

Ham 31 – AllStar, STEM & Maker
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Via a Radio

1. Tune your radio to a repeater or simplex radio which has an AllStar connection.
2. *Connect:* Use a DTMF microphone to dial in the node number to contact. A message will tell you success or not.
3. There is a delay between sending and receiving. Best protocol is to wait a couple of seconds between hearing the other person and starting to talk yourself. We recommend the old school ‘over’ or similar.
4. *Disconnect:* When contact is completed, use DTMF to dial 73.

STEM & AllStar

1. STEM is at home with Hams. AllStar is an excellent illustration.
2. Many people think ham is about radios. That was in grandpa’s day.
3. Technology that hams get to use, no one else can touch.
Whatever the technology, hams add range to the process and project.
4. A ham is often a maker, but as likely with a keyboard as a soldering iron.
5. Ham has been called wireless since the first days of Marconi. Yes, the same wireless that now connects everything.
6. To hams, infrastructure is optional.
7. Ham = technology at a distance.
8. Ham = technology and communications when nothing else works.

Maker Projects

1. Hams seldom build traditional radios anymore, but we do make other things and do computer processes to support our mission and technology.
2. Connect your Baofeng to an interface card. Connect that to your Raspberry Pi to make a node for AllStar and internet. Anyone who can talk to your radio can talk to anyone on AllStar.
3. A related project, in a recent IEEE journal, was to connect your ham radio to a Raspberry Pi to establish a WiFi connection far from anywhere. This is an interesting project for \$htf emergency or public event support.
4. Connecting 100-year old technology to the latest in small computers is WOW. The significance of the feat is recognized by articles in the most prestigious electrical engineering journals as well as YouTube-Alternative videos.

ASL Articles

1. Numerous details for building AllStar nodes are in two suites of articles, one active and one traditional.
2. Life is good. Enjoy.

