

# Sunday, May 20, 2018

- Sunday, May 20, 2018**      **9:15 – 10:15**      **Room 1**      **West Mountain Radio's presentation**  
**Exploring Network 105 - The HF amateur packet radio network.**  
**Moderator: Sholto Fisher.**  
Network 105 has been in continuous operation since 1986 and is a global RF Wide Area Network. It's a place to chat & make friends, exchange personal mail, experiment with computers & software, and explore the ever evolving network.  
This presentation is not beginner level but all are welcome to attend.
- Sunday, May 20, 2018**      **9:15 – 10:15**      **Room 2**      **Reaching the Public with Ham Radio**  
Many radio clubs organize displays and exhibits to garner interest for Amateur Radio. They recruit new hams at Maker Faires, school and Scouting events, county fairs, public events, and science and technology conventions. Clubs also setup displays for the general public during ARRL Field Day. Come learn and share different methods for organizing exhibits and engaging the public at non-radio events. Sponsored by ARRL, the national association for Amateur Radio®  
Tommy Gober, N5DUX – Instructor, ARRL's Teachers Institute on Wireless Technology  
Bob Inderbitzen NQ1R – ARRL Marketing Manager
- Sunday, May 20, 2018**      **9:15 – 10:15**      **Room 3**      **Receiving Antennas**  
**Moderator: Eric Nichols, KL7AJ**  
Eric P. Nichols, KL7AJ . KL7AJ is a two-time recipient of the William Orr, W6SAI Technical Writing Award, conferred by the ARRL. He is currently technical editor for the W5YI group, working closely with Gordon West. He has written dozens of articles for QST, and is the author of The Opus of Amateur Radio Knowledge and Lore, Radio Science for the Radio Amateur, Propagation and Radio Science, and, Digital Storage Oscilloscopes for Ham Radio. He is currently writing a book on active and passive receiving antennas for ARRL, the topic of this talk.  
"Receiving antennas are DIFFERENT! Almost every amateur radio station can benefit from having a separate receiving antenna. Eric Nichols, KL7AJ will discuss the profound differences between the requirements of transmitting and receiving antennas, and how to optimize antennas for reception. As the overall noise floor in the HF band steadily increases, the deployment of well designed, low-noise receiving antennas will be increasingly important. Exciting new technologies make small, effective receiving antennas possible and practical."
- Sunday, May 20, 2018**      **9:15 -10:15**      **Room 4**      **Bicycle Mobile Hams of America (The 28th Annual BMHA forum at Hamvention)**  
**Moderator: Mike Nickolaus, NF0N**

Bicycle Mobile Hams of America got its start in 1989 when a QST article by Hartley Alley, NAOA asked hams who operate their radios while bicycle-mobile to get together and form a group. BMHA hosts a website along with the BMHA Yahoo Groups forum.

Mike Nickolaus: NF0N : Review of 2018 BMHA Bicycle Trail Ride

Steve D'Amico: KC8QVO : Bicycle setup and overview of some of his trips. Steve will have his bike and demonstrate his gear and show ergonomic tips for all day trips. He will show some pictures of the trips he has done.

We plan to have bicycle mobile displays and demonstrations of each will be conducted.

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**Sunday, May 20, 2018      10:30 – 11:30    Room 1    Secure Energy Forum**  
**Speaker: Bob Bruninga, WB4APR**

Solar, wind, batteries and electric cars are revolutionizing the home energy considerations for the Radio Amateur. Just in the last ten years, home grid-tie solar now costs less than half the utility, The average cost of the 35 Electric Cars now on the market with incentives now costs several thousand dollars less than the average gas car. And with the Tesla Gigafactory, now energy storage for the home is becoming practical. These all contribute to energy security for the home and ham shack but it is not your father's 60 Hz legacy iron boat anchors any more. For example, the engine/generator in a simple Prius is rated at 50,000 Watts. Home solar is typically 5 to 10 kW.. Come learn about what you can do to incorporate new energy into your home and shack.

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**Sunday, May 20, 2018      10:30 – 11:30    Room 2    The "Portable Magnetic Loop Antenna" Forum**  
**Speaker: PY1AHD ALEX - Alexandre Grimberg**

Magnetic Loop antennas exist for more than 100 years and Alex decided design the Portable Magnetic Loop Antenna for a simple then ever outdoor antenna operation, and as the ultimate solution for the antenna restricted hams. For over 15 years of intense work Alex was challenged to break 5 unbeatable technical paradigms to create the first Portable Magnetic Loop Antenna The world famous AlexLoop.

All those 15 years of the Portable Magnetic Loop Antenna research and development challenges will be compacted on a 50 minutes presentation which will bring to the audience technical information and a lot of fun. Five short duration videos will be presented including some exotic projects such as the Coke Loop - <http://www.alexloop.com/artigo36.html> "