

Radio Scouting is the intersection of Scouting and amateur radio. We introduce Scouts to the fun, technology and magic of STEM & amateur radio.

2020 HamCation Youth Forum Presentation by Ken Lyons, KN4MDJ on local youth scouting programs.

Amateur Radio has been a part of scouting since it's formation in 1908 with the first troops. Amateurs started experimenting with radio well before the First World War in these early years.

A number of Scout troops, for example the 1st Arundel and the 3rd Altrincham, held transmitting licensees in the early 20s.

> Radio in scouting predates the BSA!



Knocked Down, The Trek Cart, Forms a Table, a Shelter, and an Aerial Radio Mast. - 1908

Baden Powell was of the opinion that wireless was an excellent interest for youth and encouraged them to take it up. He saw that it would be an essential form of communication for use in emergencies. Some troops even had mobile stations using their trek carts, in addition to the equipment in their Scout hut.

Our program was restarted in 2018 and has quickly expanded. We aim our program on the education/STEM side showing the technologies and radio spectrum. Events are held nearly monthly with about 2,000 scouts on popular council weekends.

Jamboree on the Air (JOTA), is an international Scouting and Guiding activity held annually. Started on the fiftieth anniversary of Scouting in 1957, it was devised by Leslie R. Mitchell, a radio amateur with the callsign G3BHK.

JOTA Jamboree-on-the-air

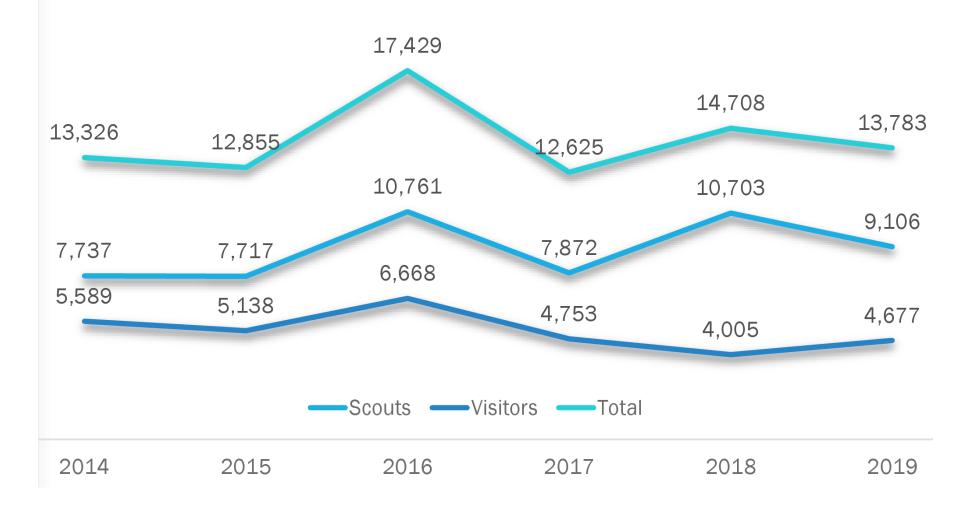


KN4LSY Larry Schnaudigel works on the JOTI laptop while a cub shares a QSO with KN4MQR Justin Sligh. Jota is the 3rd weekend of October every year since 1958

JOTA Jamboree-on-the-air – National Numbers

INCREASED PARTICIPATION BY STATION

While the reported numbers show a slight fall in overall participation, our calculations show that each station averaged an additional 13 people in attendance over last year. This shows an aggregate increase of 24% attendance per station even with our reported stations being down from 266 in 2018 to 201 in 2019.



Our combined JOTA/JOTI Stats

2018: 1,010 participants

2019: 1,503 participants

Scouts BSA: 78

Cub Scouts: 693

Sea Scouts: 1

Scouts Total: 772

Visitors: 731 (Parents/leaders)

Amateur Radio Operators: 6

Staff Volunteers: 20

166 QSOs [conversations with others

~3-10min shared among a half dozen scouts at a time.]

37 Countries

15 US States (FL, IA, IL, IN, KS, MA, MI, MN, MS, ND, NJ, NY, OH, PA, TX)

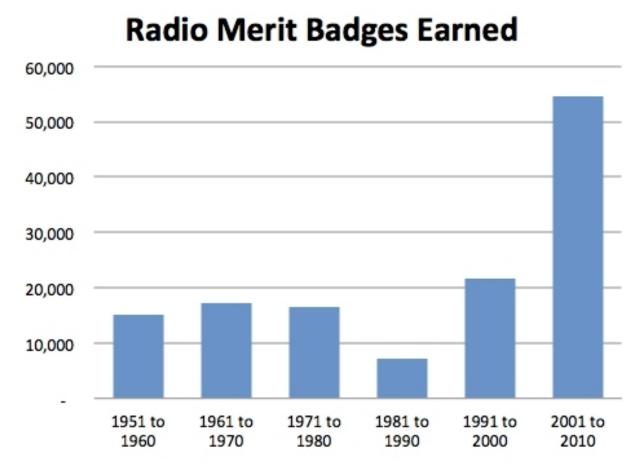
During 2019 we presented our program before **12,300** scouts at our council events.





All our participants learn how to do SOS in Morse Code. In Oct 2019 we exposed over 7,800 scouts to Ham radio, Morse code, ARDF, and the Lego build game using FRS walkie-talkies.

Radio Merit Badge starts the road to getting an FCC license.



We use JOTA and our events as an introduction followed by rank advancement with the **Radio Merit Badge**, about 7,000 **Scouts** nationally earn the badge each year.

We are on target for ~200 Radio Merit Badges in 2020.

wB4SA 2020 Program outline

Feb 8 - HamCation Radio Merit Badge

March 7 – Radio Merit Badge - Orlando

March 28 – Radio Merit Badge – Melborune (FIT, FL Tec)

April 18 - Steam Wars (competitive)

May 16 - Pioneer Days, CW (telegraph setup)

June six weeks of summer camp

Oct every weekend (ARDF, CW, ham, tech)

Oct JOTA on 3rd weekend

Lego FRS Build (a communications skill game)

One goal is to provide a free HT to all new FCC Techs.

Our **Scout HamBox** Project is for scouts moving from FCC Tech to General class.



Our wB4SA Council Radio Scouting program covers 26,000 scouts in 9 counties in Central Florida. Some neighboring councils have shown interest in restarting their programs.

If we get enough ham support in those areas they could also be restarted. Local support is key to our success (OARC & LARA).

Our scouting youth are eager to learn but we need the **support** of local clubs, hams, elmers along with funding and equipment.

A long-term goal is to roll-out VHF radios to patrol leaders at camp outs, replacing ¼ watt FRS.



wB4SA Referral Service

We are currently working on a national list of all BSA councils with active radio scouting programs for inter-council events and assistance on our homepage, www.RadioScouting.US

We are also working on a national **ham referral list** for troops and scouts seeking ham assistance for demos, field day & jota in their local community. We can quickly match hams that volunteer to assist by zip code to troops requesting assistance.

We get dozens of contacts every October from troops outside our area in need and usually it takes to long to co-ordinate through the ARRL and local clubs with monthly meetings. By having a list of hams for every zip-code, already willing to assist scouts in their community, we can quickly connect the Signup at: www.RadioScouting.US/J

WIRELESS WONDER AGED 14 AMAZES SENATE COMMITTEE



РНОТОЗ (С) В ИНДЕВИСОД 6

N. Leavers, 149 Clinton Street, Brooklyn, N. Y.

E of the reasons why W. E. D. Stokes, Jr., the fourteen-year-old President of the Junior Wireless Club of America, Ltd., led a delegation of his organization down to Washgation of his organization down to Washington has week to oppose the passage of the Depew bill for the regulation of radio communication, was to take a hack at what he said was the "communication trust" of this country. His mission was considered a success by many of his wide of the whole of the country has been as whose the consideration of the country. est plender that ever appeared before Senate committee.

 He is at once the youngest orator who ever appeared before a Source committee to argue on a bill, and undoubtedly the youngest self-confessed trust-buster in the

Some night soon, perhaps this week, the thirteen charter members of the Junior Wireless Club of America, Ltd., will get together in the Ansonia Hotel, Broadway together in the America Hotel, Broadway and Seventy-third Street, and will there felicitate the organization, over a dinner. "upon the first hack taken at what they call the "communication trust," and upon the prospects for their continued use of the air, of which it was the purpose of the "trust," through this bill, to deprive them, they declare. W. E. D. Stokes, Jr.—celled Weddy, as

Itome they define. Jr.-eclied Weddy, as his father was also called in his younger days—rode back from Washington at the univitation of the President. At 9 o'clock Priday night be was found in the Depew bill? "Ne was asked." "Well, what success did you have with weakroom at the southeastern corner of the sixteenth floor of the was found in the Depew bill?" he was asked. "Oh, fine, we think," he showered, regiment the swerkroom at the southeastern corner of the sixteenth floor of the son of all kinds. Strucked all the way across one end of the room was a but Tale fing, town of the room was a but Tale fing, town of the mathematical and philosophical prodicy, so Yale will probably get this prodicy playing will be shown that the youngstee doesn't was taken up with One side of the room was taken up with One side of regiments and wireless that the policy of physical science. "Well, what is the Senate committee of physical science, which shows that the youngstee doesn't wow meetly so much about artials, kitched the product of the physical science. "Well, what is the Senate committee of the shown that the youngstee doesn't wow meetly so much about artials, kitched the product of the physical science. "Well, which they will veto the bill."

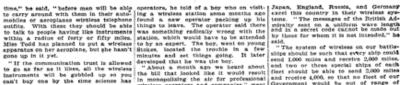
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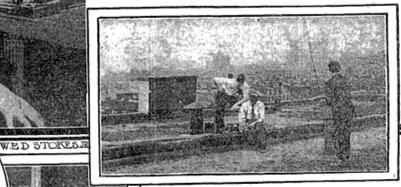
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Young W. E. D. Stokes, Jr., Glibly Discussed Radio-Activity and Modern Electricity in a Way That Made Staid Solons Wonder.

to talk to people having like instruments was semething radically wrong with the within a radius of feety of fifty miles. Mass Todd has planned to by an expert. The boy, wend no yellow apparatus on her accopiance, but she hasn't great the property of the



A Group of Wireless Operators Receiving Messages.

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argue against the bill as it now is, and a good many representing the professionals. The nam who spice just before 1 idd was over six feet tail. He was an amatter, too, and he thought that the bill would out us out of the air, if we obsyed the letter of the hought fraction armount of the bill would enter on the bill would enter a second of the second

Youth saves Amateur Radio in the US - 1910 & 1912

This 14 year old kid, W. E. D. Stokes, Jr. (1910):

- President of the Junior Wireless Club, (later renamed to Radio Club of America, RCA)
- held patents relating to wireless communication.
- 1910 no commercial radio stations (1923)
- . no FCC to regulate the airwaves (1934)
- estimated 25,000 to 40,000 US amateur wireless operators

New York Senator Chancey Depew (R) had introduced a bill that would restrict the use of airwaves, posing a threat to the radio club's hobby. So the club sent their president down to Washington to **testify before Congress**. At the time, **he was the youngest person to do so**. Fought the same bill again in 1912 and won.

Membership Drive

We are a youth club with the long term goal of being 95% youth based as we expand our program. We are currently seeking to grow **our base above 1,000 members** to take advantage of several **grants and advertising** options through our monthly club newsletter.

All our services and programs are provided free of charge to scouts and the BSA council(s). We are currently funded by our volunteers and small grants and donations from the community.



Program Potential

Our program touched the lives of over 12,300 scouts last year and our Radio Merit Badge requests have exploded in 2020. We have the potential to get hundreds of youth licensed in the next year and our goal of providing free starter equipment is very cost prohibitive. Those youth will begin their brand loyalty based on that starter equipment.

If our program is rolled-out nationally that could mean thousands of newly licensed scouts each year through summer camps and scheduled council events. Youth that the ham community has been begging for.

We've expanded our program to assist ham clubs in other areas and councils to recreate our program. We just need to keep the momentum going so that it grows beyond our council and through the rest of the country.

ARRL Club Classes

- 1. Local Amateur Radio Club.
- 2. Regional or national organized Amateur Radio group.
- 3. Local school or youth group or Amateur Radio Group in homes for the elderly or disabled.
- 4. Group of Amateur Radio clubs joined together in a common purpose.

In category 1 and 2, at least 51% of the voting members must be Full or Associate members of the League, and at least 51% of the voting members must be licensed radio amateurs. Note that this is voting members, not necessarily total members.

In category 3, the name of the club must clearly show the school or youth group nature of the club, such as the Boy Scout Troop 345 Amateur Radio Club, or the Taft School Amateur Radio Club. In this case, only the club sponsor, faculty advisor, trustee or president needs to be a League member and a licensed amateur. Homes for the elderly or disabled must have one ARRL member who is the president, trustee, sponsor or advisor.

In category 4, at least 51% of the member clubs must be actively affiliated with the ARRL for affiliation status to be granted.



Youth: 2.4 million youth (2019)

Peak: 1973, 4 million youth

Adults: 1 million volunteers

Councils: 272

Youth Units: 100k+

Just 1% = 24,000

Radio Merit Badge: 7,000/yr

K2BSA Members: 506 (BSA national)

wB4SA Members: 137

hoping for 1000+ (grant threshold)



ARRL Members: 161,000

ARRL Clubs: 2,481

FCC lics, "hams"

2018: 750,000

2011: 700,221

2001: 683,000

1991: 494,000

1981: 433,000

1971: 285,000

I've visited a number of clubs and talked to thousands of hams, everyone says the same two things...

- 1. We need more youth, everyone has gray hair.
- 2. The repeaters are dead. (get youth on VHF to solve it)

And here I am... screaming "I have 2,000 [different] youth almost every weekend that want to learn!". And we are just 1 of 300 councils across the country, some are even larger.

Scouts out-number ARRL members **15:1** and all hams **3:1** If we get just 1% youth interest that's 24k youth exposed to the Radio Merit Badge, if we capture 10% of those you have 2,400 licensed techs.

We need and desire...

hams to assist in running programs receptive clubs to send them to, after licensed at camp clubs & ARRL to not charge dues to under 18 youth!

- Ken, KN4MDJ

Suggested Membership Structure for clubs & ARRL

| YOUTH / JUNIOR (<18) | STUDENT (18+) | ADULT | ASSOCIATE | ELMER / SENIOR |
|-------------------------|----------------------|----------------|----------------|-------------------|
| Licensed ham | Licensed ham | Licensed ham | General Public | Licensed ham |
| Non-Voting | Voting | Voting | Non-Voting | Voting |
| Free Dues | Reduced Dues | Full Rate Dues | Reduced Dues | Reduced Dues |

Youth programs touch the lives of thousands of youth daily.

It's our job to provide exciting and interesting STEM programs that appeal to the youth at camp.

Interested youth need **your support** to continue their learning when they go home.

It's the local clubs that provide elmering for our youth. Don't make dues a hurdle that limits growth and learning.

Key points

GO TO WHERE THE YOUTH ARE!

We go to scheduled scouting events and become an additional activity of the program. Youth only visit for 10-15 minutes for the activity.

KEEP IT INTERESTING

We add or change up what we do on every event. This year we are adding POTA setups, expanding ARDF and GoBoxes. Drones/Sat/ISS attract youth! Waterfall displays and computers are key to many youth.

Ham is more than ARES, SSB, CW and old guys!



Q&A

Support our program...
become a member,
supporter or just enjoy our
monthly newsletter as we
bring radio STEM to youth.

www.RadioScouting.US/J

