

N.E.W.S. LETTER

The Official Publication of the North East Weak Signal Group – <http://www.newsvhf.com/>

April 2016

Volume 25

Issue 3

VHF Super Conference

April 14-17, 2016

Holiday Inn Washington-Dulles International Airport Sterling, VA

The Southeastern VHF Society (SVHFS), North East Weak Signal Group (NEWS) and Mt. Airy VHF Radio Club (Pack Rats) have come together to sponsor this VHF “Super Conference”.

Hosted by the Grid Pirates Contest Group (K8GP) and Directive Systems and Engineering.

This is a rare opportunity to meet with and hear from some of the top operators and technical minds in VHF Amateur Radio today all in one location. This is also a beautiful time to visit the Washington, DC area with Warm Spring Weather. Don't miss it!

To register for the Super Conference go to <http://vhfsuperconference.com/>

Registration includes Lunch and all day beverages for Friday and Saturday!

Free Hotel shuttle to and from Dulles Airport and the Udvar-Hazy Air and Space Museum available daily.

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MEMBERSHIP in the N.E.W.S Group is \$15 per year.

Apply to John Crawford, N2OY. E-mail: n2oy.vhf@gmail.com.

You may download an application from our web page: <http://www.newsvhf.com>

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President's Report

Invitation to the VHF Super Conference

That about says it! The weekend of April 15 – 17 is the date. Near Dulles Airport in Washington is the place. Yes, it really does appear it will be a Super Conference. About one week ago, there were about 175 people registered and by the time of the event, we will probably have about double the number of attendees as one of the individual group conferences typically has. Good show everyone! Invite your friends. Everybody come. See other sections of this NEWS Letter for how to register and get accommodations at the last minute.

It also looks like we will have a great set of papers and Forums. Greg will also bring his great test lab as he often does at our Northeast VHF conference, so bring any transverters, radios, filters, etc. you need to test but don't have the equipment. There will also be an antenna measurement range, and a Sunday flea market so bring your trained fleas!

Finally we will have a short NEWS business meeting at the conference to discuss upcoming events for the rest of the year. The time and place will be announced.

Please go to the VHF Super Conference web site for more information: <http://vhfsuperconference.com/>

- R. L. Frey – WA2AAU

Secretary's Report

- NEWS Meeting 19 March 2016, Storrs Library, Longmeadow, MA
- Called to Order by President, WA2AAU, at 1307

TREASURERS REPORT – N2OY

- 3 new members
- 3/4 of membership paid up
- Balance \$5222.21

OLD BUSINESS

- 10 GHz Mt. Washington beacon update: Contact person there has left. Possibly return to old site on mountain.

NEW BUSINESS

- UHF Contest? Possible announcement at VHF Super Conference.

ANNOUNCEMENTS

- VHF Super Conference - close to 200 registered.

SHOW & TELL

W1GHZ showed two video clips of CNC machining of 24 GHz stuff

PROGRAM

- Portable EME Operation at W2SZ: WA1HCO Jeff and WB8WGY Steve described Portable EME Station at W2SZ Mt. Greylock

Treasurer's Report

The club treasury and membership numbers remain strong. I'm looking forward to the Super Conference – thanks to all involved in arranging the conference, as well as to all who are sponsoring the conference or otherwise making it possible!

73,
John, N2OY
Treasurer

Microwave Update 2016 -St. Louis, MO

St. Louis, Missouri – Gateway to the West – is proud to host MUD 2016 on October 13-15, 2016 at Holiday Inn- Earth City, conveniently located minutes away from St. Louis International Airport along I-70. In addition to technical presentations on Friday and Saturday, there will be preamp noise figure and antenna gain measurements, as well as, a "rover/dish row," the traditional MUD auction and banquet. Microwave Update is the only conference in the U.S. devoted to amateur microwave bands starting at 900 MHz. Anyone with an interest in Amateur Radio microwave technology is invited to attend.

For more information, go to www.microwaveupdate.org or send an email to mud2016.info@gmail.com.

Contact: Jim Richardson, N5MU, 3210 Country Knoll, St. Charles, MO 63303-6370, Ph: 314-452-3818

Conference Registration Info

The conference will be held April 15-17, 2016 at the Holiday Inn Washington-Dulles International Airport at 45425 Holiday Drive, Sterling, VA

The Conference Web Site is: <http://vhfsuperconference.com/>

Special \$89+tax Hotel Rate is SOLD OUT at Holiday Inn, but the \$89 rate is available at the Best Western, across the street. Town Place Suites by Marriott and Hampton Inn also have space available. Each of these 3 hotels is within walking distance of the Holiday Inn

Breakfast is included for Friday and Saturday and will be held privately in the conference room area for conference attendees only.

Free Hotel shuttle to and from Dulles Airport and the Udvar-Hazy Air and Space Museum available daily

Super Conference Schedule of Events

Thursday, April 14:

- 10am-6pm Guided Bus Tour (3 hrs) of Washington DC, Smithsonian Area Museums (Note: this tour is SOLD OUT)
- 8pm Hospitality Suite

Friday, April 15:

- 8am-5pm Presentations, Vendors, Lunch, Auctions
- 9am-4pm Washington DC Bus Transportation to Smithsonian, US Capitol, National Mall and Botanic Gardens areas (Still Available)
- 7pm Flea Market/Swap
- 8pm Hospitality Suite

Saturday, April 16

- 8am-5pm Presentations, Vendors, Lunch, Auctions
- 7pm Banquet, Speaker, Awards, Door prizes

Sunday, April 17

- 8am-noon Tailgate in Parking Lot

Contacts for the VHF SUPER Conference:

- SVHFS: N2CEI, W8ZN, K4MEP
- Mt. Airy/Packrats: K3TUF, K1DS
- NEWS: K1MAP, W1GHZ, WZ1V

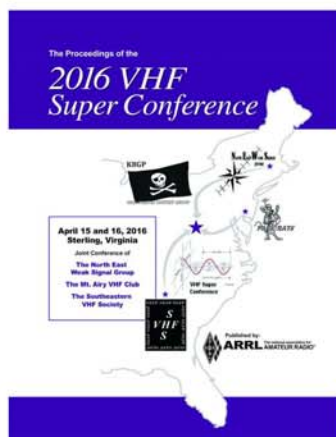
Conference CD Contents

VHF Super Conference

April 15-17 2016

Joint Conference of
The North East Weak Signal Group
The Mt. Airy VHF Radio Club
The Southeastern VHF Society

Hosted by the Grid Pirates Contest Group and Directive Systems
and Engineering



- [Setting New World DX Records on 2.3 and 3.4 GHz](#)
by [Wayne Overbeck, N6NB](#)
- [Ericsson 13cm Amplifier Conversion](#)
[Video](#)
by [Mike Seguin, N1JEZ](#) and [Henry Ingwersen, KT1J](#)
- [Estimating Tropospheric Working Range on VHF/UHF](#)
by [Paul Bock, K4MSG](#)
- [Keeping Amateur Radio in Space - 21st Century Challenges and Opportunities for AMSAT](#)
by [Daniel Schultz, N8FGV](#)
- [IF Triplexer](#)
by [Phil Theis, K3TUF](#)
- [How to Tune and Modify Filters "The Right Way"](#)
[Filter References](#)
[Additional Information](#)
by [Dick Frey, WA2AAU](#)
- [The Second Annual Microwave Gulf Outing - 2015](#)
by [Tony Emanuele, WA8RJF](#)
- [Codes and Modes for Weak-Signal Communication](#)
by [Joe Taylor, K1JT](#)
- [The Arduino: An Electronic Tinkertoy](#)
by [Matt Reilly, KB1VC](#)
- [A One Day Polar Mount for EME](#)

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- [Southeast VHF Society](#)
- [Best Technical Paper and Best Presentation Awards](#)
- [Speaker and Author Biographies](#)
- [Conference Agenda](#)
- [2016 Microwave Update Press Release](#)

Technical Presentations

click byline for Speaker biography

- [Activating Saint Martin as TO2EME & Sint Maarten as P37/PE1L](#)
[PowerPoint slides](#)
by [Marshall Williams, K5OE](#)
- [The FLWSS Beacon Project](#)
by [Chuck Hoover, K0VXM](#)
- [VHF ROVER Revolution](#)
[PowerPoint slides](#)
by [Rick Rosen, K1DS](#)

by [Ben Lowe, K4QF](#)

- [60 ft Tilt Over Tower Project](#)
[PowerPoint slides](#)
by [Stuart Truba, VE2XX](#)
- [A Simple Low-cost 5760 MHz Transverter for the Rover and A Personal Beacon or LO for 5760 and 3456 MHz](#)
[PowerPoint slides](#)
by [Paul Wade, W1GHZ](#)
- [Building a "SUPER ROVER"](#)
[PowerPoint slides](#)
by [Terry Price, W8ZN](#)
- [Rotating Towers Are Not For Weenies](#)
by [Steve Simon, W1SMS](#)
- [Amateur Radio Activities in Higher Education: Past and Present](#)
by [Tommy Henderson, WD5AGO](#)

EME Workshop

Al Katz, K2UYH and Rick Rosen, K1DS

- [Getting Started on 1296 EME](#)
by [Al Katz, K2UYH](#)
- [Small Offset Stress Dish for Portable 1296 EME](#)
by [Al Katz, K2UYH](#)

- [Big Offset Stress Dish](#)
by [Al Katz, K2UYH](#)
- [Polarization Primer for EME Operation](#)
by [Al Katz, K2UYH](#)
- [Devilish Doppler - Critical Knowledge for Successful EME](#)
by [Al Katz, K2UYH](#)

VHF101 Workshop

moderated by Steve Kostro, N2CEI

- [VHF 101: A First Look at Weak Signal VHF and Up](#)
[PowerPoint slides](#)
by [Marshall Williams, K5QE](#) and [Kent O'Dell, KA2KQM](#)
- [Basics of VHF Contesting](#)
[PowerPoint slides](#)
by [Rick Rosen, K1DS](#) and [Michael Davis, KB1JEY](#)
- [The Why and How of Microwave Transverters](#)
[PowerPoint slides](#)
by [Michael Davis, KB1JEY](#)
- [Beginner's Guide to Small-Station EME](#)
by [Paul Bock, K4MSG](#)
- [Pictorial Guide to Economical Mounting of Dual-Yagi VHF & UHF EME Arrays](#)
by [Paul Bock, K4MSG](#)

- [Stacking VHF Antennas for Different Bands on the Same Mast](#)
by [Dave Olean, K1WHS](#)
- [Assistance \(Contests\)](#)
by [Phil Theis, K3TUF](#)
- [The Dark Side of Sequencing](#)
[PowerPoint slides](#)
by [Marshall Williams, K5QE](#)

Contributed Papers

- [SDR Panadaptors - A Practical Guide](#)
by [Ed Krome, K9EK](#)
- [IC-202: Another Adaptation of "A Panadapter for the FT-817"](#)
by [Dave Hallidy, K2DH](#)
- [OpenHPSDR for VHF/UHF/Microwave, version 3.0](#)
by [Roger Rehr, W3SZ](#)
- [Frequency Locking Elecraft Transverters](#)
by [Steve Kostro, N2CEI](#)
- [A 2 meter and 70 cm Portable Antenna](#)
by [Gary Greene, W2ZV](#)

- [Quick and Cheap Omni Antenna for 1296 MHz](#)
by [Paul Wade, W1GHZ](#)
- [10 GHz Fire Tower Horn](#)
by [Bill Koch, W2RMA](#)
- [Cheap Microwave Marker](#)
by [Don Twombly, W1FKF](#)
- [Multi-Purpose 2.4 through 6 GHz Mixer-Block](#)
by [Tommy Henderson, WD5AGO](#)
- [Updating the Simple Low-cost 2304 MHz Transverter for the Rover](#)
by [Paul Wade, W1GHZ](#)
- [Dual Band 10/24 GHz Transverter](#)
by [Don Twombly, W1FKF](#)
- [10 GHz YIG LO Transverter](#)
by [Don Twombly, W1FKF](#)
- [Single-Stub Impedance Matching](#)
by [Paul Wade, W1GHZ](#)
- [Band Selection Board](#)
by [Phil Theis, K3TUF](#)
- [EME DXpedition to V6M](#)
by [Lance Collister, W7GJ](#)

PowerPoint Presentations

- [Activating Saint Martin as TO2EME & Sint Maarten as PJ7/PE1L](#)
by [Marshall Williams, K5QE](#)
- [The Dark Side of Sequencing](#)
by [Marshall Williams, K5QE](#)
- [VHF 101: A First Look at Weak Signal VHF and Up](#)
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by [Terry Price, W8ZN](#)
- [60 ft Tilt Over Tower Project](#)
by [Stuart Truba, VE2XX](#)

Awards and Contests

- [Rover Recognition Award by Packrats](#)
- [Worked All of EM Award Sponsored by the SVHFS](#)

- [Fall VHF/UHF Sprints *Sponsored by the SVHES*](#)
 - [Rules for 2016 VHF Fall Sprint Contests](#)
 - **2015 Sprint Results:**
 - [RESULTS: 6 meter Fall Sprints 2015](#)
 - [RESULTS: 2 meter Fall Sprints 2015](#)
 - [RESULTS: 222MHz Fall Sprints 2015](#)
 - [RESULTS: 432MHz Fall Sprints 2015](#)
 - [RESULTS: Microwave Fall Sprints 2015](#)
 - [2013 Eastern VHF Conference Noise Figure Results](#)
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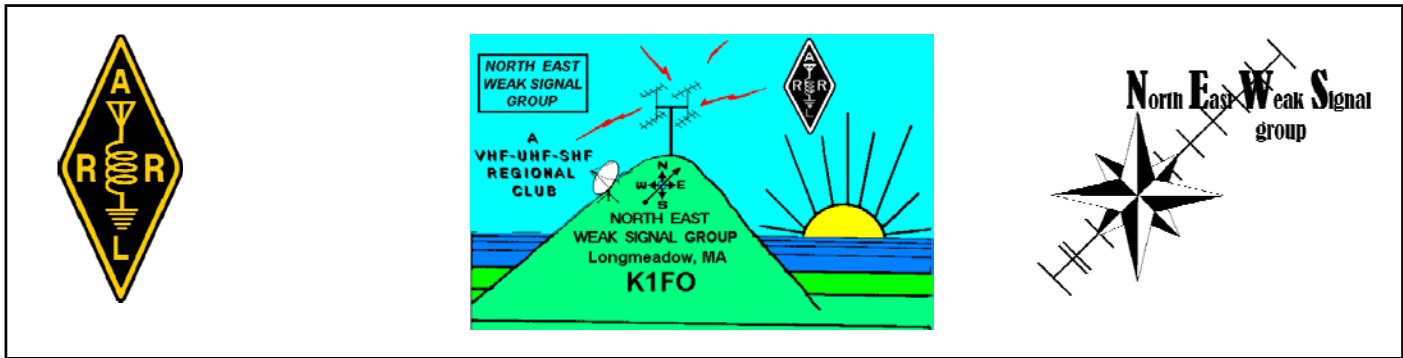


Clifford Wareham N2CEY
"Easy Digi" KF5INZ



Mickie W1MKY	Paul W1GHZ	Dick WA2AAU	Ron WZ1V	Mark K1MAP	Don W1FKF
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Electronic Newsletter Delivery: Y N

Operational Bands (circle)	50 MHz	144 MHz	222 MHz	432 MHz	903 MHz
	1.2 GHz	2.3 GHz	3.4 GHz	5.6 GHz	10 GHz
	24 GHz	47 GHz	76 GHz	Light	Other (list)

The North East Weak Signal [N.E.W.S.] Group is being established to form a camaraderie among fellow VHF-UHF-SHF enthusiasts and support a convenient means to exchange technical information. We currently have six meetings per year, held at a centrally located facility and provide a "NEWSLETTER" that is distributed two weeks prior to each meeting. Any contributions to this publication are appreciated and can be sent to: George Collins, KC1V by e-mail to kc1v@arrl.net. Dues are \$15/year. Remember, this group is formed by VHF'ers for VHF'ers.

Mail to:

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North East Weak Signal Group

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Check your membership
Expiration date on your mailing label!