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**Radio Club of America Offering IP Training Course for Radio Professionals;
Participants Eligible for CEUs**

(Denver, Colorado) Radio Club of America, a non-profit organization for the advancement of wireless technology in conjunction with ETA[®] International is now offering a course titled “Digital to IP for Radio Personnel”. The course is available through a partnership with the Texas APCO chapter, at the annual Texas APCO conference, April 27, 2009 in Galveston, Texas. The course is appropriate for radio technicians and technical staff.

Tom Janca, CETsr and Richard Biby, PE developed the course. Janca is a telecommunications instructor and presenter for ETA International. Biby is a recognized wireless technology expert with over 25 years of services and applications experience. The seven-hour course will cover terminology, basic networking and provide a foundation for the experienced radio professional to achieve a greater understanding of basic principles of digital IP.

Working in conjunction with RCA, ETA International is developing a companion technical certification as an addition to this training. The Digital 2 Way Radio Network Technician credential will be ready for release later this year. ETA will provide Continuing Education Credit's for the new training. This 1-day seminar is an introduction and preparation for a professional certification, with CEUs being developed by a consortium of experts and industry leaders at the same time. Information regarding ETA International certifications may be found at www.etai-i.org.

For pricing and more details contact Texas APCO at <http://www.txapco.org/>.

The Radio Club of America will host its annual Texas Event Dinner on Tuesday, April 28th, in Galveston Texas at the annual Texas APCO Conference. For additional details and sponsorship opportunities please contact Carroll Hollingsworth.

Radio Club of America is a 501 (c)3 organization with international membership, focusing on preserving the heritage of wireless communications and funding scholarships for young people pursuing broadcast and communications education. The Radio Club is celebrating its 100th anniversary in 2009 with a Gala in Washington, D.C. November 20-22. For information on the 100th anniversary or Radio Club's membership and programs - <http://www.radioclubofamerica.org/>

Founded in 1978, the Electronics Technicians Association International is a not-for-profit, professional association promoting excellence in electronics technologies through certification. The association's initiatives are to provide a prominent certification program of competency criteria and testing benchmarks that steers international electronic standards and renowned professional electronics credentials.

Today, ETA has issued over 100,000 technical certifications covering more than 70 certification programs in a variety of electronics fields. The association consists of over 3,500 members, 700 Subject Matter Experts (SME's) serving on various Industry Advisory Committees and 1,000 Exam/Certification Administrators (CA's). ETA aligns with individual professional goals, vocational and educational curriculums, and businesses' resource initiatives through our certification programs, conferences, speaking engagements, and book and journal publications. www.etainternational.org

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Course Promotion

Digital to IP for Radio Personnel – Overview and Introduction

The one day, seven hour, class is an overview and introduction to the origins and aspects of digital voice communication and TCP/IP networks that make ubiquitous connectivity a valuable development in two-way radio systems in the public and private domains. Radio personnel will learn how analog becomes a digital signal along with terminology and metrics associated with digital communication systems. The second half of the course will introduce the attendee to the world of Ethernet or TCP/IP network systems starting from the conceptual models that define logical operation of the network interfaces to how these networks address and share the “Ether”. Typical network design concepts both logical and physically will be introduced to enable attendees to understand the interconnection of fiber optics, microwave, twisted pair and the two-way radio in a networked system. Completion of the course will provide a fundamental understanding of digital and TCP/IP based networks that are shaping tomorrow’s communications and provide an entry point to further professional development in this expanding arena. Presentation notes will be provided.

Course Outline:

- 1) Origins of the digital BIT—Analog to Digital Conversion
- 2) Digital numbering systems review-binary, hexadecimal
- 3) Digital Voice –PCM to P25 Predictive Encoders
- 4) Digital Radio Channel Performance and Metrics-S/N, BER
- 5) OSI 7 Layer Model intro with Layer 4 through 1 concentration
- 6) Ethernet—802.3 TCP/IP frame, packet, UDP, TCP, equipment and operation
- 7) IP Addressing and subnet masking-Layer 2, 3 and 4 switching and routing
- 8) IP overhead and operation ARP, RIP, RIPv2, OSPF, STP and RSTP
- 9) IP Logical configuration, segmentation and security
 - a. VLANs, Interior and Exterior Gateways, Firewalls, DMZ, Servers
- 10) IP Physical LAN configuration and components intro



Presenters/Instructors

Tom Janca CETsr

Mr. Janca is currently an SAS communication engineer for POWER Engineers and does independent consulting and training. He has given numerous presentations for ETA's national conventions since 2003 on wireless subjects and been a part-time adult technology instructor in corporate and community college environments since 1998. His professional experience began with Motorola's GEG group on a VHF/UHF PET radios as well as working with Bell Labs GCS in 2004 on prototype developments to include the UMTS Base Station Router.

Janca brings over 22 years of experience in technology and is deeply committed to and enjoys both technology and teaching. Mr. Janca brings personal experience and insightful historic perspectives to his presentations in a lively and engaging manner for the audience. His passion is people and the technology that connects and enriches their lives.

Richard Biby

Mr. Biby is a recognized wireless technology expert with over 25 years of services and applications experience. He is currently the owner/publisher of Above Ground Level (AGL) magazine, dedicated to the siting infrastructure industry. He is also currently the CTO of Waterford Consultants, specializing in regulatory compliance and engineering services for the wireless industry.

Mr. Biby is the former CTO at Crown Castle International where he was responsible for regulatory, technical and engineering needs of the company. Previously he was the CTO at Safesite, later purchased by Crown Castle; Sitesafe provided training, field servers and design and zoning support to numerous public safety agencies.

Mr. Biby was the president of Biby Engineering where he worked closely with the telecommunications industry, municipal, state, and federal government. A sample of the projects included the development of proprietary RF propagation modeling software (RF CAD), Digital Television (DTV) Coverage and Interference Analysis, Identification and analysis of potential intermodulation from existing sites to new and/or existing telecommunication sites. Analysis of specific markets for wireless coverage, participation in the design and implementation of wireless networks (Land Mobile/Public Safety/PCS/ Cellular/LMDS/ broadcast TV/DTV) based upon terrain, clutter and urban factors, the development of proprietary point to point LMDS software at 24 and 38 GHz, the digital migrations of Public Safety Networks analog to digital, analysis and mitigation of re-radiating AM radio waves caused by nearby PCS and Cellular telecommunication structures.

In addition he is a registered professional engineer in the State of Virginia. Mr. Biby is has published a number of papers on wireless technologies and applications as well is a frequent speaker at conferences, symposiums and corporate meetings. Mr. Biby holds a BS in Electrical and computer engineering, and a MS in Telecommunications, both from George Washington University.