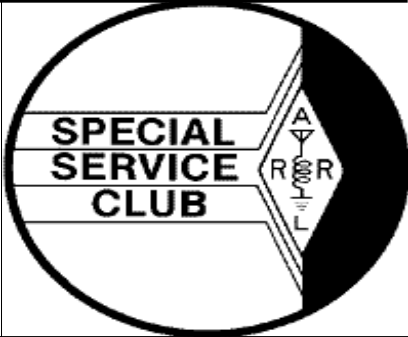




A 501-C3 Tax Exempt Organization



WACOM Christmas Party Photos!
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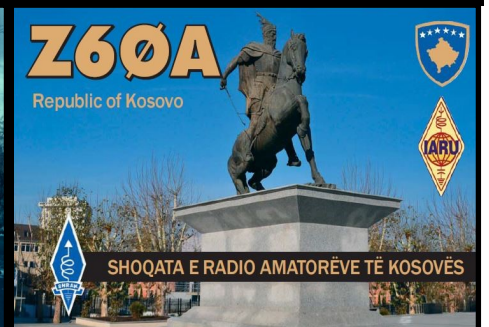
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WSPR Beacon to go in Antarctica
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DX Feature of the Month
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New DXCC Entity—Kosovo!
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WACOM
President's Message
Jan/Feb 2018



Joe—N3XE

President's Message, January/February 2018

Winter is a great time to work on projects and prepare for the year ahead. Whether you tested your gear during Winter Field Day last weekend or not, it's always a good idea to evaluate your equipment. I'm in the process of upgrading my portable solar setup so I'll be ready when spring finally arrives.

There has never been a better time to be building equipment. Last year a large group of us built BITX40 radios and got on 40 meters for under \$60. The same manufacturer has a new model, the uBITX, that is multi-band (80-10 meters), easier to construct, has a much better receiver, and is a big improvement over the previous model while remaining extremely economical (\$109).

Lastly, our annual Technician class is coming up at the end of the month so get the word out to any prospective students.

73,

Joe, N3XE

WACOM OFFICERS, BOARD OF DIRECTORS, STAFF, REPEATERS, AND NETS!

Washington Amateur Communications is a non-profit organization that is dedicated to advancing the principles of Amateur Radio while making it fun for all who participate. We have been affiliated with the ARRL for over 25 years. Our club call sign is WA3COM. Because of our activity in promoting Amateur Radio, including conducting classes, public demonstrations, emergency preparedness and training, studying technical advancements in radio and mentoring of new and soon-to-be hams, WACOM has earned the designation of Special Service Club from the ARRL.

Membership

- WACOM membership is open to anyone
- Annual Dues:
 - \$20 for individuals
 - \$10 for each additional family member
 (send check & completed form to club treasurer)
- Questions? Contact the WACOM club treasurer.

Membership Meeting

- 7:30PM (1930 hrs), First Thursday of every month

Board of Directors Meeting

- 7PM (1900 hrs), Last Thursday of every month

Mailing Address

WACOM
c/o Norma Plants N3YJY
236 Chambers Ridge Road
West Alexander, Pa 15376-2270

E-Mail

General Club Correspondence: wa3com@gmail.com

2017 Club Officers

Joe Caldwell, N3XE; joe@n3xe.com
Vice President: Patrick Degnan Jr., KB3TFN; pdegnan@gmail.com
Secretary: Randy Kief, KC3EKZ; randykief@comcast.net
Treasurer: Kathleen Briggs, KC3HBO; johnw104@comcast.net

2017 Board of Directors

Director: Bob Fischer, KC3AJM; kc3ajm@outlook.com
Director: Dennis Presky, K3PSP; dpresky@mra1.com
Director: Rob Balogh, KB3ZUS; robertbalogh@gmail.com

Newsletter Editor

Ken Frankenbery, AA3GM; ktfrank3@gmail.com

Webmaster

Joe Caldwell, N3XE; n3xe.radio@gmail.com

VE Liaison

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Radio Room Committee

Patrick Degnan Jr., KB3TFN; pdegnan@gmail.com

EMCOMM Training Officer

Brad McCarrell, KC3EDQ; brad_ml@verizon.net

Repeaters

K3PSP - 146.790+ MHz, EchoLink node - WA3COM-R
147.285+ MHz (Scenery Hill, PA)
145.250 - MHz (West Alexander)
147.390+ MHz (Smith Township)
147.315+ MHz (Greene County)

W3CYO - 145.490 MHz, 224.4 MHz, 443.300 MH z

Digital Net

- Mondays at 8PM (2000 hrs), on K3PSP Repeater
- Bob, KC3AJM Net Control

2 Meter Public Service Net

- Tuesdays at 8:30 PM (2030 hrs), on K3PSP Repeater

10 Meter Net

- Tuesdays at 9:30 PM (2130 hrs), on 28.340 MHz
- Bud, N3TIR Net Control

YL Net

- Wednesdays at 7:30 PM (1930 hrs), on K3PSP Repeater
- Karen, K3PUP Net Control

Elmer Net

- Wednesdays at 8 PM (2000 hrs), on K3PSP Repeater
- Bud N3TIR, Net Control

Club Elmers

DX Contest - Bill Sheehan, KB3LIX; kb3lix@comcast.net
QSL & DX - Bill Steffey, NY9H; ny9h@arrl.net
ARES & RACES - Bob Ketzell, KB3IN; kb3in@yahoo.com
CW - Loren McCullough, WA3WZR; lorenmcc@verizon.net
VHF - Craig Yoho, KB3RHR; craigyoho@consolenergy.com
Repeaters - Dennis Presky, K3PSP; dpresky@mra1.com
Websites - Joe Caldwell, N3XE; n3xe.radio@gmail.com
Elmer Net - Bud Plants, N3TIR; n3tir@arrl.net





WACOM General Meeting Minutes

1 December 2017, 6:30 PM



Due to the annual
WACOM Christmas Party,
there were no general
meeting minutes
taken or needed.



Next Regular WACOM Meeting - Thursday, 4 Jan 18 at 7:30 PM!

2018 WACOM Upcoming Events Calendar

Meetings, Contests & Other Significant Club Events (Subject to Change)

1 Jan 18—Straight Key Night, <http://www.arrl.org>

Thu, 4 Jan 2018, WACOM Meeting at 7:30PM, Washington County Building

6-7 Jan 18—ARRL RTTY Contest, <http://www.arrl.org>

Thu, 1 Feb 2018, WACOM Meeting at 7:30PM, Washington County Building

13 Jan 18—WASH 2-meter SIMPLEX Contest, <http://www.n3sh.org>

10 Feb 18—Breezeshooters Groundwave CW, <http://www.breezeshooters.net>

17-18 Feb 18—ARRL DX Contest (CW), <http://www.arrl.org>

25 Feb 18—**WASHFEST 2018**, Home Econ Bldg, 3735 Buffalo Dr., South Park, PA

Thu, 1 Mar 2018, WACOM Meeting at 7:30PM, Washington County Building

3-4 Mar 18—ARRL DX Contest (SSB), <http://www.arrl.org>

24-25 Mar 18—CQ WPX Contest SSB, <http://cqwp.com>

Thu, 5 Apr 2018, WACOM Meeting at 7:30PM, Washington County Building

18-20 May 18—**DAYTON ARA HAMVENTION®**, Green County Fairground, Xenia, OH

COURTESY: <http://www.ng3k.com/Misc/adxo.html>

2018 Jan01	2018 Jan31	So Shet- land Is	RI50ANO [spots]	LotW	DXW.Net 20161013	By UA1OJL fm Belligshausen Station; HF; QSL also OK via RN1ON and Club Log; operation to continue until Mar 31
2018 Jan16	2018 Feb08	Curacao	PJ2 [spots]	PA0VDV	TDDX 20180104	By PA0VDV as PJ2/PA0VDV fm IOTA SA-009; focus on 80m; CW; QSL OK via Buro or direct
2018 Jan18	2018 Feb05	Barbados	8P9CA [spots]	LotW	TDDX 20180122	By KB8YRX fm Christ Church; mainly 20m FT8; 100w; vertical; QSL also OK via KB8YRX
2018 Jan20	2018 Feb03	St Lucia	J68HZ [spots]	LotW	425DXN 20180127	By K9HZ fm IOTA NA-108; 160-6m; QSL also OK via K9HZ direct and eQSL
2018 Jan20	2018 Feb10	Ecuador	HC1MD [spots]	LotW	NE8Z 20180111	By NE8Z fm Tumbaco; 40-6m; CW SSB FT8; Carolina Windom, 2 ele Moxon on 6m; also HC1MD/2 from Punta Blanca and HC1MD/7 fm Papallacta Volcano; QSL also OK via K8LJG direct
2018 Jan21	2018 Feb04	Kosovo	Z60A [spots]	LotW	N7NG 20180123	By DL3DXX OH0XX OH1MA OH2BH OH3JR OZ1IKY S50A S51F Z61DX Z61FF Z61VB Z62FB Z63DBB; all bands; all modes; Kosovo recognized for DXCC from Jan 21; QSL also OK via OH2BH and Club Log
2018 Jan22	2018 Feb16	Azores	CU8FN [spots]	LotW	425DXN 20180120	By HB9CRV fm Flores I (IOTA EU-089); 160-10m; FT8; QRV for CQ 160m CW using CR2W; QSL also OK via HB9CRV (Buro or direct)
2018 Jan24	2018 Jan31	Namibia	V5 [spots]	DK7PE	425DXN 20180120	By DK7PE as V5/DK7PE fm nr Omarura; focus on 160 60m; QRV for CQ 160m CW Contest
2018 Jan24	2018 Feb02	Bahamas	C6AGU [spots]	HA7RY	TDDX 20180126	By AA7JV KN4EEI fm Schooner Cays; 160 80m; CW; QRV for CQ 160m CW Contest; QSL also OK via Club Log
2018 Jan24	2018 Feb19	Guatemala	TG9 [spots]	VE7BV	VE7BV 20160616	By VE7BV as TG9/VE7BV; 40 20 17 15 12m; holiday style operation; perhaps some HR5 activity fm Copan Ruinas
2018 Jan25	2018 Jan31	Cyprus SBA	ZC4A [spots]	LotW	5B4AGN 20171211	By 5B4AGN 5B4AGN G3AB G3WPH G3XTT G6MC; 160-10m, incl 60m; focus on CW, some SSB + digital; 2 or 3 stations; QSL OK via M0URX OQRS and Club Log; your QSL not required
2018 Jan27	2018 Jan31	Palau	T88PB [spots]	JA0JHQ	DXNews 20171204	By JA0JHQ fm Koror I (IOTA OC-009); HF; QRV for CQ WW 160-Meter CW
2018 Jan27	2018 Feb01	Fernando de Noronha	PY0 [spots]	PY2NDX	DXW.Net 20171205	By PY2NDX as PY0F/PY2NDX; HF
2018 Jan28	2018 Feb05	Mozambique	C9 [spots]	Club Log	DXW.Net 20180107	By PA5X as C8X and PG5M as C81G fm Ibo I (IOTA AF-061); 80-10m, incl 60m; CW SSB FT8; 1kw; 5 band Hexbeam, verticals

WACOM 2017 Christmas Party!



WACOM 2017 Christmas Party (Con't)



WACOM 2017 Christmas Party (Con't)



WACOM DX Feature of the Month— Bouvet Island

3Y0Z (1-15 February 2018)



Bouvet Island

(Norwegian: *Bouvetøya* is an uninhabited subantarctic high island and dependency of Norway located in the South Atlantic Ocean putting it north enough to be just outside the Antarctic Treaty System. It lies at the southern end of the Mid-Atlantic Ridge and is the most remote island in the world, approximately 1,600 mi south-southwest of the coast of South Africa and approximately 1,100 mi north of the Princess Astrid Coast of Queen Maud Land, Antarctica.



The island has an area of 19 sq mi, of which 93 percent is covered by a glacier. The centre of the island is an ice-filled crater of an inactive volcano. Some skerries and one smaller island, Larsøya, lie along the coast. Nyrøysa, created by a rock slide in the late 1950s, is the only easy place to land and is the location of a weather station.

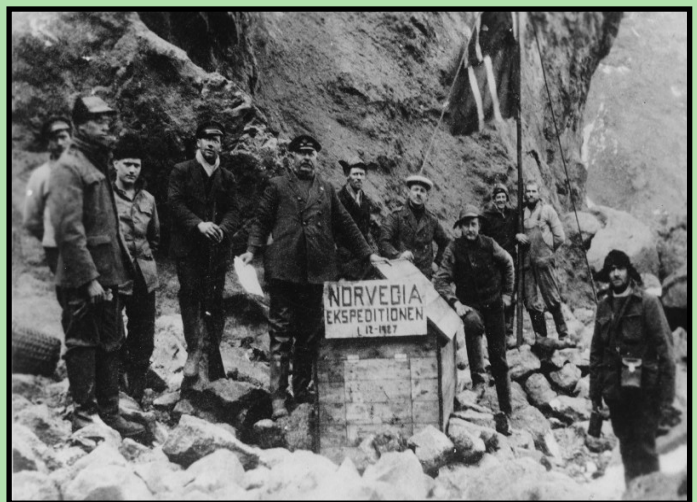
Discovery

The island was first spotted on 1 January 1739 by Frenchman Jean-Baptiste Charles Bouvet de Lozier, after whom it was later named. He recorded inaccurate coordinates and the island was not sighted again until 1808, when the British whaler captain James Lindsay named it **Lindsay Island**. The first claim of landing, although disputed, was by American sailor Benjamin Morrell. In 1825, the island was claimed for the British Crown by George Norris, who named it **Liverpool Island**. He also reported Thompson Island as nearby, although this was later shown to be a phantom island. The first *Norvegia* expedition landed on the island in 1927 and claimed it for Norway. At this time the island was named *Bouvet Island*, or "Bouvetøya" in Norwegian. After a dispute with the United Kingdom, it was declared a Norwegian dependency in 1930. In 1927, the First *Norvegia* Expedition – led by Harald Horntvedt and financed by Lars Christensen – was the first to make an extended stay on the island. Observations and surveying were conducted on the islands and oceanographic measurements performed in the sea around it. At Ny Sandefjord, a small hut was erected and, on 1 December, the Norwegian flag was hoisted and the island claimed for Norway. The annexation was established by a royal decree on 23 January 1928. The claim was initially protested by the United Kingdom, on the basis of Norris's

landing and annexation. However, the British position was weakened by Norris's sighting of two islands and the uncertainty as to whether he had been on Thompson or Liverpool (i.e. Bouvet) Island. Norris's positioning deviating from the correct location combined with the island's lack of a natural harbour and small size made the UK accept the Norwegian claim. This resulted in diplomatic negotiations between the two countries, and in November 1929, Britain renounced its claim to the island.

Norwegian Annexation

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Norway Claims Bouvet Island—1927

SOURCE: Wikipedia

WACOM DX Feature of the Month— Bouvet Island

3Y0Z (1-15 February 2018)



Geography

Bouvetøya is a volcanic island constituting the top of a volcano located at the southern end of the Mid-Atlantic Ridge in the South Atlantic Ocean. The island measures 5.9 by 4.3 mi and covers an area of 19 sq. miles, including a number of small rocks and skerries and one sizable island, Larsøya. It is located in the Subantarctic, south of the Antarctic Convergence, which, by some definitions, would place the island in the Southern Ocean. Bouvet Island is the most remote island in the world. The closest land is Queen Maud Land of Antarctica, which is 1,100 mi to the south, and Gough Island, 990 mi to the north. The closest inhabited location is Tristan da Cunha island, 1,400 mi to the northwest.

Nyrøysa is a 1.2 by 0.3 mi terrace located on the north-west coast of the island. Created by a rock slide sometime between 1955 and 1957, it is the island's easiest access point. It is the site of the automatic weather station. The north-west corner is the peninsula of Kapp Circoncision. From there, east to Kapp Valdivia, the coast is known as Morgenstiernekysten. Store Kari is an islet located 0.75 mi east of the cape. From Kapp Valdivia, southeast to Kapp Lollo, on the east side of the island, the coast is known as Victoria Terrasse. From there to Kapp Fie at the southeastern corner, the coast is known as Mowinckelkysten. Svartstranda is a section of black sand which runs 1.1 mi along the section from Kapp Meteor, south to Kapp Fie. After rounding Kapp Fie, the coast along the south side is known as Vogtkysten. The westernmost part of it is the 980 ft long shore of Sjølefantstranda. Off Catoadden, on the south-western corner, lies Larsøya, the only island of any size off Bouvetøya.

93 percent of the island is covered by glaciers, giving it a domed shape. The summit region of the island is Wilhelmplataet, slightly to the west of the island's center. The plateau is 2.2 mi across and surrounded by several peaks. The tallest is Olavtoppen, 2,560 ft above mean sea level (AMSL), followed by Lykketoppen (2,513 feet AMSL) and Mosbytoppane (2,200 feet AMSL). Below Wilhelmplataet is the main caldera responsible for creating the island. The last eruption took place 2000 BC, producing a lava

flow at Kapp Meteor. The volcano is presumed to be in a declining state. The temperature 12 inches below the surface is 77 °F.

The island's total coastline is 18.4 miles. Landing on the island is very difficult, as it normally experiences high seas and features a steep coast. During the winter, it is surrounded by pack ice. The Bouvet Triple Junction is located 171 miles west of Bouvet Island. It is a triple junction between the South American Plate, the African Plate and the Antarctic Plate, and of the Mid-Atlantic Ridge, the Southwest Indian Ridge and the American–Antarctic Ridge.

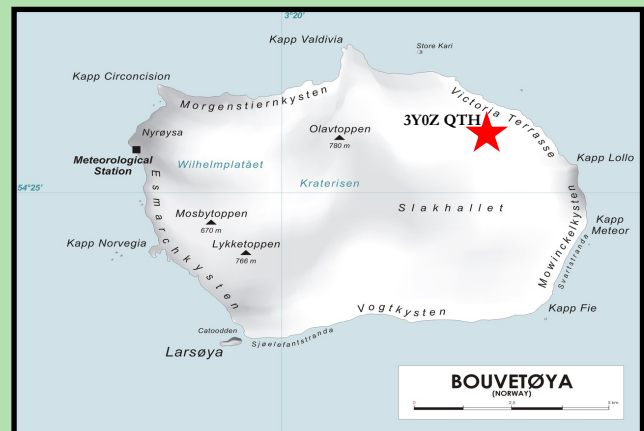
Climate

The island is located south of the Antarctic Convergence, giving it a marine Antarctic climate dominated by heavy clouds and fog. It experiences a mean temperature of 30 °F, with January average of 34 °F and September average of 27 °F. The monthly high mean temperatures fluctuate little through the year. The peak temperature of 57 °F was recorded in March 1980, caused by intense sun radiation. Spot temperatures as high as 68 °F have been recorded in sunny weather on rock faces. The island predominantly experiences a weak west wind.



DXpedition

The 3Y0Z DXpedition will operate on the northeast of the island. The website is: bouvetdx.org





WSPR Beacon on its Way to Antarctica

01/14/2018

Hardware for a planned permanent *WSPR* beacon system in the Antarctic is currently on its way. The installation -- a joint project of the Technical University of Munich, the University of Bremen, and the Deutscher Amateur Radio Club (DARC) -- consists of 5-W beacon transmitters for 160 through 6 meters, and a multi-band *WSPR* receiver that will simultaneously monitor all bands from 160 to 15 meters and post up to 700 reports/hour to [WSPRnet](#).

Commissioning of the system at the German Neumayer III Research Station is planned for mid-January.

In related news, DP0GVN will be the call sign for Matthias Maasch, DH5CW, starting in February, at Neumayer III Research Station for 1 year, and he plans to be active on HF. For the past year, he has been using DH5CW from the German Antarctic Base. QSL DP0GVN via DL5EB



Amendment to ARRL DXCC Rules Will Expand DXCC List

01/23/2018

The ARRL Board of Directors approved a motion to amend the DXCC Rules, when it met January 19-20. Section II, Subsection 1 of the DXCC Rules now will include a new Subsection (d): The entity has a separate **IARU member society** and is included on the US State Department **Independent States in the World**.

“The discussion during the Board meeting and the rule change did not address any specific entity,” ARRL Radiosport Manager Norm Fusaro, W3IZ, said. “The amendment *could allow* some additions to the current DXCC List of entities. It’s a good thing not only for DXCC but for all active hams.”

In fact, the Republic of Kosovo (Z6) has been added to the DXCC List of current entities, increasing the total number of current DXCC entities to 340. The addition of Kosovo raises to 331 the required number of current entities confirmed to qualify for DXCC Honor Roll; Top of Honor Roll is 340. DXCC award accounts are being tabulated to reflect the change.

This change qualifies as an “event,” effective on January 21, 2018, at 0000 UTC. Nothing is retroactive.

A new Logbook of The World (LoTW) *TQSL* configuration file (v.11.4) will be released on January 23. *TQSL* will detect when this file has been released and will install the update automatically. Radio Amateurs outside of Kosovo should continue to upload their logs to LoTW in the usual manner. LoTW users within Kosovo (either with a Z6 call sign or reciprocal call sign Z6/<home call sign>) will use *TQSL* to request a new call sign certificate for their call sign. The request will use Republic of Kosovo as the DXCC entity, and the QSO Begin date will be January 21 or later. LoTW will reject call sign certificate requests for the Republic of Kosovo with a QSO Begin date *prior* to January 21. Z6 users requesting call sign certificates may **e-mail** a copy of their Amateur Radio license.

Kosovo’s IARU member society **SHRAK** and its president Vjollca Caka, Z61VB, are hosting a 10th-anniversary activation to celebrate Kosovo’s independence in February, 2008. SHRAK Headquarters station Z60A now is active on several bands with multiple guest operators. Club Log will be used for this activation, while QSLs are via OH2BH.



ARRL NEWS



DXpedition Leader, Elite Contester, Ham Radio Mentor David Collingham, K3LP, SK

01/07/2018



Well-known DXpedition leader and contester David Collingham, K3LP, of Mt Airy, Maryland, died on January 6 after falling through the ice on a pond near his home the previous evening while trying to rescue his stranded dog. He was 59. Collingham was co-leader, with Paul Ewing, N6PSE, of the 2016 VP8STI/VP8SGI DXpedition to South Sandwich and South Georgia islands, and he was president of the Intrepid-DX Group.

Licensed at age 15 as WN6KTF in his home state of California, Collingham went on to take part in more than 70 DXpeditions and served as leader or co-leader of 14 major DXpeditions. Collingham had several Top 5 finishes in international competitions to his credit. He also had written articles for *QST*, *CQ*, and other publications.

Collingham was a 2014 inductee to the CQ DX Hall of Fame, credited with focusing on using Amateur Radio as an educational tool at home and abroad. With the support of Collingham's long-distance coaching, teacher Bev Matheson, KJ6RSX, a Fontana, California, elementary school teacher, was encouraged to start a ham radio club for 4th and 5th graders at Dorothy Grant Elementary School. A Fontana High School graduate, Collingham provided a complete station for the school. He also promoted and taught Amateur Radio to young people in Iraq, Ethiopia, and Rotuma.

Professionally, Collingham was president and CEO of International Quality Registrars Corporation, a global ISO 9001 certification firm. He was a graduate of University of Maryland University College (MS in operations management), National Louis University (MS in applied behavioral sciences), and DeVry Institute of Technology (AA in electronics technology).

NCJ Editor Scott Wright, K0MD, recalled hearing Collingham speak at a Dayton DX Dinner. "He challenged those in attendance to always think of

others, especially DXers who are generally less fortunate," Wright recounted. Collingham noted that he'd left behind some of the ham radio gear he'd brought to a DXpedition or operation to another country as a donation to help keep ham radio going there. Wright said Collingham also challenged those in attendance to help school clubs and start one, and to realize that ham radio would die, were a new generation not mentored and fostered.

Collingham was a member of ARRL, Southwest Ohio DX Association, Potomac Valley Radio Club, and the National Capital DX Association.

"David lived his life bold, courageous, and heroically, and he died trying to save his beloved dog," Ewing wrote in announcing Collingham's death. "He will always be a hero in our hearts."

Kosovo Z60A Team Reported in Good Spirits, Challenged by Noise

01/25/2018

The Z60A operation from Kosovo, the latest DXCC entity, continues apace from the headquar-

ters of Kosovo's IARU member society [SHRAK](#). The operation also commemorates the 10th anniversary of Kosovo's independence. The group of operators was reported to be "in good spirits and keeping Z60A activated as much as they can with their other duties."

Noise from LED lighting has presented a challenge after dark, generating noise up to S-8. Z60A will add bands to its repertoire, including 160 and 17. Logs are being uploaded to Club Log, but Internet access is reported to be "very sporadic," and uploads could be delayed.

Only contacts with Kosovo (Z6) after 0000 UTC on January 21, 2018, are valid for DXCC credit.





WASHfest 2018

The South Hills Hamfest — Now in our **TWENTY THIRD** big year!
Sponsored by the WIRELESS ASSOCIATION OF SOUTH HILLS AMATEUR RADIO CLUB, INC.

Sunday, February 25th, 2018

8:00 AM until 3:00 PM Rain or Shine (or Snow!)

Home Economics Building, South Park

3735 Buffalo Drive, South Park Township, PA 15129

Behind the Allegheny County Police Station on Brownsville Road

Talk-In on 146.955(-) and 443.650(+) 131.8 PL

Donation \$5



(800) 545-8881

Breakfast & Lunch will be available!



*FREE Coffee for the entire Hamfest
courtesy of HAM RADIO INSURANCE ASSOCIATES
of Canonsburg, PA*

MAIN PRIZES TBA — You've Got to Play to WIN!

Additional Hourly Door Prizes! Special Black Box Prize (Separate Drawing)!

Main Prize tickets are \$ 2.00 each, 3 for \$ 5.00, 7 for \$ 10, 15 for \$ 20

All Prizes Subject to last-minute changes

For Table Reservations, or More Information, Please Contact:

Carol Danko KB3GMN at (412) 884-1466 n3sbf@comcast.net

E-mail us directly at washarc@yahoo.com Check out our website too! www.n3sh.org

Please Note: Early Table Reservations must be paid in full on or before January 31st, 2018. Reservations received after February 1st, 2018 must include payment in full. Reserve now... we have sold out in advance eight years running!

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$12.00 = _____

5 Or More Tables w/o: _____ X \$10.00 = _____

Please make all checks payable to:
WIRELESS ASSOCIATION OF SOUTH HILLS
PLEASE MAIL RESERVATION TO:
WASHFEST 2017
C/O CAROL DANKO KB3GMN
4246 Seton Drive
Pittsburgh, PA 15227-1244

We reserve the right to resell any tables not occupied by 8 AM, unless prior arrangements have been made!

Washington Amateur Communications

2018

Member Information & Dues Renewal Form

(Please Print)

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Home Phone: _____ Business Phone: _____

Other Phone: _____ E-Mail: _____

Amateur Callsign: _____ License Class: _____

ARRL Member: Y N

Spouse Name: _____

Spouse Callsign: _____ Spouse License Class: _____

In case of emergency, for what bands do you have equipment? _____

What are your favorite amateur activities? _____

What activities would you like to see WACOM sponsor? _____

Please return completed form and dues to:

WACOM c/o Kathleen Briggs

1024 Arch St

Washington, PA 15301

E-Mail: johnw104@comcast.net

Dues: Individual \$20 per year, Additional Family Members \$10 each