

AWA REVIEW MASTER INDEX

VOLUME 1 - 1986

FOREWORD.....	5
THE FOUNDING AND DEVELOPMENT OF THE ANTIQUÉ WIRELESS ASSOCIATION AND ITS MUSEUM Charles M. Brelsford.....	7
JOHN STONE ON NIKOLA TESLA'S PRIORITY IN RADIO AND CONTINUOUS-WAVE RADIOFREQUENCY APPARATUS Leland I. Anderson.....	19
FARNSWORTH'S CONTRIBUTIONS TO MODERN ELECTRONIC TELEVISION Stephen F. Hofer.....	43
A RADIO AMATEUR IN WORLD WAR I Clarence D. Tuska.....	49
A BRIEF HISTORY OF THE NATIONAL COMPANY, INC. John J. Nagle.....	65
ATWATER KENT EARLY RADIO DEVELOPMENT Ralph O. Williams.....	83
FIELD TEST OF THE ARMSTRONG WIDE-BAND FREQUENCY MODULATION SYSTEM FROM THE EMPIRE STATE BUILDING, 1934 AND 1935. Thomas J. Buzalski.....	109
AN INTERVIEW WITH PAUL GODLEY Wayne M. Nelson, W4AA.....	117

VOLUME 2 - 1987

FOREWORD.....	5
DEFOREST RADIO TELEPHONE COMPANIES, 1907-1920 Thorn L. Mayes.....	6
ACROSS THE GAP: AN APPRAISAL OF SPARK RADIOTELEGRAPH ENGINEERING A. C. Goodnow.....	21
ATWATER KENT EARLY RADIO DEVELOPMENT - THE MAHOGANY AND METAL BOXES Ralph O. Williams.....	71
HAMMARLUND RADIO Stuart Meyer.....	95
A CENTURY OF TELEGRAPH KEY DEVELOPMENT Louise Ramsey Moreau.....	106
THE PHILADELPHIA RADIO STORY - THE FIRST FIFTY YEARS Rexford M. Matlack.....	120

VOLUME 3 - 1988

FOREWORD..... 4

GUEST EDITORIAL
Donald Christiansen.....5

ATWATER KENT RADIO DEVELOPMENT - PART III
THE A.C. POWERED RECEIVERS
Ralph O. Williams.....6

PROGRAM TRANSMISSION AND THE EARLY RADIO NETWORKS
Ludwell A. Sibley.....34

AUDIO FREQUENCY CHARACTERISTICS IN EARLY BROADCASTING
Robert M. Morris.....48

A.C. SUPPLY FOR RADIO RECEIVERS - HOW THE LOWELL
AND DUNMORE PATENTS (ALMOST) CHANGED THE INDUSTRY
Alan Douglas.....61

THE RADIO APPARATUS OF ERNEST C. MIGNON
Lauren A. Peckham.....79

FOREIGN AND MILITARY TELEGRAPH KEYS
Louise R. Moreau and Murray D. Willer.....98

THE ALEXANDERSON SYSTEM FOR ELECTRO-MECHANICAL
PRODUCTION OF RADIO-FREQUENCY ENERGY
Glen C. Fuller.....120

VOLUME 4 - 1989

FOREWORD..... 5

A SKETCH OF EARLY RADIO VACUUM-TUBE RESEARCH
AND DEVELOPMENT AT THE GENERAL ELECTRIC COMPANY
J. M. Anderson.....6

THE HRO REPORT: DATING THE EARLY HRO
Charles P. Fisher.....32

TUBE MANUFACTURING AT WESTERN ELECTRIC: THE WE 300B
Attila R. Balaton.....45

THE FEMININE TOUCH IN TELECOMMUNICATIONS
Louise R. Moreau.....70

A DECADE OF ELECTROACOUSTIC REPRODUCTION (1920-1930)
Floyd A. Paul.....84

AN ELUSIVE FRAME OF TELEVISION HISTORY PRESERVED
William E. Denk.....99

WESTERN ELECTRIC TUBES: SOME INTERESTING AND HISTORIC TYPES
Ludwell Sibley.....110

EARLY MICROPHONE HISTORY	
Bob Paquette.....	131

VOLUME 5 - 1990

FOREWORD.....	i
SUPPLYING TUBES, SETS, AND PEOPLE TO RCA: THE GENERAL ELECTRIC CONNECTION	
John M. Anderson.....	1
AMERICA'S WIRELESS SPIES	
Bart Lee.....	21
THE TRIODE THAT PREDATED DE FOREST: ROBERT VON LIEBEN AND THE LRS RELAY	
Thomas H. Briggs IV.....	45
SPIES USE RADIO - THE RADIO INTELLIGENCE DIVISION IN WW II	
George E. Sterling, W1AE.....	63
ELEMENTS OF REFERENCE FOR IDENTIFYING AND DATING WESTERN ELECTRIC ELECTRON TUBES	
Attila R. Balaton.....	109
SAN FRANCISCO'S NETWORK BROADCAST CENTERS OF THE 1930S	
John F. Schneider, KB7AK.....	123
THE U. S. PATENTS OF ARMSTRONG, CONRAD, DE FOREST, DU MONT, FARNSWORTH, FESSENDEN, FLEMING, KENT, MARCONI, AND ZWORYKIN	
David W. Kraeuter.....	143

VOLUME 6 - 1991

FOREWORD.....	i
THE EATON TUBE COLLECTION	
George H. Clark, Bruce Kelley, Lauren Peckham L. C. F. Horle, and W. A. Eaton.....	1
THE GENERAL ELECTRIC COMPANY CONSIDERS BUYING THE DE FOREST RADIO TELEPHONE AND TELEGRAPH CO., 1916	
John M. Anderson.....	13
THE FIRST YEARS OF WIRELESS IN THE HAWAIIAN ISLANDS	
Robert J. Wiepert and Tina M. Wiepert.....	19
A REVIEW OF EARLY TELEVISION IN THE UK	
Pat Leggatt.....	37
SIGNAL CORPS SCR-RC-BC DIRECTORY	
Frederick W. Chesson.....	49

WHO INVENTED THE SUPERHETERODYNE? Robert Champeix, translated by Richard Foster	97
AMATEUR RADIO IN THE NEW YORK CITY AREA PRE-WW I Daniel C. McCoy.....	115
RADIO TUBE MANUFACTURE IN AUSTRALIA Fin Stewart.....	125
THE MILITARY COMMUNICATIONS EXPLOSION, 1914-18 Louise Moreau.....	135
THE U. S. PATENTS OF ALEXANDERSON, CARSON, COLPITTS, DAVIS, GERNSBACK, HOGAN, LOOMIS, PUPIN, RIDER, STONE, AND STUBBLEFIELD David W. Krauter.....	155

VOLUME 7 - 1992

FOREWORD.....	i
RICEVITORE POPOLARE ITALIANO (THE ITALIAN PEOPLE'S RECEIVER) Robert Lozier.....	1
MEMORIES OF EARLY ELECTRON-TUBE DEVELOPMENT Edward W. Herold.....	15
THE FIRST HIGH-POWER TRANSMITTER AT POLDHU Desmond Thackeray.....	29
SECRET TUBES FOR RADAR: THE WESTERN ELECTRIC 700-SERIES Ludwell Sibley.....	47
APPENDIX - PRODUCTION OF VT90 (710A) IN VALVES IN AUSTRALIA Colin MacKinnon.....	66
MILITARY ELECTRONIC EQUIPMENT - NAVAL EQUIPMENT MANUFACTURERS Fred Chesson.....	69
A BRIEF HISTORY OF THE VALVE AUDIO AMPLIFIER Carlos Fazano.....	91
THE EATON TUBE COLLECTION REVISITED Jerry Vanicek.....	107
THE ARC METHOD OF PRODUCING CONTINUOUS WAVES William J. Byron, W7DHD.....	119
ROBERT H. GODDARD AND THE GODDARD OSCILLATOR M. D. Hall, K2LP.....	151
THE EVOLUTION OF BROADCASTING FROM THE TRANSMITTER VIEWPOINT Author Unknown.....	159
INDEX AND ADDITIONS TO PATENTS LISTS	

David Kraeuter.....185

VOLUME 8 - 1993

Foreword..... i

UNUSUAL MILITARY MORSE KEYS

Louis Meulstee, PA0PCR..... 1

RARE TUBES: HOW TO RECOGNIZE THEM, AND WHY THEY ARE RARE

Gerald F. J. Tyne.....47

A NEW BIBLIOGRAPHY OF REGINALD A. FESSENDEN

David W. Kraeuter.....55

'FEDERAL' AS A TELEPHONE COMPANY

Ludwell Sibley.....67

THE KFS-FEDERAL-MACKAY STORY. FROM CW ARC TO SILICON VALLEY

Hank Olson, W6GXN, and Bill Orr, W6SAI.....75

JOSEPH T. FETSCH: VACUUM-TUBE ENGINEER AND COLLECTOR

Jerry Vanicek.....107

A HISTORY OF THE NATIONAL ELECTRICAL SUPPLY CO.

Edward B. Duvall, ex-3DW.....117

NAVY ELECTRONICS DIRECTORY

Frederick W. Chesson.....123

A GLIMPSE AT OLD-TIME TRANSMITTER DEVELOPMENT

Walter H. Nelson.....149

VOLUME 9 - 1995

FOREWORD..... 5

MARCONI - THE MAN AND HIS APPARATUS

James H. and Felicia A. Kreuzer.....7

THE INTERNATIONAL CONTEST FOR RADAR

Ed Lyon.....97

THE REAL STORY OF THE MAGNETRON

Ed Lyon.....181

FRITZ LOWENSTEIN - THE FORGOTTEN MAN OF THE VACUUM TUBE

Pat Dowd.....205

83 YEARS OF U.S. AMATEUR LICENSING

Neil D. Friedman.....225

VOLUME 10 - 1996

FOREWORD..... 5

ATWATER KENT-MASTER OF MARKETING
Ralph O. Williams..... 7

THE RACE FOR RADIOTELEPHONE: 1900-1920
Mike Adams.....78

COMMEMORATING THE 75th ANNIVERSARY OF RADIO CENTRAL
Christopher Bacon.....150

DEFIANCE IN THE WEST- THE HEINTZ AND KAUFMAN STORY
Hank Olson and Al Jones.....188

THE COLLINS RADIO COMPANY- INGREDIENTS OF SUCCESS
F. Parker Heinemann.....222

GILFILLAN BROS. INC., EARLY RECORDS
Floyd Paul.....245

VOLUME 11 - 1998

FOREWORD..... 5

THE TECHNOLOGY OF THE E. H. SCOTT RADIO LABORATORIES
Kent A. King..... 6

THE BEGINNINGS OF VACUUM TUBE RADIO AT WESTERN ELECTRIC
Dirk J. Vermeulen.....104

TRANS-PACIFIC RADIO TELEPHONE CIRCUITS AND THE A-3 PRIVACY DEVICE
Roy S. Blackshear.....150

THE NATIONAL RADIO COMPANY, INC. - THE COIL-CATACOMB
RADIOS AND VARIATIONS ON A THEME...
Lawrence R. Ware.....166

VOLUME 12 - 1999

FOREWARD..... 5

INTRODUCTION..... 7

CHAPTER 1. RADIO INSTRUMENTS AND MOUNTING BOARDS..... 9

CHAPTER 2. AMPLIFYING INSTRUMENTS.....16
Detectors, Sockets, Radio Frequency Amplifiers,
Audio Frequency Amplifiers, Detector Amplifiers,
Other Instruments, Manufacturing.

CHAPTER 3. FROM INSTRUMENTS TO RADIOS - THE PRE-TEN SERIES.....	27
Models 1 through 4, Models 6, 7, Thoriated Filament Tubes, Models 5, 8, Model 9, No, 4445	
CHAPTER 4. THE MODEL 10 SERIES.....	58
"Radiodyne" and Model 10, Factory Success, No. 4600 and Variations of Model 10, Models 10A and 10B, Model 10C, No. 4700, Model 12, 12B, 12C, No. 4910	
CHAPTER 5. REPRODUCERS AND LOUDSPEAKERS.....	81
CHAPTER 6. THE TWENTIES SERIES.....	84
Model 20, No. 4640, Model 20 Panel Set, No. 4670, The DeLuxe, No. 4920 (Model 24), Model 19, No. 4880, Model 20C, Nos. 7570 and 7960 - Model 21, No. 7780, Networks - The Compact Sets.	
CHAPTER 7. THE THIRTIES SERIES	102
Model 30. No. 8000, Model 30A, No. 8000, Model 48. No. 9840, Model 32. No. 8270, Model 33, No. 8930, Panel Set No. 9050, Model 49. No. 9860, Model 35, No. 8100, Model 36, No. 9390, Power Units Types R and S, Power Supply Type Y, Model 37. No. 9500, Model 38. No. 9400.	
CHAPTER 8. THE FORTIES SERIES.....	140
Model 40. No. 9800, Model 41. No. 9910, Model 42. No. 9850, Model 43. No. 9870, Model 44. No. 9900, Model 46. No. 14100, Model 48. No. 9840, Model 49. No. 9860, Model 47. No. 14500.	
CHAPTER 9. THE UNIQUE MODEL 50, NO. 8500.....	156
CHAPTER 10. KENT'S FIRST CONSOLES	158
The Fifties Series - Models 51. 52. 53. 57 and 58	
VOLUME 12A - 1999	
CHAPTER 11. NEW CONCEPTS AND THE MODEL 55.....	161
CHAPTER 12. THE SIXTIES SERIES.....	166
Models 60, 60C Third Type, Models 66, Models 61 and 61C, 67 and 67C	
CHAPTER 13. THE SEVENTIES SERIES, THE LETTERED CHASSIS TYPES ..	173
Models 70, 70D, 70Q	
CHAPTER 14. AFTER THE TUNED-RADIO-FREQUENCY SETS	178
Kent Licenses the Superheterodyne	
CHAPTER 15. ATWATER KENT'S NEW PRODUCT LINE.....	182
The Model H, The Eighties Series, Models 84, 80, 82, 83 and 85, 86, 87 and 87D, 89, 81, 82Q, 84Q, 85Q, The Nineties Series, Models 90, 92, 94 and 94F, 96, 99, 93, 91, 91B and 91C	
CHAPTER 16. ATWATER KENT USES THREE NUMBERS	210
The 1932 Series, Models 567, 228, 188, 469 and 469D, 260, The Late 1932 Series , Models 627, 627F, 558, 558F, D, Q,	

469F, D, Q, 480, 612, 812.

CHAPTER 17. THE 1933 SERIES.....230
Models 448, 310, 510, 246, 266, 217, 427, 667, 217D, 427D, 667D,
427Q, 387, 708, 808, 808A, 555, 155, 165, 185, 525, 165Q, 525Q,
636, 756, 756B, 424, 534.

CHAPTER 18. THE 1934 SERIES.....253
Models 778, 559, 511, 509, 711, 112, 137, 257, 447, 487, 577, 318,
308, 768Q, 978Q, 206, 206D, 376, 386D, 356, 286, 185A, 145, 325,
475, 735, 275, 425, 665, 465Q, 655Q, 135Z, 215Z, 944, 273D, 816,
926, 936, 666.

CHAPTER 19, THE 1935 SERIES.....283
Models 710, 810, 312, 412, 648, 608, 649, 349, 208, 248, 168, 307,
337, 200, 637, 717, 328, 828, 825, 545, 755, 875, 765, 865, 435, 255,
225, 535, 725, 336, 216, 456, 676, 856, 796, 236, 385Q, 657Q, 747Q,
237Q, 467Q, 415Q, 285Q, 515Q, 485Q, 776, 126, 136, 416, 446, 556.

CHAPTER 20. CLOSING.....305

APPENDIX

1. THE BOARDS, RESTORATION.....312
2. INDEX OF MODELS.....318
3. CHARACTERISTICS OF MODELS - INSERT

AUTHOR'S PROFILE.....320

VOLUME 13 - 2000

FOREWORD..... 5

MANUFACTURE OF BROADCAST RECEIVERS BY THE
NORTHERN ELECTRIC COMPANY IN THE 1920s
Robert Murray.....7

MARCONI v. BRITISH RADIO TELEGRAPH AND TELEPHONE COMPANY:
THE PATENT CASE THAT CHANGED THE WORLD
Graeme Bartram.....39

MARCONI'S TRANSATLANTIC TRIUMPH - A SKIP INTO HISTORY
Bartholomew Lee.....81

RADIO DIRECTION FINDING AND "HUFF-DUFF"
Richard C. Foster and Pierre Demerseman.....98

"ANYTHING YOU CAN THINK OF DOING, WE'D JUST DO IT"
THE EARLY HISTORY OF CHARLOTTE'S RADIO STATION WBT
Pamela Grundy.....115

EARLY RADIO STATIONS: WEEDS AND TREES
George A. Freeman.....124

VOLUME 14 - 2001

FOREWORD..... 5

SPARK KEYS: THE INTERPLAY OF WIRELESS HISTORY AND TECHNOLOGY
Russ Kleinman, Jim Kreuzer, Karen Blisard, and Felicia Kreuzer .. 7

THE SPARK KEY PROJECT
Russ Kleinman and Karen Blisard.....82

THE FIRST THIRTY YEARS OF THE CANADIAN MARCONI COMPANY
Roger Hart and Robert Murray.....92

DOCTOR LEE DEFOREST, PROFESSOR WARREN JOHNSON,
AND THE AMERICAN WIRELESS TELEGRAPH COMPANY
Glenn Trischan.....148

THE BAKELITE RADIO: AN ICON OF THE 20TH CENTURY
Barbara Havranek.....178

CUMULATIVE TABLE OF CONTENTS OF ALL VOLUMES
OF THE AWA REVIEW.....196

VOLUME 15 - 2002

FOREWORD..... 5

RADIO SPIES: EPISODES IN THE ETHER WARS
Bart Lee.....7

THE MARCONI WIRELESS TELEGRAPH APPARATUS IN R.M.S. TITANIC
AS CONFIRMED BY PHOTOGRAPHS OF THE WRECK
Parks Stephenson.....98

SOWING SEEDS: GROWING AMERICA'S BROADCASTING SYSTEM
George A. Freeman.....126

"JUST PLUG-IN - THEN TUNE IN" - THE FIRST COMMERCIAL LIGHT-SOCKET
OPERATED RADIO RECEIVERS FROM ROGERS RADIO LTD., TORONTO, CANADA
Maurice Chaplin.....147

CUMULATIVE TABLE OF CONTENTS FOR ALL VOLUMES
OF THE AWA REVIEW.....179

VOLUME 16 - 2003

FOREWORD..... 5

THE EMINENT YEARS OF POWEL CROSLY JR., HIS TRANSMITTERS,
RECEIVERS, PRODUCTS, AND BROADCAST STATION WLW, 1921-1940
Charles J. Stinger.....7

EARLY WIRELESS PACK SETS: SPARK HITS THE BEACH

Russ Kleinman, Karen Blisard, Jim and Felicia Kreuzer, and August Link	96
JOHN F. RIDER, HUGO GERNSBACK, AND RCA RADIOTRON: THE SAGA OF RIDER'S EARLY RADIO MANUALS Charles C. Kirsten.....	135
THE HISTORY OF THE DEVELOPMENT OF RADIO GRILLE CLOTH Barbara Havranek.....	180
CUMULATIVE TABLE OF CONTENTS FOR ALL 16 VOLUMES OF THE AWA REVIEW.....	206

VOLUME 17 - 2004

THE REGENCY TR-1 FIFTY YEARS LATER Paul R. Farmer.....	1
A HISTORY OF THE KODEL RADIO CORPORATION John E. Leming, Jr.....	31
THE EVOLUTION OF THE SUBMARINE TELEGRAPH, WITH AN EXTENSIVE BIBLIOGRAPHY by Bill Holly.....	73
BROADCAST RECEIVER MANUFACTURE BY GENERAL ELECTRIC AND WESTINGHOUSE IN THE FIRST DECADE OF RCA Robert Murray.....	107
THE EVOLUTION OF THE NATIONAL HRO AND ITS CONTRIBUTION TO THE WINNING OF WORLD WAR II Barry Williams.....	145

VOLUME 18 - 2005

MOTOR BUZZER TRANSMITTERS by Russ Kleinman, Karen Blisard, and A. J. Link.....	1
WIRELESS SPECIALTY APPARATUS NOMENCLATURE GONE AWRY by Eric Wenaas.....	25
20TH CENTURY EVOLUTION OF THE SUBMARINE TELEGRAPH by Ludwell Sibley.....	49
RADIO ADVERTISING AND FASHION by Barbara Havranek.....	65
MADE IN ROCHESTER by Allan Pellnat.....	101
CUMULATIVE TABLE OF CONTENTS, AUTHOR AND SUBJECT INDEX FOR VOLUMES 1 THROUGH 18 OF THE AWA REVIEW.....	137

VOLUME 19 - 2006

THE EXTRAORDINARY TRIPLETT 630 VOM SERIES
by Charles Kirsten.....1

RADIO PIONEER DR. DAVID G. MCCA
by Lloyd Jury and Brian Belanger.....29

CQ "SMALL FORMAT" AMATEUR RADIO BOOKS,
1947-1984: AN ANNOTATED BIBLIOGRAPHY
by Neil Friedman.....49

TELEVISION HISTORIAN: AN APPRECIATION OF
GEORGE SHIERS (1908-83)
by Christopher Sterling.....61

E.H. SCOTT SERIAL NUMBERS: AN UPDATED ANALYSIS
by Kent King and Norman Braithwaite.....73

TECHNIQUES OF RADIO INTELLIGENCE IN THE SECOND WORLD WAR
by Gary Cain.....85

FESSENDEN'S CHRISTMAS EVE BROADCAST:
RECONSIDERING AN HISTORIC EVENT
by Donna Halper and Christopher Sterling.....119

MORSE CODE TRAINING DEVICES
by David and Julia Bart.....139

VOLUME 20 - 2007

ONE HUNDRED YEARS OF ELECTRONIC COMMUNICATIONS
by Ludwell A. Sibley..... 1

HENRY J. NOLTE AND GENERAL ELECTRIC'S HIGH POWER,
METAL ENVELOPE TUBES
by John M. Anderson..... 19

MARCONI VS. DE FOREST AUDION INFRINGEMENT LITIGATION REVISITED
by Eric P. Wenaas..... 31

FIRST WORLD WAR AIRCRAFT RADIO
by Larry Babcock..... 75

THE 1902 WIRELESS CONNECTION - SANTA CATALINA ISLAND
TO SAN PEDRO, CALIFORNIA
by Norwood Teague and Joe A. Knight..... 97

THE EARLY HISTORY OF THE ELECTRIC LOUDSPEAKER
by John D. Jenkins..... 125

EMIL J. SIMON: A BUSY LIFE INDEED
by Russ Kleinmann, Karen Blisard, A.J. Link & Warren Berbit ...145

A PORTAL INTO RADIO'S PAST: FRANCIS A. HART AND HIS RADIO LOG
by James E. O'Neal..... 169

EXPLORING THE ORIGINS OF THE LOUD SPEAKER
 by David and Julia Bart..... 191

THE SUPREME MODEL 45 TUBE TESTER AND THE 1933 TUBE PIN STANDARD
 by Charles C. Kirsten..... 213

VOLUME 21 - 2008

THE MARCONI BEACON EXPERIMENT OF 2006-07
 by Bartholomew Lee, Joe Craig, Keith Matthew.....1

A MOUNTAIN OF WATER
 by Crawford MacKeand.....23

COMMENTARY..... 41

EXPERIMENTS WITH MOCK-UPS OF THE ITALIAN NAVY COHERER
 by Eric P. Wenaas, John D. Bryers.....45

EXPERIMENTS WITH THE MERCURY SELF-RESTORING DETECTOR
 by Lane S. Upton.....69

WHO WAS THE REAL INVENTOR OF MARCONI'S WIRELESS DETECTOR?
 by Eric P. Wenaas.....81

PHIL WEINGARTEN'S FABULOUS FAKES
 by Tom Perera.....103

SIR Wm. THOMSON, ON THE 150th. ANNIVERSARY OF THE ATLANTIC CABLE
 by David and Julia Bart.....121

A HISTORY OF EMERSON
 by Brian Belanger.....165

THE HISTORY OF WURLITZER RADIO, 1924 - 1937
 by Larry Babcock.....191

FROM IDDY UMPTY TO CHARLIE MCCARTHY: RADIO GAMES AND
 THE RISE OF COMMERCIAL BROADCASTING
 by Graeme Bartram.....211

THE UNITED STATES ENTERS INTERNATIONAL BROADCASTING:
 A TALE OF TWO UNUSUAL RADIO STATIONS
 by James O'Neal.....233

DORON BROTHERS ELECTRICAL COMPANY, HAMILTON, OHIO:
 WIRELESS EQUIPMENT AND BROADCASTING, 1910-1930
 by Charles Stinger.....271

VOLUME 22 - 2009

FOREWORD..... iv

THOMAS E. CLARK, DETROIT'S "WIRELESS WIZARD"

by Russ Kleinman, Dick Clark and Karen Blisard.....	1
MENTAL RADIO: WIRELESS AND TELEPATHY	
by Graeme Bartram.....	63
ORIGINS OF THE EDISON MEDAL ON ITS 100TH ANNIVERSARY	
by David and Julia Bart.....	89
PROFESSOR DAVID EDWARD HUGHES	
by Ivor Hughes.....	111
HOW DUNWOODY'S CHUNK OF 'COAL' SAVED BOTH DE FOREST AND MARCONI	
by Bartholomew Lee.....	135
FROM COHERERS TO CRYSTAL RECTIFIERS	
by Eric P. Wenaas.....	147
THE DEVELOPMENT OF RADIO IN A SMALL SOUTHERN CITY	
by Allan G. Pellnat.....	233
THE GROSS RADIO COMPANY - A HISTORICAL BACKGROUND	
by Bruce J. Howes.....	257
MEISSNER REGENERATED	
by Michael J. Murphy.....	275

VOLUME 23 - 2010

"IF IT BE PERMISSIBLE TO PROPHECY WILDLY..."	
by Graeme Bartram.....	1
COMMUNICATIONS RELATED U.S. ARMY RECRUITING POSTERS	
by David and Julia Bart.....	23
THE 1000Z STRATOSPHERE: ZENITH RADIO ENTERS THE BLACK DIAL ERA IN GRAND FORM, 1933-1937	
by Martin W. Blankinshi.....	49
THE EARLIEST HEATHKITS AND A DATABASE FOR 1947 - 1956	
by Erich Brueschke.....	81
SWAN ISLAND, ITS RADIO HISTORY, INCLUDING THE CIA AND THE REVENGE OF UNITED FRUIT	
by Bartholomew Lee.....	115
SCR-54/A (BC-14/A) RADIO RECEIVER SETS FOR ARTILLERY SPOTTING	
by Eric P. Wenaas.....	141
EARLY SUBMARINE CABLE INSTRUMENTS AND APPARATUS	
by Bill Burns.....	177
BRITISH WORLD WAR TWO ARMY ANTI-AIRCRAFT RADAR	
by Crawford MacKeand.....	195
MIRROR SCREW TELEVISION: 25 YEARS OF EXPERIENCE	

by Peter F. Yanczer.....	215
WIRELESS AND THE SINKING OF THE REPUBLIC, 1909 by Jack Binns and Virginia Utermohlen Lovelace.....	239

VOLUME 24 - 2011

The History of Japanese Radio (1925 - 1945) by Tadanobu Okabe ..	1
Henry Clifford - Telegraph Engineer and Artist by Bill Burns ..	19
Toyota Radio: 1946-49 by Tadanobu Okabe.....	41
Culture, Technology, Britannia: The BBC Handbooks by David Wunsch.....	55
John Graeme Balsillie: Australia's Forgotten Wireless Pioneer by Graeme Bartram.....	75
How the 1923 Radiola Season Really Came About by Eric Wenaas ..	99
Development of Television in Germany until 1939 by Franz Pichler	125
Eddystone Radio and their mid-1930's All World Two by Gerry O'Hara, Graeme Wormald and Ian McQueen	145
The Radio Products of the Globe Electric Company by Glenn Trischan.....	215
WIRELESS AND THE SINKING OF THE REPUBLIC, 1909 by Jack Binns and Virginia Utermohlen Lovelace	167
The Airship <i>America</i> by John Dilks.....	189
The Origins of the Institute of Electrical and Electronic Engineers' Medal of Honor by David and Julia Bart.....	207
Wireless Comes of Age on the West Coast by Bart Lee.....	241

VOLUME 25 - 2012

Forward.....	iv
DEVELOPMENT OF TELEVISION IN GERMANY UNTIL 1939 by Franz Pichler.....	1
WIRELESS EQUIPMENT OF THE <i>TITANIC</i> : A COMMEMORATIVE OVERVIEW by Eric P. Wenaas and Parks Stephenson.....	21
WAVEMETERS FOR FREQUENCY MEASUREMENT by the British Army in World War Two by Anthony Davies.....	79
FATHER ARCHIBALD SHAW, Australia's "Wireless Priest" by Graeme Bartram.....	101

EARLY MARTIAN RADIOS: THE BIG 4, LITTLE GEM, SPECIAL AND BEAUTY by Erich Brueschke	125
WIRELESS - ITS EVOLUTION FROM MYSTERIOUS WONDER TO WEAPON OF WAR, 1902 TO 1905 by Bartholomew Lee	147
ELMER T. CUNNINGHAM AND THE TUBE TANGLE by Eric P. Wenaas ...	185
TITANIC - LESSONS FOR EMERGENCY COMMUNICATIONS by Bartolomew Lee	215
THE RISE AND DECLINE OF THE CATHODE RAY TUBE REBUILDING INDUSTRY by James O'Neal	259
LETTER TO THE EDITOR	293

VOLUME 26 - 2013

FORWARD	iv
LETTER TO THE EDITOR by Bart Lee	1
HAZELTINE, THE NEUTRODYNE AND THE HAZELTINE CORPORATION by Mike Molnar	3
MAGNETO-ELECTRIC DIAL TELEGRAPHS by Franz Pichler	21
PART II: ELMAN B. MEYERS AND THE VACUUM TUBE TANGLE by Eric P.Wenaas	37
THE FIRST HEATHKIT, THE O-1 OSCILLOSCOPE by Erich E. Brueschke	95
THE TITANIC'S IMPACT ON WIRELESS RADIO by David & Julia Bart	113
THE SAN FRANCISCO RADIO CLUB, SINCE 1909 by Bart Lee	133
RCA TV DEVELOPMENT: 1929-1949 by Richard Brewster	155
Robert E. LACAULT AND THE INVENTION OF THE ULTRADYNE by David Willenborg	179
LEE DE FOREST AND THE INVENTION OF SOUND MOVIES, 1918-1926 by Mike Adams	201

VOLUME 27 - 2014

FORWARD.....	iv
W.W. GRANT by Jacqueline (Jaci) Grant	1
PATENT BATTLE by Mike Molnar.....	31

PART III: OTIS B. MOORHEAD AND THE VACUUM TUBE TANGLE

by Eric P. Wenaas.....51

STRANGE TO MY AMERICAN EYES by Robert Lozier.....129

HUGO GERNSBACK: PREDICTING RADIO BROADCASTING, 1919-1924

by Mike Adams.....165

GENERAL ELECTRIC'S EARLY TRANSISTOR RADIOS by Steve Auyer.....193

DOCUMENTING DISCOVERY by David & Julia Bart.....221

EARLY HISTORY OF ELECTRICAL DETECTION AND WARNING OF NATURAL
DISASTERS by Robert Colburn.....249

CLARENCE D. TUSKA (1896-1985) by Bart Lee.....255

THE 5-T HALLICRAFTERS SKY BUDDY AND ALL OTHER SKY BUDDY MODELS

By Erich E. Brueschke.....273

VOLUME 28 - 2015

FORWARD.....iv

EVOLUTION OF THE AM DIAL by P.A. Kinzie.....1

RADIO ARCHEOLOGY, MT. TAM WIRELESS AND A CALL TO ACTION

by Bart Lee.....25

EDWARD WESTON: THE MAN AND THE METERS by Mike Molnar.....57

THE FIRST BROADCAST FM AUTO RADIO - MOTOROLA FM-900

by Ray Schulenberg and Olin Shuler.....73

ARVIN METAL CABINET RADIOS by Dan Howard.....89

RESTORATION OF A TRANSMITTER FOR WHEATSTONE MAGNETOELECTRIC
DIAL TELEGRAPHY (A LETTER TO THE EDITOR) by Franz Pichler.....117

LETTER TO THE EDITOR by John B. Doolittle.....121

RADIO IN 1922: WHAT THE BOYS AND GIRLS KNEW by Mike Adams.....123

OLIVER LODGE'S FANCIFUL HISTORY OF THE COHERER PRINCIPLE

by Eric P. Wenaas.....163

90 YEARS OF PRE-ELECTRONIC VLF-TRANSMISSION by Bengt Svensson 221

THE HEATHKIT DF-1 TRANSISTOR RADIO DIRECTION FINDER AND THE
DF-2 AND DF-3 MODELS by Erich E. Brueschke.....233

WHA MADISON - IS IT REALLY THE NATION'S OLDEST STATION?

by Dan Clark.....243