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REGULAR COLUMNS

ANTENNA TOPICS (Dan Farber/Kent Britain)

JAN	Antennas out of Wood, Ink and Plastic (Kent Britain)
FEB	Keep it on the Down Low – Get on 160 and 80 meters (Dan Farber).
MAR	What's My Line? Understanding Transmission Lines: Balanced vs. Unbalanced Feeds; The Miracle of Coax. (Dan Farber)
APR	Diversity Antennas: Antenna Switches; RFID and Hi tech Pick-Pockets; Future Topics (Kent Britain)
MAY	Improvise, Adapt, Overcome Get Creative with HF Antenna Solutions (Dan Farber)
JUN	Chameleon Revisited: A Little More Height, Better Results (Dan Farber)
JUL	Marvel Communications' Antenna Factory (Kent Britain)
AUG	Antenna, Feedline and Ground Linking Our Radios to the Cosmos (Dan Farber)
SEP	Receive-Only Antennas – A Shortwave Listener's Perspective (Dan Farber)
NOV	TV accessories you can use with your Scanner or SWL Receiver: Coax Cable, Splitters, Inline Amps, A-B switches, FM traps (Ken Britain); Size Matters: Antennas for 10 and 6 Meters (Dan Farber)
DEC	Antennas of the Past: WWII-Era Skyhooks: The Granddaddy of Coax; Quarter-Wave Matching Old School; Doctor "J" Back in the Day; Directive Antennas: Ghost Town, Not Boom Town

ASK BOB (Bob Grove)

JAN	Lightning rods; Antenna Adapters; Reusing obsolete transceivers; R75 power supply; Narrow-handling and scanning; Old marine mics; Finding wireless mic interference; Cell phone bi-directional amplifiers.
FEB	Public service dispatching via the Internet; Coax vs. ladder line; Do CFLs really save money; How AM stations survive; Static on 700 MHz; Why AES replaced DES; What happened to car antenna trimmers; Do all cell phone systems use 800 MHz?
MAR	HD-FM signal drop-outs; PTT switch on CB sets; car antenna trimmers; International

broadcasters still on 40 meter ham band; Powering desk scanner in power failure; Origins of rack dimensions; Flight levels; 800 MHz interference; Shape factors in narrow-banding VHF-UHF frequencies.

APR More on railroad radio; Local-acid battery formula; PAR End fed vs. dipole; Transceiver for 902/1240 MHz; 4 Ohm speaker vs 6-8 Ohm speaker; FRG-100 antenna connection: high or low?

MAY DC power lines re-examined; Eavesdropper dipole installation; Digital modulation on MURS frequencies; HF vertical vs horizontal; "Invisible fence" as longwave antenna; Alkaline battery ratings; Listening for bats and insects on 10 Hz.

JUN UHF/VHF mobile ham antenna and scanner reception; Improving discone scanner antenna reception; Low modulation on marine channel 72; Where are all the stand-alone DRM receivers?; Will Software Defined Radios work well in an indoor electrical environment?; Can electric fences be fatal?

JUL Antenna for a tube-type shortwave radio; Ability of an H-900 active antenna to reduce HF interference; Best receiver for listening to Non-Directional Beacons; Best frequencies to hear U.S. hams; wall socket voltage readings; Attenuated sensitivity on AM band in receivers; Narrow-banding and Interoperability requirements regarding scanner listening.

AUG Stand-off insulators for 450 ohm ladder line; SDR using Windows Vista; Using CFLs in a floor lamp; Matching a horizontal loop antenna; Auto-tuning a PAR End-Fed antenna; Ceramic vs monolithic capacitors; Improving digital reception on a scanner.

SEP Correction and oversight; Horizontal loop details; Earth SW broadcasts on ISS; Using two SW receivers on the same antenna; Grounding a wire antenna; Drugstore tube-testers; Who keeps track of space debris?

OCT Crowded FM reception; Satellite broadband and SDR reception; 700 MHz intermittent reception; Substitute coupler for H-800 active antenna; Where did all the drive-thru chatter go? Mars rover frequencies; C-band dishes; digital TV reception.

NOV Shortwave radios from the 30s and 40s compared to today's sets; Mystery of the salvaged tower; Random wire antennas on the ground; Why CFLs will light even when turned off; Unsubscribed cell phones still

useful for 911; Broadcast tower voltage, RF or AC; Attic mounted antenna vs. solar panels; WiFi reception from 15 miles

DEC Running portable radio on low voltage; Difference between zip cord and speaker wire; Elliptic high-pass filter vs nearby AM transmitter; How remote antenna preamps work; Cause of corrosion on car battery terminal; Halogen lamp RF interference; In-line preamps and receiver desensitization; Using a Uniden Home-Patrol in a car; Connecting a wire antenna to a portable radio antenna jack.

BELOW 500 kHz (Kevin Carey)

JAN New Year, New Horizons; Small Antenna, Big Results; Chasing Lofers, Tuning into Natural radio; Mailbag; Selected NDB Loggings.

FEB RDF-304 Wrap-Up; Mailbag.

MAR Bits & Pieces; A Modest LF Shack; Farewell to Beaconfinder II; basement Band Loggings; Mailbag; Hifer Beacons; A New Project; NASWA Winter SWL Fest

APR Q&As about NDBs; Mystery Signals Miskeyings; Loggings; Bendix Navigator 420.

MAY Bendix Navigator 420: Gaining Access; 472-479 kHz Ham Band; Mailbag; E1XM Update; Loggings

JUN Navigator 420 Wrap-Up; Loggings and Mailbag; Missed Approach; Kindling Some Interest; Web Outtakes

JUL Additions, Corrections, Comments and More; Loggings; Titanic Movie; Unidentified Beacon; Kindling Some Interest; Defining DX

AUG Allure of Longwave

SEP Summertime, Summertime; Summertime Mailbag; Loggings

OCT ID, Please?: World Aero Data, AirNav; North America Radio Beacons; PilotNav; RNA Database; Going First Class; Loggings

NOV Getting on the Band, Cheap!

DEC Gone but Not Forgotten: Longwave at Sea, Longwave and Aviation; The "Last Radio Station;" Mailbag

BOATS (Ron Walsh, PLANES (Iden Rogers), and TRAINS (Ernest Robt)

JAN BOATS: Cold Winds, Warm Heart; Southern Exodus and Sound Bound II; Historical Marine Radio; Receptions and Targets; Amateur Radio Activity; Mail from Readers.

FEB PLANES: Getting Your Directions Straight: True and Magnetic North, Heading/Bearing, Airport Distance and Direction, VOR Radials, Clock Position and

Distance, Runway Numbering, Routes, Wind.

MAR TRAINS: Infrastructure Inspection and Office Car Specials; track Inspection, Sperry Trucks, "OCS headed your way;" Background Sources; EOT and DPU Frequencies.

APR BOATS: You Never Know About Radio . . . ; Request for Information; Caribbean Marine Radio; Marine Guide; GLMMNet; Pacific Maritime Mobile Service Net; Mailbag.

MAY PLANES: Aviation-related Frequencies: NDBs; HF Aero Frequencies; The 108-117.975 MHz Band; The 118-136.975 MHz Band; Closing Thoughts

JUN TRAINS: DPUs Keep the Trains Moving

JUL BOATS: New and Old and New Again; Savannah, Georgia; Alaska; New York State

AUG PLANES: Aircraft and Altitude

SEP TRAINS: Stepping Back; More on Multiple Units; Doubling and Tripling a Hill; PTC Update; Override; PTC Mapping

OCT BOATS: Fall Listening; Unusual Radio Monitoring; HF Radio; Maritime Radio Historical Society; Local Activity

NOV PLANES: NTSB: The Nation's Air Safety Investigators

DEC TRAINS: Operators, Interchange and Priority Channels

BROADCAST BANDSCAN (Doug Smith) (even months)

FEB The AM Dial – Stations Coming and Going: Montreal 690/940; And Across the Pond . . . ; More New Stations; Non-Commercial Stations = No Commercials; FCC Still not Buying; Mailbag; Bandscan Station Report.

APR We Pause for Station Identification: What, When, How, Which; FCC Changes Stance on Moving; Time Splitting, April Bandscan Station Report.

JUN When is a Test Not A Test?; LPFM vs Translators; Tolerance; New Toronto FM.

AUG Over-the-air TV in Canada: Going, going, gone?; And in the U.S. . . . ; A new kinda-DX publication: *2012 Baseball Listeners Guide*; QSL Woes; Another News/Talk Station on FM; Get'em while they're Hot!; Frequency Trumps Power?; Band Scan Station Report

OCT Digital Radio in Mexico; And in the U.S.; How about digital TV?; New TV Stations; 540 & 1550 kHz; English ou Francaise? Station Report

DEC AM Salvation; Montreal 690; New AM Log

COMMUNICATIONS (Ken Reitz)

JAN	Amateur Radio/Shortwave: BPL: It is Alive; ARRL: 700,000 U.S. Hams; Cost of QSLing Rises (Again) AM/FM/TV Broadcasting: FCC Threatens TV Broadcasters Old Spy vs. New Spy: Russian Spies Used Shortwave Radio; Chinese Military Hacking U.S. Satellites FCC Enforcement: Pirate Cat's Monkey \$10k Fine Affirmed; More Pirates Walking the FCC Plank		Public Service: NYC Tries to Sell Back \$549 Million System Satellite: Solar Flare Predictor Aging; Politically-Tinged LightSquared Shambles; bChina on WX Sat Spree FCC Enforcement: The Usual Suspects; Sloppy AM Op Fined \$25,000		FCC Enforcement: Major FM Pirate Hit with NOUO; Dog Shot in Pirate Raid; FM Pirate is Also a Ham; Talkative Miami Pirate Silenced
FEB	Amateur Radio/Shortwave: 60 meters Gets a Facelift; BBC's "Arab Spring" Bump. AM/FM/TV Broadcasting: Radio Seagull Test 1393 kHz; 100s of DJs Lose Jobs Public Service: Encryption Trouble in Winnipeg; AP Report: Scanning Now All or Nothing Satellite: BBG: Stop Iran Sat-Jamming; Keychain Satellites Swarm Lower Space; Russian General: HAARP Killed Phobos! FCC Action/Inaction FCC Revolving Door Cranks Up; Broadcaster Public Files Policy to Change; Gripe, Gripe, Gripe.	JUN	Shortwave/Amateur Radio: Fred Maia W5YI SK; AMSAT Fox-1 Next to Fly; Blonder-Tongue Buys R.L. Drake Co. Public Service: WA Radio System under Fire (Again) Cable/Satellite-TV: Sirius/XM Savior new Stalker; FCC Report: Cable-TV Prices Up; Cable, OTA-TV Viewing Puzzle AM/FM/TV Broadcasting: FCC Set to OK LPRM Permits; TV on iPad: "Data & Money Guzzler" FCC Enforcement: Jersey Crackdown; Break 1-9 for Tacos in Texas; Tennessee FM Pirate: \$22k Fine	OCT	Obituaries: QST's Joel Kleinman N1BKE SK Amateur Radio/Shortwave: FCC - No 2 Meter Emergency Channel AM/FM/TV Broadcasting: Cord-Cutting Surprises Analysts Satellites: Russian Launch Woes Continue Public Service: Oakland Radios Fail (Again); Allentown (PA) PD Encrypts Technology: Police Cell Phone Spying Rises; FCC to Study RFR FCC Enforcement: Free Radio Olympia Busted
MAR	Amateur Radio/Shortwave: HAM Nation Archives on iTunes; Ham Radio: Fountain of Youth; FCC: KJES off by 21 Hz; Radio's Dark Side: Cartel Network. AM/FM/TV Broadcasting: FCC OKs Media Ownership Changes; Prometheus "Get Radiol!" Effort Public Service: Experts Explain P25 issues. Satellite: AirTrans Ditches XM African Satellite Mystery; Russian Satellite Irony; LightSquared Dares FCC. FCC Enforcement: FM Pirates and Taxi Drivers Cited; CBer Cited for CB Interference; FCC Goes Clubbing in S.F.	JUL	Shortwave: BBG Reverses on China, Tibet; Edward R. Murrow Station Rededicated AM/FM/TV Broadcasting: TV Band Repacking Nightmare; Pandora: No.1 Station in L.A.?.; OTR Mystery Solved Public Service: Chicago PD Gives FCC a Grilling; Santa Cruz PD Offers App Satellite: U.S. Satellites: Two Different Worlds FCC Enforcement: Ham Gripes Finally Heard; Numskulls on Parade; New York Crackdown; Fine Reduced in EPIRB False Alarm; Non-Com hit with \$22,000 Fine; No Staff at Studio: \$10,000	NOV	Domestic BBG Ban Reconsidered; FCC Readies OTA Auction Date; West Palm Beach OpenSky® Fiasco; Good Karma; Bad Karma
APR	Amateur Radio/Shortwave: FCC-2, K1MAN-1 in Confused Case; BPL Withers on the Vine Public Service: DoJ Report \$350 million flop Satellite: SBCA Fights Philly Dish Ban; Web hackers Want Their Own Satellite AM/FM/TV Broadcasting: Survey: HD-Who?; First White-Fi Goes Live. FCC Enforcement: Hospital Security gets it Wrong; Lounge Jamming Keyless Locks; FCC Sweeps FL Swamp.	AUG	Amateur Radio/Shortwave: RCI Shambles / Vatican Radio Cuts; BBG FM Outlets Cut During Elections AM/FM/TV Broadcasting: New WTC Broadcast Tower Readied; AT&T Presses FCC on New Spectrum; ATSC to Offer Non-Real Time TV Satellite: Spy-Sat Crumbs fall to NASA Technology: Cell Tower Deaths Probed; Windular: Cell Tower Power FCC Enforcement: Pirate FM: \$10k, Snubbing FCC: \$5k; AM Op Blames Computer	DEC	GRE-Japan Future Uncertain; Postal Rates Going Up (Who Knew?); Newbie Space Company Loses Satellite; Zombie WX-SAT Lives; Flat Antenna Revisited; FCC Crackdown on Craigslist
MAY	Amateur Radio/Shortwave: New Law Seeks Amateur Radio Study; BBG Sells Shortwave Short (Again); Andy Sennitt Closes Media Network Blog AM/FM/TV Broadcasting: TV Spectrum Auction Uncertainty Technology: Antenna Design Resembles . . . Pasta	SEP	Amateur Radio/Shortwave: Illinois OKs State PRB-1; DRM Glacier Inches Forward Public Service: Pasadena PD Allow Press Scanner Access AM/FM/TV Broadcasting: An All-HD AM Future?; AM Radio? Nothing Comes to Mind; FCC Under Fire on Repacking Satellites: Billionaires Compete in Launch Biz		
					COMPUTERS & RADIO (Brian Wood)
				JAN	Ho Do Computer Chips Make Radios Work?
				APR	Computers and Transmitters - SO2R: "Single Operator, Two Radios; Transmit Signal Monitors; Two-tone test oscillators; Microphone Equalizers; CTCSSDTMF Generators.
				JUL	SO2R and SO2V
				OCT	DIT Computers: Standardization; Sources for Parts; Sound Cards; Cases; Firing it Up
					DIGITAL DIGEST (Mike Chace)
				JAN	Saudi RTTY; Irish Navy Codan; Better Conditions Finally!
				FEB	Spotlight on Morocco: Moroccan Army Network; Moroccan DGSN; Moroccan Diplomatic Service; Update on Mystery PacTOR Networks.
				MAR	Bobobos, the Congo and another Mystery ALE Net: Max Planck Institute's HF Network; The Congolese National Police; The KM3 Mystery ALE Network.
				APR	KM3 ALE Net and Angolan Military MISSANG; The KM3 Mystery Net Revealed; Angolan Mission to Guinea-Bissau; More Congolese Channels; Changes at CFH Again.
				MAY	Spotlight on Algeria (Part 1): Air Force; Army
				JUN	Spotlight on Algeria (Part 2): Navy; Railwats; DTN (Direction des Transmissions Nationales); Oil & Gas; Police (DGSN);

Customs; State Intelligence Service (DRS)
 JUL The CCIR 493-4 Selcal (and Networks You Can Hear Using It); HFOZ; RadTel; VKS737 Network; Colombian Military Network; Unidentified Arab Network
 AUG Rivet and a New Decoder: The Rivet Decoder; Rivet and CCIR493-4; Algerian Army Update; Taiwanese Navy Update
 SEP Digital Spotlight on Brazil: Navy; High Seas Fleet; Riverine Fleet; Navigation and Weather; Air Force; Army
 OCT Fall Digital Smorgasbord: The 3 Letter; A New Pacific Network?; Lone Wolves; The x0x/x1x Network; US MARS Transitions to High Speed HF Modem Standards
 NOV Digital Decoder Updates: Hoka Decoders, Wavecom Decoders, Rivet, Multipsk; Chinese 4+4 Modem; Russian Intelligence & Diplomatic Services
 DEC Ocean Sensing Radar Update; Bonobos Back On The Air!

EDITOR'S SOAPBOX (MT Editorial Staff)

Apr Why Does the FCC Continue to Outlaw The Manufacture of Scanners with Cellular Telephone Frequencies? (Bob Grove)

THE FED FILES (Chris Parris) (odd months)

JAN A Fed Files Road Trip – New York City; DoJ "25 Cities" Project Marches On; TSA Changes Continue; IBWC Agency Close-Up.
 MAR Searching the Good Search; NOAA Office of Marine Fisheries; Fed Files Wonderland – DC.
 MAY Scanning Super Bowl XLVI; The End of the IWN?
 JUL The IWN in Operation; Scanning the Diplomatic Security Service
 SEP A Fed Files Radio Safari – Southern Nevada; Scanning the Diplomatic Security Service, Part II
 NOV 2012 Political Conventions; WHCA 166.5125 MHz Mysteries; Department of Education OIG; Tucson Scanning

FIRST LOOK/ MT REVIEW

JAN Home Patrol "Extreme" Firmware Update (Bob Grove); PAR EndFedZ EF-SWL Antenna (Larry Van Horn)
 FEB Alinco DJ-G7T Hand-held Tri-band Transceiver. (Bob Grove); CC Gozo AM/FM Radio (Larry Van Horn)
 MAR WINRadio G39DDCe Wide-Frequency Coverage Receiver (Bob Grove)

APR Alinco DJ-V57 Hand-held Dual Band Transceiver (Bob Grove); The Take Charge Power Savers (Bob Grove)
 MAY GRE PSR-120 Hand-Held Scanner (Bob Grove)
 JUN The Kindle Fire Tablet (Lloyd Van Horn)
 JUL Signal Hound Spectrum Analyzer / Measuring Receiver (Bob Grove); Uniden Bearcat 880 CB Radio (Larry Van Horn)
 AUG Bonito 1102S RadioJet Shortwave Receiver (Bob Grove); C. Crane Twin Coil Ferrite™ AM Antenna (Bob Grove)
 SEP Digital Dave's Delightful Degen DSP Disclosure - A Review of the Degen DE321 (Dave C. Schmarder)
 OCT Tablerock "Shortwave Daddy" Receiver Kit (Bob Grove); Uniden BC125AT Scanner (Larry Van Horn)
 NOV DXtreme Reception Log (Lloyd Van Horn)
 DEC Quantum QX v3.0 AM Loop Antenna (Lloyd Van Horn)

GETTING STARTED (Ken Reitz)

JAN Best FTA Satellite Receiver Ever!: Manhattan RS-1933 Advantage
 FEB More FTA Satellite and Readers' Questions: Murphy Lends a Hand, LNBF Idiosyncrasies, DMX741 Performance; More Comment on Wi-Fi Radio; Chasing HD-Radio.
 MAR Free-to-Air Satellite Revisited and AM DX: Return to TVRO; Doug's AM Challenge; More AM HD DX Intrigue.
 APR A Reader's HD-Radio Experience and More; Monitoring the International Space Station; Pirate Radio Yesterday and Today.
 MAY Living the Very Limits of Your License Class: Technician Class Rigs; Technician Class Antennas; SWL to Tech Op in Weeks
 JUN Resurrecting a 2 Meter HT and Logging TVDX
 JUL C-Band FTA: How small can you go?
 AUG The Curious World of HF Pirate Radio
 SEP Beginner's Update: Antenna Lead-in
 OCT The More Things Change the Better They Get . . . Mostly: The Inescapable Digital World, New and Improved TV Sets, The Price of Progress
 NOV The \$467.56 Radio Buying Challenge
 DEC Why We Need More Beginners and How You Can Help

GLOBAL NET (Lloyd Van Horn)

JAN Do you really need a tablet?

FEB Radio Doomsday? The end of the world online – Mayan style; Praising the Antenna; GlobalNet Mailbag.
 MAR Cutting the Cable – Streaming Video: How has the Streams? Netflix, Hulu, One, Other Services, Devices to consider, Mobile Devices.
 APR Remote Roundup!; Spring Cleaning in the Mailbag; A Google Streaming Device.
 MAY New Ways to Talk Amateur Radio; WWW Dot Breaker 1-9; Royalty Debate Rages On; GlobalNet Mailbag.
 JUN Island Trippin'!
 JUL Feeling Fried? Maybe it's not just the heat . . .; Epix Coming to Apple?
 AUG It's Convention Time!; Amazon Comes to Xbox 360; Verizon FIOS ups the ante on internet speeds; Everybody's a Streaming Expert; Jango?
 SEP The Future of Internet Radio – Could it one day come at a cost?; Clear Channel Agrees to Performance Royalty?; How? Let's take a look; Shortwave Ver. 2.0; Sometimes Less is More
 OCT "Arrrrr, There be Radio in Them 0s and 1s!"; Embracing Your Inner Pirate; For those who would rather listen; The Dedicated WiFi Radio; Smartphone Apps; Oh Yeah, There is Also Your Computer; GlobalNet Links
 NOV All Hail the Internet, Savior of DX (Wait, What?!)
 DEC Need a Boost? How to Get the Most out of Your WiFi Signal; GlobalNet Mailbag

LETTERS (To the Editors)

JAN Thanks for Your Feedback; Satellites and New Tech; Views From an Old-Timer; Shack Cat; Weather Radio Tip.
 FEB Happy MT Readers / Listeners; Weird Antenna; Railroads; Vintage with a Vengeance; Good-Bye to Bert.
 MAR Can't Get Enough Oldies; AM Radio Companion; Whats That Station?; Who is Killing AM Radio?; Baby Boomer Radio; Air Show Addenda.
 APR Encryption and Public Safety
 MAY Old Service, New Thrills; Free to Air
 JUN Fred Maia W5YI; ISS Packet; MT Express on Kindle Fire; The Changing Scene in AM
 JUL Scanner Squeeze; There oughta be a law; A better way to read EDACS; CW in the Movies: In Recognition: Rachel Baughn, MT Managing Editor 30 year anniversary celebration
 AUG RTTY Memories of VOA; Railroads and Districts; RCA

Model 86T-1; Aero Listening from Wyoming
 SEP MT's Got It All; GE's Pioneer BC Station; Radio Museums; Check This Out!
 OCT Note from the Publisher: New Managing Editor; Print Reader Switches to MTEExpress; U.K. Analog-to-Digital Blues; Still Listening after all these Years; Kent Britain's 4 Element 2 Meter Yagi Design (MT January 2012); Pioneer broadcast Building in Trouble; Correction
 NOV The Kids are Right; MT on iPad; The Noise of "Digital Progress;" MT Slightly Smaller
 DEC Operating SDR on Linux OS; Antenna Mystery Solved; RF Interference Issues Updated

MILCOM (Larry Van Horn)

JAN Monitoring NORAD and Combat Air Patrols; ARTCC Update: Jacksonville and Miami ARTCC.
 FEB DoD Challenges and Changes; Milcom Spectrum Holes; New Names for old DoD Bases; Milcom Frequency Updates / Changes; New U.S. Air Force Callsigns; Navy MARS Changes Frequencies.
 MAR Monitoring the Air Show Experience Equipment and Tips; Air Show Resource Guide.
 APR Changes in the Weather; USAF Red Flag Frequencies; The Last Deployment Workup – USS Enterprise COMPUTEX/JTFEX; ARTCC Update: Memphis and Houston ARTCC.
 MAY New Data on DoD Trunk Systems: AF Space Command Nationwide System; Eglin AFB Trunk Radio System; Fort Benning/Camp Merrill Range Training Trunk Radio Network; ARTCC Update: Fort Worth
 JUN Requiem for HF at Malabar; Potomac TRACON Frequencies; ARTCC Update: Kansas City ARTCC
 JUL Who ya gonna call? A Navy RDC!: Navy ELMR; Navy Southeast Region TRS
 AUG Naval Region Southwest Radio System: ARTCC Update: Chicago ARTCC
 SEP Is the Cold War Really Over?; UHF Milsatcom Pirates Still Active; UHF Milcom Spectrum Holes; 380-400 MHz Aero Frequencies?; CAP Aircraft Radios to Encrypt; MilAir Nationwide Frequency Updates; A Good Friend Has Left US – Don G. Edwards, N2NUM (SK)
 OCT Milcom HF Aero 'OR' Band Scan Survey; Milair Nationwide Frequency Updates; 11 MHz 'OR' Aeronautical Sub-Band Band Scan
 NOV Two New Air Force Thunderbird Frequencies Discovered; Scott

AFB Profile; 8-9 MHz OR Aeronautical Sub-Band Scan, ARTCC Update: Indianapolis ARTCC
 DEC Aerial Refueling Frequencies in North America

ON THE BENCH

JAN Satlink Satellite Finder: FTA'ers Friend (Mario Filippi)
 FEB Over the Air TV DXing in the Digital Era (Mario Filippi)
 MAR The Tinkerer's Best Friend – The Portable Power Station (Mario Filippi)
 APR The Stealthy World of Indoor SWL Antennas. (David Payne)
 MAY Three Generations Tackle a Smoked Heathkit (HW-100) (David Payne)
 JUN Rechargeable Battery Pack on a Shoestring Budget (Mario Filippi)
 JUL A Camping DXpedition – Part 1 (David Payne Sr.)
 AUG A Camping DXpedition – Part 2 (David Payne Sr.)
 SEP Setting Up a Ku-Band FTA Radio System (Mario Filippi)
 OCT Newstar DR111 Digital Shortwave Receiver

ON THE HAM BANDS (Kirk A. Kleinschmidt)

JAN Of Mics and Men: Transmit Audio, Part 1: Microphones 101: Reader Comments about Open-Wire Feed Line.
 FEB The Great Paper Chase: Old Timers Call It Wallpaper, A Variety of Sponsors, Where to Begin.
 MAR One Monitor to Rule Then All: 28-inch Hanns.GHZ281 LCD computer monitor.
 APR Amateur Radio Podcasting Broadcasting Come Full Circle
 MAY 60-Meter Madness!
 JUN Special-Event Certificates: More Wallpaper for your Shack
 JUL Ham Radio: Killer Fun for Everyone
 AUG Of Mics and Men: Transmit Audio, Part 2 (Part 1 in Jan 2012)
 SEP Antenna Secrets I Wish I'd Known
 OCT Linear Amplifiers: Myth vs. Reality
 NOV Kit Building: Bigger (and Smaller) than Ever: The Golden Age of Kit Building, Present Day Kit Building, New Tool of the Trade: a Microscope?
 DEC Solar Cycle Defiance: Meteor Scatter!

PROGRAMMING SPOTLIGHT (Fred Waterer)

JAN Deutsche Welle – Back to the Future, The Sceptred Isle, Dad's Army; Polish External Service; So you want to be a Foreign Correspondent . . . ; Back to Russia . . .

FEB Cruising around the Dials: Africa, Ireland, The Navy Lark; Recommended Listening; The Immortality of Broadcasting.
 MAR Alternative Talk Radio: Alternative Programming Sources; Talk is Cheap; It's All Greek to Me; YouTube.
 APR Quick Trip around Eastern Europe: Albania, Bulgaria, Czechoslovakia; Hungary, Poland, Romania; Whats New; Whats Not So New; Programming Spotlight Time Machine; A Titanic Event.
 MAY May Flowers and Music: Eurovision Song Contest; Summer Programming; Music to My Ears; Radio Romania International; Radio Japan; WYFR; Voice of Russia; Back to the Archives . . .
 JUN Radio Canada International's Last Hurrah? PCJ Media; Speaking of History . . . ; WEWN Marks 20 years of broadcasting
 JUL Spotlight on Asia; Switzerland in Sound; Canada Day; Yugoslavia; European Monetary Crisis
 AUG Summertime and the Livin' is Easy: Diamond Jubilee; Radio Tirana Today; RCI Requiem; RFI=Radio France Internet?; Germany to Africa; Rest in Peace, Mr. Trololo
 SEP Revisiting the Former Yugoslavia; Radio New Zealand; Alternative Sources of Programming
 OCT Weekend Shortwave Radio: Sunday Listening Highlights; Weekend Listening Highlights; Recommended Listening
 NOV Spanish, a Language without Bounds; China Radio International; Presidential Election; Folk Box from VoR
 DEC Seasonal Favorites from Around the World

QSL REPORT (Gayle Van Horn)

JAN Bringing Blue to the World
 FEB Rhein Main and Special Event QSLing
 MAR ODXA Announces New QSL Manager; New Peruvian Stations: Aroma Café Radio and Radio Universal; Bill Plum's DX Stamp Service.
 APR Staying up to date a major key to QSLing.
 MAY ARRL and CQ Sign Awards Agreement.
 JUN Anniversary and Field Day QSLing
 JUL Firecracker Special 2012
 AUG RFA Offers the Olympic Panda
 SEP QSLing from the Most Wanted List
 OCT QSL Contact Updates
 NOV QSL Bytes
 DEC Countdown of the Season

RADIO RESTORATIONS (Marc Ellis)

JAN Military Telephone Instruments: Headsets, Microphones, Sound Powered Phones, Loudspeakers; From the Readers.

FEB Aligning the Meissner "Broadcast 7"; From the Readers.

MAR Buttoning up the Meissner "Utility" Broadcast Set.

APR Starting Up a Vintage Radio

MAY Signal Tracing and Signal Injection

JUN Troubleshooting Continued: Voltage Checks

JUL We Find an Arvin "Metal Midget"

AUG More on the Midget Arvin and Sets You Don't Want to Plugin!

SEP Finishing up the Arvin Project

OCT The Howard 430 – A Brand New Project: Howard History and Products; About the Howard 430; Getting Inside the 430; Preliminary Inspection and Testing; From the Readers

NOV Getting to the Howard's Dial System; From the Mailbag; A.C.-D.C.s for Farm and City

DEC How Many Volts to Light a Tube?: Storage Battery Tubes, Dry Cell Tubes, The First AC Tubes; Development of the Cathode

SCANNING REPORT (Dan Veeneman)

JAN Terrestrial Trunked Radio (TETRA)

FEB The Benefits of Sharing: DuPage County, Illinois; Los Angeles, California; Meriden, Connecticut.

MAR Scanning the Pacific Northwest: Tacoma-Puyallup, Seattle; Control Channel Only; Unified Regional System.

APR Sun Setting on EDACS: Montgomery, Alabama. EDACS End of Life; Project 25; New Montgomery System; Montgomery EDACS; Iowa; Florida SLERS; Walton County, Florida.

MAY Not All Change is Bad: Frederick, Maryland; Baltimore County, Maryland; State of Maryland; Dayton Hamvention

JUN Responding to Reader Request: Bayville, New Jersey; Santa Fe, New Mexico; Eastern Alabama.

JUL Responding to Reader Request: Harbor Springs, Michigan; Wisconsin (Monitoring WISCOM); Rock County, Wisconsin; Leon County, Florida

AUG Decoding Digital Data; Charlotte-Mecklenburg County, North Carolina; Encryption Weakness

SEP Adapting an AOR8000 to Change; Central Virginia; Lawrence County, Indiana; Allen County, Indiana

OCT Coping with Old and New Systems Where You Live: Pennsylvania; Choosing a Scanner; Lancaster, Pennsylvania; T-Band

NOV The Encryption of Lehigh County: Allentown Pennsylvania; EDACS Digital Voice; ProVoice Encryption; Framing; Technical Weakness; Outsourcing; Cracking; Allentown EDACS: Agency-Fleet-Subfleet; Allentown Police

DEC Scanner Terminology: Narrowbanding, Frequency Synthesis, Microprocessors, Trunking, Digital Voice, Error Correction, Logic Channel Numbers; Johnson County, Texas

SHORTWAVE GUIDE (Gayle Van Horn)

JAN English (24 hours); Chinese 0000-1400 UTC

FEB English (24 hours); Chinese 1400-2300 UTC; Spanish 0000-0600 UTC

MAR English (24 hours); Spanish 0600-1600 UTC

APR English (24 hours); Spanish 1600-2300 UTC

MAY English (24 hours); Portuguese 0000-1200 UTC

JUN English (24 hours); Portuguese 1200-2300 UTC

JUL English (24 hours); Arabic 0000-1800 UTC

AUG English (24 hours); Arabic 1800-2300; Chinese 0000-1100 UTC

SEP English (24 hours); Chinese 1200-2300 UTC; Spanish 0000-0300 (Partial)

OCT English (24 hours); Spanish 0400-1600 (Partial)

NOV English (24 hours)

DEC English (24 hours)

SKY SURFING (Amateur Satellites - Keith Baker / Radio Astronomy - Stan Nelson)

FEB HAMSATS: Spotlight on VUSAT OSCAR 52 (VO-52); ARISSAT-1 Update; AMSAT's Next project; Fox Details; Looking Ahead.

MAR RADIO ASTRONOMY: Adventures in Amateur Detection: Are There Pulsars in Your Future; Cosmic Ray Telescopes; Meteor Shower / Solar apps for the iPhone / Android; Name That Array; Some Radio Astronomy Reading; GPS Service Degradation on demand; Radio Jove Update; Radio Astronomy in the Movies.

MAY HAMSATS: Spotlight on UoSAT-2 (UO-11); AO-51 Goes Silent; The Demise of ARISSat-1; AMSAT's Next Project: FOX

JUN RADIO ASTRONOMY: Radio Telescope Concepts: The RFSpace SDR-IQ DSP Receiver; ARGO Weak Signal Software; Denver Radio Astronomy Site; Radio Astronomy in the Movies

AUG HAMSATS: A Flock of Other Amateur Radio Satellites Part 1: An Aging Fleet; The Cubesats;

PW-SAT; DO-64 (Delfi-C3); FO-69 and FO-70 (Fastrac 1 and 2); AO-70 (AubleSat-1); Project FOX Update; Looking Ahead

SEP RADIO ASTRONOMY: Spying on Exoplanets; GNU Radio for Radio Astronomy; Solar Monitoring in Alaska; Radio Astronomy Workshop; Radio Astronomy in the Movies

OCT HAMSATS: A Flock of Other Amateur Radio Satellites – Part II: RAX-2, SwissCube; PRISM; Project FOX Update; Looking Ahead; Of Cubesats and Peapods

DEC RADIO ASTRONOMY: Radio Noise from Hale-Bopp Comet?; The Cassiopeia A Radio Source; What to Do with a Surplus Dish; Video of the VLA Using Time Lapse; More Cheap Astronomy Books; NRAO VLA Sky Survey; Radio Astronomy in the Movies; Links Used in Column; Meteor Burst with Argo; FUN Cube Dongle SDR Radio

UTILITY WORLD (Hugh Stegman)

JAN Russia Spy Caught Decoding Numbers; The Last Frontier: VHF Lo.

FEB The Beginners Guide to Funny Noises: Codar, Chirpsounders, Over-the-Horizon Radar, Equipment Malfunctions; The HFGCS Phaser; Eight Niner Eight Niner.

MAR Polytone and Espionage - Some Questions Answered: Spies and XPA; Digital Selective Calling; Taiwanese Fishery.

APR CFH Weather Broadcasts Return – For Now: Canadian Maritime Publications; Changes at 4XZ; WRC-12 in Progress; Sea Surface Radar; 600-Meter Amateur.

MAY WRC-12: New Amateur Band and More; More DSC; Number Tidbits

JUN Numbers: The Strangeness Continues: EV01; The Big Buzz

JUL WRC-12 Defers "Leap Second" Decision

AUG Beating the Short Wave Summer Time Blues: Grey Line Propagation; Hurricane / Tornado Season, New Orleans FAX Change; Boston Ice Chart Change

SEP Dutch Spy Bust Fuels New "Numbers" Intrigue; USCG Discontinues Telex; CODAR Chaos May Diminish

OCT SDRs: Opening a Larger Window – SDR Types, Wide-Spectrum Display, Recording, Digital Modes, Conclusion; More Funny Noises

NOV FANS-1/A: Will the Future Doom HF Aero Mobile?; Another UVB-76 Surprise; Utility Hardware

DEC Is Shortwave Dead?: Peeling the Onion; What is Happening on MARS?; Budget Cuts Silence AFN; UVB-76 Resumes Low Buzz

WHAT'S NEW (Larry Van Horn)

Books, CDs and eBooks

JAN *The ARRL Antenna Book* (Print Book); *The ARRL Handbook 2012* (Print Book)

FEB *How to Listen to the World* by Ken Reitz (Kindle eBook)

MAR Mifty New Scanner Mini-Manuals: Uniden BC-396XT/996XT (Print Books); *2012 World Radio TV Handbook* (Print Book); *Klingenfuss 2012 Shortwave Frequency Guide* (Print Book)

APR *Using Your Meter, 3rd Edition* (Print Book)

MAY *Modern Communications Receiver Design and Technology; Emergency Power for Radio Communications* (Print Book); *Getting on the Air with HF Digital* (Print Book)

JUN Profiles in Amateur Radio (Kindle eBook); Air Show Issue in Kindle Format (Kindle eBook); *Images of America-Bay Area Radio* (Print Book); *Utility DXing – A Primer* (Print Book)

JUL Teak Publishing Releases Kindle Book: *QSLing the World* (Kindle eBook); *2012 Baseball Listener's Guide* (Kindle eBook); *Police Radar Operator Error* (Print / Kindle eBook); *Just the Fax!* (Print Book); ARRL Digital QST Now Available; The ARRL Film Collection (DVD)

AUG *Introduction to Amateur Radio Astronomy* (Print Book); *The ARRL Repeater Directory® - 2012/2013 Edition* (Print/CD Books); *The ABCs of Software Defined Radio* (Print Book); *Hints and Kinks for the Radio Amateur* (Print Book); *Pacific Radio Listener Guides* (PDF books)

SEP ARRL's Low Power Communications; Short Antennas for 160 Meter Radio; ARRL Extra Class License Manual; ARRL's Extra Q&A, 3rd Edition

OCT Domestic Broadcast Survey 2012; Utility DXer's QSL Address Handbook

NOV New NRC AM Radio Log Released

Equipment

JAN Grundig S-4500LX Field Radio

FEB AOR ARL2300 Ethernet Controller; Uniden BC125AT Hand-Held Scanner

MAR Epic Emergency AM/FM Weather Radio; Upgrades for Legendary AR8200D; Comtek W2FMI Series Balun.

APR Alinco DJ-G29T Hand-held; Stealth Antenna System (DX Engineering)

MAY InnovAntennas Appoints First American Dealer; DXE-UT-KIT2-D (Coax Prep Kit); DX Engineering Aluminum Tubing

JUN DX Engineering Clamps

JUL Icom America Hamvention Exhibits: ID-31A; IC-2300H, RS-BA1

AUG New Kit and Book Released by the Xtal Set Society; DX Engineering Tilt Base

SEP DX Engineering DXE-UT-KIT-DBR Deburring Kit; DX Engineering 160 Meter Vertical Antenna; New Features for the Delorme inReach Communicator

OCT Icom Loan Program with Boy Scouts; DX Engineering New Coax; MFJ Intellituners Released; RigExpert AA-1000; 70 cm ATV Transmitter from KH6HTV Video; New Array Solutions Coax Surge Arrestor

NOV Icom Showcases Two New Radios at the Tokyo Ham Fair (ID-51A and IC-7100); DX Engineering's New Telescoping Fiberglass Tubing Kit; New Sangean Radios Released: Sangean WR-12, Sangean PR-D14, Sangean RCR-9, Sangean TB-100 Toughbox, WFR-28 Wi-Fi Internet/Portable Radio; GRE PRS-900 Release?

DEC New MFJ Off-Center FED HF Wireless Antennas; MFJ-9211 QRP Balun; 70 cm ATV Transmitter from PC Electronics; Inflatable Antenna Tower from LTA; DX Engineering Maxi-Core® High-Power Multi-Band UNUN; bhi, Ltd. Mini Switch for GAP DSP Speaker; The N0AXS PicoKeyer-Plus Kit

Software

JAN Streaming App for the iPod / iPhone

FEB DXE QSL Scanning Kit (DX Engineering)

APR DXtreme StationLlog – Multimedia

AUG The ARRL Software Library for Hams

SEP Wavecom Releases New Updates

DEC HamCall Announces HamCall on DVD, HamCall Archives; P25 Phase II TDMA Decoding Available?