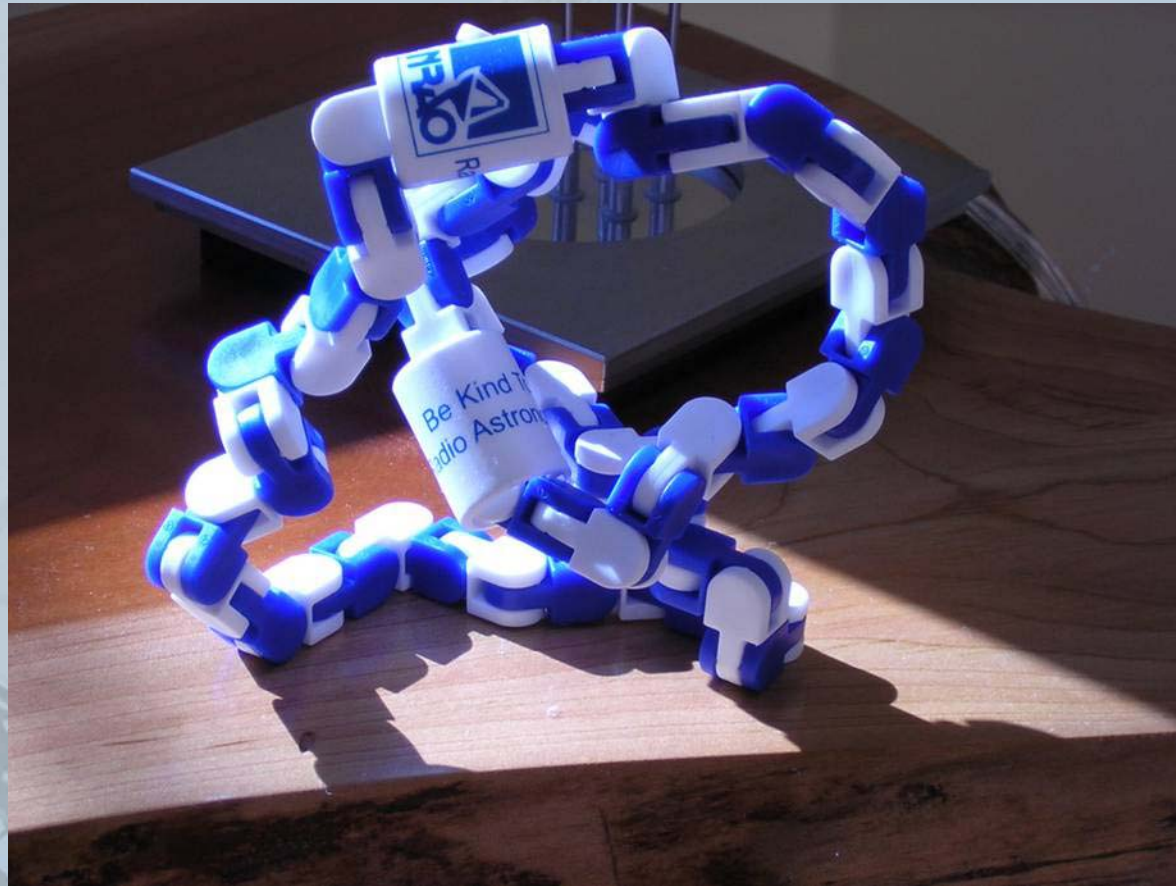




Spectrum Management/RFI



Harvey Liszt

Spectrum Manager – NRAO (CV)

Around the Observatory

- VLA/VLBA
 - **Dan Mertely** (RFI engineer)
- Green Bank
 - **Denise Wirt** (NRQZ administrator)
 - **Carla Beaudet** (RFI engineer)
 - **Wes Sizemore** (long-term NRQZ caretaker)
- Other:
 - **Darrel Emerson**, TUC (former CORF member, IUCAF Chair, and NRAO spectrum manager)
 - **Jon Romney**, AOC (COSPAR member of IUCAF)
 - **Bill Brundage**, **Mark McKinnon** AOC (emeriti)
 - **Dick Thompson**, CV (spiritual advisor)

Spectrum Manager's Activities: I

- ITU: several weeks/year each for:
 - WP7D (radio astronomy)
 - TG 1/9 (protection of passive services)
 - TG 1/8 (ultrawideband)
- IUCAF:
 - Coordinated with JPL's CloudSat orbiting 2kW 94.05 GHz radar (w/DEmerson)
 - <http://www.iucaf.org/cloudsat>
- Liaison to CRAF (EU's CORF)

Spectrum Manager's Activities: II

- Multiple FCC filings (arduous!)
 - Use of TV broadcast bands by unlicensed devices
 - L-band feeder links @1390-1392,1430-1432 MHz
 - Airborne use of cellular telephones (in prep.)
 - Rules for airborne links at Ku-band (in prep).
- Maintain RFIWatch@nrao.edu
- Web portal www.nrao.edu/~hliszt/RFI

The US marches to its own drum:

- Rolling out in US, generally illegal abroad:
 - Broadband over power lines (BPL)
 - Ultrawideband at 3-10 GHz or 24/76 GHz
 - Variety of higher power unlicensed devices
- FCC opposes further quiet zones inside US
 - Other nations busy making them

The drum sometimes skips a beat

- Rollback of Powell legacy at FCC?
 - Industry convinced FCC to revoke process for giving away 76 GHz links first-come first-served on the web, touted for many years
 - Powell's wackier hobbyhorses have gone quiet
 - FCC rules recently argued that the revolution would have to wait, "futurists" were pushing free-market concepts too hard