



VOLUME 57 ISSUE 07

July 2007



Colorado QSO Party!

1200Z July 15—0400Z July 16, 2007

www.ppraa.org/coqp

The Colorado QSO Party is nearly here. Don't miss your opportunity to participate. We will operate from 1200 UTC 15 July 2007 until 0400 UTC 16 July 2007 (6AM - 10PM MDT).

Participants may earn one or more of fifty sponsored plaques and over half the Colorado counties will have coverage. We expect to receive notice before the contest that more counties will be covered.

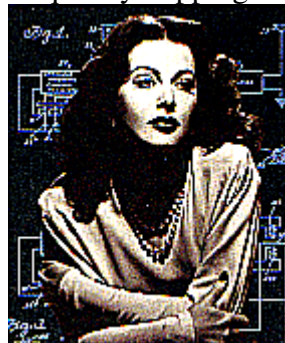
The Colorado QSO party has drawn local and national interest and the field is wide open. You don't need a lot of experience in contesting or expensive equipment to participate. To find out how easy it will be, go to the COQP website at <http://www.ppraa.org/coqp/> for all the details you will need to know. Operate for an hour or the full sixteen hours, from your QTH or get on the road and fire up your mobile transceiver. You choose the mode and power. Just fire up the rig, get set and operate. Remember, it's not about winning a nice plaque for your wall of honors or a beautiful multicolored certificate suitable for framing, the Colorado QSO Party is about getting on the air and enjoying the magic of amateur radio.

73 and I hope to hear you on the air,

Jim Harris, ABØUK

In Other Words . . .

Amateur radio and modern communications is built on brilliance and innovation, and an ability to see things in a different light. One such pioneer was Hedy Lamarr, probably best known as a beautiful movie star, one of the brains behind frequency hopping.



Today, frequency hopping is used extensively in military communications, broadcasting a signal over a seemingly random series of radio frequencies, switching from frequency to frequency at split-second intervals. A receiver hopping between frequencies in sync with the transmitter can pick up the message, while eavesdroppers only hear random blips. An attempt to jam such a signal—jamming was and remains a drawback to radio control—knocks out only bits of it, often leaving enough untouched to do no harm at all. It was originally designed to keep torpedo commands from being disrupted, and all due to the pioneering spirit and brains of this beauty.

Hedy Lamarr was born in Vienna in 1914 as Hedwig Eva Maria Kiesler. She went to Max Reinhardt's famous acting school in Berlin during her late teens, and in 1933 she showed the world her acting skills and most of herself in the film *Extase* (*Ecstasy*), which quickly became notorious for its extensive nude scenes. The movie played

Cont'd...

America after severe cutting, and in 1937 its leading lady went to Hollywood. Louis B. Mayer of MGM hired her and gave her the name Lamarr. Some people thought Hedy to be the most beautiful woman in Hollywood, but as an actress she was overshadowed by heroines like Ingrid Bergman and Katharine Hepburn. In 1966, she published her autobiography, *Ecstasy and Me*.

Hedy Lamarr married Fritz Mandl, the first of six husbands, in 1933. During their marriage, which broke up in 1937, Madame Mandl was an institution in Viennese society, entertaining—and dazzling—foreign leaders, including Hitler and Mussolini. Her husband specialized in shells and grenades, but from the mid-thirties on he also manufactured military aircraft. He was interested in control systems and conducted research in the field. His wife clearly learned things from him, because she and her co-inventor, George Antheil, later went on to invent the torpedo guidance system that was two decades before its time.

Hedy Lamarr's co-inventor, George Antheil, was born in Trenton, New Jersey in 1900. His parents were from East Prussia. After studying music at what is now the Curtis Institute, in Philadelphia, he went to Europe to pursue a career as a concert pianist, heading first to Berlin and then settling in Paris in 1923. He became one of the top avant-garde composers of the time, writing and playing machinelike, "mechanistic," rhythmically propulsive pieces with names like *Airplane Sonata*, *Sonata Sauvage*, *Jazz Sonata*, and *Death of Machines*. His *Ballet Méanique* was scored for sixteen player pianos, xylophones and percussion and was first performed in Paris in June 1926, in a version that had only one player piano but also had electric bells, airplane propellers and a siren. It caused an uproar.

Antheil knew practically everybody in Paris's literary, artistic and musical circles, but in 1933 he returned permanently to the United States. He became a film composer in Hollywood and a writer for *Esquire* magazine, producing a syndicated advice-to-the-lovelorn column and articles about romance and endocrinology. He even published a book titled *Every Man His Own Detective: A Study of Glandular Endocrinology*.

In 1939 he set an article to *Esquire* about the future of Europe that proved impressively accurate: It predicted that the war would start with Germany invading Poland, that Germany would later attack Russia, and then the United States would be drawn into the conflict.

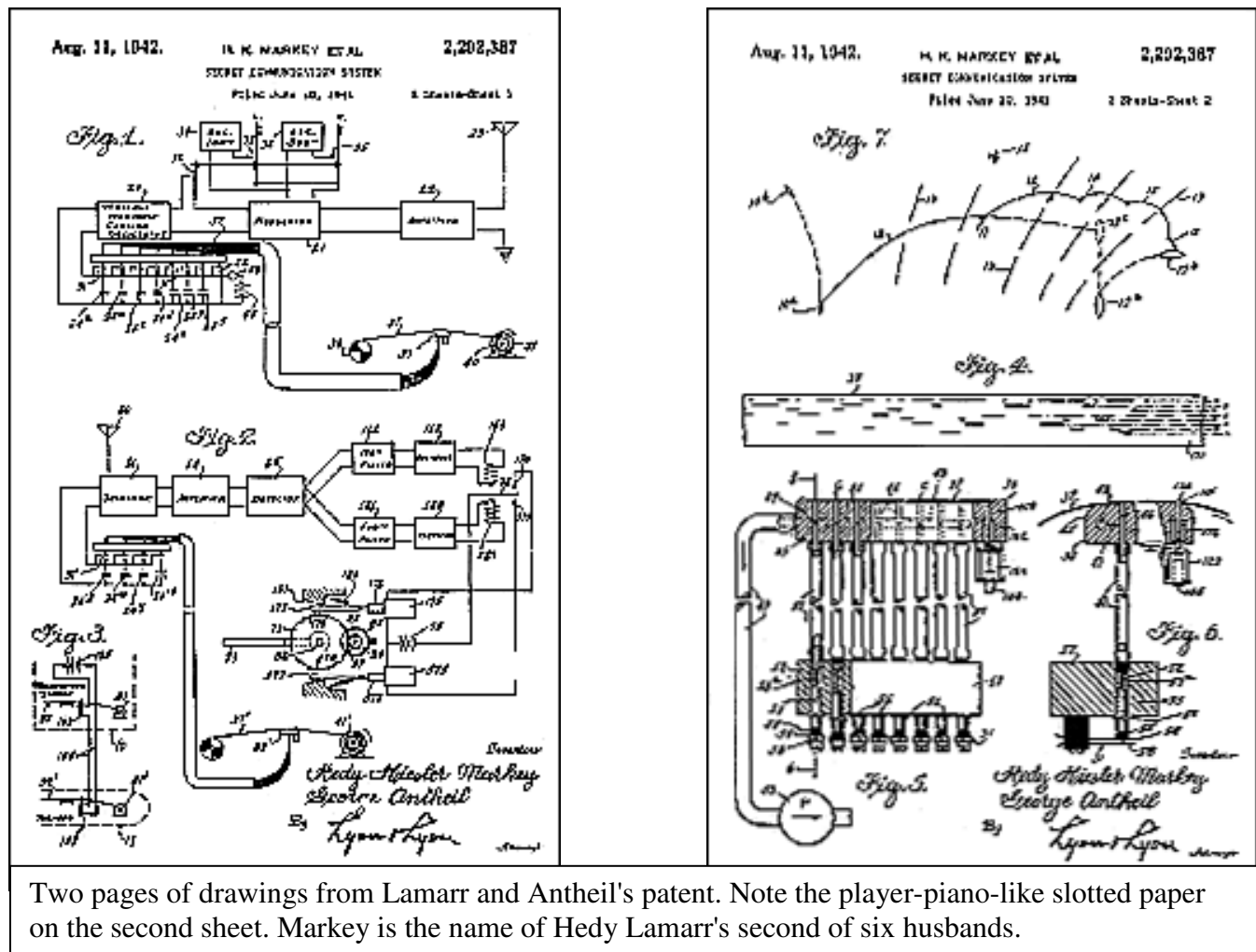
He met Hedy Lamar in the summer of 1940, when they were neighbors in Hollywood and she approached him with a question about glands: She wanted to know how she could enlarge her breasts. In time the conversation came around to weapons, and Lamarr told Antheil that she was contemplating quitting MGM and moving to Washington, D.C., to offer her services to the newly established National Inventors Council.

They began talking about radio control for torpedoes. The idea itself was not new, but her concept of "frequency hopping" was. Lamarr brought up the idea of radio control. Antheil's contribution was to suggest the device by which synchronization could be achieved. He proposed that rapid changes in radio frequencies could be coordinated the way he had coordinated the sixteen synchronized player pianos in his *Ballet Méanique*. The analogy was complete in his mind: By the time the two applied for a patent on a "Secret Communication System," on June 10, 1941, the invention used slotted paper rolls similar to player-piano rolls to synchronize the frequency changes in transmitter and receiver, and it even called for exactly eighty-eight frequencies, the number of keys on a piano.

Lamarr and Antheil worked on the idea for several months and then, in December 1940, sent a description of it to the National Inventors Council, which had been launched with much fanfare earlier in the year as a gatherer of novel ideas and inventions from the general public. Its chairman was Charles F. Kettering, the research director of General Motors. Over its lifetime, which lasted until 1974, the council collected more than 625,000 suggestions, few of which ever reached the patent stage. But according to Antheil, Kettering himself suggested that he and Lamarr

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develop their idea to the point of being patentable. With the help of an electrical engineering professor from the California Institute of Technology, they ironed out the bugs, and the patent was granted on August 11, 1942. It specified that a high-altitude observation plane could steer the torpedo from the air.



Putting the idea into practice was not so simple. Despite the enthusiasm that Anthell said Kettering expressed, others were skeptical. One examiner at the Inventors Council doubted the clockwork mechanism that moved the perforated tape could be accurate enough. Anthell lobbied for support for further research from among others, William C. Bullit, Special Assistant to the Secretary of the Navy. He argued that the Germans were superior to the Americans in naval technology and that something had to be done about it. He seemed driven in part by an urge to prove his patriotism after all his years in Europe. Hedy Lamarr meanwhile demonstrated her loyalty by raising seven million dollars in a single evening selling war bonds.

Despite Anthell's lobbying, the Navy turned its back on the invention, concluding that the mechanism would have been too bulky to fit into a torpedo. Anthell disagreed; he insisted that it could be made small enough to squeeze into a watch. And he thought he knew why the Navy was so negative: "In our patent Hedy and I attempted to better elucidate our mechanism by explaining that certain parts of it worked like the fundamental mechanism of a player piano. Here, undoubtedly, we made our mistake. The reverend and brass-headed gentlemen in Washington who examined our invention read no further than the words 'player piano'.

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'My god,' I can hear them saying, 'we shall put a player piano in a torpedo.'" In other words, it was a culture clash: the thick-headed brass hats were incapable of considering the idea that musical technology could play any part in a complicated piece of weaponry. But Antheil's explanation is too simple; the invention had other problems.

In the first half of the 1930s, military researchers favored using wire for torpedo control. Thomas Edison had advocated this early on. Wilhelm von Siemens had suggested wireless control back in 1906, but the problems it posed included developing an antenna that could receive signals underwater. Only very long waves can penetrate water, and even with a very strong and therefore bulky transmitter penetration could only reach a few yards. Furthermore, the plane controlling a torpedo's flight would be an obvious target for the target's own fire.

In 1938, the German navy gave the firm of Siemens and Halske a substantial development contract for torpedo control research. As attention turned more and more to wireless control, the idea of frequency shifting emerged; it was definitely discussed at a meeting in July 1939, and it seems likely that the motion had already come up in Fritz Mandl's conversations a few years earlier. Siemens and Halske was supposed to have a radio-controlled system ready by the end of 1939, but the outbreak of war redirected military R&D priorities, and the project went by the wayside amid continuing uncertainties about jamming, cumbersome transmitters and underwater penetration.

In the United States Hedy Lamarr and George Antheil, shunned by the Navy, no longer pursued their invention. But in 1957, the concept was taken up by engineers at the Sylvania Electronic Systems Division, in Buffalo, New York. Their arrangement, using, of course, electronics rather than piano rolls, ultimately became a basic tool for secure military communications. It was installed on ships sent to blockade Cuba in 1962, about three years after the Lamarr-Antheil patent had expired. Subsequent patents in frequency changing, which are generally unrelated to torpedo control, have referred to the Lamarr-Antheil patent as the basis of the field, and the concept lies behind the principal anti-jamming device used today, for example, in the U.S.

government's Milstar defense communication satellite system.

Amateur radio and modern communications are built on the brilliance and genius of pioneers like Hedy Lamarr.

73 as always...

Jackie Cornwell ACØCA
0-Beat Editor

Editor's note: Information Source: *American Heritage of Invention & Technology*, Spring 1997, Volume 12/Number 4

Ø-BEAT DEADLINE

The deadline for the June 2007 Ø-Beat is May 25th. Send all submissions to the editor via e-mail, US Mail, telephone or in person. Please feel free to submit an article, joke or news—we need your fresh content!

Contact: Jackie Cornwell ACØCA
PH: 719-632-8254
Email: zerobeat@ppraa.org
USPS: 2406 W. Kiowa St.
Colo Spgs CO 80904

DITS & BITS

Looking for a Uniden HR-2510. If someone has a spare or one not being used anymore, please contact me by email at n0mud@ar1.net or call me at 719-597-1906. I have another trip to San Diego this coming Sept and would really like to have one for that trip.

Special Event Stations July/August

Jul 7, 1100Z-2300Z, Vernon, CT. Jesus Festival, KB1KIT. All Day Family Festival. 145.110. QSL. John Winkley, 105 Oxford Dr, East Hartford, CT 06118.

Jul 7, 1330Z-2030Z, Williamsburg, VA. Williamsburg Area Amateur Radio Club, K4RC. Special Event related to Colonial Williamsburg and July 4th. 21.350 18.150 14.250 7.261. Certificate. Russell Chandler, KU4FP, 132 Druid Dr, Williamsburg, VA 23185. *Certificate for working all three special event stations (any year) for WAARC including Jamestown, Colonial Williamsburg and Yorktown Battlefield.*
www.qsl.net/waarc

Jul 7, 1400Z-2200Z, Smithville, TN. DeKalb County Amateur Radio Club, K4F. 36th Annual Smithville Fiddlers' Jamboree & Crafts Festival. 28.425 21.335 14.280 7.275. QSL. William Freddy Curtis, KC4GUG, 288 Dogwood Cir, Smithville, TN 37166-2712.
web.infoave.net/~kg4bto/dcarc.html

Jul 7, 1500Z-2000Z, Sioux Falls, SD. Sioux Empire Amateur Radio Club, W0FSD. USS *South Dakota* Battleship Crew Reunion. 146.895 28.450 21.365 14.260. Certificate. Sioux Empire Amateur Radio Club, PO Box 91, Sioux Falls, SD 57101.
www.W0ZWY.org

Jul 7-Jul 8, 1300Z-0100Z, Green River, WY. Sweetwater Amateur Radio Club, WY7U. 100th Anniversary of Robert A. Heinlein's Birthday. IRLP 3831 14.235 7.250. Certificate. Dave Gregory, 1000 South Dakota St, Green River, WY 82935. *Transmitting from Greater Green River Intergalactic Spaceport.* www.wy7u.org

Jul 7-Jul 8, 1600Z-2200Z, DeSmet, SD. Huron Amateur Radio Association, W0NOZ. Annual Little House on the Prairie Pageant. 14.265 7.265. Certificate. Huron ARA, PO Box 205, Huron, SD 57350.

Jul 7-Jul 10, 1300Z-0100Z, Corona, NM. NM SES Group, N5C. 60th Anniversary of "The Crash at Corona". 14.260 7.260 3.860. Certificate. Jay

Miller, 4613 Jupiter St NW, Albuquerque, NM 87107. *Extra multiplier for non-terrestrial contacts, excluding ISS.* wa5whn@arrl.net

Jul 8-Jul 9, 1500Z-0000Z, Everett, WA. Boeing Employees AR Operators North Society, W7FLY. Celebrating the rollout of the Boeing 787 Dreamliner. 14.240 14.050 7.240 7.050. QSL. Mark McLaughlin, KN7T, 2625 176th St SE, Bothell, WA 98012.

mysite.verizon.net/evernhamms91/bearons.htm
OR www.W0MA.org

Jul 10-Jul 22, 1400Z-2359Z, Steamboat Lake, CO. K0SDW and K0YY Special Event Station, K0SDW. US Island Activation, USI - Bridge Island CO-12L. 21.365 14.265 7.265 3.965. QSL. QSL via cards or LoTW, or direct to: Stan Whicker, K0SDW, 2539 S Fairplay, WY, Aurora, CO 80014. *From Steamboat Lake State Park, rare Routt County and grid square - DN60. Operation on 80-6 meters, SSB, CW and digital.*

K0SDW@arrl.net

Jul 11-Jul 15, 1800Z-2200Z, Austin, TX. Naturist Amateur Radio Club, NU5DE. Nude Awareness Celebration - Nude Recreation Week. 21.365 14.265 7.265. QSL. Naturist Amateur Radio Club, PO Box 200812, Austin, TX 78720-0812. www.nu5de.org

Jul 13-Jul 14, 0000Z-0200Z, Burley, WA. Burley Amateur Radio Club, W1E. Continuing celebration of traditional bad luck day. 14.313 14.033 7.213 7.033. QSL. Burley Amateur Radio Club, PO Box 639, Burley, WA 98322.
tjsand@wavecable.com

Jul 13-Jul 15, 1400Z-2359Z, Trenton, MI. Motor City Radio Club, W8MRM. Trenton Mid-Summer Festival. 14.244 14.044 7.244 7.044. Certificate. Motor City Radio Club, PO Box 337, Wyandotte, MI 48192. www.w8mrm.org

Jul 14, 1600Z-2300Z, Grand Rapids, MI. Michigan DX Association, W8DXI. Gerald R. Ford Presidential Museum W8DXI. 14.285 14.110 7.265 7.135. QSL. Michigan DX Association, 1235 Morgan NW, Grand Rapids, MI 49504. w8vom@sbcglobal.net

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BOARD MEETING MINUTES

June 18, 2007



Attendees: Mike KØMLA, Susan KCØSYA, Jim ABØUK, Mike WV7T, Christopher NC6T, Dennis NØABC, Doug N7LEM, Ralph KIØNK, and Dan ACØCC

President Mike KØMLA called the meeting to order at 7:00 PM at the Stetson Hills Police Station.

The May Board Meeting minutes were approved as printed in the Zero Beat. (Motioned/seconded by Susan KCØSYA/Dan ACØCC)

Reports:

Treasurer's Report – Dan ACØCC Treasurer: Beginning balance \$9,111.00, income \$5,169.78, expenses \$1,172.97, net income \$3,996.81, ending balance \$13,107.81 as of 6/8/07.

Unfinished Business:

Megafest – Went really well. VE was very busy.

Field Day – Mike WV7T requested board approval for another \$200 for food expenses (since the fire station staff will be included in the meals). Motioned/seconded by Christopher NC6T/Doug N7LEM, and approved by the board. Any money left over will be returned to the club after the event. Everything is moving ahead well.

Colorado QSO Party – everything is running along smoothly, more counties are being added weekly, publicity is going out everywhere possible, and 51+ plaques have been sponsored so far; any additional updates available on website at www.ppraa.org/coqp.

Membership Committee – Zero-beats with an intro. Letter will go out shortly to prospective hams. Talked about the possibility still of moving

the location and day of the club meetings, in hope of drawing a bigger attendance. Will check on some suggested locations.

New Business:

Next year's board – Doug N7LEM will be the chairperson for an election committee. Ken KDØAGV would be an excellent candidate for the board, as well as Dave NØEOP. Anyone interested in running for a board position in October should contact Doug as early as possible.

Club Picnic Chairperson – Doug N7LEM's wife Patricia is willing to organize this event. Will have location and monetary figures available at next club meeting.

Around the Table:

Dennis – New Element 3 exams have come in. ARRL email came out showing a new VE patch available. Dennis suggested the club purchase the patches for the VE's that help on a regular basis. There are 17 in total, at \$2.00 each it would only be \$34.00 (Motioned/seconded by Chris NC6T/Jim ABØUK). Approved \$50 by board to cover patches and postage. Will invite all of the VE's to the next club meeting to present the patches to them, and then mail out any that could not attend.

Susan – Board meetings all scheduled for the Stetson Hills Police Station for Jan-Nov 2008.

Next newsletter submission deadline is June 25, 2007.

The meeting was adjourned at 8:16 PM.

Next PPRAA Board meeting: July 16, 2007 at the Stetson Hills Police Station on Tutt. Directions available on PPRAA website.

Submitted by:
Susan Allison KCØSYA
PPRAA Secretary

CLUB MEETING MINUTES

June 13, 2007

President Mike Allison KØMLA called the meeting to order at 7:00 PM in the El Paso County Health Department Auditorium, followed by introductions around the room.

Treasurer's Report: Beginning balance \$9,111.00, income \$5,169.78, expenses \$1,172.97, net income \$3,996.81, ending balance \$13,107.81 as of 6/11/07. (2nd half of Lewis-Palmer rental payment pending, estimated cost \$700 receipt from PPRAA Club table pending, estimated \$186 income.)

Minutes: May minutes approved as printed. (Motioned/seconded by Susan KCØSYA, Mike WV7T)

Committee Reports:

Technical education - No more general classes for a while, with the general test questions changing in July. Code Class on Monday nights – Mike WV7T presented a certificate to John KCØJFH from Distinguished Order of Morse Telegraphers (qualified as an amateur radio Morse telegrapher)

Interference - Joe Watson, who has handled interference questions/complaints in the past, is leaving Colorado Springs Utilities. Any questions/problems for now, contact Mike KØMLA.

Swapfest – Went well, with no problems. Many attendees verbally expressed how much they enjoy and appreciate our swapfest. Higher attendance than last year. VE Session – Out of 32 candidates - 11 new technicians, 12 new generals, and 3 new extras.

Unfinished Business:

Board Position – Nomination of Ralph Rohrig NIØNK to fill vacated position through October (motioned/seconded by Rick KØSU, Dan ACØCC). Voted and passed unanimously.

Colorado QSO Party – Jim ABØUK - gave an overview of how a QSO Party works and how the preparations are going so far. See website at www.ppraa.org/coqp for details.

Hammy Award – Awarded from Dan ACØCC to Ken KDØAGV for all his help on the Thursday night net.

Program – Field Day Preparation

Next Club Meeting: July 11, 2007 at 7:00 pm.

Next Board Meeting: 7 PM on June 18, 2007 at the Stetson Hills police station on Tutt Blvd.

Meeting adjourned at 8:32 PM.

Submitted by:
Susan Allison KCØSYA
PPRAA Secretary

AMATEUR RADIO LICENSE EXAMINATIONS

The PPRAA/VE team holds testing sessions at 9 AM at the Colorado Technical University, 4435 North Chestnut (just west of I-25 and just south of Garden of the Gods Rd).

Exam fee: \$14.00 for Elements 2, 3, and/or 4, payable to ARRL/VEC.
No same-day retakes of same element. Walk-ins allowed; pre-registration not necessary.

BRING: Photo ID, original and copy of valid ham license and/or valid CSCE, and FRN for licensed hams.

Contact: Dennis Major NØABC at 719-531-6774 or [email](mailto:dennis@ppraa.org) **Online:** ppraa.org or arrl.org.

Mark your calendars:

Aug. 11 , Oct. 13, Dec. 8

Special Event Stations cont'd...

Jul 14-Jul 15, 1300Z-2300Z, Forest City, IA. Winnebago-Itasca Travelers Hams (WITCARS), W0WIT. 38th Annual Winnebago-Itasca Grand National Rally. 14.263 7.253 3.970 147.27 +. QSL. Frank Krizan, 1005 Talley Rd, Garland, TX 75044. www.orgsites.com/ia/witcars

Jul 14-Jul 29, 1100Z-0300Z, Williamsburg, VA. Williamsburg Radio Association, W4J. Celebrating the VA 400th anniversary from Williamsburg area. 14.325 7.230 3.855. Certificate. WRA - W4J, 106 Candlestick Pl, Williamsburg, VA 23185. n4ari@amsat.org and www.qsl.net/n4ari

Jul 15-Jul 21, 0100Z-2359Z, Newark, OH. Central Ohio Operators Klub Extra - Novice, W8TNX. Carl Howard 8AGF appeared in the July 1, 1915 D.O.C. General portion of all bands. Certificate. W8TNX, 1010 Blacks Rd SE, Hebron, OH 43025. www.cooken.org

21, 1300Z-1900Z, Paris, TX. Red River Valley Amateur Radio Club, WB5RDD. 23rd Annual Tour De Paris Bike Rally. 28.350 14.260. QSL. Red River Valley ARC, PO Box 6103, Paris, TX 75461-6103. www.wb5rdd.org

Jul 21, 1300Z-2000Z, Roanoke, VA. Roanoke Valley Amateur Radio Club, W4CA. Celebrating 57 years of the Mill Mountain Star. 14.260 7.260. QSL. Ray Crampton, 1670 Catawba Rd, Troutville, VA 24175. www.w4ca.net

Jul 21, 1300Z-1600Z, Wapakoneta, OH. Reservoir Amateur Radio Association, K8QYL. Celebrating the 38th anniversary of Moon Landing. 14.235 7.185. Certificate. Ann Vogel, WB8GPB, 14455 CR 66A, St. Marys, OH 45885.

Jul 21, 1400Z-2200Z, Fulton, NY. Fulton Amateur Radio Club, W2CXV. Celebrating the 50th Anniversary of the Fulton ARC. 21.350 18.150 14.250 7.250. QSL. Tom Cantine W2TQF, 2807 Co Rt 45, Fulton, NY 13069. www.fultonhamclub.org

Jul 21-Jul 22, 1300Z-2100Z, Warren, OH. Warren Amateur Radio Association, W8P. 18th Annual Car Show from the National Packard Museum. 20-40m gen portions. Certificate. Gail

Wells, PO Box 809, Warren, OH 44482.

www.w8vtd.org

Jul 21-Jul 22, 1400Z-2100Z, Surry, VA. Western Tidewater Radio Association, WT4RA. 400th Anniversary of the First Colony in America. 28.450 21.350 14.250 7.250. Certificate. Bruce Powell, 317 Smithfield Blvd, Smithfield, VA 23430. *From the Chippokes Plantation.*

ke4gfm@arrl.net

Jul 21-Jul 23, 1400Z-0100Z, Springfield, OH. Independent Radio Association, Inc, K4H. Founding of the 4H movement. 28.440 21.440 14.240 7.240. QSL. Doug Bell, N8HSU, Independent Radio Association, PO Box 523, Springfield, OH 45501-0523. n8hsu-1@ameritech.net

Jul 26-Jul 29, 1300Z-2100Z, Oshkosh, WI. Fox Cities Amateur Radio Club, W9ZL. EAA AirVenture Special Event Station from Vette Hanger at Pioneer Airport. 14.270 7.250 146.52 146.76-. Certificate. FCARC - Attn: N9YMC, PO Box 5233, Appleton, WI 54912. *Guest operators welcome!* www.fcarc.us

Jul 27-Jul 28, 1300Z-2200Z, Berne, IN. Adams County Amateur Radio Club, W9A. Annual Swiss Days celebration. 14.28 7.26. QSL. Adams County Amateur Radio Club, c/o 417 Dearborn St, Berne, IN 46711. WB9KQO.com

Jul 27-Jul 28, 1400Z-2100Z, Ashtabula, OH. Finnish American Heritage Association, W8F. Annual celebration of Finnish heritage and ancestry. 28.415 21.320 14.260 7.270. QSL. Richard Madison, 2818 Hedrick Ln, Ashtabula, OH 44004-4816. www.finnfestusa2007.com

Jul 27-Jul 29, 1800Z-0200Z, St Ignace, MI. Various clubs and organizations, W8M. 50th anniversary of the opening of the Mackinac Straits Bridge. 146.52 14.250 14.070 7.250 7.050 3.850 CW SSB other modes as conditions permit. Certificate. KD8DKU, 8 Southfork St, Marquette, MI 49855. **Jul 27 1800Z-Jul 28 0200Z and Jul 28 1300-Jul 29 0200Z.** QSL and certificate available, \$1 and SASE. www.macbridge50.info

Cont'd on Pg. 9...

Special event stations cont'd...

Jul 27-Jul 30, 1500Z-0300Z, Indianapolis, IN. Indianapolis Motor Speedway Amateur Radio Club, W9IMS. Allstate 400 at the Brickyard. 21.340 14.240 7.240 3.840. QSL. Indianapolis Motor Speedway Amateur Radio Club, PO Box 18495, Indianapolis, IN 46218-0495. *Certificate and QSL available; see Web site for information.* www.w9ims.com

Jul 28-Jul 29, 1200Z-1700Z, Talbot Island, FL. St Augustine Amateur Radio Society, N4AUG. IOTA NA-138 activation. 14.270 14.035 7.230 7.035. QSL. SAARS - N4AUG, PO Box 860084, St Augustine, FL 32086. www.saarsham.net

Aug 1-Aug 14, 0000Z-2359Z, Newton, IA. Newton Amateur Radio Association, N0S. Celebrating the Newton Sesquicentennial and NARA's 70th year as an ARRL affiliated club. Low end of Tech/ Gen bands. QSL. K0IO, PO Box 941, Newton, IA 50208.

Aug 3-Aug 5, 1600Z-2359Z, San Angelo, TX. AB5BG. Honoring Col Greg Boyington and the Black Sheep Squadron VMF 214 of WWII. 40 20 15 10 m. Certificate. Don Goff, AB5BG, 1210 Ardmore, San Angelo, TX 76905.

Aug 3-Aug 6, 1300Z-2359Z, Canton, OH. Canton Amateur Radio Club, W8AL. Annual Pro Football Hall of Fame Festival. 28.365 21.365 14.265 7.265. Certificate. Donald E. Perry, WQ8J, 968 Culverne Ave NW, Massillon, OH 44647. www.w8al.org

Aug 4, 1200Z-2000Z, Stony Point, NY. 10-70 Repeater Association, N2S. Lighthouses on the Air event. 14.270 14.070 14.030 7.270. QSL. Herb Van Den Houten, N2OPJ, 1 Cozy Glen, Saddle Brook, NJ 07663. kc2gik@arrl.net

Aug 4, 1300Z-1900Z, Van Wert, OH. Van Wert Amateur Radio Club, W8FY. US 127 Garage Sale. SSB 14.304 7.204 CW 7.044 146.850 EchoLink 315705. Certificate. Van Wert Amateur Radio Club, PO Box 602, Van Wert, OH 45891. www.w8fy.org

Aug 4, 1400Z-1900Z, Townshend, VT. West River Radio Club, W1RRC. Grace Cottage Hospital Fair Day. 14.250 14.070. QSL. John

Borichevsky, N1TOX, PO Box 8087, North Brattleboro, VT 05301. www.westriverradio.net
Aug 4-Aug 5, 0000Z-2359Z, Milwaukee, WI. Milwaukee Radio Amateurs Club, W9RH. Celebrating 90 Continuous Years of Ham Radio. 28.470 14.270 7.260 144.240. QSL. MRAC 90th Anniversary, PO Box 070695, Milwaukee, WI 53207-0695. www.w9rh.org
Aug 4-Aug 5, 0100Z-2359Z, Bristol, ME. Lincoln County Amateur Radio Club, K1LX. National Lighthouse/Lightship Weekend Pemaquid Point Lighthouse. 14.270 14.250. Certificate. John Peters, K2LOT, 154 Boothbay Rd, Edgecomb, ME 04556.

SILENT KEY

Thomas McDaniel, NØNTX passed away on Monday, July 2, 2007. Services are tentatively planned for Monday, July 9th.

Jess Miley KØTAA

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Closed Sept. 1-24, 2007

PPRAA PRESIDENT'S CORNER

I hope that everyone is having a great summer and enjoying the weather we've been having. The last few days have been especially nice and weather is warmer every day. I just want to mention a few things in this message. The first is the Swapfest, the second Field Day, and the third is the filling of the vacant board member position.

The Swapfest was held on June 9th and it looks like it was a great success. Many thanks to Rob N7LV and everyone else who helped with the planning and operation of this event. I am looking forward to next year and the PPRAA again hosting what was, in the words of one attendee, "the best Swapfest in the state."

By the time this newsletter is out, Field Day will be history, but I want to thank Mike WV7T, for being the coordinator for this year's event. Mike and his team have planned a great weekend with things for the entire family to do, including operating.

Finally, I want to thank Ralph Rohrig, KIØNK, for stepping up and taking over the vacant board member slot. Ralph will be on the board for the remainder of Su's term. Please remember that the elections for the new board will be held in October and consider running for a board or officer position to help keep the PPRAA running.

That is about all that I wanted to say for this month. Please remember to be safe and enjoy yourselves this summer.

73

Mike, KØMLA
PPRAA President

PRESIDENT:

Mike Allison KØMLA
KØMLA@arrl.net / 590-4812

VICE PRESIDENT:

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MEMBERSHIP APPLICATION

All memberships are up for renewal at the end of the year. If you haven't renewed your membership yet, please use the form at the bottom of this page, and fill out all of the appropriate information so that the Membership Committee can update the records. Include your family so they can share the value and the fun. If you know someone interested in joining, make a copy for them or have them visit PPRAA on the web and download a copy of the PDF file at www.qsl.net/ppraa/membership.html.

Membership Application for the Pikes Peak Radio Amateur Association, Inc. P.O. Box 16521, Colorado Springs, CO 80935-6521	
Date: _____ <input type="checkbox"/> New Member <input type="checkbox"/> Renewal Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Call: _____ Class: N T + G A E Phone: _____ Mbr of ARRL? <input type="checkbox"/> Yes <input type="checkbox"/> No E-mail: _____ Additional Family Members to Join/Renew: Name: _____ Call: _____ Class: _____ ARRL? _____ Name: _____ Call: _____ Class: _____ ARRL? _____ Name: _____ Call: _____ Class: _____ ARRL? _____	In which activities would you like to participate? Field Day <input type="checkbox"/> Demonstrations <input type="checkbox"/> Nets or round tables <input type="checkbox"/> Organize activities <input type="checkbox"/> Teach ham classes <input type="checkbox"/> Full Member \$15: <input type="checkbox"/> Family Membership \$18: <input type="checkbox"/> Over 65 \$10: <input type="checkbox"/> Over 65 Family \$12: <input type="checkbox"/> Associate \$12: <input type="checkbox"/> Ø-Beat Only \$12: <input type="checkbox"/> Donation to Club: \$_____ Total Enclosed: _____ <u>MAKE ALL CHECKS PAYABLE TO "PPRAA"</u>
Please indicate how you'd like your Ø-Beat delivered: <input type="checkbox"/> Standard hardcopy via U.S. Mail (Defaults to standard hard copy in the event that NO check boxes are checked) <input type="checkbox"/> As a PDF file attachment via e-mail, to help save a few bucks <input type="checkbox"/> I'll save the club a few bucks and download it from the Web!	
Circle your interests ⇨ HF / V/UHF / FM / SSB / Digital / DX / Contests / Technical / Hardware / Other _____	
New and renewing members must submit a completed application form along with your check to the Treasurer. Please Type or Print Clearly!	

**Pikes Peak Radio Amateur Association, Inc.
P.O. Box 16521
Colorado Springs, CO 80935-6521 USA**

Standard Mail

To: