#### Index to 2009 QST

75, 50 and 25 Years Ago (Brogdon)

January 1934, 1959, 1984: Jan, 100 February 1934, 1959, 1984: Feb, 102 March 1934, 1959, 1984: Mar, 102 April 1934, 1959, 1984: Apr. 101 May 1934, 1959, 1984: May, 100 June 1934, 1959, 1984: Jun, 101 July 1934, 1959, 1984; Jul. 102 August 1934, 1959, 1984: Aug, 101 September 1934, 1959, 1984: Sep, 99 October 1934, 1959, 1984: Oct, 101 November 1934, 1959, 1984: Nov, 101 December 1934, 1959, 1984: Dec, 97

# **Amateur Radio World (Keane)**

Introducing IARU President-Elect Tim Ellam, VE6SH/G4HUA: Apr. 94

Meet IARU Vice President Ole Garpestad, LA2RR: Jun,

On the International Stage: 4U1ITU and High Speed Telegraphy: Aug, 94

Republic of the Congo Amateur Radio Organization Applies for IARU Membership: Jun, 78

Team USA at the 2009 World High Speed Telegraphy Championships (Low): Dec, 64

# **ARRL Emergency Communications Course Honor** Roll

Mar, 55

## ARRL Section Managers, page 16 each issue

### ARRL VEC Volunteer Examiner Honor Roll

Mar, 45; Jun, 93; Sep, 89; Dec, 92

## At the Foundation (Hobart)

A New Way to Fund an ARRL Foundation Scholarship! Apr, 87

Amateur Radio Clubs Make a Difference: Nov. 95 California Teen is 2009 Goldfarb Scholarship Recipient [Dean LaBarba, KI6CUX]: Jun, 98

Grants Focus on Future of Amateur Radio [Pilot Course for Volunteer Instructors; BSA Crew 272 Space Jamboree Project; Ann Arbor Hands On Museum]: Jan,

Scholarship Recipients: Sep, 94

# **Contest Corral (Silver)**

Jan. 82; Feb. 82; Mar, 78; Apr, 84; May, 80; Jun, 80; Jul, 76; Aug, 76; Sep, 78; Oct, 78; Nov, 86; Dec, 66

# **Convention and Hamfest Calendar (lannone)** [Previously Coming Conventions and Hamfest Calendar]

Jan, 97; Feb, 99; Mar, 98; Apr, 95; May, 97; Jun, 99; Jul, 98; Aug, 98; Sep, 96; Oct, 99; Nov, 100; Dec, 96

# Correspondence

40 Meter Fun (Karl): Nov, 24

A "Worthwhile" Investment (Siegrist): Feb, 24

A Brain for Radio (Davis): Nov. 24 A Compelling Reason (Carr): Oct, 24 A Gift to the Community (Prewitt): Jun, 24

A is for Alpha (Walker): Mar, 24

A Letter About Letters (Hayes): Aug, 24 A Long Way from the Marconi Days (Ginsburg): Mar, 24

A Technicality? (Kitsko): Aug, 24

Amateur Radio is Acessible Radio (Campbell): Dec. 24

An International Perspective (Chadwick): Apr. 24 An Invitation to the Party (Hendricks): Jul. 24

Appreciates Fight Against Flawed Technology (Avellino): Sep. 24

Ask Questions First (Boyd): Apr. 24

Big Pay Off (Reisenauer Jr): Sep, 24

Blast from the Past (Neal): Dec, 24

Breaking the Code (Lamb): Feb. 24

Broad Bands (Sherman): Jul, 24

Can You Hear Me Now? (Smith): Jun, 24

Chasing Worked All States (Melton): Aug. 24

Easy Renewal (Ruetz): Jan, 24

Enjoying Amateur Radio at Any Level (Drell): Oct. 24

Forty Questions (Bofani, Price): May, 24

Going Far (Boyle, Moyer): Sep, 24

Green Day (Buck): Sep, 24

Hams Helping Hams (Henderson, Kaatz): Mar, 24

He Always Gets His Man (Klusman): Jan, 24

Hey, What's That Guy Doing? (Shack-in-a-Box) (Huff): Jul,

High Praise for the High Bands (Neubeck): Dec, 24 Intentional Interference a Problem (Pritchard): Nov. 24

Is There Anyone Out There? (Taylor): Nov. 24

It's a Home Run (Gould): Apr. 24

It's Not Easy Being Green (Gates, Satt): Jan. 24

Keeping up to Date (Dunphy): Jul, 24 Logging and Blogging (McCray): Apr, 24

Looking Forward to Another 25 Years (Gruteke): Jun, 24

Midway Memories (Martin): May, 24

Mobile Operation Not a Distraction (Wardlaw): Oct, 24

My ARRL (Cahill): Jan, 24

New Ways for an Old Ham (Davis): Sep, 24

No Dead Spots in Amateur Radio (Dickerson): Feb. 24

Not in Our Best Interests (Green): Mar, 24

Not Your Grandfather's Ham Radio (Abad): Jul, 24

Not Your Grandson's Ham Radio (Weisman): Jul, 24

Old Dogs, New Tricks (Ragle): Oct, 24 Olivia — Not Scary at All (Kleber): Feb, 24

Open Sesame? (Paquette): Jun, 24

Pay to Play? (Green): Aug, 24

"Plausible Deniability"? (Gruszka): Nov, 24

Radiating Fun (Ipswiche): May, 24

Recharged! (Rankin): Feb, 24

Recognizing Good Operation (Vega): Aug, 24

Safety First (Applegate): Apr, 24 Showing Who's Boss (Pahr): Dec, 24 Soaring the Heights (Reid): Apr. 24

Spy vs Spy (Franklin): Dec, 24

State Call Sign Clearly (Persons): Mar, 24

Take Me Back to Tech (Ahlgren, Heins): May, 24

The Last Word on Phonetics? (Pilley): Jul, 24

The Magic and Mystery of Amateur Radio (Gruenke): Oct,

The Test is Just the Beginning (Hayman): Feb, 24

Vibroplex Revisited (Casale): May, 24 Where Would You Like to Go Today? (DePaola Sr): Jan, 24

# **DXCC Honor Roll (Moore)**

Aug, 89

# Eclectic Technology (Ford) (by month)

- Can We Push the Meteor Scatter Envelope? Convert your Desktop Computer to 12 V dc: Jan, 90
- Rethinking APRS; Cold Solder Joints: Feb, 95
- Digital "Weak Signal" FM?; USB 3.0; Backward RF: Mar, 95
- Chinese Ham Satellite on the Horizon; Quantum Communication Strangeness; Tree Power!: Apr, 98
- The Marketplace of Digital Modes; Meteor Scatter Update: May, 92
- High Speed Multimedia at 3.5 GHz; Homebrewing a 20 Meter SSB Transceiver in India; The Sounds of Space; Reversible Diodes?: Jun. 94
- Your Own D-STAR "Hot Spot"; Twisted Radio Waves: Jul, 93
- Your Hard Drive is Going to Fail (ioSafe Solo); A Fiber Alternative to BPL?: Aug, 95
- A D-STAR Repeater in Space; D-STAR Hotspot Update; Windows 7; Get Your News in Morse Code!: Sep, 91
- Audio Archiving; Ultra-Light Satellite; Transistor Trouble: Oct, 76
- Deconstructing the Digital Tower of Babel; Windows 7 Update: Nov, 98
- SumbandilaSat in Orbit!; The CubeSat Fleet Grows; Future Sats; WIMOR Update; Developing Electronic Circuits...in a "Flash": Dec, 93

## Exam Info (Somma)

- 2009 Exam Fee, Question Pool Topics; 2009 ARRL National Exam Day Weekends Jan, 96
- Put Your Party Hats On the ARRL VEC Program Celebrates Its Silver Anniversary (Somma): Jul, 92

#### **Feedback**

- \$500 Audio from a \$5 Boom Arm Mic! (April 2009 QST, pp 78-80) (Wagner): May, 55
- 2008 ARRL CW Sweepstakes (May 2009 QST, pp 81-83) (Taylor): Jun, 98; Aug, 43
- 2008 ARRL International DX Contest Announcement (December 2007 QST, p 96): Feb, 53
- 2008 ARRL November Phone Sweepstakes Results (June 2009 QST, pp 81-84) (London): Aug, 43
- 2008 Simulated Emergency Test Results (July 2009 QST, pp 72-75): Sep, 75
- 2009 ARRL January VHF Sweepstakes Results (July 2009 QST, pp 80-83) (Carman): Aug, 43; Oct, 34
- 2009 ARRL RTTY Roundup Results (July 2009 QST, pp 84-85) (Townsend): Aug, 43; Aug, 43
- A High Gain Single Wire Beam (July 2009 QST, pp 38-39) (Wilson): Aug, 43
- A Lost Dit of Vibroplex History (February 2009, pp 58-59) (Page): Apr, 65
- A Sound Card Interface or FM Transceivers (July 2009 QST, pp 30-31) (Teller): Jul, 37

- An All Band HF Dipole Antenna (September 2008 QST, pp 62-66) (Weit): Jan, 80
- An Audio Interface Unit for Field Day and Contesting (June 2008 QST, pp 39-41) (Raydo): Aug, 43
- Announcement Second ARRL Homebrew Challenge (February 2009, p 75) (Hallas): Apr, 65
- Designing and Building Transistor Linear Power Amplifiers, Part 2 (March 2009 QST, pp 40-43) (Campbell): Apr, 65
- Diamonds in the Sky (August 2009 QST, pp 30-32) (Teller): Sep, 58
- Experimenter's RF Spectrum Analyzer (October 2008 QST, pp 36-40) (Steber): Jan, 80; Mar, 55
- Feedback to the 2008 ARRL Annual Report: Sep, 58 Getting on the Air: It's Time to Take to the Water (July 2009 QST, pp 51-53) (Hallas): Sep, 58
- Getting on the Air: Learning to Live with RF Safety (March 2009 QST, pp 70-71 (Hallas): Jun, 98
- Hamspeak: Horizontally polarized (August 2009 QST, p 103): Oct, 34
- Hands-On Radio: Experiment #72 Return Loss and S-Parameters (January 2009 QST, pp 76-77) (Silver): Feb, 53
- Happenings: North Dakota Hams Help to Head Off River Flooding (Keane): Jul, 37
- Hints and Kinks: Feed Line Stretcher (January 2009 QST) (Taber): Mar, 55
- Hints and Kinks: Hot Sun Cold Solder (April 2009 QST, p 82) (Dorward): Sep, 58
- Home Brew Coaxial Dipole for VHF or UHF (July 2009 QST, pp 33-34) (Portune): Aug, 43
- Measuring Radio Frequencies (September 2009 QST, pp 36-39): Nov. 44
- Old Amplifiers Boat Anchors or Bargain Basement Opportunities? (January 2007 QST, pp 37-41) (Sowden): Mar, 55
- Product Review: Antenna Accessories from Array Solutions (Sep 2009 QST, pp 47-49) (Salas): Oct, 34
- Product Review: ICOM IC-7600 HF and 6 Meter Transceiver (November 2009 QST, pp 54-59) (Lindquist): Dec. 32
- Product Review: ICOM IC-7700 HF and 6 Meter Transceiver (October 2008 QST, pp 41-47) (Lindquist): May, 55
- Product Review: Microtelecom Perseus Software Defined Receiver (December 2008 QST, pp 40-44) (Ford): Jan, 80; Feb, 50
- Product Review: TelePost LP-PAN Software Defined IQ Panadapter (February 2009 QST, pp 44-47) (Hallas): Apr, 65
- Short Takes: The PIEXX SO2Rxlat USB LPT Translator (August 2009 QST, p 59) (Smith): Oct, 34
- The 2009 ARRL DX CW Contest (August 2009 QST, pp 77-80) (Robbins): Oct, 34
- The Antenna Dipper (November 2009 QST, p 53) (McCann): Dec, 32
- The Universal Keying Module (November 2008 QST, pp 43-45) (Bryce): Feb, 53
- The W4SSY Spudgun (March 2009 QST, pp 67-69) (Black): Apr, 65
- The World Above 50 MHz: Comparing VHF+ IF Strips (March 2009 QST, p 89) (Zimmerman): Apr, 65

This Just In: Section Manager Line-up at March 7-8, 2009 Radiofest Monterey Bay (May 2009 QST, p 12) (Kramer): Jun, 98

This Month in Contesting: October 2009 Qualifying Runs (October 2009 QST, p 87) (Kutzko): Nov, 44

Tuning Switch with Limit Indication for Screwdriver Antennas (December 2005 QST, pp 52-53) (Salas): Jun, 98

W1AW Schedule (July 2009 QST, p 101): Aug, 43 Wet and Wild — 2008 June VHF QSO Party Results (December 2008 QST, pp 81-84) (Rosen): Feb, 53 Where is Bob? (April 2009 QST, pp 51-53) (Bellini): May, 55

### **General Interest Features**

9XØR: Rwanda 2008 (Vedovelli): Mar, 56 A Green Field Day (Chaney and Stouder): Jun, 70 A Lost Dit of Vibroplex History (Page): Feb, 58; *Fdbk: Apr,* 65

Amateur Radio and Public Education Make for a Bright Future (Gulley): Feb, 54

Another Garriott Generates Excitement from Space (White): May, 67

Antarctica Experience (Brown): Jan, 52

Beyond the Straight Key (Arnold): Dec, 57

Bicycle Mobile Ham Radio (Pennes MD): May, 69

Bike 54, Where Are You? (Ford): Sep, 59

Catch a Net on Your Radio Set (Sant Andrea): Aug, 66 DX Dialoguing (sidebar to Sky Chatting) (Sant Andrea): Apr, 59

DXpedition to Planet Mars (Hartlage): Jan, 59 Find Yourself a Nearby (or Faraway!) FD Site: Jun, 69 Ham Radio in the Air (van Loosdrecht): Aug, 67 Homeowners Insurance and Your Antenna System (Fallen): Feb, 51

How to Win the ARRL Sweepstakes with 11 QSOs (Kanode): Oct, 79

Keeping Safe: Tower Safety (Keane): Sep, 62

Log It! (Arnold): Feb, 56

Morse Code: Efficient or Over the Hill? (Packard): Jan, 55 Movin' to Montana (sidebar to How to Win the ARRL Sweepstakes Contest with 11 QSOs) (Silver): Oct, 79 N4HX: Amateur Radio Ambassador (Bullington): Jun, 66 Observation of Long Delayed Echoes on 80 Meters

Observation of Long Delayed Echoes on 80 Meters (Karlshoj): Nov, 72

Out of the Frying Pan and Into the — Pileup? (Cody): Jun, 72

Party Time on 40 Meters! (Price): Apr, 60

Putting Ham Radio in the Cable Spotlight (Kramer): Aug, 65

QRP from the Top of the Maritimes (Volstad): Aug, 63 'Rah for Technology! America's Oldest College Amateur Radio Club Turns 100 (Keane): Apr, 57

Repeaters and the Conversation Carousel (Sant Andrea): May. 72

Season's Greeting: Dec, 79

Sky Chatting (Sant Andrea): Apr, 59

So Near, Yet So Far — The K5D Desecheo DXpedition Story (Allphin and Johnson): Dec, 52

The Happy Marriage of HF Transceivers and Computers (Ford): Oct, 67

The Teardrop QTH (Parks): Jul, 63

VK Alpine Winter Mini-expedition (Warrillow and Warrillow): Apr, 54

Which Way is Swaziland? (Sant Andrea): Jul, 62

# **Getting On the Air (Hallas)**

A Closer Look at Window Transmission Line (Allison and Hallas): Nov, 66

A Quick Look at Radio Frequency Interference: May, 61 It's Time to Take to the Water: Jul, 51; Fdbk: Sep, 58 Learning to Live with RF Safety: Mar, 70; Fdbk: Jun, 98 Selecting Your Transmission Line: Jan, 71 Your Voice Can Be Heard! (Pontius): Sep, 53

# **Guide to ARRL Member Services (page 14)**

#### Ham Ads

Jan, 156; Feb, 156; Mar, 164; Apr, 156; May, 162; Jun, 154; Jul, 154; Aug, 154; Sep, 162; Oct, 162; Nov, 154; Dec, 162

## Hamspeak

Jan, 101; Feb, 103; Mar, 103; Apr, 103; May, 101; Jun, 103; Jul, 103; Aug, 103 – *Fdbk: Oct, 24*; Sep, 101; Oct, 103; Nov, 103; Dec, 99

# Hands-On Radio (Silver)

Antenna Modeling: Boon or Bane? (Sidebar to Hands-On Radio: Experiment #82 — Antenna Height): Nov, 65 Experiment #72 — Return Loss and S-Parameters: Jan, 76; Fdbk: Feb, 53

Experiment #73 — Choosing an Op Amp: Feb, 73 Experiment #74 — Resonant Circuits: Mar, 72

Experiment #75 — Series to Parallel Conversion: Apr. 75

Experiment #76 — Diode Junctions: May, 63 Experiment #77 — Load Lines: Jun, 61

Experiment #78 — Bridge Circuits: Jul, 54 Experiment #79 — Pi and T Networks: Aug, 57

Experiment #80 — Battery Capacity: Sep, 55

Experiment #81 — Synchronous Transformers: Oct, 58

Experiment #82 — Antenna Height: Nov, 64

Experiment #83 — Circuit Simulation, Part 1: Dec. 48

# Happenings (Keane)

2009 Section Managers Workshop: A Learning Experience: Dec, 61

7O1YGF Operation Approved for DXCC Credit: Oct, 72 Amateurs with General Class Licenses Eligible to Operate in Some CEPT Countries: Nov, 81

ARRL 500 kHz Experiment Shows Increased Activity: Mar, 60

ARRL Announces New Youth Editor (Duncan MacLachlan, KUØDM): Jan, 61

ARRL Board Adopts Guildelines and Recommendations on the Appropriate Use of Amateur Radio: Dec, 59

ARRL Board Welcomes Two New Vice Directors (Jeff Beals, WA4AW and Jim Tiemstra, K6JAT): Aug, 69

ARRL Hosts Amateur Radio Classroom for USTTI Students: Jan, 63

ARRL HQ Welcomes New Membership Manager Diane Petrilli, KB1RNF: Feb, 63

ARRL National Convention to Feature Richard Garriott, W5KWQ: May, 73

- ARRL President Emeritus George Wilson, W4OYI, Silent Key: Feb, 62
- ARRL Releases Policy Statement on Mobile Amateur Radio Operation: Apr, 67
- ARRL Responds to FCC's Proposed Allocation for Medical Devices in 70 cm Band: Oct, 71
- ARRL Southeastern Division Vice Director Sandy Donahue, W4RU, Silent Key: Jul, 67
- ARRL Teachers Institutes Gear Up for Summer 2009: Mar. 61
- ARRL Teachers Institutes Off to Fast Start: Aug, 70
- ARRL to Help California Ham in Antenna Lawsuit: Mar, 60
- ARRL Vice Director Elections Set for November: Nov, 79
- ARRL: Mobile Amateur Radio Is Not Distracted Driving: Oct, 70
- Changes Coming for Sweepstakes, VHF+ Contests: Aug, 69
- Congress Considering Bill to "Promote and Encourage" Amateur Radio Public Service: Jul, 66
- Coy Day, N5OK, Resigns from ARRL Board of Directors: Apr, 66
- Delta Division Leadership Attends Orientation Workshop at ARRL HQ: Mar, 59
- FCC Clarifies What Constitutes an Amateur Radio Repeater: Jun, 74
- FCC Continues BPL Debate: Sep, 63
- FCC Issues Public Notice on Amateur Service Communication During Government Disaster Drills: Dec, 59
- FCC License Activity on the Rise: Mar, 59
- FCC Releases Unredacted BPL Case Studies After ARRL FOIA Request: Jul, 66
- FCC Special Counsel Laura Smith Visits ARRL: May, 73 FCC to Utilities: Don't Look to Hams to Pay for Your Testing: Nov, 79
- Four Radio Amateurs Killed in Plan Crash en Route to CQWW Phone Contest (Peter Radding, W2GJ; Ed Steeble, K3IXD; Dallas Carter, W3PP; Randy Hargenrader, K4QO, SK): Dec, 60
- Frank Bauer, KA3HDO, Steps Down From ARISS and AMSAT Duties: Jun, 75
- Hurricane Nets, WX4NHC Activate as Hurricane Paloma Batters Cayman Islands and Cuba: Jan, 61
- IBM Teams Up with BPL Provider to Offer Service in Seven States: Jan, 62
- Laura L. Smith Named to Amateur Radio Enforcement Role: Apr, 66
- National Safety Council Responds to ARRL: No Evidence of "Significant Crash Risks" While Operating Mobile: Nov, 80
- New Leadership in ARRL's Delta Division: Feb, 62 Next Round of PAVE PAWS Mitigation Contacts Begins: Jan, 62
- Nominees Sought for ARRL Board of Directors (Sumner): Jul. 69: Aug. 72
- North Dakota Hams Help to Head Off River Flooding: Jun, 74; Fdbk: Jul, 37
- Richard Garriott, W5KWQ, Back on Terra Firma: Jan, 62 Section Manager Election Results: Feb, 63
- Section Manager Nomination Notice (Patton): Jan, 64; Feb, 64; Apr, 68; May, 75; Jul, 68; Aug, 71; Oct, 72; Nov, 81

- Team Leaders Selected for WRTC 2010: Dec, 60
  Train the Trainers Course Debuts at Orlando HamCation:
  May, 74
- Walter Cronkite, KB2GSD, Silent Key: Sep, 64 When Vandals Strike Infostructure, Hams Provide Communications Support: Jun, 73
- WRC-11 Agenda Poses Opportunities and Challenges for Hams: May, 74

#### **FCC News**

- Commissioner Jonathan Adelstein to Leave FCC: Jun, 74
- Copps Named Acting FCC Chairman: Apr, 67
- FCC Chairman Kevin Martin Resigns: Mar, 60
- FCC Chairman Nominee Genachowski, Current Commissioner McDowell Face Confirmation Hearings; FCC Looks to Raise Vanity Call Sign Fees for Second Consecutive Year: Aug, 70
- FCC Responds to ARRL Petition Against Experimental License using 40 Meter Band: Jan, 63
- FCC Takes Advantage of Social Networking: Nov, 80 Genachowski Sworn In As New FCC Chairman: Sep, 64 Julius Genachowski Nominated as Next FCC Chairman: May, 74
- Meredith Attwell Baker, Mignon Clyburn Sworn in as FCC Commissioners: Oct. 71
- President Obama Nominates New FCC Commissioner (Mignon L. Clyburn): Jul, 67

#### In Brief

- ARRL's Committee on Scouting Seeks Assistance with Girl Scouts; ARRLDXCC Desk Approves T61AA Operation: Mar, 61
- Eleven New Cosponsors Pledge Support for HR 2160; What's New at Dayton 2009: The Unabridged Version: Sep. 65
- FCC Calls on Amateur Radio Service for Assistance with Digital TV Conversion; Canadian Amateurs Receive Limited 500 kHz Privileges: Feb, 64
- FCC Expands ARRL's 500 kHz Experimental License; Special Bonus Section Added to The ARRL Ham Radio License Manual: Oct, 72
- FCC, Indianapolis Police Department Address Unlicensed Operations; New Section Manager in South Dakota (Scott Rausch, WAØVKC): Jun, 75
- Field Day Station Locator Service Returning for 2009; ARRL Sweepstakes and RTTY Roundup Set New Records; BSA Updates Radio Merit Badge Requirements: May, 75
- Fred Fish Memorial Award #1 Presented to Lee Fish, K5FF; WorldRadio to Cease Print Publication: Jan, 64
- HR 2160 Gains Four More Cosponsors; IARU, ARRL Officials Attend Ham Fair, GAREC in Japan: Nov, 81
- John Kanzius, K3TUP, Silent Key; ARRL Foundation Officers Elected: Apr, 68
- Scientists Predict Solar Cycle 24 to Peak in 2013; Internet Search Engine Celebrates Birthday of Samuel F. B. Morse: Jul, 68
- The ARRL Letter, Now in HTML, Moves to Thursdays; Ham Appointed Chief of Army MARS (Jim Griffin, KE7LJA); IRCs Out with the Old, In with the New: Dec, 61

Two New Co-sponsors Pledge Support for HR 2160; Ohio Section Manager Joe Phillips, K8QOE, Silent Key: Aug, 71

## **Hints and Kinks**

12 V Spice Jar Adapter (Lott): Dec, 51

A Quick Release Mounting Bracket for the Yaesu FT-

857D (Montgomery): Oct, 61

Acorn Antenna Altitude (Sant Andrea): Apr, 81

Alternative Grounding Material (Raffaele): Aug, 62

Anchoring Coaxial Feed Line (Nelson): Aug, 60

Another Use for a Watch-Back Lifting Knife (Miller): Feb,

Antenna Counterweight Device (Kruk): Feb, 78

Assembling Type N Connectors (Cole): Sep, 57

Astron RS-12A Fix (Powell): Jan, 79

Attaching Front Panels (Palmgren): Sep, 57

Audio Filter Improved CW Performance (Getz): Aug, 61

Auto Clearcoat Discoloration (Stewart): Aug, 62

Coax Critter Damage (Kuykendall): Feb, 78

Control Head Mount Made from Minicel Foam (Burke): Feb. 78

CQ Ringtone (Tyre): May, 65

Cracking Wall Warts (Snowdon): Aug, 62

Cup Holder Mobile Mount (Kruse): Mar, 76

Display Scratch Repair (Wade): Jun, 64

Easy Antenna Mounts for a Honda Ridgeline (Kulzer): Apr, 81

EchoLink in a Flash (Bates): Feb, 79

Feed Line Stretcher (Taber): Jan. 80: Fdbk: Mar. 55

Feet for Heathkits (Davis): Dec. 51

Fixing and Replacing Fiberglass-Tube Antenna Insulators (MacAlister): Oct. 60

Foam PCB Holder (Jacobs): Jan, 80

Garbage Bag Tie Rescues PTT Button Woes (Davis): Sep. 58

Gripper Pads are Redeployed (Van Sickle): May, 66

Ground Mounted Lightning Arrestor (Mikula): May, 65

Handy Frequency List (Thall): Mar, 76

Help Your ICOM IC-27/37/47 Regain Its Voice (Bogusz):

Homebrew Transistor Socket (Huyett): Nov, 69

Hot Sun — Cold Solder (Conlon): Apr, 82; Fdbk: Sep, 58

IC-706 Connector Problems (Peters): Feb. 79

IC-706MKIIG SO-239 Problem (Schwab): Dec, 50

Increasing Relay Voltage Handling Capacity (Karlquist): May, 66

Ladder Line Center Insulator (Keppler Jr): Apr, 81

Loop and Hook Skyhook (Quinton): Feb, 79

Making Front Panels — the Easy Way (Boyer): Mar, 75 Mark Those Heil Headset Adapter Cables (Schwab): Feb,

MFJ Cub Dial Label (Allison): Jun, 63

Mobile Antenna Transport Tube (Patterson): Oct, 60

Mobile Conversion of the MFJ-1762 6 Meter Yagi

(Abbruscato): Aug, 61

More Behind the Gray Door (Marthens): Aug, 62

More on RS-232 Transmit Control (Dieter): Nov, 69

More on the ADI AR-447: Sep, 58

More on the ICOM IC-27/37/47 (Bisha): Oct, 62

More on the Receive Indicator (Allen): Dec, 51

Mounting PL-259 Connectors (McAlister): Jun, 63

Neat Handheld Transceiver Holder (Murphy): Jan, 79 O-Ring Seal for PL-259/SO-239 Connectors (Dorward): Feb, 79

Pigeonhole Work Top (Townsend): Nov, 68

Project Boxes on the Cheap (Merritt): Jun, 63

PSK31 for Audio Monitoring (Ray): May, 65

PVC Antenna Support System (Monroe): May, 66

Quick, Good-Looking Homebrew Labels (Hart, Straw): Feb. 80

Receive Indicator (Allen): Oct. 62

Repairing Slug-Tuned Coils with Dental Floss (Manner): Sep. 58

Reuse Your CRT Stand (Richardson): Aug. 61

Reviving a Yaesu VX5 Turn-On Button (Peters): Jul, 57

RS-232 Transmit Control (McCann): Sep, 57

Simple Prototype PCBs (Maukonen): Mar, 76

Single Paddle Operation with lambic Paddles (Winslow): Oct, 61

Spray Grease Warning (Hamel): Jun, 64

Station Grounding (McAlister): Nov, 68

Temporary Open-Wire Feed-Line Connectors (Pozerski): Sep, 58

Traffic Cone Antenna Stand (Alexander): Jul, 57

TV Antenna Ant Nest (Walker): Apr, 81

Weatherproofing Your Automatic Antenna Tuner (Haines):

Dec, 50

Windows Sounds — Another Approach (Eagle): Oct, 62 Wireless RFI Detection (Goodwin): Aug, 61

# How's DX (McClenney)

ARRL CW DX Contest Reminder: Feb, 91

Back to Desecheo Island — KP5: Jan, 85

Chatham Island DXpedition 2009 (Jennings): Aug, 84

Cycle 24: Jul, 86

DX Cluster Use: May, 87

DX Gatherings: Ham-Com 2009; WØ DXCC Maritime DX

Forum; PNWDXC: Jun, 88

International Reply Coupons: Jul, 86

Midway Islands: Apr, 89

More on Midway: Jun, 87

Six Meter DX News: 40 — Montenegro; 8R — Guyana; HKØ/S — San Andres and Providencia; V2 — Antigua

and Barbuda: Jun, 87

The 2008 DX Year in Review: Mar, 92

The Dissolution of Netherlands Antilles and the Creation

of as Many as Four New Countries: Nov, 88

Time to Dump Your Old IRCs: Sep, 86

Time to Start Thinking about Dumping Your IRCs: Apr, 89

ZK2V 2009 (Tran): Oct, 88

ZYØOF — A Tropical Island Adventure (Dalamasso): Sep, 85

# DX News from Around the Globe

3V — Tunisia; 9N — Nepal and A5 — Bhutan; CN — Morocco; HKØ — San Andres & Providencia; JD1 — Ogasawara Islands; T8 — Palau; VP8 — Falkland Islands: Jan, 86

6W and J5 — Senegal and Guinea-Bissau; FH — Mayotte; FR/G — Glorioso; H4 and H4O — Solomon Islands and Temotu Province; J6 — St Lucia; KP5 — Desecheo Island; NCDXF New Officers; OD — Lebanon; SV9 — Crete; T2 — Tuvalu; T30 and T31 —

- West Kiribati and Central Kiribati; T8 Palau; TL Central African Republic; TU — Ivory Coast; VE — Canada; VK9L — Lord Howe Island; YA — Afghanistan; YVØ — Aves Island: Feb, 90
- 4K Azerbaijan; 5X Uganda; C6 Bahamas; C9 Mozambique; DU — Philippines; E5 — South Cook Islands; J3 — Grenada; TI — Costa Rica; VK9L — Lord Howe Island; YJ — Vanuatu; ZS — South Africa: Apr, 89
- 5N Nigeria: 8Q Maldives: C2 Nauru: FJ Saint Barthelemy; JD1/O — Ogasawara Islands; Pacific Isles; Postal Increase; TT8 — Chad; ZK2 — Niue: May, 88
- 5N Nigeria; 8Q Maldives; PYØF Fernando de Noronha; S9 - Sao Tome and Principe; TT — Chad: Jun. 88
- 3D2 Fiji Islands; 3DAØ Swaziland; 5R Madagascar; 8R — Guyana; C6 — Bahamas; FP — St Pierre and Miguelon Islands; GD — Isle of Man; IW4BLZ Heading North; JW — Svalbard; KL7 — Alaska; Twitter; WØDXCC Update; ZF — Cayman Islands: Jul,
- 3B6 and 3B7 Agalega and St Brandon; 3D2/C Conway Reef; 4W — East Timor; CEØZ — Juan Fernandez; FO/A and FO/M — Austral and Marquesas Islands; O/A and ZK2 — Austral Islands and Niue Island; Change of Prefixes of Iles Espares; FT3G — Glorioso Islands; JW — Svalbard; PG5M Heading for the Pacific; SV9 — Crete; T8 — Palau: Sep, 86
- 3D2 Conway Reef; 8Q Maldives; C3 Andorra; CYØ — Sable Island; DL2FAG Going to the South Pacific; DX Gathering; FH — Mayotte; FP — St Pierre and Miguelon Islands; J7 — Dominica; LX — Luxembourg; N7OU Heading Back to Pacific; TY — Benin: Oct, 89
- 3V Tunisia; 3W Vietnam; 5R Madagascar; 9G Ghana; CEØY — Easter Island; DYØ — Sable Island; FK — Chesterfields; GD — Isle of Man; P2; — Papua New Guinea; Pacific Islands Expedition; VK9X — Christmas Island: Nov, 89
- 3V Tunisia; 5R Madagascar; 8Q Maldives; A2 Botswana; C5 — Gambia; C9 — Mozambique; CE — Chile; FØ — French Polynesia; International Team Heads to Several Pacific Islands; JD/O — Ogasawara Islands; KG4 — Guantanamo Bay; V3 — Belize; VK — Australia; VK9X — Christmas Island; VP2V — British Virgin Islands; XU — Cambodia; YV and YVØ — Venezuela and Aves Island; Z2 — Zimbabwe; ZL — New Zealand: Dec, 89

# **Index of Advertisers**

Jan, 158; Feb, 158; Mar, 166; Apr, 158; May, 164; Jun, 156; Jul, 156; Aug, 156; Sep, 164; Oct, 164; Nov, 156; Dec, 164

#### It Seems to Us (Sumner)

Another Step in Strategic Planning; Mar, 9 Appropriate Use: Guildelines and Waivers; Dec, 9 Change: May, 9 Coexistence: Jun, 9 It Doesn't Just Happen: Nov, 9

Keeping the "Amateur" in Amateur Radio: Apr, 9

Now We Know: Aug, 9

Our Global Community: Oct, 9 Pecuniary Interest: Sep, 9 Support HR 2160!: Jul, 9

Technology and Science, A Two-Way Street: Feb, 9

Triple Play!: Jan, 9

### **Life Members Elected**

March 14, 2009: May, 99 October 24, 2009: Dec, 97

# Microwavelengths (Wade)

Assembling a Microwave Transverter System: Jul, 96 Homebrew Microwave Transverters: Oct, 97 Microwave DX: Jan, 91 Microwave Transverters — System Design: May, 95

## **New Books**

6 Metre Handbook (RSGB) (Smith): Jun, 50 Ham Radio Heroes (Third Millennium Publishing) (Ford): Feb. 74

Listening on the Short Waves, 1945 to Today and Broadcasting on the Short Waves, 1945 to Today (Berg)(Ford): Jan, 95

The Worldwide Listening Guide (Ford): Jun, 50

## **New Products**

ARRL/TAPR Digital Communications Conference DVD Set from ARVN: Sep, 56

12 GHz PLL-Stabilized Crystal Oscillator from Kuhne Electronic (MKU LO 12 PLL): Nov. 49

Alpha 8410 Amplifier: Jun, 64

AR-Mini Handheld Receiver from AOR: Jun, 64 Cell Phone Headset Adapters from N1GY: Feb, 86 Coaxial Cable/Connector Tools from DX Engineering (DXE-UT-8213; DXE-UT-808X; DXE-UT-80P; DXE-UT-80N): Jun. 50

Compact Cross-Needle SWR/Wattmeters from MFJ (MFJ-88x series): Aug. 68

Connector Installation Prep Tool for LMR-400 (CST-400, part number 3192-004): Sep, 76

Crystal Radio Receiver Kit from the Xtal Set Society (My Marconi Crystal Radio Kit): Nov, 69

DB6NT 2 Meter Transverter Module (MKU 144 G2): Jul,

Digital SWR/Wattmeter from MFJ (MFJ-826B): May, 33 Display Your Call Sign in Stained Glass: May, 33 Dry Dummy Load from MFJ (MFJ-263): Nov, 49 Enhanced Pactor Modem from SCS (Airmail2000): Sep, 76

Flex-3000 Software Defined Radio: Feb, 80 Foot Switch from Jetstream (JTFT1): Nov, 94 G8PUT Logbook Project: May, 33

Ham Radio Reference for Palm OS PDA (Ham Radio Referenced 2009 - HRR v 3.4 ); Sep. 76

HAMCALC Electronics Utility Software (version 113): Dec,

Heavy Duty Telescoping Fiberglass Pole from Spiderbeam: Nov, 94

Hy-Gain 160-6 Meter Vertical Antenna: Feb, 86

Jetstream 222 MHz Mobile Transceiver (JT220M): Oct, 32

Jetstream High Current 13.8 V Power Supply

(JTPS75BCMMKII): Nov, 92

- MacIntosh Logging Program from Dog Park Software (MacLoggerDX 5.0): Aug, 68
- MFJ AdaptiveCable Air Vent Plates (MFJ-4616; MFJ-4613): Apr, 36
- MFJ AdaptiveCable Wall Plates (MFJ-4614; MFJ-4612; MFJ-4611): Feb, 86
- MFJ Dual Channel Speech Intelligibility Enhancer (MFJ-618): May, 33
- MFJ Filtered Outlet for DC Power Lines (MFJ-1142): Oct, 34
- MFJ High Current Switching Power Supply (MFJ-4275MV): Sep, 76
- MFJ Mightymite Intellituner (MFJ-925): Dec, 32
- MFJ Transceiver Surge Protector (MFJ-1163): Oct, 32 Mobile/Base Station Duplexers from Paladin RF (PRF-
  - D450-4; PRF-D1270-4): Jun, 64
- N8XJK Marine Booster from TG Electronics: Jan, 95
- Nifty! Mini-Manual for MFJ-259B and MFJ-269 Analyzers: Jul, 55
- Performance Enhancements for Yaesu FT-2000 and FT-2000D: Jul. 55
- Performance Enhancements for Yaesu FTDX9000: Feb,
- Plug In Coil Forms from National RF: Sep, 76
- QSL Card Albums from K4AVU: Sep, 76
- Remote/Meter Panel for N8XJK Battery Boosters (R1): Jul. 34
- RF Tools Software for Communications Test Sets: Aug, 68
- Short Mobile HF Whips from MFJ (MFJ-23xx series): Nov, 49
- SO-239 to BNC Conversion Kit from Oak Hills Research: Jan. 58
- Solar Power Controller from ECC (Model 510): Aug, 68 TalkSafe Bluetooth Headsets from RPF Communications (TalkSafe; TalkSafe Ranger): Mar, 36
- Telescoping Whip Antenna from MFJ (MFJ-1953): Jul, 55 Ten-Tec Hand Microphones (702: 703): Sep, 43
- Ten-Tec Model 715 RF Speech Processor: Sep, 43
- Ten-Tec RX-400 HF/VHF/UHF Receiver (RX-400): Jul, 34
- Times Microwave Flexible LMR-400 Coaxial Cable: Jun, 64
- Ultrasound CW Transceiver Kit from the XTAL Set Society (Ultra-TR40): Oct. 34
- Universal Window Feedthrough Panel (MFJ-4603): Nov, 94
- USB Radio Interface from DMJ Engineering (URI): Jul, 103

# Officers, Division Directors and Staff (page 15)

#### Op-Ed

Are We Overselling Ham Radio? (West): Mar, 88 Hams Help Hams Achieve Triple Play WAS Award (Stanway): Nov. 99

Kindness in Amateur Radio (Baker): May, 78

Phonetics — Am I Being Understood? (Sawyer): Jun, 97

# Organizational

2008 Simulated Emergency Test Results: Jul, 72; *Fdbk: Sep, 75* 

- 2008 Simulated Emergency Test Results: Charlestown Radio Hams Shine During Statewide Drill (Lindholm): Jul, 72
- 2008 Simulated Emergency Test Results: Hawaii Regional Planning Exercise (Grabowski): Jul, 72
- 2008 Simulated Emergency Test Results: Obion County in Tennessee Scenario (Steinberg): Jul, 73
- 2009 Annual Philip J. McGan Memorial Silver Antenna Award: Feb. 61
- 2009 Teachers Institute Introduces Advanced Satellite Workshop (Spencer): Nov, 75
- ARRL Announces the New, Improved Bill Leonard Media Award (Pitts): Nov, 77
- ARRL Board Names Award Recipients for 2008-2009 (Hiram Percy Maxim Award to Jason Hatfield, KD8FDD; ARRL Technical Service Award to Geoff Haines, N1GY; ARRL Technical Innovation Award to Dan Smith, KK7DS; Herb S. Brier Instructor of the Year Award to Brian Short, KCØBS; Joe Knight Distinguished Service Award to Bill Thompson, W2MTA and Susan Swiderski, AF4FO; Philip J. McGan Memorial Silver Antenna Award to Nate Brightman, K6OSC; Doug DeMaw, W1FB, Technical Excellence Award to John Stanley, K4ERO) (Keane): Oct, 65
- ARRL Board of Directors Sets Legislative Agenda, More at 2009 Annual Meeting (Keane): Apr, 62
- ARRL's New Web Site: Designed with You in Mind (Glass): Dec, 55
- Awards Conferred at Annual Meeting (Bill Leonard, W2SKE, Professional Media Award to Ted Randall, WB8PUM; ARRL Humanitarian Award to Sichuan Radio Sports Association, Chinese Radio Sports Association and other Chinese amateurs) (Sidebar to ARRL Board of Directors Sets Legislative Agenda, More at 2009 Annual Meeting) (Keane): Apr, 62
- Board Discusses Inappropriate Use of Amateur Radio, Strategic Planning at Second 2009 Meeting (Keane): Oct, 63
- Dayton DREAM Believer (Keane): Jul, 58
- Frequency Measuring Test 2009 FMT Classic (Silver): Nov, 74
- Going Once, Going Twice, GONE! (Keane): Jan, 54 Introducing the 2010 ARRL Handbook (Silver): Oct, 68 Kids Day 2009: Fun for All Ages!: Jun, 65
- Something for Everyone at the 2009 ARRL National Convention (Keane): May, 71
- Summary of Major Board Actions (Sidebar to ARRL Board of Directors Sets Legislative Agenda, More at 2009 Annual Meeting) (Keane): Apr, 64
- Summary of Major Board Actions (sidebar to Board Discusses Inappropriate Use of Amateur Radio, Strategic Planning at Second 2009 Meeting) (Keane): Oct, 64
- The ARRL Teachers Institute 2009 (Spencer): Feb, 60
  The First Edition Read all About It (sidebar to
  Introducing the 2010 ARRL Handbook) (Silver): Oct, 68
  What's New at Dayton 2009? (sidebar to Dayton DREAM
  Believer) (Hallas): Jul, 61

# **Our Cover**

1927 regenerative receiver (Mattson): Jan, 5

20 m Fixed Array Just North of Stockholm; SMØTQX Design (Kotowski): Dec, 5

2008 ARRL 10 Meter Contest (Soba): Oct, 5 2009 ARRL June VHF QSO Party (Taylor): Oct, 5 Annual Antenna Issue: DX Fishing Net (Stavropoulos):

Mar, 5

HF moonbanders at W1AW (Wojcik): Mar, 5 WA7FPO antennas at 7200 feet ASL (Stewart): Mar, 5 Boulder Amateur Radio Club, WØDK, 2007 Field Day (Long): Jun, 5

Calgary, Alberta skyline (Clement): Aug, 5

Do It at Dayton! (photos: Nancy Rabel Hall, KC4IYD and daughter Carol, SM Joe Phillips, K8QOE, Scott Hartlage, KF4PWI and young hams in fox hunt) (Kleinman): May, 5

Homebrew low power station of Rick Campbell, KK7B: Feb. 5

It's Time to Take to the Water (Hallas): Jul, 5 Northern Lights (Panagiotou): Aug, 5

Rock-bound No More!: Nov, 5

Vintage Issue: W9ARZ (SK) homebrew radio: Jan, 5 VK Alpine Winter Mini-expedition (Warrillow): Apr, 4 WASTYJ's Antenna in Winter (Martin): Aug, 5

# **Product Review (Wilson)**

A Close Look at K3 Roofing Filters (sidebar to Elecraft K3/100 HF and 6 Meter Transceiver) (Hallas): Jan, 46

Alinco DJ-175T 2 Meter FM Handheld Transceiver (Ford): Aug, 46

Antenna Accessories from Array Solutions (Bias-T Plus; Bias-T Master; ATD-1 Auto-Tuner Disconnect) (Salas): Sep, 47; Fdbk: Oct, 34

Array Solutions QSK-MASTER External QSK TR Switch for HF Amplifiers (Sumner): Jul, 44

Conducted Emissions Testing (sidebar to Four Switching Power Supplies) (Wilson): Aug, 50

DC to AC Power Inverters (Cotek ST1500-12; PowerBright PW2300-12-1; Samlex PST-100S-12A; Tripp-Lite PowerVerter PV-1250FC; Xantrex Xpower 1750 Plus) (Robins): Apr, 44

DV Dongle D-STAR Adapter (Pearce): Feb, 47

Elecraft K3/100 HF and 6 Meter Transceiver (Hallas): Jan, 43

FlexRadio Systems FLEX-3000 Software Defined HF/50 MHz Transceiver (Sant Andrea): Oct, 45

Four Switching Power Supplies (Daiwa SS-505; Jetstream JTPS45; MFJ-4245MV; Samlex SEC-12235M) (Wilson): Aug, 48

ICOM IC-7200 HF and 6 Meter Transceiver (Sant Andrea): Jun, 51

ICOM IC-7600 HF and 6 Meter Transceiver (Lindquist): Nov, 54; Fdbk: Dec, 32

ICOM IC-80AD Dual Band Handheld Transceiver (Ford): Dec. 40

Inverter Types (sidebar to Product Review: DC to AC Power Inverters) (Robins): Apr. 44

K1EL Winkeyer USB CW Keyer and Interface Kit (Prior): Jul. 46

Kenwood RC-D710 Control Head/TNC (Pearce): May, 49 Maha MH-9000 Battery Charger (Stuart): Apr, 49 Micro-Node International IRLP/EchoLink Node (Johnson): Jun, 56 New Product Review Tests (Allison): Oct, 50
Portable Dual-Lever Keyer Paddles (Prior): May, 52
Power Inverters and Conducted Emissions Limits (sidebar to Product Review: DC to AC Power Inverters) (Robins):
Apr. 48

QST Compares Analog HF/VHF Wattmeters (Ameritron AWM-30; Comet CMX-1; Daiwa CN-801 HP; MFJ-970 Grandmaster; Palstar PM2000A) (Allison): Mar, 46

SPE Expert 1K-FA Linear Amplifier (Wilson): Sep, 44 TelePost LP-PAN Software Defined IQ Panadapter (Hallas): Feb, 44; *Fdbk: Apr, 65* 

Ten-Tec 715 Speech Processor (Allison): Dec, 43 The Elecraft K3 as a Contest Radio (sidebar to Elecraft K3/100 HF and 6 Meter Transceiver) (Hallas): Jan, 48

Three More Battery Powered Soldering Tools (Haines): Feb. 49

Update to FlexRadio FLEX-3000 Product Review (Allison): Nov, 60

Yaesu VX-8R Handheld Transceiver (Price): Jul, 41

### **Public Service**

2009 National Conference on Community Preparedness: Nov, 82

2009 Simulated Emergency Test (Ewald): Sep, 75
Adapting the ICS Message Form (Miller Sr): May, 76
Amateur Radio Key Part of Red Cross Exercise (Miller):
Jan, 65

Amateur Radio's Role in Alabama Interoperability Exercise (Sarratt): Sep, 68

ARES Field Resources Manual: Jan, 66

ARES/RACES Exercises at Vaccination Clinic (Firestone): Jan, 66

Citizen Corps News and Information (Ewald): Oct, 74 Education and Training Offered at EMCOMMWEST: Jul, 71

George Hart Distinguished Service Award (Ewald): Oct, 74

GlobalSET Coincides with World Amateur Radio Day (Ewald): Sep, 67

Help ARRL Document Public Service Activities (Ewald): Feb. 65

Honoring the 60th Anniversary of the ARRL National Traffic System (Ewald): Oct, 73

A Northwestern Perspective (Smith): Oct, 73
A Way to Make Lifeliong Friends (Ewald): Oct, 74

NTS for Nearly a Lifetime (Thompson): Oct, 73
National Weather Service/ARRL SKYWARN Re

National Weather Service/ARRL SKYWARN Recognition Day (Ewald): Dec, 62

NBEMS — A Digital Emcomm Tool (Bloomberg and Kleber): Aug, 73

Nominations Open for 2009 International Humanitarian Award (Ewald): Dec, 62

NTS Resources on the ARRL Web Page (Ewald): Oct, 75 Operations in New Jersey and Pennsylvania (Ewald): Sep, 67

Pandemic: Planning for the Future (Aveni): Sep, 66
Participants' Comments (sidebar to Amateur Radio's Role in Alabama Interoperability Exercise) (Dura): Sep, 69
PowerPoint Program on NTS (Ewald): Apr, 70

Preparations Underway for 2101 Winter Olympics (Simpson): Nov, 83

Public Service Honor Roll Criteria Explained (Ewald): Dec.

Recruiting ARES Members (Ewald): Feb, 66

Reminder About Emergency Preparedness Kits (Ewald): May, 77

Reminder on 2008 SET Reports: Jan, 65

Resource Typing (Ewald): Oct, 75

Resources on Emergency/Alternative Power (Ewald): Feb,

Seniors Linking Amateur Radio and Storm Preparedness (Burke): Jun, 76

"Spring Training" — A Grand Slam in Connecticut (Fuller): Jul. 70

Ten Year Anniversary of SKYWARN Recognition Day (Ewald): Apr, 69

Bergen County, New Jersey, OEM on the Air (Adams): Apr, 70

Georgia on the Air (Swiderski): Apr., 71

Indiana Operators Visit NWS in Louisville (McKim): Apr.

Monterey, California Joins the Celebration (Mehle): Apr.

Notes from the National Hurricane Center (Ripoll): Apr, 71 Opportunities Open in Alaska (Courtney): Apr., 69 Sacramento, California, Participates (Kurth): Apr, 70 West Virginia was Represented (Damron and Myers): Apr,

WX1BOX Operates from Taunton, Massachusetts (Macedo): Apr, 71

Wyoming and South Dakota Combine Forces (Crowe): Apr. 69

Universal Ham Radio Text Messaging Initiative (Bruninga): Sep. 72

Upcoming Emergency Communications Events (Ewald): Apr. 70

Web Sites of Interest: Jan, 66

When the Big One Hits, South Carolina Will Be Ready! (Fletcher and Welton): Mar, 62

Your Place in the ARRL Field Organization (Kramer): Sep, 70

**Emcommentary**: Doing the Right Thing (Dura): Mar, 63 Many Tools, One Tool Box (Dura): Aug, 74 The Need for Information (Dura): Feb, 66

## Field Organization Reports:

Oct 2008: Jan, 99; Nov 2008: Feb, 101; Dec 2008: Mar, 101; Jan 2009: Apr. 101; Feb 2009: May. 100; Mar. 2009: Jun, 101; Apr 2009: Jul, 102; May 2009: Aug, 101; May 2009: Sep, 99; Jul 2009: Oct, 101; Augt: Nov, 101; Sep 2009: Dec, 98

# Radiosport

2009 ARRL 10 Meter Contest: Nov. 87 2009 ARRL 160 Meter Contest: Nov, 87 2008 ARRL 10 Meter Contest Results (Harker): Jul. 77 2008 ARRL 160 Meter Contest Results (Breed): Jun, 85 2008 ARRL CW Sweepstakes (Taylor): May, 81; Fdbk: Jun. 98: Aug. 43 2008 ARRL International EME Competition Results (Alexander): Apr, 85 2008 ARRL November Phone Sweepstakes Results (London): Jun, 81; Fdbk: Aug, 43

2008 ARRL UHF Contest Results (Kalenowsky): Feb. 87 2009 ARRL 10 GHz and Up Contest: Aug, 81 2009 ARRL August UHF Contest Announcement: Jul, 83 2009 ARRL DX Phone Results (Silver): Sep. 79 2009 ARRL Field Day — Are You Ready?: May, 84 2009 ARRL International EME Competition: Aug. 82 2009 ARRL January VHF Sweepstakes Results (Carman): Jul, 80; Fdbk: Aug, 43; Oct, 34 2009 ARRL June VHF QSO Party: May. 85 2009 ARRL RTTY Roundup Results (Townsend): Jul, 84; Fdbk: Aug, 43 2009 ARRL September VHF QSO Party: Aug, 81 2010 ARRL DX Contest: Dec. 86 2010 ARRL January VHF Sweepstakes: Dec, 86 2010 ARRL Straight Key Night: Dec, 85 2010 Kids Day Announcement (Beckwith): Dec, 84 2010 Kids Day Announcement (Hodge): Dec, 84 Bring Some RF to School: School Club Roundup 2009 (Malchick): Jan, 83 Holding the Channel (sidebar to June 2009 VHF QSO Party Results) (Rosen): Dec. 82 Introducing the Triple Play WAS Award: Jan, 84 JOTA 2009 (Johnson): Sep, 61 June 2009 VHF QSO Party Results (Rosen): Dec, 80 Multiop, Texas Style (Straw): Oct, 84 No Sunspots? Try VHF: 2008 ARRL September VHF QSO Party Results (Klein): Mar, 83 School Club Roundup 2009 (Malchick): Sep, 60 Straight Key Night 2009 (Kutzko): Apr, 86 Take 77! Field Day 2009 (Henderson): Dec, 67 The 2009 ARRL DX CW Contest Results (Robbins): Aug. 77; Fdbk: Oct. 34 The 2009 ARRL November Sweepstakes Announcement: Oct. 87 The 2009 IARU HF World Championships Announcement: Apr. 87 The 2010 ARRL RTTY Roundup: Dec, 85 (Kaufhold): Oct, 80

The Past, Present and Future of VHF Contesting

Way Up High — 2008 ARRL 10 GHz and Up Contest Results (Platt): Mar, 86; 4/1/2008, 58

Worked All States: Single Rover (Harder): Feb, 83 Worldwide Fun — 2008 IARU HF World Championships Results (Luetzelschwab): Mar, 79

## This Month in Contesting (Kutzko)

Another Radiosport: ARDF: May, 79 ARRL Field Day is June 27-29: May, 80 ARRL SSB DX — PEP (PREP!) TALK: Mar, 77 Club Participation in Contests: Aug, 75 Field Day — A Great Training Ground: Jun, 79 Goin' Mobile: Rove, Rove, Rove!: Oct, 77 Gooch's Paradox Revisited: Feb, 81 Have a Radiosport Question?: Jun, 79 Mail Bag: Multipliers in Contests: Jul. 75 November Sweepstakes — The Crown Jewel of W/VE Contesting: Nov. 85 Off-Season Training: Apr., 83 Shorter Events: Jan, 81 Slow Speed CW: Sep, 77 Sweepstakes Reminder!: Nov, 86 Warm Events for Some Holiday Cheer: Dec, 65

# In the NCJ "Contesting 101"

January/February Jan, 82; Feb, 89

March/April: Mar, 78

May/June: May, 80; Jun, 80 July/August: Jul, 76; Aug, 75 September/October: Sep, 77; Oct, 77

November/December: Nov, 85; Dec, 65

## Qualifying Runs

January 2009: Jan, 82 February 2009: Feb, 89 March 2009: Mar, 94 April 2009: Apr, 84 May 2009: May, 80 June 2009: Jun, 80 July 2009: Jul, 76 August 2009: Aug, 76 September 2009: Sep, 78

October 2009: Oct, 87; Fdbk: Nov, 44

November 2009: Nov, 86 December 2009: Dec, 65

## Operating Tip of the Month

CQ Concurso!: Apr, 83 Do The Math: Oct, 77

Feets Don't Fail Me Now!: Mar, 77

Fill It Up!: Jul, 75 Finger Foods: Sep, 77 Friendly Competition: Feb, 81 Get Focused: May, 79

Get Paddling: Aug, 75

Know When To Say When: Jun, 79

Laying a trap: Nov, 85

Performance Reviews: Dec, 65 Say It Loud, Say It Proud: Jan, 81

## Sean's Picks

Jan, 84; Feb, 81; Mar, 78; Apr, 83; May, 79; Jun, 80; Jul, 76; Aug, 76; Sep, 78; Oct, 87; Nov, 86

# **Section Managers (page 16)**

#### **Short Takes**

bhi Radio Mate Keypad for Yaesu FT-817, 857 and 897 Transceivers (Carcia): Jan, 69

Depiction Emergency Management Software (Friedman): Nov. 63

DX Engineering FCC050-H05-A Feed Line Current Choke (Ford): Apr, 74

eGenLog for Windows (Ford): Sep, 52

HamStationUltra: May, 60

KU4AB Model SQ-50 6-Meter Antenna (Ford): Jun, 60

microHAM USB Interface III (Ford): Dec, 47 RPC Electronics RTrak All-In-One APRS Tracker

(Wolfgang): Mar, 66

The PIEXX SO2Rxlt USB to LPT Translator (Smith): Aug,

59: Fdbk: Oct. 34

Ultra-RX1 Ultrasonic Receiver (Ford): Jul, 50

Weather Direct (Ford): Feb, 69

West Mountain Radio's RIGblaster duo (Smith): Oct, 57

# Silent Keys (lannone)

Jan, 99; Feb, 101; Mar, 101; Apr, 102; May, 99; Jun, 102; Jul, 101; Aug, 102; Sep, 100; Oct, 102; Nov, 102; Dec, 98

# **Special Events (Weinberg)**

Jan, 83; Feb, 89; Mar, 94; Apr, 88; May, 85; Jun, 92; Jul, 91; Aug, 82; Sep, 90; Oct, 93; Nov, 93; Dec, 92

#### Strays

1100 and Counting (issues of QST): Mar, 94 An Island on the Air? (Iota St) (Campi): Aug, 100 ARRL Award Nominations Are Open: Feb, 102 ARRL Life Member Bob Sullivan, WØYVA, receives #1

Honor Roll Plaque (Phillips): Feb, 89 Back to School (Gunderson): Jun, 97

Caitlyn Line, AE7AT, 11 year old Extra (Line): Nov, 84 Cal Cotner, K4JSI, Received Prestigious Satellite Award (Jespersen): Nov, 84

Canceling a Ham Radio License (Green): Jun, 100 Clubs to Compete on the Broadcast Band (Wolf): Jan, 97 Dave Zeph, W9ZRX, winner of the Indiana Radio Council Technical Excellence Award (Duffy): Feb, 98

DX Mail (Price): Mar, 88

EA to VE (Telegraph Cove sign) (Hidalgo): May, 86 Electronics Resource Expands (Poole): Feb, 102 Finnish Vintage Wireless Activity Day: Jan, 99 Getting an Earful of QST (Till): Aug, 100

Grateful ham bestows Elmer Award (W1NA) (Finocchio): Aug, 58

Ham Music (Allen and Michaud): Oct, 67

Horkheimer Prize 2009: Jan, 97

How the editor gets to work each morning? (License tag QST-LIMO) (Morris): Nov, 102

HPM Print Available (Vogan): Nov, 97

Hunting the Fox (Delaware Valley Radio Association) (Gingo): Aug, 100

International Year of Astronomy Ham Radio Initiative (Scrimger): Feb, 101

Kids Net (Kelsey Corley, KE7EBI) (Condon): Aug, 102

Linked at 40,000 Feet (Bettis): Nov. 95

MOPAR Features Ham Transceiver (Carlson): Nov, 84

One Simple Thing (Varounis): Nov, 95 Over to You, NS8T (Jones): Nov, 95

Show-off! (238-WPM license tag) (Balmforth): Nov, 84

Sign: Hamming Street (Schmidt): Sep, 100

Site Seeks Central US Radio History (McKee): Feb, 55 Some hams head to the hills, but (operating in Times

Square) (Klimkowski): Mar, 100 Stamp Site (Hillger): Apr, 102

The Ham Radio License Manual "Choosing a Ham Radio: Your Guide to Selecting the Right Equipment": Nov, 102

Trout feast (Shaheen): Nov, 84

Upload Your Tag (Atkinson): Feb, 102

USA and IARU-R2 ARDF Championships June 5-7 Near Boston (Moell): Apr, 102

Veterans Day at La Verna (TX) Elementary School (Terry): Jun, 102

W1AW Schedule Change: Apr, 73

W1AW to Add New Digital Modes to Transmission

Schedule: Sep, 100

Web Page Available for Second ARRL Homebrew Challenge Q&A (Hallas): Apr, 102 Your Call Here! (Sant Andrea): Jun, 98

#### In QEX

January/February 2009: Feb, 40 July/August 2009: Aug, 68 March/April 2009: May, 55 May/June 2009: Jun, 45

November/December 2008: Jan, 54 November/December 2009: Dec, 35 September/October 2009: Oct, 86

# I would like to get in touch with...

anyone with Motorola service manual for S133A (Ballieu): Sep, 100

Amateur Radio ops employed by Munich Reinsurance America Inc (Haydon): Jun, 62

amateurs of Hellenic origin (Contogenis): Nov, 97 anyone in financial services interested in Wall Street club (Gero): Nov. 97

anyone in financial services interested in Wall Street club (Nathan): Nov, 97

anyone who has used Isotron antennas (Perkins): Aug, 58 anyone who knew Dudley A. Buck (Dewey): June, 100 anyone who remembers Melvin F. Peterson, W6LRA (SK) (Peterson Rowland): Jul, 37

anyone with copy of QSLs for K4AMG Memorial ARC (Siff): Nov, 97

anyone with QSL card from Paul Conklin, K7LVT (SK). (Lindsey): Jan. 51

ham radio operators willing to survey section of Appalachian Trail (de la Torre): Mar, 100

hams at California State University or UC campus interested in emergency communications (Shiery): Jan, 58

hams who attended the Missouri Institute of Technology in 1978-79-80; or involved in their radio club (Campbell): June, 100

old QSL card from the original W2OR, Ernest Hufnagel (Murray): Mar, 82

schematic package for "An Advanced General-Coverage Amateur Receiver," by John Pitts, W6BD (SK), November 1970 QST (Landrigan): Sep, 100

someone to take over KIDS CLUB project (Wyatt): Oct, 44

# QST congratulates...

Bill Finch, W4EHF, world record holder for 1500 meter run among those 95-99 years old (Langley): Mar, 100 Danny Goodman, AE9F, *BeaconAid HF* released: June, 100

Danny Goodman, AE9F, iPhone app, iFeltThat, available from Apple: Jun, 102

Institute of Electrical and Electronics Engineers 125th anniversary May 12: Jun, 102

Jeff Murray, K1NSS, book "Lid, Kid, Space Cadet" published: Aug, 97

Jerry Spring, VE6CNU, ham radio humor book, Hogwash for Hamsters, has been published (Spring): Mar, 82 Jim DeLoach, WUØI, Foreign Service Manager Officer with US Dept of State: Mar, 100

Kevin Ready, N5KLR, People to People Student Ambassador Program: Mar, 100

Nathan Snook, AE5IG, featured in ScienceNOW (Laws): Mar, 94

Reynold L. (Fritz) Nitsch, W4NTO. 90th birthday and last surviving founding member of Spartanburg ARC (Donovan): Oct, 44

Richard M. Shappee, W5HQL, Honorary Life Member of Sons in Retirement: Aug, 97

Tom Cash, KI4VFV, Alabama Association of Emergency Manager 2009 Volunteer of the Year award (Sarratt): Oct, 44

#### **Technical Features**

160 and 80 Meter Matching Network for Your 43 Foot Vertical — Part 1 (Salas): Dec, 30

A 10 Meter Moxon Beam (Baker): Aug, 33

A 20 Meter Moxon Antenna (Banks): Apr, 37

A Better Way to Work Low Earth Orbit FM Satellites (Alvarez-Cienfuegos and Montana): Feb, 41

A Cell Phone Headset Adapter for Amateur Radio (Haines): May, 40

A Charger for that SLA Battery (side bar to Building a Docking Station for Your Handheld) (Ingle): May, 47

A Gel Cell Battery Charger for the Low Power Station (Bryce): Sep, 30

A High Gain Single Wire Beam (Wilson): Jul, 38; Fdbk: Aug, 43

A Junk Box Integrated Station Control System (Ingebright): Sep, 33

A Lightweight Homemade Keyer Paddle (Bloom): Jun, 46 A No-Special-Tools SMD Desoldering Technique

(Yoshida): Aug, 41

A Parallel Port Interface for Your Shack (Yerger): Jul, 35 A Removable HF/VHF/UHF Mobile Installation (Stone): Apr, 41

A Simple Transformer to Measure Your Antenna Current (Danzer): Sep, 35

A Sound Card Interface or FM Transceivers (Teller): Jun, 30; Fdbk: Jul, 37

A Universal Frequency Calibrator (Bryce): Nov, 35 An HF Roundtable with a Skype Based VoIP Bridge

(Drum, Ferguson and Krupsky): Sep, 40

An Ideal Plastic for Amateur Radio Projects (Wonoski): Oct. 42

An Inexpensive 12 V dc Power Distribution Box (Morgan): Oct, 35

An RFI Story with a Happy Ending (Kriss): Jul, 40 Antenna Patterns — What Do They Mean? (Hallas): Dec, 36

Bluetooth and Ham Radio or "Look Ma, No Hands!" (Knight): Aug, 44

Bob's Easy Assembly Surface-Mount Table (BEAST) (Miller): Feb, 37

Bring That WWII Command Set Receiver Back to Life (Salas): Jan, 73

Bringing an Early Solid State Transceiver into the 21st Century (van Stralen): Apr, 30

Build a Homebrew Radio Telescope (Spencer): Jun, 41 Building a 1927 Regenerative Receiver (Mattson): Jan, 33 Building a Docking Station for Your Handheld (Ingle): May, 45

- Building a Five Band G3TXQ Broadband Hexagonal Beam (Shoemaker): Mar, 30
- Designing and Building Transistor Linear Power Amplifiers (Campbell) Part 1: Feb, 30; Part 2: Mar, 40; Fdbk: Apr, 65
- Diamonds in the Sky (Teller): Aug, 30; Fdbk: Sep, 58 Electromagnetic Pulse and Its Implications for EmComm (Schroeder): Nov, 38
- Four Output Bench Supply (Cicchinelli): Aug, 37
- Hairpin Tuners for Matching Balanced Antenna Systems (Stanley): Apr, 34
- Homebrew Coaxial Dipole for VHF or UHF (Portune): Jul, 33; Fdbk: Aug, 43
- How I Installed a Ham Shack in My SUV and Fixed the Noise (Wilson): May, 37
- How the Ionosphere Was Discovered (Welsh): Dec, 37 Improving a 30 Year Old, 2 Meter, Four Element Beam (Hopkins): Nov, 42
- Keeping Current with Antenna Performance (Nichols): Feb, 34
- Low Cost QSK Conversion for the Ameritron ALS-600 HF Amplifier (Salas): Jun, 47
- Measuring Radio Frequencies (Shrader): Sep, 36; Fdbk: Nov. 44
- My Freestanding 2 Meter J Pole Antenna (Hannon): Mar, 44
- Removable Car Window Antenna with Cross Over Connector (Morin): Nov, 45
- Repair and Calibrate Those Wattmeter "Slugs" with Confidence (Glenn): Nov, 50
- Resurrecting a Command Set Transmitter (Hanlon): Jan, 39
- See Your Mobile Controls at Night with Superbright LEDs (Merkley): May, 34
- Simple Mobile Transceiver Protection (Hensel): Oct, 33 Squeezing the Next Lower Band Out of Your Big HF Loop (Robertson): Oct, 36
- The 3YØX Peter I Island 160 Meter Beam (Gaddie and Streible): Mar, 37
- The Antenna Dipper (McCann): Nov, 53; *Fdbk: Dec, 32* The Collins 30L-1 Linear Amplifier Nearing 50, Still Going Strong (Archibald): Dec, 33
- The Finger Wiggle Paddle (Danzer): Nov, 48
- The Ignition Switch (Mahnker): Aug, 42
- The KL7CE No Holes Mobile Installation (Gregory): Oct, 39
- The No Excuses 160 Meter Vertical (Miller): Jun, 32
- The Quadrifilar Helix as a 2 Meter Base Station Antenna (Portune): Oct, 30
- The Quick and Easy Balloon Assisted Low Band Loop Antenna (DeLoach): Jan, 30
- The Rockless, a VFO Controlled Low Power Transceiver (Patzlaff): Nov, 30
- Traipsing Around the Smith Chart (sidebar to Squeezing the Next Lower Band Out of Your Big HF Loop) (Robertson): Oct, 37
- Troubleshooting Radios (Eiselman): May, 30
- Try "Weak Signal" Digital FM (sidebar to A Sound Card Interface or FM Transceivers) (Teller): Jun, 31
- Vocal Keyer (Baker): Jun, 37
- What's the Best Height for My HF Beam? (Hunt): May, 43

- When Radio Transmitters Were Machines (Shrader): Jan, 36
- Where is Bob? (Bellini): Apr, 51; *Fdbk: May, 55* Zip Cord Antennas and Feed Lines For Portable Applications (Parmley): Mar, 34

# Table of Contents (pages 4 and 5)

# **Technical Correspondence**

- Antennas in Trees (The Doctor is IN, April 2007 QST) (Sehring): Mar, 53
- Building a Ferrite Core Antenna Current Probe (Wolff): Aug. 53
- Cleaning Up AGC-Induced Audio Distortion in the Yaesu FT-1000 (McLellan): Aug, 53
- Daiwa CN-801 HP Wattmeter Modification (Rose-Round): Oct, 52
- Magnetospheric Ducting as an Explanation for Delayed 3.5 MHz Signals (Holm): Mar, 54
- "Over Clocking" Your Transceiver (Albert): May, 56
- Power to the People with a DC Distribution System (Sep 2008 QST) (Jubon): Mar, 54
- Remote Control of the Amateur Station Using Windows Remote Desktop (RDP) (Jan 2009 QST Technical Correspondence) (Brown, Kluck): Mar, 53
- Remote Control of the Amateur Station (April 2007 QST) (Hayman, Kluck): Jan, 50
- The Ultimate DX: An Around the Earth Path (Technical Correspondence, June 2007 QST): Early Delay Measurements (Ewing): Mar, 53
- The Universal Keying Module (Nov 2008 QST) (Cieslak): May, 57
- What's the Best Height for My HF Beam? (May 2009 QST) (Siwiak, Straw): Oct, 54

#### The Doctor is IN

Jan, 67; Feb, 67; Mar, 64; Apr, 72; May, 58; Jun, 58; Jul, 48; Aug, 55; Sep, 50;Oct, 55; Nov, 61; Dec, 45

# The World Above 50 MHz (Zimmerman)

144 MHz Standings: Jun, 91 222 MHz Standings: Sep, 89 432 MHz Standings: Dec, 91

A Tale of Two 33 cm Calling Frequencies: Jan, 87 Commercial Digital TV and the VHF+ World: Feb, 92 Comparing VHF+ IF Strips: Mar, 89; *Fdbk: Apr, 65* Determining and Maintaining Frequency: Jun, 89

Distance Scoring: May, 89 DXpeditions of Summer: Nov, 90

Earth-Moon-Earth Annual Standings: Mar, 91

Long Distance Es Propagation on 50 MHz at Solar Cycle Minimum — Part 1: Jul, 88; Part 2: Aug, 86

dianamentalia and lan 00

Microwave Standings: Jan, 89

New Blood: Dec, 89

The FFMA and the Rarest 6 Meter Grids: Apr. 91

The Unfixables (Ragchewers on the Calling Frequencies; Working non-DX in the 6 Meter DX Window; QSL

Cards): Sep, 87

Two Meter E-Skip in July: Oct, 90

#### Here and There

2009 2 GHz and Up World Wide Club Contest; Spring Sprints; Fifth 6 Meter Marathon; Summer Es Contest; WHF Weak Signal Group Banquet at Dayton Hamvention: May, 91

2009 CQ World Wide VHF Contest; Central States VHF Society 2009 Conference: Mali TZ DXpedition: Guyana 8R DXpedition: Jul, 90

2009 ARRL International EME Competition; Microwave Update: Fall Springs: Information technology note: Errata September 2009 QST World Above column: Oct,

35th Annual Eastern VHF/UHF Conference: Thirteenth Annual SVHF Conference; Spring Sprints; Chip Brown, KR1P, Silent Key; New VUAC Chairman (Kermit Carlson, W9XA): Apr, 93

ARRL January VHF Sweepstakes; Quadrantides Meteor Shower; GJTracker Released; Tom Baker, K8MMM, Silent Key: Jan, 89

ARRL September VHF QSO Party; ARRL 10 GHz and Up Contest; Fall Sprints; Ted Collins, G4UPS, Silent Kev: Sep. 89

August UHF Contest; Perseids Meteor Shower; ARRL 10 GHz and Up Contest: Aug. 88

Brendan Awards; First WAC on 13 cm; Rex Turner, W5RCI, Silent Key: Mar, 91

Geminids Meteor Shower; North American VHF WSJT 2009 Geminids Test: Dec, 91

June ARRL VHF QSO Party; 2009 SMIRK QSO Party; San Andres DXpedition; New spotting service for 2 meter E<sub>s</sub>: Jun, 91

Leonids Meteor Shower; 2009 ARRL International EME Contest; Beacon News; Jack Spencer, W9YF, Silent Key; Phil Patterson, W5SFW, Silent Key: Nov, 92

Lewis and Clark Awards Program Announced; First FFMA Presented: Feb, 94

# On the Bands

6 meters; 2 meter E<sub>s</sub> in New Zealand; E51 EME DXpedition: Mar, 91

6 meters; EME: Jun, 91

6 Meters; Microwaves; Meteor Scatter: May, 91 6 meters; Tropospheric Ducting; EME: Apr, 93

6 Meters; Tropospheric Ducting; EME: Aug, 88

6 meters; Tropospheric Ducting; Meteor Scatter: Jan, 88 6 Meters; 2 Meter E-Skip; Tropospheric ducting: Sep, 88;

Oct. 92

EME; 6 Meters, Tropospheric Ducting: Feb, 94

Other 2 Meter Es; 6 Meters; Tropospheric Ducting: Oct, 92

Tropospheric Ducting: 6 Meters: Jul, 90

Tropospheric Ducting; Contests; 6 meters; Microwaves:

Tropospheric Ducting; Meteor Scatter; 6 Meters: Nov, 92

# This Month

Jan, 87; Feb, 92; Mar, 89; Apr, 91; May, 89; Jun, 89; Jul, 88; Aug, 86; Sep, 87; Oct, 90; Nov, 90; Dec, 89

# This Just In

Alabama OECs to Install D-STAR Gear (Sarratt): Jan, 13 Area Hams Help at Super Bowl XLII in Tampa (Johnson): Apr, 13

ARRL Board meets in Connecticut (photo) (Kleinman): Sep. 13

At the Capital City Hamfest in Jackson, MI (Bullock): Apr, 12

At the Ecomm Hamfest/ARRL Utah State Convention (Kramer and Zundel): Jul, 13

Board of Directors Holds 2009 Annual Meeting (photo) (Kleinman): Mar, 12

Cover Boy (Randy Mitchell, KJ6BXV) (Smith): Nov, 13 Distinguished FD Visitor (US Congresswoman Sheila Jackson Lee): Sep. 13

DIY Ham Radio at 2009 Maker Faire (Inderbitzen): Aug,

"DXpedition" for a Good Cause (Shelley): Jun, 13

EmComm East (Kramer): Dec, 13

First Triple Play Award: And the Winner is...Dave Strout, W2YC (Gehring): Jul, 12

Ham Radio Represented at Nuclear Sub's Farewell (Wruble): Feb, 13

Hams Help FCC Spread Word about DTV Conversion (Malev): Mav. 13

Instructor of the Year W5BL (Woolweaver): Jan. 13 Louisiana Science Museum Now Staffed by Hams (Gore):

Marconi Centenary (Taylor): Sep, 13

NAB Show Brings Hams (and others) to Vegas (Heyn):

New Rig for W1AW (Yaesu FTDX9000D) (Kleinman): Mar, 13

NJ Scouts Fly High (Wilson): Apr, 13

Puerto Rico Hams Meet with Communications Director of AEMEAD (Santana): Dec. 13

RIT ARC promotes AR (Salmi): Nov. 13

Section Manager Lineup at March 7-8, 2009 Radiofest Monterey Bay (Kramer): May, 12; Fdbk: Jun, 98

Special Event Station K2IRT Active as USS Intrepid Returns (Lobenstein): Feb, 12

The whole ham family (Johnson): Oct, 13

The Year's AES Superfest a Success (Michalski): Jun, 13

Third Annual Space Jam (Walker): Oct, 13

Youngster Earns DXCC (Tristan Hube, KJ4BIW) (Neill): Mar. 13

#### In Brief (by month)

Mickey Cox, K5MC, new ARRL Delta Division Director; David Norris, K5UZ, new Delta Division Vice Director; Gary Johnston, KI4LA, re-elected Great Lakes Division Vice Director; The ARRL Satellite Handbook and The ARRL Digital Technology for Emergency Communications Course are available; 2008 Field Day results available online; USTTI Course at ARRL; FCC authorizes WE2XRH experimental license; IBM deal with Int'l Broadband Electric Communications; IARU Region 1 Conference in Cavtat, Croatia; Hurricane Paloma: W1AW in 2008 Global Simulated Emergency Test; George Steber, WB9VLI, October Cover Plaque winner; online courses; ARRL November Sweepstakes; ARRL International EME Competition; ARRL Fall Frequency Measuring Test: Jan, 12

ARISS 25th anniversary; ARES, RACES, SKYWARN and MARS in New England ice storm recovery; US House Committee on Energy report on RCC regulatory

processes and management; FCC requests ARRL assistance in digital TV conversion; ARRL Triple Play WAS; Diane Petrilli, KB1RNF, ARRL Membership Manager; DXCC operations approved for WA2YUN/KH9; VK9DWX and VU4RG; Larry Coyle, K1QW, November 2008 QST Cover Plaque Award; ARRL online courses; ARRL 160 M Contest; ARRL 10 M Contest: Feb, 12

- Board of Directors meet, Jan 16-17, Windsor CT. Coy Day, N5OK, announces his resignation; 2008 ARRL Periodicals on CD-ROM is available; Julius Genachowski chosen as next FCC Chairman; Kevin J. Martin resigned from FCC Jan 20; Dayton Hamvention accepting nominations for 2009 awards, Foundation for Amateur Radio accepting applications for scholarships; Oregon hams staffed 9-1-1 center during power outage; hams in southern California working to persuade Palmdale to reconsider ordinance that restricts antennas and support structures; David J. Strout Sr, W2YC, first Triple Play Award winner; T61AA license operation updated; Gary L. Robinson, WB8ROL, December QST Cover Plaque winner; ARRL online courses: Mar, 12
- Mobile Amateur Radio operations policy; digital television conversion; 3 IEEE standards on BPL; Oklahoma hams alert National Weather Service; ARES and MARS volunteers assist in Kentucky and other states; W1AW Schedule change; 2008 TT8JT DXpedition to Chad approved for DXCC credit; Jim Smith, VK9NS, Silent Key; Palmdale, California antenna ruling; Second ARRL Homebrew Challenge; January 2009 QST Cover Plaque winner William E. Packard, NN9U; ARRL on-line courses: Apr, 12
- Julius Genachowski nominated as FCC Chairman; Fifth Global Amateur Radio Emergency Communications Conference hosted by JARL Aug 24-25, 2009; FCC Special Counsel Laura Smith visits ARRL; Registration Open for Amateur Radio Directions Finding Championship June 5-7, 2009; Train the Trainers course first appearance at HamCation Feb 13-14, 2009; Bob Cooke, VE3BDB, President RAC; John Kanzius, K3TUP; Silent Key, Richard Garriott, W5KWQ, will attend ARRL National Convention; 2009 World Amateur Radio Day theme is Your Resource in Disaster and Emergency Communication; Rick Campbell, KK7B, February 2009 QST Cover Plaque winner; ARRL on-line courses: May, 12
- Hams provide backup during San Jose, CA infrastructure emergency; ARRL expressed concern as to what constitutes "broadband" re American Recovery and Reinvestment Act of 2009; ARRL expressed concerns over "farm bill"; tornados in AL, TN, AR and GA; 11th Annual Communications Academy in Seattle; ND floods; L'Aquila, Italy, earthquake; Goldfarb award to Dean LaBarba, KI6CUX; Dayton ARA Dayton Hamvention awards; 31st National Hurricane Conference; 2 new PSAs Field Day and Amateur Radio's technical side; Bill to mandate inventory of radio spectrum bands; Frank Bauer, KA3HDO, steps down from ARISS duties; March QST cover plaque to Byron Black, W4SSY; Online courses: Jun, 12
- ARRL CEO visits Rep Sheila Jackson-Lee (D-TX), thanking her for support of HR 2160; ARRL National

Convention at Dayton Hamvention; FCC releases portions of 2004 BPL rulemaking; FCC enforcement actions posted; PIO Excellence Awards; Solar Cycle 24 to peak in 2013; Sandy Donahue, W4RU, Silent Key; Mignon Clyburn nominated as FCC Commissioner; ARRL Foundation awards 52 scholarships; S04R and E51QQQ approved for DXCC; April 2009 QST Cover Plaque to Larry Banks, W1DYJ; ARRL online courses: Jul, 12

- Pacific Division Vice Director Oppel, N6AJO, resigns, Tiemstra, K6JAT appointed; Jeffrey Beals, WA4AW, appointed SE Division Vice Director; Julius Genachowski chairman of FCC; Field Day; HR 2160 gains House co-sponsors; ARRL Teachers Institute on Wireless Technology; Contest changes; HZ1EA approved for DXCC; Mal Eiselman, NC4L, May QST Cover Plaque Award winner; Online courses: Aug, 12
- ARRL Board of Directors meets; Julius Genachowski chairman FCC; FCC Request for Further Comment and Further Notice of Proposed Rulemaking; ARRL asks US Court of Appeals to order FCC comply with BPL decision; Space Shuttle Endeavour; W1AW replaces AMTOR and ASCII with PSK31 and MFSK-16; HPM/140 Special Event; HR 2160 19 sponsors; World Radiocommunication Conference set for 2012; ARRL Teachers Institute on Wireless Technology; Larry Price, W4RA, honored at Ham Radio 2009; John Miller, K6MM, June QST Cover Plaque winner; ARRL online courses: Sep, 12
- Lockheed Fire; letter to National Safety Council regarding ham radio vs cell phone use; HR 2160 support; Preparing for Hurricane Bill; Hiram Percy Maxim Birthday Special Event; FCC Twitter Page; comments in response to FCC rulemaking on medical devices using 70 cm band; WX4NHX featured in Duracell battery radio spot; 7O1YGH accepted for DXCC; vanity call sign fee increases; ARRL Teachers Institute wrap up; Attwell Baker and Mignon Clyburn new FCC commissioners; MFJ purchases Cushcraft; FCC citation to Future Hobbies; July QST Cover Plaque Award to Robert Wilson, AL7KK/VE7ZKK; online courses: Oct. 12
- SumbandilaSat; ARRL/TAPR Digital Conference; RF Concepts purchased Alpha Radio Products; more support for HR 2160; NSC does not support ban on Amateur Radio while driving; CEPT changes; Tokyo Ham Fair; Fifth Global Amateur Radio Emergency Communications Conference (GAREC 2009); GLA Systems will stop taking orders for new antennas; 140th anniversary/birthday of Hiram Percy Maxim; STS-128; 2009 Field Day logs received; Allen Baker, KG4JJH, August Cover Plaque Award winner; online courses: Nov, 12
- ARRL BoD adopts guidelines on appropriate use of Amateur Radio; FCC Public Notice clarifying rules using Amateur Radio during drills on behalf of employer; Senate Bill 1755 The Amateur Radio Emergency Communications Enhancement Act of 2009; 14th Triennial Conference of IARU Region 3; Brian Plumb, KE7HNW, provides CPR to runner in St George (UT) Marathon; ARRL Letter now in HTML format; Simulated Emergency Test Oct 3-4; Global Emergency Radio Coalition and Amateur Radio Administration course at

ARRL; 2009 AMSAT Space Symposium; 2010 World Radiosport Team Championships to be held near Moscow, select 44 team leaders; Three killed in FL installing antenna; 2010 ARRL Handbook available for sale; FCC Notice of Apparent Liability for Forfeiture to CA firm; September QST Cover Plaque Award winner Paul Danzer, N1II; Online courses: Dec. 12

# Inside HQ (Kramer)

2008 Year-End Review: Feb, 13

Bit by Bit: Dec, 13

Emergency Communications Courses Update: Jun, 13

Further QST Improvements: May, 13

How Are We Doing?: Aug, 12

New, Improved ARRL Letter: Nov, 13

The 2010 ARRL Handbook: Oct, 13

The ARRL Teachers Institutes: Jan, 13

The ARRL Technical Relations Office: Jul, 13 The Regulatory Information Department: Mar, 13

Triple Play Award; QST Updates: Apr, 13

Inside HQ: Why Perform Public Service?: Sep, 13

## Media Hits (by month)

Many stories on Richard Garriott, W5KWQ, ISS contacts; Scouts' Jamboree On The Air (JOTA); Herald-Zeitung (New Braunfels, TX; Star Community Newspapers (Plano, TX); Pittsburgh Tribune Review (PA); Flathead Beacon (Kalispell, MT); The Salt Lake Tribune (UT); Seattle Post-Intelligencer (WA); Above Ground Level; Pumpkins Patrols; ham-assisted rescues; The Daily Breeze (Torrance, CA) and Sail-World.com: Jan, 12

The Great Shakeout; Union Tribune (San Diego, CA);
Orange County Register (Santa Ana, CA); Malibu
Chamber of Commerce Web site; Press Enterprise
(PE.com); The Union (El Camino College, CA); KESQTV News 3; Rolling Ranchos Web news (Lomita, CA);
Delta County Independent (Delta, CO); SKYWARN
Recognition Day - several radio/TV stations; The
Wichita Eagle (Wichita, KS); Times Herald
(Bloomington, IN); The Morning News (Springdale, AR);
Cambridge (OH) ARA 95th birthday; Independent
(Gallup, NM); NBC-25 TV Charleston, WV: Feb, 12

KING-5 TV (Seattle); The Daily Astorian (Astoria, OR); Brunswick Times Record (Brunswick, ME); Newsweek Magazine; QXR (South Africa); Ohio Dept of Education Web Story; Ann Arbor Chronicle (Ann Arbor, MI); Eagle Herald (Menominee, WI); Florida Today (Melbourne, FL); UA Fort Smith News (AR); The Independent Press (NJ); Daily Gazette (Schenectady, NY); the Backwoodsman magazine: Mar, 12

WFYI-TV20 Indiana; New Mexico Amateur Radio Alliance; Field & Stream; MSNBC; Nashua Telegraph (NH); HSEM Newsletter (NH Homeland Security and Emergency Management); Lexington Herald-Leader (KY); kentucky.com; Paducah Sun and WBKO-TV (Bowling Green, KY); CNN: Apr, 12

Media Hits: ModernPrincess.com; Pittsburgh Post-Gazette; Antarctic Sun; Signal Magazine; Popular Science; www.legion.org; authorities blow up found equipment, Omaha, NE; two new Public Service Announcements available: May, 12 Daily Times-Call (Longmont, CO); The Mercury News (San Jose, CA); Santa Cruz Sentinel; Mesquite Local News (Mesquite, NV); Forum (Fargo, ND); Public Safety Communications; Drive magazine; Paradise Post (CA); Bridge News (NC); Daily Dunkin Democrat (MO): Jun, 12

BusinessInsider.com (NY); Morgan Hill Times (CA); Oakland Tribune, Contra Costa Times, Bay Area News Group and InsideBayArea.com (CA); Times Herald (Vallejo, CA); BBC World News Service; Arizona Daily Star (Tucson, AZ); Ham Radio Heroes; WBOY-TV and State Journal (Charleston, WV): Jul, 12

Ars Technica (Arstechnica.com); Make Magazine (Makezine.com); Lab News; DesignNews.com; KTVA-TV (Anchorage, AK); The Plain Dealer (Cleveland, OH); Record Courier (Gardnerville, NV); TriValley Herald (Pleasanton, CA); Daily Herald (Palatine IL): Aug, 12

PRNewswire-Reuters billboards Times Square NY and Las Vegas NV; Marion OH ARC repeated Jay Leno segment on CW vs cell phone; ClearChannel Radio Harrisburg PA; FD moonbounce activity and 40th anniversary of Apollo 11; Discover Magazine; The Bridge, Electrical and Computer Engineering Honor Society; WDAF-Fox 4 TV: Sep, 12

Available PR resources: Oct, 12

Radio World; St John Source (USVI); Chicago Tribune; Evanston Review (IN); Philadelphia Inquirer; Los Angeles Times; The Iowan Magazine; Make Magazine; News Republic (Baraboo, WI); Compass magazine; Homeland Security News and Trends; Wilmington Star News; www.voanews.com: Nov, 12

www.wedothat-radio.org; HP in Real Life (hp.com); TUAW—the unofficial Apple weblog; The Mercury News (San Jose, CA); www.hak5.org; Popular Mechanics; "open source" style technologies—Linux Journal: Dec. 12

## **Up Front**

A Tale of Two Field Days: Balloon Experiment Brings Field Day Elation and Frustration (Cote): Jun, 20 A Tale of Two Field Days: Greenhorn Field Day (VanDenAkker): Jun, 20

An Assemblage of Antennas: Remembering the Woodpecker (Kleinman): Mar, 20

An Assemblage of Antennas: US Tower Crank-Up (Miller): Mar, 20

Antarctic Awards Available in the International Polar Year (Strecke): Feb. 20

Antique Wireless Association Sponsors Vintage Equipment Contests (AWA Museum): Jan, 20 APRS Map Shows Activity (and Holes) (Bruninga): May, 20

ARRL Field Day, June 27-28, 2009: May, 20
Balloons over clubhouse (Davis): Nov, 20
Behind Enemy Lines (Hardman and Sagers): Aug, 20
By the glow of a vacuum tube (Angle): Jan, 20
Club Offers Honorary Membership to USS Hornet
Veterans (Heyman): Oct, 20

DX Window (Brown): Dec, 20

Enter the 4th Annual Photo Contest! (Kleinman): Apr, 20

First Phone SS a Success (Tharp): Feb, 20

Hams Assist at Sled Dog Marathon (Leslie): Apr, 20

He lived at QST (Gille): Jul, 20

Helium and Ham Radio (Schwoebel): Apr, 20

HPM/140 Birthday Celebration Event Coming September 2-9: Sep. 20

Long may it wave (Brown): May, 20

Low-key Marconi plaque (Lichtman): Nov, 20

Miniature Analyzer Circuit Available — for Free! (Bennett): May. 20

Mother Nature Tested Our Tower — It Failed (DeVore): Nov. 20

My Friend Woody (Hardman): Feb, 20

New ham: Gabrielle Kalli-May Liu, KJ4MXC (Liu): Oct, 20 Nothing Beats Copying CW on an ALL CAPS Mill

(Hamblin): Jan, 20

Plume of Steam from Mount St Helens: Cascade Radio Club celebrated 60 years of ARRL affiliation (Attwell): Jul. 20

Potato Power (Cleveland, TN, ARC) (Wooley): Oct, 20 QST is Deep (Sperley): Jul, 20

Senator Goldwater, K7UGA, Born 100 Years Ago: Jan, 20 Special QSL, Special Family (Montgomerys) (Swiderski): Dec, 20

The Many Faces of Field Day: Show and tell (Wellesley ARC) (Brown): Dec. 20

The Many Faces of Field Day: Still smiling after all these years (Sam Scholes, KG2HA) (Koehler): Dec, 20

The Many Faces of Field Day: Telling the world (Hamilton County, IN, RACES) (Sans): Dec, 20

The Many Faces of Field Day: Young GOTA op (Marin ARS and Redwood Empire DX Association) (Bagshaw): Dec. 20

Towering sunset (Hughes): Nov, 20

Venturing Crew 9050 and W8ZHO (Mills): Mar, 20 Wide-Eyed Second-Graders Visit Marconi Shack (Pav): Jul, 20

## VHF/UHF Century Club Awards (Taratula)

Feb, 94; Apr, 88; Jun, 88; Aug, 88 Oct, 94; Dec, 91

### Vintage Radio (Dilks)

W9ARZ, Brian Voth: Jan, 93

A Ham, a Hamfest, a Love Story and a Bottle of Beer:

Bud Waite, W2ZK, Polar Pioneer (SK): Nov, 96

Displaying Your Collection: Sep, 92

Everett Sutton, 7DJ, Port Angeles, Washington: May, 93 Jack Barnsley, 9BP, Prince Rupert, British Columbia: Apr, 99

Memoirs of Old Timers: Oct, 95

Rodney Pratt, K2AFK, Satellite Pioneer: Jul, 94

Ted Crosby, W6TC, and the HBR Receiver (Helms): Feb,

The MARS Program: Dec, 95 Tuckerton Wireless: Jun, 95

Update, November 2008 QST Vintage Radio Column:

Feb, 97

Vintage Ham Scopes: Aug, 96

## W1AW Schedule

Jan, 100; Mar, 102; Jul, 101, Fdbk: Aug, 43; Oct, 102

#### Workbench

An Easy to Build 500 W Mini Balun (Burke): Mar, 74 Announcement — Second ARRL Homebrew Challenge (Hallas): Feb, 75; Fdbk: Apr, 65

Automatic Fan Control for HF Amplifiers (Bryce): Feb, 70

Build a Battery In a Box (Gauger): Feb, 76

PSK — 10 Years On (Ford): Apr, 77

Shop Safety (Daso): Jan, 70

Superior Audio from a \$5 Boom Arm Mic (Wagner): Apr, 78; Fdbk: May, 55

Switch to Safety! (sidebar to Automatic Fan Control for HF Amplifiers) (Bryce): Feb, 72

The W4SSY Spudgun (Black): Mar, 67; Fdbk: Apr, 65 You Have Your First HF Antenna — Time for Another? (Hallas): Jan, 78