

## **RCA TECHNICAL SYMPOSIUM:**

**Moderator:** Andrew M. Seybold

### **Presentations:**

#### **"AWA & RCA: Preserving The Past & Creating A Vision For The Future" presented by David Bart**

Learn about the new and growing RCA/AWA collaboration on historic preservation. This will include information about the origins and past of both organizations, and their missions and shared vision for the future. Learn about important inventions, inventors, and milestones of our industry. See the collections and museum facilities of AWA. See how the leaders of the Radio Club of America and the Antique Wireless Association have been working together.

#### **"Current state of 700 MHz Broadband for Public Safety" presented by John Facella**

Several manufacturers demonstrated public safety grade 700 MHz LTE Broadband equipment at this year's APCO show in Houston in August. 21 applicants have been granted waivers by the FCC to operate public safety systems, with many others waiting on their applications, and federal BTOP funds have been awarded to 5 systems. What are the challenges of implementation on a new broadband system using LTE, how can it be made public safety grade, and what will the RF coverage be like as compared to a traditional narrowband land mobile radio system?

#### **"Can Broadband Replace Channelized Wireless?" presented by Andrew M. Seybold**

The current FCC believes that the future of wireless going forward is all about broadband technologies. In this session we will take a look at today's narrowband (channelized) land mobile radio requirements and if they can be met with broadband systems today or in the future.

Can the next generation of wireless broadband provide for off-network, simplex, or tactical communications between units in the field without the need for a cell site or base station? If not today, is this capability on the roadmap for broadband services? If so, when can we expect to see these capabilities, how many "channels" will be supported, and how will one-to-many voice communications be handled?

### **Biographies:**



**David Bart** is the Director of Complex Litigation at RSM McGladrey where he handles bankruptcy matters, commercial damages, forensic investigations and valuation related issues. He is on the Board of Directors for the Antique Wireless Association and is the Technical Curator for the Museum of Broadcast Communications in Chicago. He is also the current President of the Antique Radio Club of Illinois. He has recently been named to the Historical Committee of the Radio Club of America. David has been a featured speaker about communications history at the Antique Wireless Association, New York Historical Society and the American Association of Physics Teachers/American Association for the Advancement of Science Joint AAPT/AAAS Meetings in Chicago. He has been published in the AWA Review and is currently assisting the Institute of Electrical and Electronics Engineers (IEEE) in developing their internet resources on the Edison Medal and the Medal of Honor. David has a BA and MBA from the University of Chicago. He has collected radio, telephone, phonograph and telegraph devices for over 20 years and has enjoyed providing demonstrations and programs for the Boy Scouts of America, school groups and local historical societies.



**John Facella** is the Director for Public Safety Markets at Harris Corporation, Public Safety and Professional Communications (formerly Tyco Electronics M/A-COM). He has 25+ years of experience in public safety radio communications, a BSEE from Georgia Tech, an MBA from Georgia State University, is a registered professional engineer, and a chartered engineer (in the U.K.). He is a member of the Association of Public Safety Communications Officials (APCO), the International Association of Fire Chiefs (IAFC), is a vendor member of the IAFC Communications Committee and served on the "Digital Radio Problem Working Group",

is a member of the National Fire Protection Association (NFPA) and is a member of the NFPA 1221 committee, and is a member of the International Association of Chiefs of Police (IACP) Communications and Technology Committee. He is a life member and Fellow of the Radio Club of America. He is also an active firefighter/EMT with 25+ years of experience.



**Andrew M. Seybold** is CEO and Principal Consultant of Andrew Seybold, Inc. He is one of the most respected and influential champions of mobile wireless innovation. Since 1983, he has served his clients and the industry as an analyst, consultant, commentator and author, and as an active participant in industry trade organizations. Mr. Seybold has and does serve on a number of advisory boards including Motorola's prestigious Visionary Research Council. He is widely known throughout the wireless communications industry for his keen perspective, his sense of what customers want, need and are willing to pay for and his track record for accurately predicting trends in mobile wireless technology and convergence. Mr. Seybold is a frequent speaker at leading industry events such as CES and CTIA Wireless, and at corporate events for Fortune 1000 companies. He was elected a Fellow in the Radio Club of America in 2000 for his contributions to the wireless data industry, and will receive the RCA Sarnoff Citation at this year's RCA banquet. He is a member of the board of directors of the Santa Barbara Amateur Radio Club, a long time commercial member of APCO and serves on the board of directors of Commnexus San Diego. For the past two years Mr. Seybold has been donating his time and efforts to assist the Public Safety community with their nationwide broadband system.

#### **Notes and acknowledgements:**

A. **Thanks** to all of the people that helped produce this event, and particularly:

1. **V.G. Duvall**, Fellow – for handling onsite logistical matters, e.g. furniture, equipment, lighting, welcoming guests, etc.
2. **Bruce McIntyre**, Fellow & Vice President – for miscellaneous assistance before and during the event
3. **Karen Clark**, Fellow & Executive Secretary – for handling registration, some document preparation, A/V ordering, etc.
4. **Andrew M. Seybold**, Fellow – for providing the main laptop PC (loaded with the presentations)
5. **William E. Endres**, Fellow & Executive Committee member – for providing the LCD video projector
6. **Rich Reichler**, Fellow & a former Director - for coordinating/producing this event