

114th Awards Presentation SATURDAY, NOVEMBER 18, 2023 DENVER, COLORADO

O ICOM

How The World Communicates

Connect with Icom Radio Solutions Today

Communicate with Icom two-way radio systems. Icom radios are used in the air, on the road, on the water and now in space using Iridium's[®] Satellite technology to allow global communications.

Features include clear-loud audio, easy-to-use interface and rugged military-tested construction.

AIR. LAND. SEA. SPACE.

265.00



www.icomamerica.com insidesales@icomamerica.com

#IcomEveryWhere

TTP





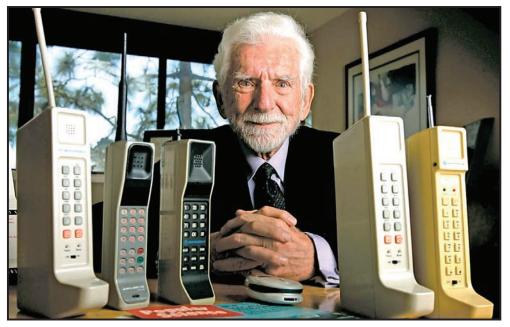
114th Awards Presentation

Awards Program Begins
Welcome Master of Ceremonies: Edward Ryan, Esq.
RCA Welcome David Bart, RCA President
2023 Technical Symposium Awards Presenter: Dr. James Breakall
Fellows Presentation Edward Ryan
Dinner
Keynote AddressDr. Martin "Marty" Cooper/Dr. Dale Hatfield
Awards Overview Edward Ryan
RCA Business Award Timothy Duffy
Jerry B. Minter AwardEugene Tan
Ralph Batcher Memorial Award Lynn Bisha
Radio Club of America Special Services Award Ray Novak
Carole Perry Young Professional Award Ruth Willet
Salute to Past Presidents and Board Members David Bart, RCA President
Edgar F. Johnson Pioneer Citation Stephen A. Nichols
NPSTC DeMello AwardD. Terry Hall
Alfred H. Grebe AwardTed Henry
Jay Kitchen Leadership Award Todd Schlekeway
Lee DeForest Citation Charles J. Soulliard
Sarnoff Citation Steve Floyd
Special Recognition AwardAlan Tilles
President's AwardKaren Clark
Introduction of New Awards: "Dr. Ulrich L. Rohde Award for Innovation in Applied Radio Science and Engineering" and "Dr. Arno A. Penzias Award for Contributions to Basic Research in the Radio Sciences"
Armstrong Medal Dr. Ajay Poddar
Closing Remarks and Thank You David Bart
Wrap Up Edward Ryan

RCA 2023 Banquet Special Commemoration: Dr. Marty Cooper

The Radio Club of America (RCA) is thrilled to announce that Mr. Martin "Marty" Cooper will be featured at the 2023 banquet and awards ceremony to be held in Denver, Colorado. Originally scheduled to speak at RCA prior to the pandemic, we are thrilled to see Dr. Cooper in person in 2023.

This year marks the 50th anniversary of Dr. Cooper's historic walk on Sixth Avenue in Manhattan, the first public demonstration of a mobile handheld telephone. Dr. Cooper will be introduced by his spouse, Ms. Arlene Harris, recipient of RCA's 2022 Wireless Innovation Award, and a legend of her own in the wireless industry, known as "the first lady of wireless."



Dr. Marty Cooper with original Motorola mobile phones.

Dr. Cooper is the recipient of numerous awards including RCA's Fred Link Award and Lifetime Achievement Award. Among his many honors, he is an IEEE Centennial Medalist, Marconi Prize recipient, IEEE Eta Kappa Nu Eminent Member, and Charles Draper Prize recipient from the National Academy of Engineering. He has been inducted into the Consumer Electronics Hall of Fame and Wireless History Foundation's Wireless Hall of Fame. He is a lifetime member of the IEEE, was president of its Vehicular Technology Society. In 2007, *Time* magazine named him one of the "100 Best Inventors in History." He is a Prince of Asturias Laureate.

DR. MARTY COOPER

Dr. Cooper, is a pioneer in wireless communications and radio spectrum management who has eleven patents. He invented the first handheld cellular mobile phone in 1973, led the team that developed it and brought it to market, and is considered the father of the handheld cell phone. He is also cited as the first person to make a handheld mobile phone call in a public demonstration.

He was born in Chicago and graduated from the Illinois Institute of Technology (IIT). He served as a submarine officer during the Korean War, later returning to IIT and earning his master's degree in electrical engineering, and also receiving an honorary doctorate degree. He currently serves on the university's board of trustees.

Dr. Cooper started his career at Cooper Teletype Corporation and then joined Motorola, Inc. as a senior development engineer in the mobile equipment group. He worked at Motorola for the next 29 years, rising to Vice President and Corporate Director of Research and Development. He was responsible for building and managing Motorola's paging and cellular businesses. He also led the creation of trunked mobile radio, certain types of oscillators, liquid crystal displays, piezo-electric components, Motorola AM stereo technology and various mobile and portable product lines. He was instrumental in expanding pager technology from use within a single building to use across multiple cities. He also worked to enhance the manufacture of quartz crystals used in Motorola's radios, that later benefitted the company when it started mass-producing the first crystals used in wristwatches.

LATER YEARS

A serial entrepreneur, Dr. Cooper and his wife, Arlene Harris, cofounded numerous wireless technology companies. This includes Cellular Business Systems, SOS Wireless Communications, GreatCall, and ArrayComm. He is currently chairman of Dyna LLC and a member of the FCC's Technological Advisory Council.

Denver - Host City for the 2023 Radio Club of America Banquet and Technical Symposium.



Mobile phone evolution. (Courtesy Evolution of Mobile Phones, Misstaylorknight Timeline)

COOPER'S LAW

"Cooper's Law" addresses the efficiency of voice/data communications over the radio spectrum. He found that the ability to transmit different radio communications simultaneously and in the same place has grown at the same pace since Guglielmo Marconi's first transmissions of wireless telegraphy at the end of the 19th century. This led Dr. Cooper to formulate the Law of Spectral Efficiency, otherwise known as Cooper's Law. This law states that the maximum number of voice conversations or equivalent data transactions that can be conducted in all of the useful radio spectrum over a given area doubles every 30 months.

Today, the number of radio signals in the world that can be simultaneously sent without interfering with each other exceeds one trillion. This is based on calculations involving effective signal strength and how much today's technology has split up the electromagnetic spectrum. The partitioning of the spectrum in ever finer degrees is one reason why a roomful of people can now simultaneously use their mobile phones, Bluetooth headsets, WiFi laptops, etc., without their signals interfering with one other. Cooper's Law implies that wireless Internet connections will reach ever more people at ever greater speeds until, theoretically, everyone is able to use the full radio spectrum without interfering with anyone else.

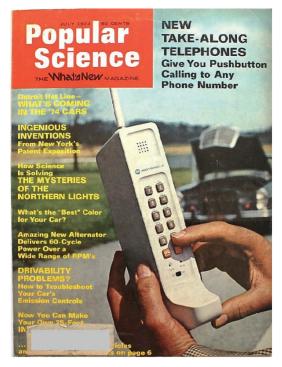
THE FIRST HANDHELD MOBILE PHONE

Inspired by Dick Tracy's wrist radio in the Sunday newspaper cartoons, Dr. Cooper believed from the beginning that the cellular phone should be a "personal telephone – something that would represent an individual so you could assign a number; not to a place, not to a desk, not to a home, but to a person." Motorola invested \$100 million between 1973 and 1993 bringing the product to market before any revenues were realized. The original handset, the DynaTAC 8000x (DYNamic Adaptive Total Area Coverage) weighed 2.5 pounds (1.1 kg) largely due to the battery. It measured 10 inches (25 cm) long and was dubbed "the brick" or "the shoe" phone and had only 30 minutes of talk time before requiring a 10-hour recharge. Within ten years, the size and weight reduced by half.

On April 3, 1973, Dr. Cooper famously demonstrated two working phones to the media and to passers-by prior to walking into a scheduled press conference at the New York City Hilton in midtown Manhattan. Standing on Sixth Avenue near the Hilton, Cooper made the first handheld cellular phone call in public from the prototype DynaTAC. Reporters and onlookers watched as Cooper dialed the number of his chief competitor Mr. Joel S. Engel at AT&T. "Joel, this is Marty. I'm calling you from a cell phone, a real handheld portable cell phone." That public demonstration landed the DynaTAC on the July 1973 cover of Popular Science magazine. As Cooper recalls from the experience: "I made numerous calls, including one where I crossed the street while talking to a New York radio reporter – probably one of the most dangerous things I have ever done in my life."

CUTTING THE CORD

In January 2021, Dr. Cooper published *Cutting the Cord: The Cell Phone Has Transformed Humanity*. The book/ memoir offers an intimate and fascinating account of the cell phone story. It includes lessons about the keys to innovation, how to manage it, failure and why it is important to innovation, and how to inspire others. Dr. Cooper offers readers his life's lessons, gleaned from his unique perspectives derived from many years of leading dreamers who are dedicated to making the future a reality.

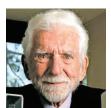


Report of the public demonstration of the DynaTAC.

Dale Hatfield Joins Dr. Marty Cooper for an RCA Fireside Chat

The special banquet presentation will be a wide-ranging fireside chat talking about a half-century of wireless developments, the invention of the portable phone, future outlooks, innovation, challenges, and views about what. the future holds.

 Marty Cooper is a pioneer in wireless communications and radio spectrum management who has eleven patents. He invented the first handheld cellular mobile phone in 1973, leading the team that developed it and brought it to market. He is considered the father



Dr. Marty Cooper

of the handheld cell phone. He is also cited as the first person to make a handheld mobile phone call in a public demonstration. (See related article in this issue about Marty Cooper's background.)

• Dale Hatfield has spent over 50 years building and shaping telecommunications policy. His efforts and experiences at the FCC and NTIA literally comprise

an alphabet soup of acronyms, including time spent as the FCC's Chief of the Office of Engineering and Technology and as the Chief of the Office of Plans and Policy. Dale, even in retirement from the government, currently serves on several FCC and other advisory



Dale Hatfield

councils. He has widely published, and his ITU publication Trends in Telecommunication set a new standard for foresight and policy recommendations. Dale has literally been involved with spectrum management issues for his entire career. Today, he is a professor at the University of Colorado and an executive fellow at the Silicon Flatirons Center for Law, Technology, and Entrepreneurship, and a Director of Crown Castle International Corporation. In 2022, Dale received the Radio Club of America's Jay Kitchen Award for his industry leadership.

We welcome Marty, Dale and all our guests at this very special event!



THANK YOU 2023 SPONSORS

The Radio Club of America Board of Directors and its members would like to thank the generous 2023 sponsors. Be sure to tell them that you saw their company mentioned in the Radio Club of America Awards Program.



Ernie Blair | James Breakall | Mercy Contreras | Margaret Lyons | Stan Reubenstein Charles & Mary Soulliard | Nancy Smith | Stephen A. Nichols

ANNUAL RCA SPONSORS





















Banquet Master of Ceremonies



Edward Ryan, Esq. is a patent attorney and an amateur radio operator. He joined the RCA in 2016, with the twin goals of networking and staying current with developments in the wireless industry. His professional work has dealt with electronics, semiconductors, and wired and wireless network technologies, as well as trademarks and other intellectual property matters. Edward has a B.S. in Physics from Carnegie Mellon University (2005) and a J.D. from Fordham University School of Law (2008), and has been registered as a patent attorney since 2009. His experience with volunteerrun organizations spans two decades, including social organizations and a local civic organization.

Welcoming Speaker



David Bart is the current President of the Radio Club of America, Editor of the RCA *Proceedings*, and an RCA Fellow. He is also the Treasurer of the IEEE History Committee and a Director and Fellow of the Antique Wireless Association. He is a former Editor of the AWA Review and the former Vice President of the Museum of Broadcast Communications in Chicago. He is also a member of the Collections Committee of the Adler Planetarium in Chicago. He has published over 100 articles, contributed to three books and produced over 40 exhibits and displays on the history of wired and wireless communication. David has a BA and MBA from the University of Chicago and holds multiple professional certifications. He has received numerous awards for his work involving the history of communications.





2023 RCA Award Recipients



DR. AJAY PODDAR, Armstrong medal

RCA's first award was presented to Major Edward H. Armstrong for his invention of circuits that made AM and FM radio possible, and for Major Armstrong's lifetime of championing the work that established the foundation for modern

radio technology. The award, now known as the Armstrong Medal, is only bestowed when an individual has demonstrated excellence and made lasting contributions to the arts and sciences of radio.

Dr. Poddar graduated from IIT-Delhi, India; receiving a Doctorate (Dr.-Ing.) from Technical University Berlin, Germany; and a Post-Doctorate (Dr.-Ing. habil) from Brandenburg Technical University Cottbus, Germany. From 1991 to 2001, he was a Senior Scientist, responsible for many scientific research projects, including RADAR, guidance systems, and sensors for mine detection and underwater communication. He is currently a Chief Scientist with Synergy Microwave; a Full Professor with Oradea University, Romania; a Guest Lecturer with Technical University Berlin; and an Academic Advisory Board Member of the Don Bosco Institute of Engineering, Mumbai, India.

He has published over 350 scientific papers in journals and international conferences and has authored/coauthored six technical books. For the past 30 years, he has been serving on several scientific committees, professional societies, and voluntary organizations. He holds more than forty patents. He has received over two dozen awards for technological innovations and meritorious services.



DR. EUGENE TAN, JERRY B. MINTER AWARD

This award, established in 1996, recognizes innovative work in instrumentation, avionics, and electronics.

Eugene Tan, PhD, received his bachelor's in engineering summa cum laude, master's in engineering, and PhD

in Engineering from McMaster University. He has extensive experience in bringing research programs to commercialization. Eugene joined ANDE (then known as NetBio) in 2002 and has held a series of senior management positions. He currently serves as Chief Product Development Officer. Dr. Tan is responsible for the design, build, testing, and optimization of both the Rapid DNA consumable chips and the fully automated Rapid DNA instrument. He designed the instrument's optical, mechanical, and electrical subsystems, creating the first ever field-forward Rapid DNA analysis instrument.

Dr. Tan led the worldwide effort to obtain regulatory approval for the forensic human identification Rapid DNA product line, based on a 27plex end-point PCR amplification (the FlexPlex Assay) followed by electrophoretic detection and laser-based fluorescence detection. The system was approved for law enforcement use by the FBI in 2018 based on evaluation of over five thousand study subjects. In 2017, the US Senate and House unanimously passed the Rapid DNA Act, allowing the FBI-approved Rapid DNA System to be utilized to test arrestees in police stations across the US. The system was also approved by the DoD and many international agencies. The forensic system is used outside the laboratory by non-technical users and has had many high-profile successes.

SUPPORT RCA WITH A TAX-DEDUCTIBLE CONTRIBUTION

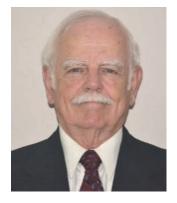


Help RCA continue its mission of advancing wireless art and science for the betterment of society by making a tax-deductible donation today! RCA believes in the future of the industry and your contribution will help us with the important work of encouraging the next generation of wireless pioneers and entrepreneurs. Consider making a donation in someone's honor as a memorial or gift.

> Donate online at www.radioclubofamerica.org/donate-to-rca/ or call us at (612) 405-2102 to contribute.







LYNN BISHA, RALPH Batcher Memorial Award

Established in 1976, this award is presented to an RCA member for their significant work in preserving the history of radio and electronic communications.

A longtime association member and Museum

Staff member of the Antique Wireless Association, Lynn has served and is serving in leadership positions including as an AWA Board Trustee, Associate Curator and the fourth Curator in AWA's 71 years.

As AWA Curator, Lynn is responsible for the AWA Museum collection growth and enhancement activities as well as the design, development, and operation of the Museum exhibits. Under Lynn's technical and management guidance, the world-renowned AWA Museum collection continues to grow and be enhanced. Lynn is responsible for artifact decisions on collection acquisitions and dispositions as well as how they are displayed. The AWA collection has at least quadrupled during his Curator tenure. He is fully committed to great stewardship of the history contained in the AWA collection and is a key contributor to AWA's success in the preserving and sharing of the history of radio and electronic communications. This includes the 100+ years of Radio Club's history and archives.

Lynn also serves as one of the five officers of the AWA corporation. He is an AWA Fellow, the recipient of the AWA's Director's Award in 2016, and recipient of AWA's Lauren Peckham Award in 2021. He is a member and Fellow of the Radio Club of America, a member of the Rochester Amateur Radio Association, and a member of the Board of the Rochester DX Association.

Lynn is a Navy veteran who served on the USS *Enterprise* and has retired from a long career in electronic systems maintenance.



STEPHEN A. NICHOLS, Edgar F. Johnson Pioneer Citation

Established in 1975, this award recognizes long-time RCA members who have either made noteworthy contributions to the success of RCA or to the radio industry. Originally known as the Pioneer Citation, this

award was later named in honor of Edgar F. Johnson, the founder of radio manufacturer E.F. Johnson.

Stephen (Steve) Nichols is the Executive Director of the Project 25 Technology Interest Group (PTIG). He has led the organization for the last 9 years. PTIG is a not-for-profit organization dedicated to the promotion and application of the Project 25 (P25) digital radio Standard for Land Mobile Radio technology. PTIG's members include radio users, manufacturers, and consultants involved with the development and operation of P25 Public Safety, Government and Critical Infrastructure radio systems.

In December of 2013 he retired from Thales Defense and Security, Inc. Mr. Nichols had been with Thales for 16 years leading business development activities for the company's Project 25 radio product lines, including the industry's first multi-band multi-mode land mobile radio. He has more than 30 years of experience in the land mobile and public safety radio industries in various product development, marketing, and business development positions. Mr. Nichols previously worked for Thales' predecessor organizations, Racal, EF Johnson, Bendix King, Uniden, RELM, and Hy-Gain Electronics.

Mr. Nichols is a member of APCO, ACP, IAFC, The Radio Club of America, and previously served as a member of the APCO Commercial Advisory Board, a contributor to NPSTC, and has represented numerous manufacturers at the TIA TR-8 standards meetings as well as Project 25 technology panels.



ALAN TILLES, RCA Special Recognition Award

Initiated in 2000, this award is given in recognition of dedicated service to the Radio Club of America.

Mr. Tilles has been a leader in the land mobile radio industry for decades. Those

leadership initiatives include authoring rules for land mobile radio frequency coordination and narrowbanding; representing hundreds of public safety entities in 800 MHz rebanding; working with the Telecommunications Industry Association on its Smart Building Initiative, authoring rules defining interference; writing and evaluating Requests for Proposal to implement public safety radio systems; and helping railroads acquire spectrum for Positive Train Control.

Mr. Tilles served as counsel to the National Association of Business and Educational Radio (NABER), and its successor organizations (PCIA and WIA) beginning in 1986, served as co-counsel for The Radio Club of America from 2010-2015, and was a member of the Board of Trustees of Capitol Technology University from 2010-2021.

Mr. Tilles continues to serve the industry today. He is defining technology as a co-founder of, and Counsel to, the Government Wireless Technology & Communications Association (GWTCA).



D. TERRY HALL, NPSTC'S Richard Demello Award

The National Public Safety Telecommunications Council (NPSTC) developed this award in 2006 to honor the achievements of Richard DeMello, a member of the Radio Club of

America who was instrumental in bringing radio spectrum frequency coordinators together to form NPSTC. The NPSTC award recognizes an individual in public safety communications who has demonstrated the highest levels of personal and professional conduct and performance in local, state, and national public safety communications.

Terry Hall has served over thirty years in public safety in many capacities. Prior to assuming his current position as Director of Emergency Communications for the York-Poquoson-Williamsburg Emergency Communications Center. Terry Hall remains a sheriff's deputy after actively serving seven years with the York County Sheriff's Office. Director Hall has been recognized as a leader across the United States and is often called upon as a Subject Matter Expert pertaining to issues concerning public safety, emergency communications and emerging technologies. Through Director Hall's leadership and vision, he was able to oversee the building and design of a state of the art 9-1-1 facility and also the consolidations with the Cities of Poquoson and Williamsburg 9-1-1 Centers. Terry Hall is the Systems Manager for a regional state-of-the art P25 radio system that encompasses six localities, 25 sites and over 6,000 subscribers that cover approximately 1,000 square miles. York County was the first 9-1-1 Center in the Country to develop and deploy wireless location technology and provided the model for systems that are now being implemented and used throughout the United States. Additionally, York County became the first in the world to develop and deploy Text to 9-1-1. He chaired the Regional Advisory Council in Virginia and began the migration to full Next Generation 9-1-1 deployment. He served as Chair of Virginia Statewide Interoperable Executive Committee that recommended to the Governor to opt into FirstNet. Also past Chair of SAFECOM and currently represents the National Association of Counties.

Terry served as President of the Association of Public-Safety Officials International. As President of APCO International, Terry represented more than 20,000 members worldwide, chaired the APCO International Global Alliance, represented public safety worldwide, testified before Congress and served on the University of Melbourne Disaster Strategic Board. He chaired the Regional Advisory Council in Virginia and began the migration to full Next Generation 9-1-1 deployment. Past Chair of SAFECOM representing all Public Safety and Public Service and was enacted by Congress after the events of September 11, 2001.

2023 RCA Award Recipients





RAY NOVAK, RCA SPECIAL SERVICE AWARD

The Special Services Award was established in 1975 to recognize those RCA members who have performed significant work to advance the goals and objectives of the Radio Club of America.

Throughout Ray Novak's

nearly three-decade career in the communications equipment industry he has been an innovator, leader, and tireless champion of bringing more youth into amateur radio. During his career he has learned from some of the best in the industry and is now continuing that tradition by mentoring new leaders as well as welcoming more youth through several initiatives.

Ray began his career in 1988 at MFJ Enterprises as an electronics technician after graduating from Northeast Mississippi Community College. From there he moved into international sales, later adding domestic sales to his role as sales manager. He credits Martin Jue, founder of MFJ, as an early career mentor and coach.

Ray joined Icom America in 1994, starting in technical support, moving to district sales manager in 1995, national sales manager in 1999, division manager in 2002 responsible for all amateur radio and receiver sales, and in 2014 he became responsible for land mobile radio, serving as Senior Sales Manager.

He credits his advancement to his colleagues Hiro Nakaoka, president; Bob Carey, retired vice president; and Chris Lougee, vice president. More recently that has included Nick Pennance, vice president, who is a supporter of youth activities at Icom. Ray has also learned from Gordon West and Carole Perry.

Through his and Icom America's support of countless hamfests, Contest University, Ham Nation, AmateurLogic.tv, along with an innovative multifaceted sponsorship agreement with the Boy Scouts of America, to name just a few, he has served to significantly advance amateur radio across the country and around the world.

Ray is a Fellow of The Radio Club of America, ARRL Lifetime Member, DXpeditioner to Mozambique and Bhutan, continuous supporter of engaging youth in amateur radio. He writes about amateur radio and land mobile topics on the Icom America blog at <u>http://blog.icomamerica.com</u>.



STEVE FLOYD, SARNOFF CITATION

The Sarnoff Citation, established in 1973 and named after Radio Corporation of America's David Sarnoff, recognizes exceptional contributions of a technical or nontechnical nature to the advancement of electronic communications.

Steve Floyd became a licensed Amateur Radio operator at 12 years old and is active as W4YHD. He is a BSEE graduate of Virginia Tech, a former student DJ and Chief Engineer at WUVT-FM in Blacksburg, Virginia. He obtained his MSEE (with emphasis on RF and Microwave Engineering and Radar Systems Engineering) from Johns Hopkins University in 1991.

Steve began his professional career designing high power RF communications and Radar systems at E-Systems Inc., then became Chief RF Systems Design Engineer for HAARP (High-frequency Active Auroral Research Program), working at APTI/BAE Systems. As Chief Engineer for the HAARP facility, he was responsible for all hardware systems designs, equipment installation, and site operations until 2014, when he became a part time consultant to the program.

Steve's current responsibilities are primarily involved in the design of high power SDR based Radar systems, including EW and Communications systems, at Ultra Electronics. He is also active in the broadcast industry. He is a member of the Society of Broadcast Engineers, DC Chapter 37, and has a lifelong love of radio broadcasting and amateur radio.



TIM DUFFY AND DX ENGINEERING, RCA BUSINESS AWARD

This award recognizes an entrepreneurial business that produces a product for the wireless industry or provides a service to the wireless industry. It is awarded in 2023 in recognition of many contributions made by

DX Engineering and Tim Duffy to both the Radio Club of America and to the wireless industry.

Tim Duffy, K3LR, is the Chief Executive Officer of DX Engineering. Licensed in 1972, he is very active on the HF bands and enjoys hosting multi-DX radio contest events.

Tim graduated from Pennsylvania State University. In 1999, he moved to Oklahoma where he was the Chief Technology Officer and Senior Vice President at Dobson Communications Corporation (Cellular One). In 2007, Dobson merged with AT&T, and he then served as AT&T's Executive Director in the Network Planning and Engineering Group. In 2009, he left AT&T to join Stelera Wireless as its Chief Technology Officer, where he was responsible for the company's technology direction, subscriber product development, engineering related operations and network build out. Tim is presently the Chief Executive Officer of DX Engineering.

Tim is president of his local ham club, the Mercer County Amateur Radio Club, for over 20 years. He is active in RACES, ACES, and ARES. Tim is a member of the CQ Contest Hall of Fame and was on Team USA for the World Radio Team Championship (WRTC) five times. He is the founder and chairman of Contest University (CTU). He is chairman of the Worldwide Radio Operators Foundation (WWROF).

Tim received the 2015 Amateur of the Year Award presented by the Dayton Hamvention® Awards Committee and the 2016 YASME Excellence Award. He has been an active contest operator for 49 years and has hosted over 145 different operators as part of the K3LR multi operator DX contest efforts since 1992, which have made over 800,000 QSOs.

Tim served on the ARRL Contest Advisory Committee as a member and multi-year Chairman. He has been an active member of the CQ Contest Committee for 31 years and was the Atlantic Division Technical Achievement award winner in 1998. He was moderator of the Dayton Contest Forum for 10 years and has been moderator of the Hamvention Antenna forum for 38 years. He is a founding member and Vice President of the North Coast Contesters. He serves as founder and chairman of Contest University (15 years) and the Dayton Contest Dinner (28 years), chairman of the Top Band Dinner (9 years) - as well as coordinator of the Contest Super Suite (35 years) in Dayton. He is the founder and moderator of the popular RFI Reflector. He has been a guest on Ham Nation many times. Tim was a member of Team USA at WRTC - five times.

Tim received the Barry Goldwater Amateur Radio Service Award from the Radio Club of America (RCA) in 2010, and he was President of RCA from 2016 to 2018. He was elected to the CQ Contest Hall of Fame in 2006. He served as ARRL Section Manager for Western Pennsylvania 2015/2016 and currently serves as a director on the ARRL Foundation board.



CHARLES J. SOULLIARD, LEE DE FOREST AWARD

The Lee de Forest Award, originated in 1983, is presented to an individual who has made significant contributions to the advancement of radio communications.

Charles started Midian Technologies in 1975. The first products

were tone signaling modules for land mobile radio, and later covered DTMF, pulse tone, two-tone, and five-tone encoders, and decoders. Midian was the first to design these products, and these modules were adopted by many two radio manufacturers to install in their radios. Midian was the first to design and manufacture after-market 2805/1500 Hz and 600/1500 Hz MTS pulse tone decoders, and also the well-known SECODE SMART/

IMTS/DTMF radio-telephone encoders-decoders with ANI.

In 1981, Midian entered the voice security market by introducing the world's first voice scrambler small enough to fit inside a portable two-way radio. He also made telemetry and GPS modules and tracking systems for LMR and HAM accessory company Pryme with a proprietary version of APRS.

Mr. Souliard is a multiple patent holder. Now retired, he is a long-standing member and Fellow of The Radio Club of America with call sign K7JTJ.

2023 RCA Award Recipients





TODD SCHLEKEWAY, Jay Kitchen Leadership Award

Established in 2019, this award recognizes an individual who embodies the following characteristics: energetic advocacy, cooperation, avid interest and respect for all, and humor, and for someone who has

achieved a high level of success leading a wireless association, government agency, or commercial enterprise.

Todd Schlekeway is well known for his volunteering and mentorship. Todd became the Executive Director of the National Association of Tower Erectors (NATE) in June 2012. He currently serves as President and CEO, providing overall leadership and vision working in concert with the Association's staff, Board of Directors Volunteer Standing Committees, Wireless Industry Network, and approximately 820 member companies. Todd is a speaker and promoter of new ideas and concepts, where one of his noted subjects and presentations addresses issues regarding why the demand for wireless is outpacing the industry's labor resources. He opens the thought process on how to effectively recruit, train and retain talent and concepts as to working with both institutions and the federal government to solve this issue.

Todd is a sought-after speaker on the future of employment within wireless and the need to find technicians to build wireless infrastructure.

Todd was the founder and principal of a public affairs and communications firm called Full Court Strategies Group LLC, where he has extensive experience in the areas of government relations, media relations, client relations, issue advocacy, event management, strategic planning and budgeting. Todd worked on the U.S. Presidential Inaugural Committee in 2004-2005 and on several high-profile U.S. Senate campaigns in South Dakota. Todd has also served two terms in South Dakota's state legislature, where he represented a Sioux Falls legislative district in both the State House and the State Senate.

Todd received his undergraduate college degrees from the University of Sioux Falls (USF) with a BA in History/Political Science and a BS in Exercise Science. He also earned a master's in education (M.Ed.) from USF. Todd participated in collegiate athletics as a member of the University of Sioux Falls basketball team during his tenure.



KAREN CLARK, RCA President's Award

This award was established in 1974 to honor individuals who, in the opinion of the President, have demonstrated unselfish dedication to the work of the Radio Club of America.

Karen Clark has been a member of the Radio Club of America since 1999, Fellow since 2004, RCA Executive Secretary 2007-2013, and an RCA Director in 2003-2007, 2013-2019, and 2023-present. Karen has served on a range of RCA committees, including the Website, Banquet, Publications, Regional, Good & Welfare, and Sponsorship.

Karen has worked in the wireless industry for over 24 years, specializing in publishing. She has worked with Biby Publishing on *AGL Magazine* and PRIMEDIA Business Media on *Mobile Radio Technology, Cellular Business, RF Design,* and more.

Karen is currently Project Manager with Telogistix and Vice President of Colorado Wireless Association and Sponsorship Chair for the past 6 years. She received the Radio Club of America Special Services Award in 2002, Special Recognition Award in 2013, Premier "Above & Beyond" Award in July 2001, and Outstanding Support Award in August 1998. She is also the Secretary/Treasurer for the Rocky Mountain Midget Racing Association for the past 10 years.



RUTH WILLET, CAROLE PERRY YOUNG PROFESSIONAL AWARD

A new award in 2023, the Carole Perry Young Professional Award was established to honor a Young Professional who was part of the RCA Youth Activities Program in their formative years and who has gone on to a

career in wireless science.

Ruth Willet is a second-year graduate student in Acoustics at Pennsylvania State University, where she is working as a research assistant in Acoustic Prognostic Health Management. In May 2023, she presented her research at the 184th meeting of the Acoustical Society of America. Ruth graduated summa cum laude from Kettering University in 2021 with a double major in Engineering Physics and Mechanical Engineering and a minor in Acoustics. Throughout her undergraduate education and prior to starting graduate school, she worked at Textron Specialized Vehicles in Augusta, Georgia.

Ruth, KM4LAO, is also an accomplished Amateur radio operator. After becoming licensed in 2015 due to an interest in Morse code, she earned her Amateur Extra class license within a year. In 2018, she was awarded The Radio Club of America's Young Achiever Award, which was presented at the International Wireless Communications Expo, and the ARRL Hiram Percy Maxim Memorial Award. She restarted the Kettering University Amateur Radio Club and served as its president for several years. She is now in her second year as event planner for the Penn State Amateur Radio Club. She is also the assistant camp director for Youth on The Air (YOTA).

Ruth is well-known for her enthusiastic approach to life and ham radio, and has been featured on the ICQ Podcast, multiple international magazine articles, an Amateur Radio on the International Space Station (ARISS) pre-contact video, several YOTA workshops, multiple satellite communications workshops, and many video and podcast interviews.



TED HENRY, ALFRED H. Grebe Award

Established in 1994, the Alfred H. Grebe Award recognizes significant achievements of excellence in the engineering and manufacturing of radio equipment.

Prior to closing the Henry Radio retail operation

in Los Angeles, Ted Henry along with his father Ted Henry Sr. manufactured a unique line of High-Power HF Amplifiers for the Commercial and Amateur Radio Markets. The addition of solid-state VHF/UHF amplifiers completed the product line; and these items are still being manufactured and sold to this day under new ownership.





www.radioclubofamerica.org Radio Club of America, 13570 Grove Dr. #302, Maple Grove, MN 55311 612-430-6995



2023 RCA Fellows



ANGELA R. BATEY

Angela is certified by the Georgia Peace Officers Standards and Training Council as a Senior Instructor and has worked in public safety for more than 35 years, working her way up from front-line Telecommunicator, serving as a Communications Training

Officer and Shift Supervisor before becoming a part of the management team. She spent eleven years as a Training Coordinator and Professional Standards Manager at an Atlanta area 911 center before accepting a position as the coordinator of the communications training program for the Georgia Public Safety Training Center.

She graduated with the inaugural Certified Public-Safety Executive program and credits the program with preparing her for her current role as the President of APCO International. Before being elected to the Executive Committee, Angela represented the Gulf Coast on the APCO Board of Directors. She is the past chair of APCO's Group Leaders (liaisons between APCO committees and the Board of Directors), and the Communications Center Standards and Conference and Exposition Advisory Committees.

Currently working as the Director of the Office of Professional Standards at GPSTC, Angela is responsible for policy development and implementation, internal investigations, administrative reviews, and special projects. Angela has a master's degree in Post-Secondary Education with a concentration in Adult Education from Troy University and a bachelor's degree in criminal justice from St. Leo University. She also holds a certificate of Paralegal Studies and an associate degree in psychology from Clayton State University. She is also an APCO International Registered Public-Safety Leader (RPL).



CHERYL GIGGETS

Cheryl brings a wealth of experience gained over more than three decades in the Wireless Telecommunications Industry, specializing in Public Safety Communications consulting for local, state, and federal government

agencies. Cheryl held positions of leadership in large Architectural and Engineering firms, throughout her career, resulting in her role as a Senior Vice President in a Fortune 500 firm. In 2017 she founded CTA Consultants, LLC, and currently serves as Principal Consultant on city/county systems, multi-jurisdiction regional systems, and statewide systems across the U.S.

Cheryl has significant experience with Project 25 and the procurement, development, and ongoing maintenance and support needed for the successful application of P25 Technology. Her objectivity and experience as a leading P25 consultant have resulted in numerous successful P25 System designs and deployments including the U.S. Department of Justice Integrated Wireless Network (IWN), Commonwealth of Virginia Statewide Agencies Radio System (STARS), Oregon Wireless Interoperability Network (OWIN), Florida Statewide Law Enforcement Radio System (SLERS), and the Pima County Wireless Integrated Network (PCWIN).

Ms. Giggetts experience also includes Cost Management and Analysis, involving the development of complex project life cycle and sustainability models, project benefit/cost analysis, and contract negotiations. An integral part of this cost management is the development of strategic plans, gap analysis, risk analysis, and risk mitigation strategies, which critically support a successful project/program business strategy.

Cheryl has demonstrated her commitment to her community by serving on public safety, technology, workforce development, and STEM education nonprofit Boards of Directors. She has also demonstrated her commitment to her profession by serving on the Project 25 Technology Interest Group (PTIG) Board of Directors and participating in multiple developmental working committees and panels for APCO International, NENA International, iCERT, and NIST.

JEFF BRATCHER



Mr. Jeffrey Bratcher is the Chief Network and Technology Officer of the FirstNet Authority. Mr. Bratcher is a key leader involved with the shaping of the technology for the Nationwide Public Safety Broadband Network (NPSBN). He led the formation of the

FirstNet Authority technology teams as well as the state-of-the-art Innovation and Technology lab located at the FirstNet Authority office in Boulder, Colorado. Building upon his success as the Chief Technology Officer, Mr. Bratcher was also appointed to lead the network team overseeing the implementation of the nationwide FirstNet broadband network built with AT&T.

Mr. Bratcher began his federal service in 2003 with the National Telecommunications and Information Administration (NTIA) Institute for Telecommunication Sciences (ITS) also located in Boulder, Colorado. Prior to joining federal service, he worked for ten years within the wireless private sector deploying several of the first digital cellular systems in U.S. and international markets.

Mr. Bratcher received his BS in Electrical Engineering from Texas Tech University and his MS in Telecommunications from Southern Methodist University.



JON PAUL BEAUCHAMP

Jon Paul Beauchamp is a lifelong end user of two-way radio communications. While in high school, and while at West Chester University, he volunteered with two ambulance companies, became a firefighter, earned his bachelor's degree in criminal

justice (with dual minors in Political Science and Social Work), all while serving a local agency as a police dispatcher. After College, Beauchamp spent 20 years working as a private investigator, providing support for several national and international contracts. Upon retiring in 2011, he partnered in a two-way radio dealership.

In 2017 Beauchamp joined Icom America and has been making airwaves ever since. Supporting teams of internal and external sales leaders has been a source of great pride. Additional roles within the industry include RCA (board member), Enterprise Wireless Alliance (board member), National Wireless Communication Council, Communications Marketing Association, APCO International and several other organizations. Beauchamp considers himself fortunate to have these organizations as part of his life, where his current role as leader of the ICOM America Business Development team provides opportunity for his personal interests and professional world to collide in the best possible way.

MICHAEL J. PAPPAS

Mike Pappas is currently the Vice President of Business Development and a co-owner of Orban Labs, Inc. Division of DaySequerra. Orban Labs is one of the broadcast industry's best-known names in audio processing.

Mike's technical experience spans several decades, including roles in broadcast engineering, government communications, and railway communications. Mike joined DaySequerra in 2015 as the Vice President of Business Development, and he has assisted this forward-thinking and progressive company in the development of new products, new markets, and new business opportunities.

In 2016, DaySequerra acquired Orban Labs. Mike has been heavily involved in Orban Labs since its acquisition, helping to steer the development and market opportunities for a dozen new products. He has installed all of Orban's beta sites for the new XPN-AM audio processor and has developed specialized field-testing methodology for MDCL operations at different AMC levels. Mike is proud to be part of this revitalization of Orban as it again leads the way in audio processing for radio, TV, and Internet streaming.



2023 RCA Fellows



WALTER "TOM" LOUGHNEY, JR.

Tom Loughney has a BS in Broadcasting from the University of Florida and resides in West Palm Beach, Florida with his companion Genie. He got started in amateur radio in 1955, beginning as a SWL. He lived

in Buffalo, Pittsburgh, and Miami. By the time he graduated high school, he had met local Hams and worked after school and weekends at commercial radio stations, leading to a major in Broadcasting at the University of Florida, which included Engineering, Production and Journalism. He is currently an active member of the Society of Broadcast Engineers. Tom has worked at WCKT-TV (Now WSVN-Miami) and KOB-TV (Albuquerque), LYNX Business Computer Systems, Inc, Allen Test products, Bear Automotive, Sun Electric, FirstCall Communications, American Telnet, RX Data Systems, Inc., and most recently the U.S. Department of Commerce. He also worked in the automotive service field for several years and was an ASE Certified Master Automotive Technician, Paint & Body Technician, and Heavy-Duty Truck Technician. He taught Engine Diagnosis, Brake, Alignment and Suspension Systems classes for several manufacturers and developed classroom training programs for them. He operates a technical consulting company, Advanced Radio Services, specializing in antenna design and low power communications.



PHILLIP KIRMUSS

Mr. Philip C. Kirmuss is the Chief Technology Officer for Dark Wolf Ventures, a cuttingedge communications solutions company based in Colorado. He leads the Innovation and Engineering efforts for the company and has been responsible for developing a

number of new products and custom solutions for military, national security, and public safety agencies. He focusses on solutions for interoperability, range extension, and advanced functionality such as mapping and sensor control, across Land Mobile Radio (LMR), Satellite, and LTE domains. Phil's history of innovation has led to him being awarded several patents, including his most recent patent at Dark Wolf for Multi-System Interconnectivity.

Phil's career has included several communications and public safety roles. Most recently, he was the Radio Systems Manager for the City of Boulder in Colorado, where he was responsible for a wide range of public safety communications assets from the LMR Trunking System to advanced communications solutions for Police and Fire. Prior to Boulder, Phil held various roles at Icom America, including Federal Solutions Manager and Technical Sales Manager. In these roles, he was responsible for solution development and deployment, communications systems integration, and solving complex field issues.

He served at Icom and as a consultant in the Global War on Terror through several deployments into combat zones to develop and support communications capabilities for troops on the front lines, often developing first-of-their-kind solutions to communications issues and deploying countryscale communication systems. In these roles, he has designed systems and implemented solutions and products for the US ARMY, USAF, SOCOM, DOI, CECOM, USMS, USCG, NPS to name a few as well as several law enforcement and public safety radio systems throughout the US and Canada. The systems he has deployed and managed have covered the full spectrum of technologies from Conventional Analog, Dismounted Tactical Systems, NXDN Conventional & Trunking, P25 Conventional & Trunking and Satellite. He has worked with products from nearly every major manufacturer including Motorola, Harris, Kenwood, Tait, Thales, EF Johnson, Icom, and Relm.



CHESTER "BARNEY" SCHOLL

Chester B. Scholl, Jr. graduated from the University of Miami BSSA and Dickinson School of Law JD, 1974. He is a partner in the law firm of Fruit, Dill, Goodwin, and Scholl.

He holds a First-Class Radio Telephone license, holds an

Extra class amateur radio license, and has been licensed since 1963. He is a life member of ARRL, helps other amateurs with zoning and other related legal issues in his role as Volunteer Counsel through the ARRL as well as clients in his legal practice, and is a Volunteer Examiner for amateur radio testing. He teaches Amateur Radio and law classes and has presented at and moderated the Legal Forum at the Xenia Ohio Hamvention. He helped his local Emergency Services Council plan for a county radio system. He has been a solicitor, board member and officer for a number of charitable organizations. He has represented a local cellular carrier in land acquisition and general matters and landowners in tower transactions and leases. He is a member of the City of Hermitage Planning Commission and has been solicitor for Township and Zoning Hearing Boards. He is a Trustee and past president of Mercer County Bar Association. He has been admitted to practice before Pennsylvania courts and the U. S. Supreme Court and Federal District Courts. His private practice includes elder law, real estate, zoning, and bankruptcy.

He has been involved in wireless most of his life. He has been serving as general counsel for The Radio Club of America, where he has received the President's Award and is a Life Member.





CTA is a Proud Supporter of RCA Young Achievers

Is your infrastructure near the end of its life? Do you struggle with interoperability? Do you have coverage gaps that disrupt critical operations? Do you need support validating the need and the cost of a new critical communications system to your elected officials?

CTA is an independent consulting firm providing engineering and project management services to the public safety community. We are proud of our reputation as industry experts and influencers of current public safety radio technologies and trends.



As industry experts, we are confident in our ability to help you and your agencies maintain the security and efficiency of your radio communication systems. We do this by providing our clients with:

- Needs Assessment and System Evaluation
- FCC Licensing and Management
- Radio System Coverage Analysis
- Land Mobile Radio System Design
- Backhaul Network Design
- Radio Communications Site Design
- RFP Development and Procurement
- Grant Writing
- Implementation Oversight





Officers



David P. Bart

President





Don Root Executive Vice-President

Rich Berliner Vice President



Chester "Barney'

Scholl, Jr.

Vice President /

Co-Counsel

Edward Ryan

Vice President /

Co-Counsel





Ronald J. Jakubowski

Treasurer



Margaret J. Lyons PE, PMP Secretary

Directors



Jon Paul Beauchamp

Denis A Marin

Bruce McIntyre



Carole J. Perry



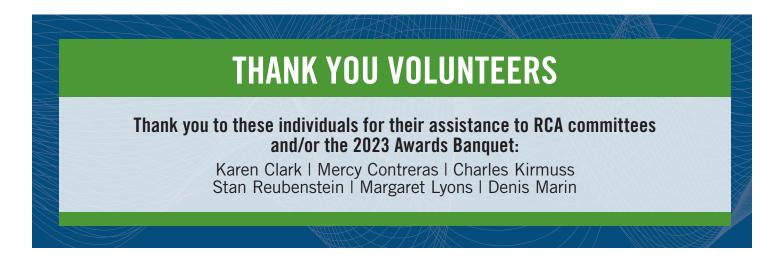
Stanley Reubenstein

Paul Scutieri



Julio Urbina, Ph.D.

The Radio Club of America, founded in 1909, is the world's oldest radio communications association. Its purpose is to promote cooperation among those interested in the advancement and scientific study of radio communications. The semiannual periodical, Proceedings, and the quarterly newsletter, Aerogram, keep members current with the Club's activities, the most important of which is the Awards Banquet. This event is held to recognize and award outstanding members and industry leaders for their contributions to the Radio Club of America and the industry.





The Radio Club of America is a volunteer organization and maintains its vital link to the industry and programs through the work of many individuals. We welcome the participation of all RCA members. Please review the committees shown below and decide where your talents and interests may help serve RCA's members. Please contact us to lend a hand.

We always have fun and engage in projects throughout the year. Whether you are interested in working with young people, promoting the latest technology, preserving wireless history, fundraising, event planning, or publications and web site content, there are ample opportunities for you to participate. Join us today!

Executive Committee Members

David P. Bart Rich Berliner Ron J. Jakubowski Michael Kalter Margaret J. Lyons, P.E., PMP Don Root

Edward Ryan, Esq. Chester "Barney" Scholl, Jr., Esq.

Standing Committees & Chairpersons

We encourage all RCA members to get involved in the Club by joining a committee.

Awards & Fellows: Charles Kirmuss Banquet: Margaret Lyons, P.E., / Denis Marin Bequests & Legacy Giving: Chester "Barney" Scholl, Jr./ Ed Ryan* Constitution & By-Laws: Chester "Barney" Scholl, Jr. Education: Julio Urbina Fellows: Rich Berliner Finance: Phil Casciano / Ron Jakubowski Fundraising: Karen Clark Historical/Museums & Archives: Jim and Felicia Kreuzer Interview & Networking Series: John Facella Marketing: Dave Bart Onboarding: Barney Scholl Mentoring Project: Paul Scutieri Membership: Jon Paul Beauchamp Member Services, Mid-Career: Keith Kazmarek Member Service, Senior Career & Retired: Don Root Nominations & Elections: Rich Berliner Operations Handbook: Bruce McIntyre Publications: David P. Bart RCA Radio Amateur Club License: Edward Ryan RCA Regional Conferences: Ernie Blair Rocky Mountain Chapter: Karen Clark / Mercy Contreras Scholarship Fund: Alan Spindel Sponsors: Karen Clark/Mercy Contreras Strategic Planning: David P. Bart Technical Symposium: Jim Breakall Website: Amy Beckham/Don Root Youth Activities: Carole Perry

Presidents Emeriti

Steven L. Aldinger Sandra Black Philip Casciano Mercy Contreras Timothy Duffy John Facella, P.E. Mal Gurian Carroll Hollingsworth

Bruce McIntyre Stan Reubenstein Anthony Sabino, Jr.



Telewave.io

504 YEARS Servicing The Telecommunications Industry

Advanced Solutions for



New Products & Services



NEW! 44DL Digital/Analog RF Wattmeter



VHF/UHF Software Defined Radio



Management & Monitoring



Visit our website to learn more!



March 25-28, 2024 Orlando, FL Booth #1144

2024 Events



May 20-24, 2024 Mobile, AL Booth #633



August 4-7, 2024 Orlando, FL Booth #927



48421 Milmont Drive Fremont, CA 94538



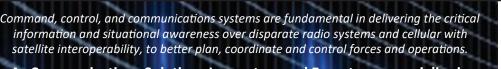
https://www.telewave.com/



Performance You Deserve With Quality You Can Trust



2024 TECHNICAL SYMPOSIUM & 115th AWARDS BANQUET SATURDAY, NOVEMBER 23, 2024 Westin times square • New York City



As Communications Solutions Innovators and Experts, we specialize in rapid solutions for hard-to-solve problems with our off-the-shelf or custom designs for military, national security, law enforcement and first responder agencies including rapid deployment kits.

If you have been told it can't be done, most likely we can create a solution for you.

OUR TEAM CONGRATULATES THE 2023 RCA AWARD WINNERS AND CLASS OF 2033 FELLOWS.

Proud to see our Chief Technology Officer, Philip Kirmuss, who was recognized in 2022 as an RCA-IWCE Young Professional being elevated to RCA Fellow.



Due to the sensitive nature of our work, site visits are by appointment only.









ListenUp Co-founders Steve Weiner and RCA Member Walt Stinson 51 years ago identified with their love for superior, high performance audio, and opened up a store in Denver. Today, serving Colorado and New Mexico, ListenUp is recognized as the Mountain State Area's leading home theater, audio, pro-sound, commercial and smart home technology provider and is the exclusive reseller for the KirmussAudio Record Restoration System in Colorado and New Mexico.

