*40-1-56	Communication Receivers, in Rider's and Sams.....*32-1-16	Tube-Base Diagrams.....45-4-38
Microphones on the Web.....*46-2-44	Communication Receivers in Rider's, Sams, and Supreme Publications - A Restoration Aid, Version 2.....*34-2-21	Tube History in the <u>AWA Review</u> ..*42-4-56
Military Sets and Mil Surplus on the Web *43-1-54	Dates of Publication: Early U. S. Radio Journals.....*30-4-27	Tube Lore: "Make vs. Buy" at RCA*41-3-64, *41-4-39
More Web Wanderings.....41-3-58	Dates of Publication, More: Early Radio/Communications Periodicals.....*32-4-33	Tube Lore: Some Rediscovered RCA Special Tubes.....@40-2-43 + *40-1-52
Newsgroups and Forums.....@41-2-39	DuMont RA-119A "Royal Sovereign," The [with Kelley, Bruce].....*30-3-38	Tubes RCA Didn't Tell You About, The*34-4-43
Old-time Radio on the Web.....*45-3-58	"Federal" as a Telephone Company@R8-67	Tube Salvage Schedules.....*44-2-34
Old-Timers' Groups on the Web.....*42-3-27	Four Foreign HRO-Derivatives (with MacKinnon, Colin [source]).....*35-2-38	Tube Scene in 1952, The.....*43-4-32
Parts on the Web.....*42-2-56	Gridless Tubes - The Arcotron.....*35-1-24	Visiting a Tube Collection.....*45-2-37
Restoration Resources on the Web*44-4-66	History of Engineering and Science in the Bell System, The, series (review)*30-1-24	
Search Engines.....40-2-42	Hot-Chassis Set, The.....*31-1-31	
Telephone & Telegraph on the Web*42-4-53	Improved Cross-Index of Army VT-Numbers and Commercial Identifiers, An..@31-3-11	
There's Gold in Them Message Threads! @40-1-54	Index to the AWA Review.....@35-4-21	
Vintage Hi-Fi Stereo on the Web...*43-2-47	Introduction of the Miniature Tube..*42-2-49	
[Web sites, list of].....*40-4-49, *41-3-58		
Wireless Telegraphy on the Web...*45-2-67		
Schwartz, Lloyd		
Detail How Japanese Won in U. S. Consum-		

Why So Many Tube Types?.....@45-1-47
Tune-A-Lite [with Kelley, Bruce].....*30-4-17
"Ultimate" List of Headsets, The...@32-4-46
Western Electric "D-Spec" Tubes ...*31-3-29
Western Electric and the "ST" Bulb*43-1-23
Western Electric Tubes: Some Interesting
and Historic Types.....@R4-110, 31-1-35
WW I Navy Equipment-Identification System,
The [with Kelley, Bruce].....*32-2-12

Signal Corps
U. S. Signal Corps in Siberia, The*33-4-48

Silver, McMurdo
Tube Collector, The (R).....*20-2-24

Sivowitch, Elliot
A Technical Survey of Broadcasting's "Pre-
History," 1876-1920 (R).....Mono. No. 2

Sloat, Tex
Designing a Crystal Set.....*23-2-19
Restoring a Magnavox Model D Receiver*20-
1-30
Restoring the Metrodyne Receiver..*19-1-26

Smartt, Walter H.
AlSiMag Story, The.....*41-3-48

Smith, Al
Experiences in Early Broadcasting@45-1-24

Smith, Norm
Arvin Model 9574-P, The.....29-35
Evolution of a Classic - The Zenith Royal
500.....*32-1-38
General Electric Model P765A Rechargeable
Radio, The.....*30-3-34
Lloyds Model TR-800, The.....*38-1-40
Magnavox "Intercontinental" Model AW-100,
The.....*30-4-22
Mitchell 1101 and Bulova 250, The*30-1-18
Olympic Model 447, The.....*31-1-36
Philco Model T-9 Trans-World Radio, The*32-
4-40
RCA Transistor Personal Broadcast Receiver
Project, The.....*36-2-51
Sony TR63, The.....*30-2-31
Trancel TR-80, The.....*36-1-10
Transistor "Catalin," The.....*32-3-38
Zenith Royal 500 H-8 Transistor Pocket
Radio, The.....*29-3-24
Zenith Royal 950 - Golden Triangle, The*35-
3-16

Smith, Ross
Aligning Superheterodyne Sets.....@32-4-43
Circuit Restoration by the High-Impedance
Power Supply Method.....*30-4-18
CTS of Elkhart - Manufacturer of Electronic
Components.....*12-4-22
CTS Story, The.....*39-1-21
CTS-Turner Museum.....*25-4-36
Emerson Model 856 Transistor II Hybrid
Portable Set.....*36-3-27
Emerson Model 888 Transtimer, The*36-1-19
Restoration Tips.....@34-2-17
Sonora, Trav-Ler, and Truetone Super Six
Transistor Radios.....*36-2-36
Transistor Radios: A Collector's Encyclope-
dia and Price Guide (review).....*36-2-54

Smith, Wardell
Reisz Microphone.....*18-1-15

Smolski, Joseph
Hum Reduction for AC-DC Sets.....*24-2-30

Soifer, Ray
DDH47 Commemorates 100th Anniversary of
Marconi's Transatlantic Transmission*44-2-56

Starry, George
[source for] Wm. B. Duck Co. [with Kelley,
Bruce].....*9-4

Stavert, Harry
Reviving a Majestic Model 71.....*35-1-33

Stedenfeld, J. W.
William Gibbons Houskeeper.....*23-2-16

Stefanides, Scott
Joseph Murgas, The Neglected Wireless Pio-
neer [with Novrocki, Michael].....@30-2-9

Steiner, Ollie
Ollietron Model A, The.....*29-4-4

Stephany, Joseph
Alexanderson Alternators at Haiku, The@44-2-
36
Putting the Navy OS-8 to Work.....*42-2-31

Stephany, Nolan
Dutch Museum of Broadcasting, The*35-3-49

Stephenson, Parks
Marconi Wireless Installation in the R. M. S-
Titanic Part 1.....@42-4-40 + @43-1-36
Marconi Wireless Telegraph Apparatus in R.
M. S. Titanic Confirmed by Observations of
the Wreck, The.....@R15-126

Sterling, Christopher
Dime-Novel Radio.....*13-4-8, *33-2-10 (R)

Sterling, George
Spies Use Radio - The Radio Intelligence
Division in WW II.....@R5-63

Stewart, Al
WTAM - "The Voice of the Storage Battery"
*8-2-6

Stewart, Fin
"Expanse B" and Other Early Australian
Valves.....*8-2-13
Early Australian Valves.....*41-2-44
Radio Tube Manufacture in Australia*R6-125
Smaller British Valve Makers (R).@40-1-12
Some Early American Valve Makers (R)*40-4-
34 + 41-1-42

Stinger, Charles J.
The Eminent Years of Powel Crosley, Jr.,
His Transmitters, Receivers, Products, and
Broadcast Station WLW [with aid from Da-
vid B. Snyder].....@R16-7

Stockman, Harry
Visit to von Ardenne, A - More About the
Loewe Tube.....*29-4-27

Stokes, John
Amplion Horn Speaker, The [with Paul,
Floyd].....*21-4-12
Arcturus Radio Tubes.....*10-1-22
British Valves.....*15-1-26
Cunningham Connection, The.....*39-5-8
Famous Browning-Drake, The.....*8-3-10
Lumion Tube, The - A Mystery Solved@37-
3-47

Stokes, William
Building an Old-Time Wireless Receiver.....
*35-1-11

Strippel, Dick
Antennas of the Mid-1930s.....*38-4-53
Heathkit GR-81 "Economy SWL Receiver,"
The.....*38-2-51

Stump, Earl
Replica Audion Unit [with Edge, Fred]6-3-7,
*28-1-35

Stumpf, Eric
Pre-War RCA Suitcase Camera Comes to
Light, A.....*39-3-18

Suffield, Frederick
1630 Orbital-Beam Tube, The.....*37-1-46
Brief History of a Radar Unit, A, The SCR-
270.....*22-3-12

Svensson, Bengt
Station SAQ Makes UNESCO World Heritage
List.....*45-4-57

Swynar, Edward P.
1929 Amateur Radio Station for the New
Millennium@42-3-33 + @43-1-29 + @43-2-
41
1929 State of the Art Superheterodyne, A
@46-1-30

Symonds, Gordon
More on the R1155.....*32-1-24

Sypher, Peter
Explosive Charges Fell NSS Antenna Farm
*41-4-32
Station NSS: A Decommissioned Giant*39-4-
27

Tannenbaum, Michael
HRO Story, An.....@32-2-44
HRO-500, The.....*32-3-15
HRO-600, The.....*32-4-24

Taylor, Philip
Tuneon, The: A British Tune-A-Lite*31-4-27

Tedeschi, Enrico
Early Sony Portable TV.....*36-4-18

Thackeray, Desmond
100th Anniversary of the Edison Effect*24-3-
24
"Capricious and Inconsistent Results" (Or,
Some Thoughts on Plain-Aerial Rigs)*35-2-
53
Carborundum Story, The.....@27-3-10
Crystal IF Filter.....@37-3-24
First High-Power Transmitter at Poldhu, The
@R7-29
Single-Crystal IF Filter, The@37-3-24, 37-4-11
Wireless to Rent: The First Marconi Marine
Transmitters on Short Waves.....*32-2-18

Thetreaux, Ralph "Tate"
Michigan Historical Museum, The.....*1-3-4

Thomas, Ronald R.
Guglielmo Marconi: Creating Wireless Teleg-
raphy.....*44-2-60
Licensed Commercial Radio Operators: The
Forgotten Men of Radio.....*44-3-50
Radio Spectrum, The: Utilizing a Scarce
Resource.....*45-1-22
Wings Over the Pacific.....@34-4-25
250-Watt AM Station, The.....*46-4-62

Tipton, Bill
70.7-Volt Transformers for Output Applications
*41-4-47

Trischan, Glenn
Doctor Lee De Forest, Professor Warren
Johnson, and the American Wireless Tele-
graph Company.....R14-150

Troe, Jim
Were There Transistor Radios Before the
TR-1?.....@34-4-16

Trump, Fernando [Kelley]
Building a 75-Year-Old Amateur Station*30-2-
38

Tuggle, Mike
Designing a DX Crystal Set.....@44-4-47
Lyonodyne Crystal Wireless Receiving Set,
The.....*20-1-10, *44-4-47

"Turkey, Tim"

Broadcast of the Fight [Dempsey-Tunney] (R) *15-4-26

Tuska, Clarence
Radio Amateur in World War I, A. @R1-49

Twerdle, Islip [Kelley]
Flame Audion, The.....*17-1-29, 23-1-21

Tyne, Gerald F. J.
De Forest Type "H".....*15-3-19
Historical Detector [De Forest PN]... 19-4-14
LRS Relay, The.....*20-3-15
Manhattan College Tube Exhibit.....*20-4-32
Rare Tubes: How to Recognize Them, and Why They Are Rare..... @R8-47
RJ-4 Detector and the Wallace Mystery, The Mono. 1
Speed "Triple-Twin" Tubes.....*15-4-12

Upton, Lane
Automatic Forming of Electrolytic Capacitors *37-3-34
Bush & Lane Follow-Up.....*36-2-34
Radio Alignment Aids.....*39-2-30
Reduction of Hum in Early AC Radios@37-1-48
Rejuvenation of Vacuum Tubes*14-3-20, *42-1-60
Simple Tools & Techniques for Radio Servicing.....*37-2-21
Testing Older Battery Tubes on the Hickok Models 530, 600, and 6000.....@39-1-14
Washing the Radio Chassis.....*38-1-47

Usher, Roy
DC Crystal Reception in 1988.....*29-14

Van Krugel, Rick
[Letter on cleaning bakelite].....*29-4-42

Vanicek, Jerry
de Forest Spherical Amplifier, The.*33-3-26
Eaton Tube Collection Revisited, The@R7-107
German WW II Magnetrons.....@35-1-38
John Scott-Taggart and the Negatron*35-4-8
Joseph T. Fetsch: Vacuum-Tube Engineer and Collector.....@R8-109
Radiofest Review.....*34-4-55

Vanquis, Peter [Kelley]
Regeneration Control Methods.....*23-3-31
RF Coupling Circuits.....*23-4-25

Vermeulen, Dirk
Beginnings of Vacuum Tube Radio at Western Electric.....@R11-104
Brief History of Radio in South Africa, A @26-3-14 + 31-1-32
Dr. H. J. van der Bijl and the Vacuum Tube @30-2-34

Wagener, Win
833 Story, The [with Sibley, Ludwell]*32-4-7
861 Story, The.....*33-1-14
Unique 4E27 Power Pentode, The.*34-1-40

Ware, Lawrence
National Company, Inc., The - The Coil-Catcomb Radios and Variations on a Theme . . . @R11-166

Watanabe, Koji
Building an "All-Japanese Five" Superheterodyne Receiver.....@41-2-36

Weedon, Kaye
Lee de Forest's "Crust of Bread"... *30-1-14

Wells, Gerald
A is for American (R).....*46-1-59

Wenaas, Eric P.
Wireless Specialty Apparatus Nomenclature Gone Awry.....@R18-25

White, Thomas
Mystique of Three-Letter Call Signs, The*35-4-49

White, William C.
Glow-Discharge Voltage Regulator Tubes*24-2-16

Widell, Anders
Visit to an Original 1935 Telefunken Broadcast Transmitter in Bergen, Norway*26-4-16

Wiefert, Robert and Tina
The First Years of Wireless in the Hawyaaian Islands.....@R6-19

Wiesner, John
Restoration of the Early HRO Receiver [with Fizette, Bill].....@24-3-12

Willard, Thomas
WW II German Military Communications Radio, A [Telefunken 30W.S.a]....*38-2-30

Willer, Murray
Foreign and Military Telegraph Keys [with Moreau, Louise].....@R3-98

Willett, Charles [Kelley]
Radiola IX, The.....*22-1-29
Radiola 17 and 18, The.....*23-3-16
Western Electric 2-A Receiver, The*23-4-30

Williams, Barry
Evolution of the National HRO, The, and Its Contribution to the Winning of World War II @R17-145

Williams, Charles
Pioneering in Car Radio (1921).....*21-1-11

Williams, Ralph
Alexanderson Alternator Story, The [with Marshall Etter, Bob McGraw, and Chris Bacon] (R).....@46-1-24
Atwater Kent - Master of Marketing@R10-7
Atwater Kent Early Radio Development@R1-83
Atwater Kent Early Radio Development - Metal and Mahogany Boxes.....@R2-71
Atwater Kent Horn Speaker, The [with Paul, Floyd].....@23-3-9
Atwater Kent Radio Development - Part III - The A. C.-Powered Receivers.....@R3-6
Atwater Kent Radios, The.....@R12-7
Beginnings of Radio Central, The (R) [with Marshall Etter, Bob McGraw, and Chris Bacon].....*46-2-32
Clothes Don't Make the Man - Nor Decoration Hide the Radio [Deco AK 37]21-4-29
Report from Radio Central [with Marshall Etter, Bob McGraw, and Chris Bacon] (R) @46-4-46

Willman, Rebecca
Model Test Car in FCC Museum...*33-3-47

Woolner, Ted
Always Open! [audio transformers]..*11-2-23
Cliquot Club - Brief History of Pioneer Radio Program.....*12-4-10

Worts, George
Wireless Operator's First SOS, A (R)@30-1-38

Wulff, Fred
Brief, Technical History of the VOA Network, A @36-4-28

Yanczer, Peter
Innovative Mechanical Television.....@34-3-6
Radiomovies: 1928 Television Movies in 1987.....@28-2-8

Yatsuyanagi, Jun
Origins of Amateur Radio in Japan*34-2-43

Young, John
Short History of Radio Frequency Labs, Inc. *19-4-12

Zenker, Rudy
Restoring the Philco 37-60: A Trip into Deja-Vu Land.....*30-4-12

Ziegler, Carl [Kelley]
Brief History of the Kester Solder Co.*21-3-19
Exciting Side-Line for Any Collector, An - Automobile Radios.....*18-3-10
Exciting Side-Line for Any Collector, An - Keys!.....*19-28
Novice Collector and His First AC Set, The *17-4-12, 21-3-18, *35-4-47
Report on Annual Conference.....*28-4-8
What Time is It? [with Cobaugh, Robert]*21-4-24

Zimmerman, Arthur E.
First Wireless Time Signals to Ships at Sea, The.....@43-3-57

Zimmerman, Dave
Birth of a New "Old" Radio.....*32-4-38
Leaky IF Cans in Old Superhets [with Hawthorth, Bob].....*29-3-25
Zenith Product Code Since 1949.....32-2-37
(Author not cited)
End of CW Marine Communications?, The (R).....*40-4-50