



Chapter 52, Columbus and Central Ohio, **July 2020** Internet Meeting Edition

The Society of Broadcast Engineers

June was our first internet meeting of the Chapter. Members were invited to share their experiences with Drones in news gathering, engineering and construction, and aerial photography. Chairman John Owen generously shared with us pictures and background stories on QForce, Airborne Division of QCom1.Com. This is a relatively new business enterprise of John and his partner Tony ZumMallen. John has been also been running wild with REPack projects. He threw in a few pictures of that activity also. Hope that you enjoy the feature story on John and Tony.

For the **August** meeting, you are invited to share with the Chapter your memories, photographs, visits, and notes about the Voice of America, Bethany (Mason, Oh) facility. It is almost impossible to separate the history of WLW from the history of the VOA Bethany. Hence, don't hesitate to throw in the same information about WLW. You are invited to visit a nice video tour of WLW with Jay Adrick on Youtube. Search K7AGE. The piece was made up by Randy Hall.

Founders of QCommunications



Tony zumMallen

President/General Manager

Tony, prior to QComm, participated in all FCC auction relocation efforts since 1997 and started zCommunications as an engineering and tower services company for the carriers. He has negotiated and managed the replacement/decommissioning of ~500 microwave paths while participating in the PCIA relocation working group for Sprint and Nextel and other carriers. Tony has served as VP and President of multiple medium sized regional tower companies as

well as owned and operated services companies in the broadcast and telecommunication industry. As a proverbial “Rocket Scientist” Tony, holds an Aeronautical Engineering degree from, ASU, and used those studies in the aerospace industry, until 1997.



John Owen

CTO/Chief

John Owen is a broadcast Principle with over 50 years in the industry. Prior to the 2GHZ project, John was the Chief Engineer at WBNS, which was the first station in Ohio to convert to full high-definition studio broadcasting. Owen held a VP position for the Austin Company where he designed TV stations around the world, and was also a VP of Engineering for Taft Broadcasting. John brought his Chief status to QCommunications in 2008 as owner

and Chief Technical Officer. SBE- CH 52 Chairman, SBE - Sustaining Member

Contact Us -Repack waits for no one! We make it happen!

Established in 2006, QComm has provided negotiation, engineering, project management, and installation services to **69 TV stations** as part of the 2GHz relocation project, transitioning the stations ENG capabilities from analog to digital operations. Prior to establishing QComm Tony zumMallen and his business partner, John Owen, both served on the Sprint/Nextel 2GHZ team to relocate the stations. Tony and John established QComm to work with the broadcasters to ensure that the stations maximized the benefits of the Sprint/Nextel 2GHZ deal as per the

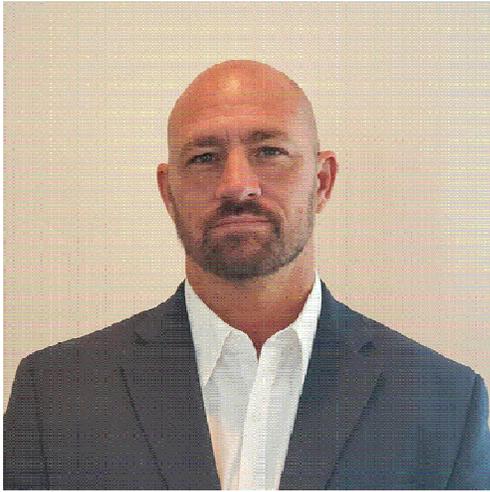
QFORCE DRONE DIVISION



QComm. is pleased to announce our state-of-the-art drone technology to perform important studies to our clients. QForce specializes in installation work on the current channel repack, has teamed up with Australian-based SixArms, which uses unmanned aerial vehicle technologies to provide efficient, accurate and cost-effective measurement solutions. The Airborne Division utilizes proven signal verification and coverage mapping technology to capture the characterizations of antenna systems. This system allows measurements of Horizontal Radiation Patterns (HRP),

Vertical Radiation Patterns (VRP), Effective Radiated Patterns (ERP), polarization discriminations and many other specific modulation parameters while providing overall uncertainties in the order of 1-2dB. QComm's Airborne Division will be one of just two SixArm certified "operators" within the United States. The use of a properly designed and technologically equipped UA system can greatly enhance the real understanding and effectiveness of our customers' products while bringing added security, safety and awareness to the geographical locations where these products reside, thus reducing assumptions and needless human climbs.

The QComm (QForce – Airborne Division) provides this resource to our customers using guidelines for carrying out sUAS operations for wireless and broadcast communications tower facilities (Tower's)) in accordance with Title 14 of the Code of Federal Regulations Part 107, the UAS Pilots Code, and the procedures generated by the QForce managers. In addition to the reviewing and complying with any existing, new, or amended content published in the Federal Register by the Federal Government of the United States, the appropriate National Aviation Authorities, or any local/state regulations where QForce PICs intend to operate. All flight operation surrounding QForce Clients and the use of an sUAS under AC107- 2(4.1) when conducted by QForce PICs around towers for the purpose of inspections, monitoring, mapping or any other activity related to the maintenance, repair, or [documentation](#) of communications towers is strictly adhered to. All flights will comply with federal 107 rules, regulations, insurance requirements, certifications [and](#) QForce internal operations specifications.



Introducing Phil B. Larsen

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Vice President - Airborne Division - Q Force

816-267-8141

phil@qcomm.tv

Phil Larsen, one of leading subject matter experts in vertical inspection by way of UAV in a RF environment, has been appointed vice president of the Airborne Division and will be responsible for leading the QForce team, a group of specialists tapped to operate, service and support the new division. Larsen's career dates back over a decade and includes extensive ex-

perience designing solutions and advising the telecommunication industry on the benefits of using UAVs. Larsen previously worked for the DoD, NSA, CIA, Navy and other governmental agencies globally, and brings with him an exceptional background and understanding of the safe, accurate and overall benefits this technology will deliver to QComm customers.

Services

Field Study Validation of near and far field measurements at the pre-described FCC heights.

Infrared Ongoing RF Line and Bullet degradation validates and provides a historical base line at time of installation or after years of use.

Tower Mapping Monitoring of vertical height of equipment placed on the structure and providing a record and basic inventory

Tower Inspection Thermal imaging combined with HD video used to locate/review/monitor large line pressurized leak points from the tower base to the antenna input.

Tower Wildlife Inspections Let us inspect for rust and bird's nests.

Routine Maintenance Programs Qforce routine maintenance program allows our customers to always be in the know.. base line data is captured and validated then used to compare against for the duration of the contract. Maintenance programs are completely customizable to fit the customers needs and have an absolute need



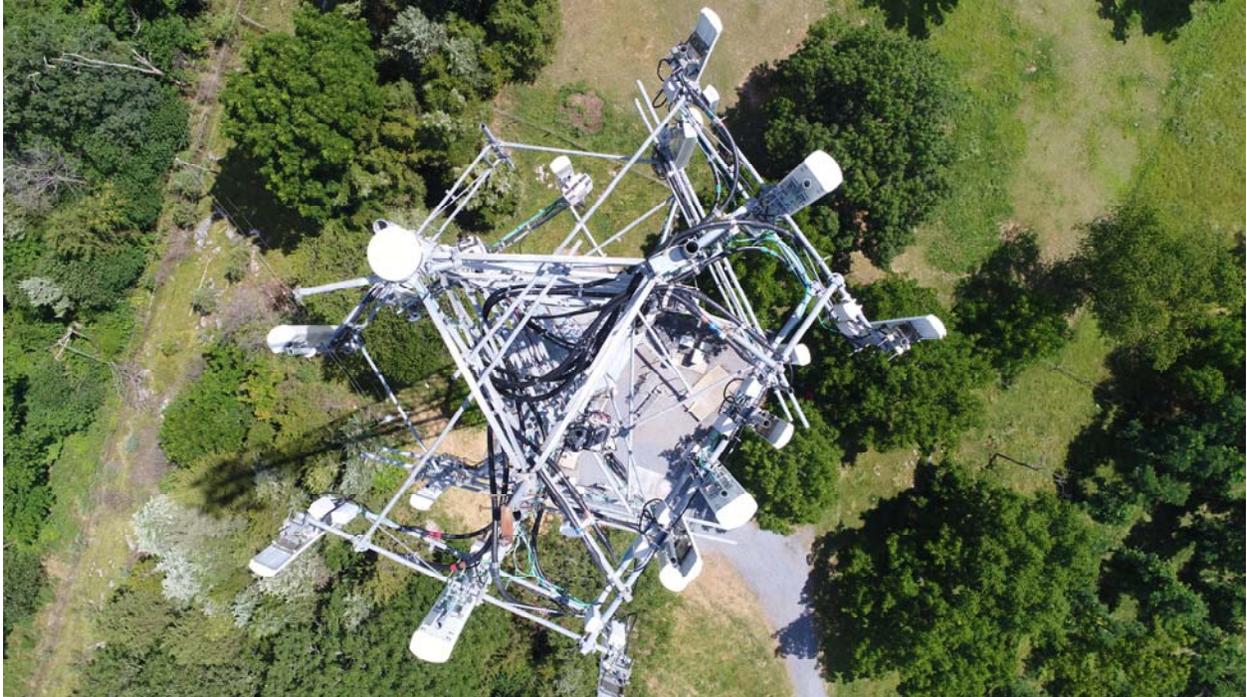
Line of sight 360 degree orbit flight looking in and out



Mounting and cable verification and antenna asset number inspections.



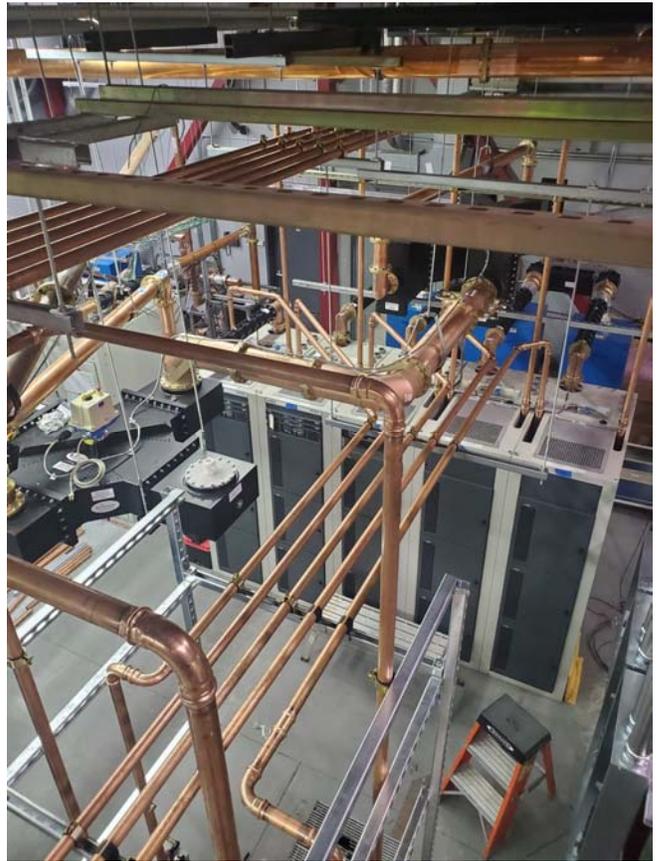
**Custom fabricated
BFD Systems drone
model SE8 for
QForce Thermal/IR
inspections.**



**Overhead view of structure access road
and compound.**



**Some of the 100 Projects that
QComm has completed.
Moral ... Buy copper, they
aren't making any more.**



**Andy Peeler of WLTX (left)
and Richard Hadedorn of
Qcomm (right)**

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Chairman Owen is pleased to announce the appointment of the new Chapter 52 Certification Chairman. He is Tim Kelly of WOSU. Tim can be reached at:

Kellysrv@icloud.com



Early Television Museum

5396 Franklin Street

Hilliard, Ohio 43026

(614) 771-0510.

The [Early Television Foundation](#) is dedicated to the preservation of the technology from the early days of television. Our website's [mission](#) is to preserve and make available to the public the history of early television, from the mechanical systems of the 1920s through the introduction of color television in the 1950s.

Please visit earlytelevision.org and explore this web site which is rich in photographs, schematics, TV details of construction and materials, remanufacturing of pictures tubes, ideas for contributing vintage television studio and transmitter equipment to the museum from your station, and memories. Also consider volunteering some time, and yes even money, to help the museum to survive and prosper. It is certainly centered on the very industry from which we make a living and is a part of our heritage.



Next month a trip down memory lane featuring WLW and VOA. Submit your favorite pictures and stories to the editor. We will do our best to include them in the August Bulletin.

