

Ham Radio at NG-MARSYS... ... almost enough time to get on-the-air

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What hams in-general are doing in 'NorCal'

- 2032 repeaters in the 'region'
 - A majority (80-90%?) are ubiquitous analog
 - Handful of linked systems Cactus, CalNet, CARLA, WINSystem, Gronk
 - Our UHF nemesis PAVE-PAWS
- 107k licensed hams in CA in NorCal
- Active ham-cram opportunities
 - Why aren't the repeaters packed with traffic? CERT? hotspots?
- Some very serious DXers
- Historic RCA/AT&T KMI Tx at Dixon and Rx site at Point Reyes

Highlights

- Amateur Radio Elmers Facebook group since 2015 (4700 members)
 - Partner with Ham Radio Now; exploring a new ham radio magazine
- Major presence to correct 23123.5 (2016-2017)
- Social media "lit up" with concerns of CalFire/'state' support https://www.youtube.com/watch?v=YxEty6jC5po
- NARCC Tech projects
 - To narrow-band, or not?
 - Defining/measuring coverage area, interference



Challenges of Elmering...

- Spanning the 'tube' and resonant-antenna generation to the 'innovative' end-fed/OCF/G5RV/'x'-pole
 - The 'core' of RF/science resistance, reactance, resonance
- Getting off 'devices' and on-air
 - 'DX' via VoIP
- Access to and retaining the new audience
 - Can/will existing clubs reach out, or create new clubs?
- The reality of public-/life-safety from within "bunker gear"
 - The ARES, RACES dilemma

Who, what, where to engage...

- STEM/Maker
 - What is the capture/retention rate vs. 'college'?
- Scouting
 - More persistent and you get a badge
- CERT
 - Definitely a purposeful need to communicate, learning = self-sufficient
- Community/affinity groups
 - Local evacuation/assistance, animal rescue/shelter
- NGOs
 - ARC, SATERN pretty much established

Who, what, where to engage...

- Served-agencies
 - Our involvement typical comes with agency staffing and procedural costs
 - Background checks
 - 'Supervision' to cover DSW
 - A higher level of volunteer commitment
 - Skill, training
 - Time, 'presence', attitude
 - Often not working with amateur radio but agency equipment
 - Rarely if-ever has RACES been legitimately invoked, but often assumed in CA
 - Greater responsibility to deliver amateur radio's "if all else fails" ?

How to engage...

More outreach and welcome to 'newbies'

- Create awareness at ham-crams
- Become the new "old ham's" club
- Address contemporary tech-interested on their terms
- New/different perspectives
- More visual than hands-on... gateways to hands-on...
- Elmers turn new-licensee to informed-licensee programs
 - "ham cram" is not education, knowledge, experience
 - Solid approachable ways to represent devices are radio, RF *is* science
 - Cellular data/'WiFi' didn't just happen
 - "100 watts and a wire" is a bit incomplete (not grandpa's Viking...)
 - The EU is a 'bit' more mature/comprehensive in this realm

How to engage...

- New-licensee to informed-licensee programs = Elmers
 - Approachable ways to represent devices are radio, RF *is* science
 - Cellular data/'WiFi' didn't just happen infrastructure issues
 - "100 watts and a wire" is a bit incomplete
 - The EU is a 'bit' more mature/comprehensive in this realm
 - "ham cram" is not education, knowledge, experience
- More reach out and welcome 'newbies'
 - Address contemporary tech-interested on their terms
 - Media has shifted, more visual than hands-on... gateways to hands-on...

How Amateur Radio is relevant to 'NG'

- The legacy of the TRW/NG contributions to technology
- Practical association between job and life
- Opportunity to advance non-engineers' career opportunities ...
- NG's community health and welfare outreach ...
- Include radio in sponsored STEM programs ...