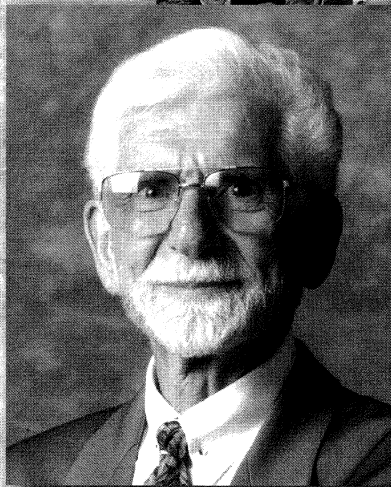
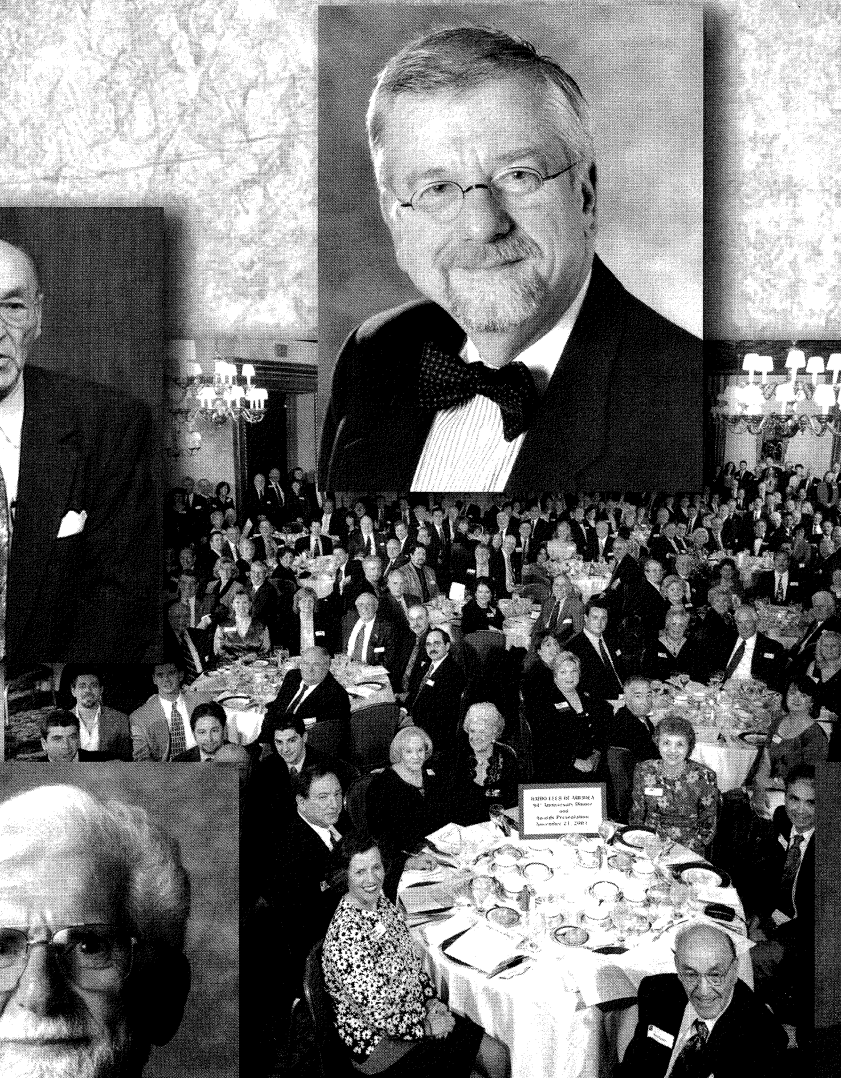
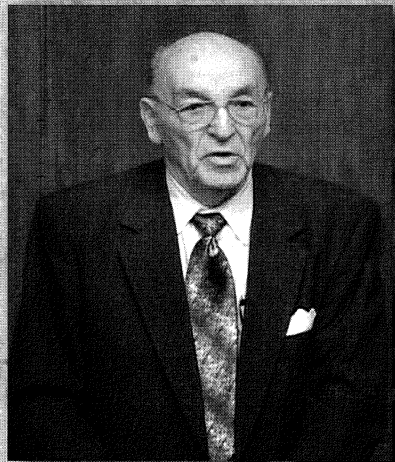


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A Message From Mercy

All of us in the Radio Club of America can remember certain milestones we have surpassed that have shaped both our own careers and the industry as a whole. As I look back at my years in the wireless industry, a few major "happenings" come to mind. The first was becoming a member of the Club in 1983, right after I started working with Phil Cook and Pat Wiesner at *Mobile Radio Technology* magazine. I began my close relationships with Fred Link, and with Ray Trott and other industry leaders. That year I was asked to serve on APCO's Commercial Advisory Committee, under the leadership of Craig Jorgensen.

In 1989, I was made a Fellow along with an impressive group of members that included Ken Hoagland and Ted Faust. Since then, I have received two Radio Club special awards, and I have served as a member of the board and as an officer. It has been a privilege to serve as president with our current group of directors and executive committee members. Since leaving publishing, I've been asked to serve as executive director of Communications Marketing Association, allowing me to continue working for the industry that I love.

The Radio Club itself has marked some milestones and will continue to do so as we plot the group's future. Since its founding in 1909, the industry has moved from the electronic tube amplifier to the proliferation of two-way radio gear to the pager to the cellphone, and now the sky virtually is the limit as we watch the growth of wireless Internet services and air-to-ground communications. We once again experienced great success at the IWCE show in March. We received a number of new memberships, and our breakfast - which served some 145 - was sponsored by RadioSoft, Schwaninger and Associates, Fryer's Tower Source and SBT. Ray Trott and I spoke of Fred Link, with this being the centennial of his birth, and I want to thank Ray, Roger Madden, Cliff Bade, Henry Reichter, Everett Permenter, Patrick Buller, Tony Sabino, Jay Underdown Rich Reichler, Don Bishop,

Karen Clark and Diane Weidenbenner for helping in the Radio Club booth.

And we're preparing for APCO 2004 in Montreal this August, once again manning a booth and offering a breakfast sponsored by Maxrad, Radio Resource Mission Critical and Intrado. I'll keep you informed about our speaker for that event.

This year, the Club is branching out from its traditional New York City annual banquet and its sponsored breakfasts at many industry association events to its first-ever Spring Gathering, which took place May 12 at the Doubletree Hotel in Ontario, Calif. Not only was this meeting an opportunity for Club members who may not be able to make it to the East Coast on a regular basis to gather, talk and network, but it also featured guest speaker and longtime Club proponent Marty Cooper, best known for leading the team at Motorola that developed the first cellular telephone. Carolyn Servidio of RadioMate Corporation and Jack Daniel of the Jack Daniel Company deserve the credit for orchestrating this event.

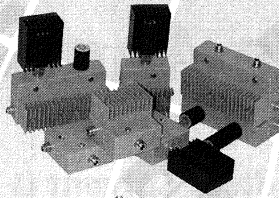
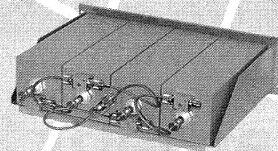
In light of this new event and in keeping with tradition, I'd like all of you to consider participating in another Club milestone by contributing a tax-deductible donation that will be used to start a scholarship fund for needy students located on the West Coast who wish to pursue an industry-related degree program. I'm echoing John Dettra's thoughts when I say the Radio Club encourages its members to establish a named fund or to allow the Club to allocate their donations to these funds that help up and coming students of wireless as they complete their educations.

Like the wireless industry we serve, the Radio Club of America continues to evolve. And we all know what magic has happened in the RF arena. Personal, professional and association milestones are exciting, and they are just the beginning of our journey together.

Mercy Contreras

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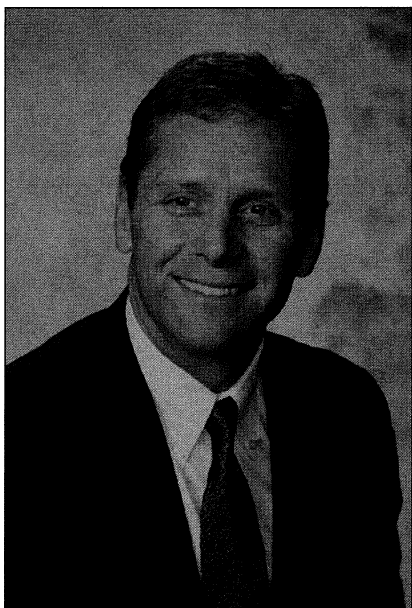
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CTIA's Largent Tapped To Keynote Annual Dinner



Steve Largent is tackling more nowadays than he ever did during his professional football career, and as the new president and CEO of the Cellular Telecommunications & Internet Association, he'll have plenty to say to Radio Club members.

By Debra Wayne, Proceedings editor

Steve Largent, president and CEO of the Washington, D.C.-based Cellular Telecommunications & Internet Association, will keynote The Radio Club of America's 95th Anniversary Awards Banquet Nov. 19, 2004, at the New York Athletic Club in New York City.

While he has just started making a name for himself in the wireless industry, Largent perhaps is better known as a sports superstar who was inducted into the National Football League Hall of Fame after a 14-year stint as a pass receiver with the Seattle Seahawks. He then served in the U.S. House of Representatives for his home state of Oklahoma for more than seven years before being tapped as the association's new head.

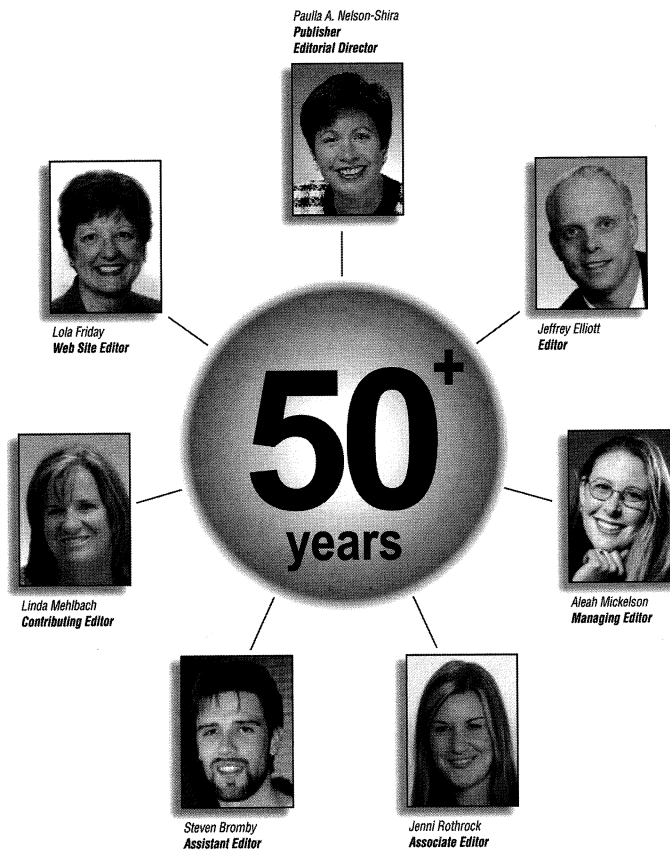
"We are excited to have Steve kick off our annual banquet as our keynote speaker," says Mal Gurian, Radio Club's president emeritus who now serves as banquet chairman. "We anticipate a lively speech from this highly notable motivational speaker, industry expert and lifetime achiever."

Largent has been on the job at the CTIA since Nov. 1, 2003, but he's come up to speed quickly. "I tell people now my head is just bobbing on the surface of the water," he says.

None of it has been hard, he adds. There's just been a lot all at once. "At the same time, I'm learning the politics and the personalities in play, both internally at CTIA and within the industry, and the politics of wireless on the Hill and at the FCC," he says. "It's been a steep learning curve for me, but I love that. What I loved in Congress was the opportunity to keep learning."

Just prior to the CTIA-sponsored Wireless 2004 earlier this spring, Proceedings Editor Debra Wayne spent some time with Largent to talk about his first months as an association executive, the challenges faced by an ever-evolving wireless marketplace and his take on the future of public-safety spectrum.

Q: Were you surprised to find you were on the short list of CTIA's search committee?



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A: I wasn't on the list at all. I had a job, and I was happy with that job. The search committee chose Chip Pickering, and he marched right down in the aisle and then spurned them at the altar. When they opened up the search again, my name was proffered

Largent says CTIA now caters to more than 163 million consumers nationwide. The question the group always addresses is how will the industry get to 200 million or 250 million? How will it increase the penetration from where it is today to where it wants to be?

and that's when I got the interview.

It was an interesting process, because I asked the first question, which was what their timeframe for the next president and CEO. This was in August 2003, and they wanted to make a decision by Labor Day after speaking with four more candidates. I did my hour interview and left. Three-and-a-half hours later, I got a call from the search committee offering me the job. It was exciting, affirming and somewhat shocking, in that the timeframe they laid out was much shorter than the one they pursued.

Q: During your stint as a congressman and during your learning curve at CTIA, did you depend on any mentors to teach you the wireless ropes?

A: John Stanton. He has incredible history. He knows the people, the personalities and the issues, and he has an incredible memory. He is a wise person who never comes across partisan, and with a sense of humor. I also knew him outside of the context of the wireless business. Another guy I've come to know is another Oklahoman, Ed Evans at TSI (whose company was instrumental in handling the startup of wireless local number portability). He is transparent, sincere and he knows about the business. He calls a spade a spade. I've learned a lot from him.

Q: What issues are on CTIA's immediate issues table?

A: As a trade association, we're looking at the fact that we now cater to more than 163 million consumers nationwide. The question we always have to be in the process of answering is how do we get to

200 million or 250 million? How do we increase the penetration from today to where we want to be?

One of the industry's target markets is making sure our services are available to low-income and underserved markets. We have a great story to tell in that we have rolled out more and better services while dropping prices at least 30 percent since 1998. Our message to regulators and legislators is one of caution and, essentially, the doctor's mantra of 'do no harm.' As you increase the regulation of wireless, you are adding costs for our subscribers and, in the process, you exclude our target market.

Q: Now that you're on the outside of Congress looking in, what has that been like? How will your past congressional skills going to help you forward the wireless industry's agenda?

A: What I see now that I didn't see when I interviewed for the job in August 2003 was that this industry and its challenges and goals actually coincide with and complement who I am and what I was about as a member of Congress. I was a strong advocate of creating free and strong markets, and then allowing those markets to regulate the industry as opposed to the heavy hand of government trying to dictate what they do.

This industry has been the poster child of what can happen when you create those competitive markets, and the results have been amazing. So I really believe that, within my DNA, the message of the wireless industry exists, and the things it talks about are the things I talked about as a member of Congress. I think it's a natural fit. I think I'll be able to apply all those lessons I learned during seven-plus years in Congress.

Q: Why do you think the United States continues to be behind the power curve when it comes to data services and usage? Why does voice continue to be the killer app?

A: One of the things I really love about this industry is its competitive nature. I'm a competitor and always have been, so the fact that we're anything other than Number One when it comes to innovation and technology is disturbing to me. There are some advantages of being Number Two or Number Three in this instance, because we get to learn from other people's mistakes and benefit from their experience. But I think, at some point in time, my effort will elevate the state of play in the United States to where we are cutting edge and leader of the pack. It's not



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because we don't have the manpower, the smarts or the initiative. We have all those things, so there is no question in my mind we're closing whatever gap exists quickly.

Under Largent's leadership, CTIA has two priorities when it comes to interference with public safety. Number One is how, in the most effective and expeditious way, can the industry eliminate interference in public-safety communications? Number Two is resolving the interference in a way that doesn't create severe imbalance on the competitive playing field in the wireless space.

Q: The FCC currently is considering two plans that would give the public-safety industry more spectrum. The public-safety industry is an important part of The Radio Club of America. CTIA has taken a stand against the plan proposed by Nextel in favor of the plan forwarded by Verizon Wireless. How will this affect the industry?

A: CTIA, under my leadership, has two priorities when it comes to interference with public safety. Number One is how do we, in the most effective and expeditious way, eliminate interference in public-safety communications? Number Two, which is a distant second, is resolving the interference in a way that doesn't create severe imbalance on the competitive playing field in the wireless space.

The balanced-approach plan (formulated by Verizon Wireless) addresses the interference, it requires immediate attention anytime interference is

noted, and it does it in a timeframe that is much quicker than that in the consensus plan. Mitigation follows a 60-to-90-day plan versus a 5-to-10-year window in the consensus plan.

Q: With the pending AT&T Wireless/Cingular Wireless deal, do you foresee continued industry consolidation?

A: The exciting thing about the wireless industry is that it is totally unpredictable. It's safe to say we are going to see more consolidation. Whether that's another big fish eating a big fish, I don't know. I'm one of those people who doesn't view change as being a bad thing. It does, however, have a negative consequence to this trade association but we will continue to evolve and reflect the industry as it continues to evolve.

There is a convergence going on within the wireless industry, between cameras, MP3s, PDAs and everything else. I foresee the day when we won't even call [handsets] cellphones anymore, because they do so much more than to just facilitate a conversation. We are going to see more involvement by the content providers, whether that's music, video, motion pictures. We also see the cellphone becoming a new avenue for advertising, and that raises a whole host of other issues we have to be aware of and to move forward on.

Q: If there were one wireless-industry thing that you could fix immediately, what would it be?

A: Well, the one thing that keeps me up at night is the public-safety thing, because I've got friends on both sides of this argument. You just hate to see your family fighting, so I'd just like to see that issue resolved so that we can move ahead. I'm all about unity, team, and moving together with one spirit and one voice.

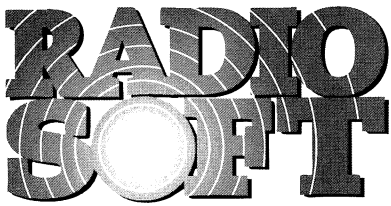
In terms of the industry as a whole, the issues that are the most critical include defeating two perceptions: that wireless is 'old' and that it isn't cutting edge; and to kill the perception, particularly among regulators, that we are a utility or a monopoly. Most people don't realize that the industry as a whole has never turned a profit. We have continued to pump billions of dollars into the system.

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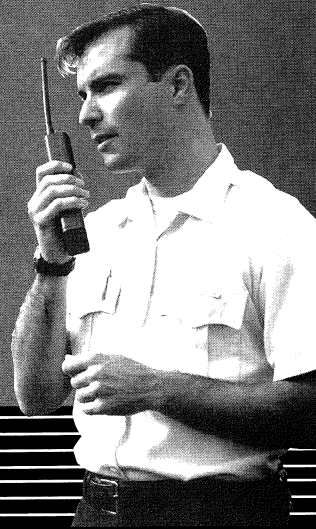
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Broadcasters Unite To Get New York City Back On The Air

*William F. Baker, president and CEO of Thirteen/WNET
New York, keynotes the 2003 Radio Club Banquet*

Ladies and gentlemen, members of the Radio Club of America, thank you for inviting me here to speak today among those of you who truly made radio communications and broadcasting such an integral part of our lives.

It is with great hope and enthusiasm that I address you as a member of the Metropolitan Television Alliance, the group of broadcasters that has joined in an unprecedented effort to put one of America's most vital television markets back on the air.

The antenna atop the World Trade Center was the nexus of broadcasting in the New York/New Jersey metropolitan region. It was home to one of the world's largest consolidations of antennas and, with five digital transmitters already online, it had become the key platform for launching our city into the new era of digital television.

The antenna on Tower One was shared by nine full-power NTSC stations, six digital TV stations and four FM radio stations. One low-power television station transmitted from Tower Two. The stations' transmission facilities, which were located on the 110th floor of Tower One,

housed primary and backup analog transmitters, digital transmitters, and monitoring and test equipment.

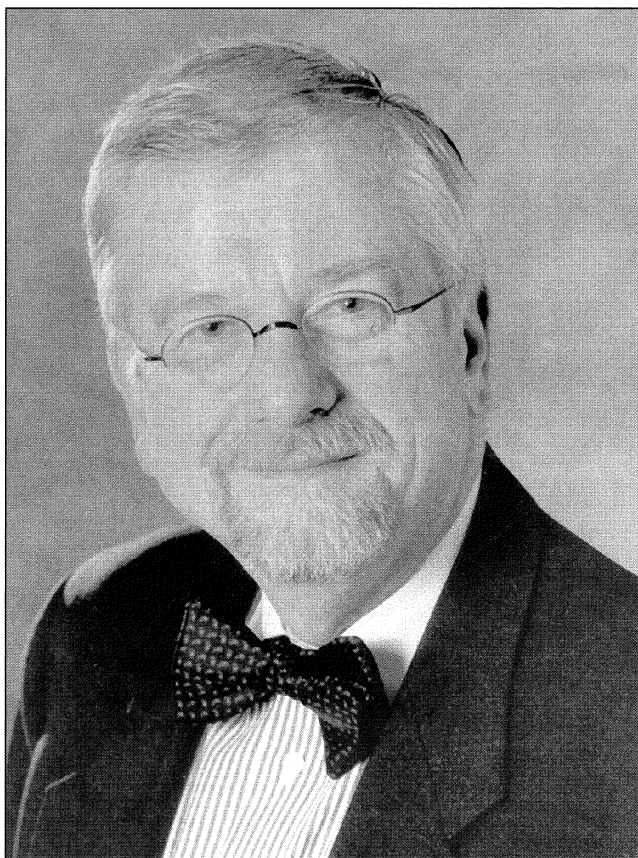
On July 11, 2001, at 9:30 a.m., a group of my trustees gathered atop Tower One to activate Thirteen/WNET's digital transmitter. Two months to the day - almost to the very minute - the World Trade

Center was reduced to a pile of rubble, taking with it nearly 3,000 lives and throwing our city into chaos.

It was a day that none of us will ever forget. Broadcast images and satellite pictures showing the plume of smoke from Ground Zero — which will always be etched in our minds — telling the magnitude of the disaster. Those of us who lost friends and colleagues that day are still mourning.

I just wanted to take this moment to remember the engineers we lost: Isaias Rivera and Bob Pattison of WCBS-TV, William Steckman of WNBC, Steve Jacobson of WPIX, Donald DiFranco of WABC-TV and Rod Coppola of WNET. Rod, who would have been 49 on Nov. 12, 2003, was my personal friend and fellow ham enthusiast. His call letters were KA2KET.

Continued on page 12



William F. Baker, president and CEO of Thirteen/WNET New York, believes it was in the spirit of their colleagues' memories and their dedication to restoring public broadcasting to New York City that various stations united to replace a broadcast antenna destroyed during terrorist attacks on Sept. 11, 2001.

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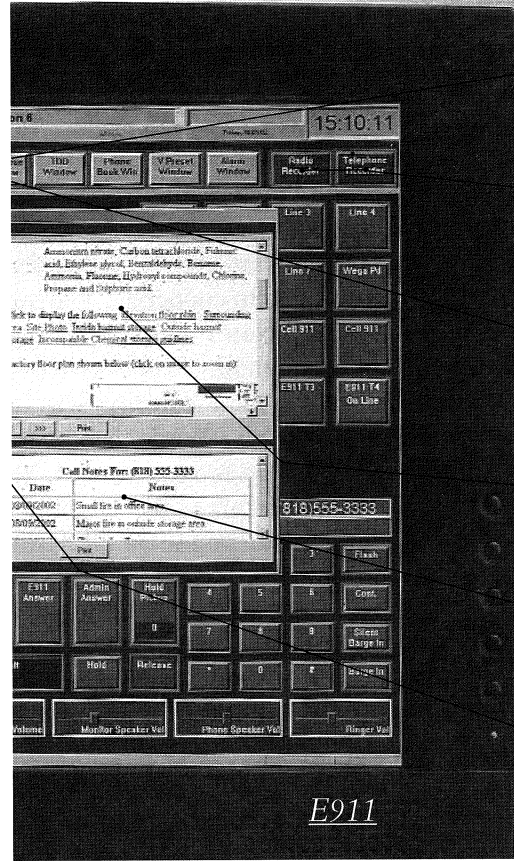
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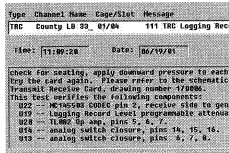
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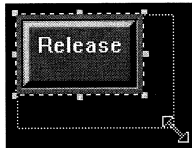
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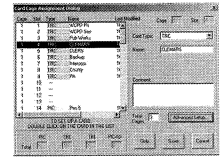
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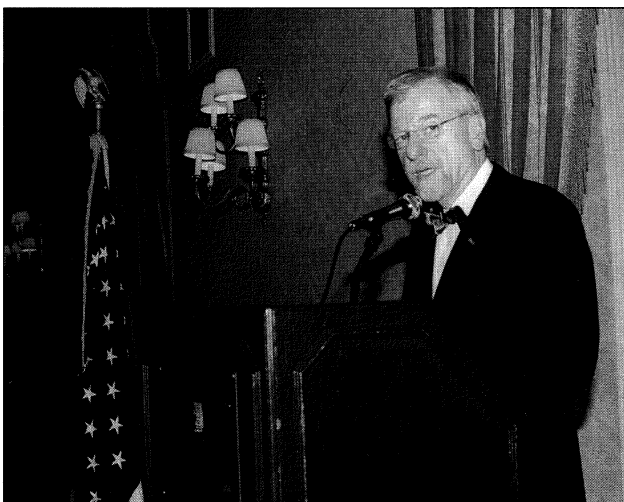
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Continued from page 10

Broadcast Community Unites

It was in the spirit of their memory and on our dedication to restoring public broadcasting to our community that the stations united to replace our antenna. I want to emphasize that these are big companies that put aside their competitiveness to cooperate: Viacom, General Electric, Disney, News Corp, Tribune, Paxson, Univision and Telemundo.

After September 11, our first priority was to restore our over-the-air signals. While cable and satellite viewers were receiving programming without interruption, roughly 20 percent of the 7.2 million homes in the New York City metropolitan television market were not wired for cable - some 600,000 in New Jersey and 1.1 million in New York City. Aside from Channel 2 and Channel 41, which had transmitters on the Empire State Building, all the other stations were unavailable over the air.



Given the fear and confusion that had gripped the city, the loss of free, over-the-air television stations - trusted sources of news and information - was profoundly alarming. We acted quickly, deciding to go up on the Armstrong Tower in Alpine, N.J. And once the decision was made, the broadcast engineers from the stations mobilized with amazing speed and efficiency. Companies nationwide that built transmitters and shipped parts in record time joined them.

By Sunday, we were all back on the air at lower power. All the while, electricians, riggers and mechanics worked 36-hour shifts to upgrade the Alpine facility. My chief engineers at Thirteen, Frank Graybill, believes the engineers did four months' work in a week and a half.

It's ironic, of course, that the tragedy led us to

Alpine. The tower, you know, was the site of America's first FM broadcasts in 1937. Nearly 35 years later, under unimaginable circumstances, we returned to our roots.

Getting up on Alpine was a testament to the inventiveness and dedication of the broadcast engineers of our region. But Alpine was far from a permanent solution. The tower is only 400 feet high and fewer than 1,000 feet above sea level, some 800 feet shorter than the World Trade Center antenna had been.

While Alpine remains a backup antenna option, its location 25 miles north of Ground Zero and its low height prevent it from being a primary site. Of course, when considering a long-term replacement for the World Trade Center, all eyes turned to the Empire State Building. This is where most of the area broadcasters have been operating with significantly reduced transmission power since November 2001.

Going up on Empire with shared equipment represented another extraordinary act of cooperation, not only among competing stations but also on the part of the Empire State Building management. It also took another amazing bout of tenacity and creativity on the part of the engineers to make it work.

While Empire yields much better signal coverage than Alpine, the only way it could serve as a permanent primary analog and digital broadcast site with full-power transmitters would be through extensive structural, electrical and mechanical work to support additional broadcast operations to the ones already there.

This, combined with a number of other concerns, presents a lot of problems when considering Empire as a permanent, primary site. But whatever solution we finally arrive at, Empire will be a key part of our plan, perhaps as a long-term backup site.

Choosing A Tower Type

During the past year and a half, plans have been drawn up to return the Empire State Building to a full-power facility for all of the broadcasters. Since January 2003, new electrical risers have been installed from the street to the top of the building, bringing an additional four megawatts of power. Riggers and ironworkers have been toiling nightly since July 2003 to prepare the tower for new antennas. Next spring, new antennas will replace the existing ones in use. As I speak, the stations are installing no fewer than 10 full-power analog and digital transmission systems. For the near term, the Empire State Building will be New

Continued on page 14

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Continued from page 12

York's primary broadcast facility.

We have explored many options to locate a long-term, permanent facility. As the forefront of those options would be building a shared transmission tower, a project the MTVA has studied for months. Such a tower could take two forms: guyed-wire or free-standing.

A guyed-wire tower could be built fairly rapidly and for less than half the price of a free-standing tower. The downside of a guyed-wire tower is that it requires more land than a free-standing tower, so not every site would be adequate. At the same time, a guyed-wire tower is less aesthetically pleasing to some, which could make it more difficult to secure community support.

A free-standing tower would be more attractive and would, therefore, likely be more acceptable to the community. This tower would also require less area. But, of course, it would cost more - with current estimates at more than \$200 million. And it would take longer to build than a guyed-wire tower.

Choosing a site is complex. Not only do we need buildable land of sufficient area and clear line of sight, but we must accommodate both FCC and FAA regulations. With three major airports on the city, flight paths are a problem everywhere, though some sites appear to offer better chances for successfully petitioning the FAA for flight-path revisions.

At the same time, FCC regulations require us to build inside a 3.2-mile radius of the World Trade Center site to avoid interference with other markets. Among the sites we have considered are Governors Island; Jersey City and Bayonne, N.J.; Brooklyn; and downtown Manhattan.

Governors Island fits all our criteria. The federal government recently turned it over to New York, which plans to build a college campus there. We believe our tower could be integrated into such a project; however, the infrastructure requirements to bring power and communications signals to the Island along with the city's desire to make it temporary pending a replacement structure at the World Trade Center site have made this option unfeasible.

Jersey City and Bayonne also were promising sites. A standalone tower here would form a magnificent backdrop to the Statue of Liberty and Ellis Island, in turn becoming a new symbol of American perseverance and strength. A proposal for a 2,000-ft.-tall, freestanding tower in Bayonne was on the board for a while, but FAA concerns and other considera-

tions have put an end to those plans.

We even received an idea for a guyed-wire airship antenna. Proposed as an interim transmission site for use while building a tower, it was certainly intriguing. But we quickly realized that, though it might support the transmitters of one station, it likely couldn't handle all of them.

The most promising location for a permanent broadcast site remains at the re-developed World Trade Center location. The MTVA has been working with Silverstein Properties and its architects and engineers to design the "Freedom Tower" broadcast facilities for all New York City television stations. This tower was originally conceived to be 1,776 feet in height. As such, it would be the world's tallest, free-standing structure. Groundbreaking could be as early as 2004, with construction taking five to seven years. The final structure would accommodate a minimum of 22 television stations.

Other Sites Pondered

So, as you see, we have been considering numerous sites available for the public communications services that were lost on September 11, including emergency police and fire transmission. When the relays on the towers shut down after the planes hit, it may have impeded rescue efforts. In the event of a future emergency, a separate tower may help rescue workers save lives.

This is an urgent undertaking. New York City television is a \$1.5 billion-a-year industry and, with every day, the losses mount. But the deficits are not only financial. New York City television is a major part of the quality of life on one of the world's most vibrant cities. Since September 11, some 2.6 million non-cable and non-satellite viewers have been dealing with degraded reception or none at all.

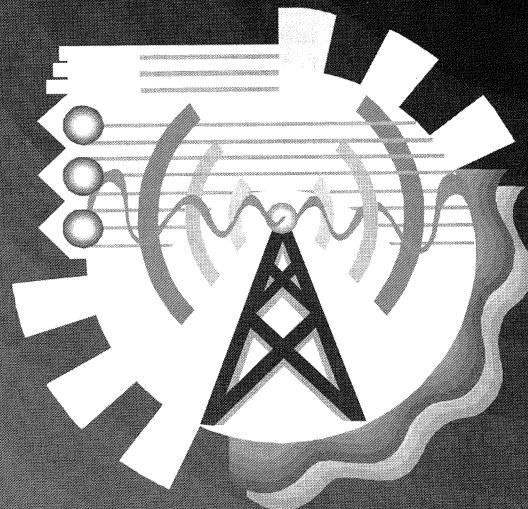
Most dramatically affected are the elderly and the economically disadvantaged, who depend on free, over-the-air signals for their television, including Emergency Broadcast Service announcements.

That is why the MTVA's goal is to get us back to full power as quickly as possible.

Before September 11, New York City was stepping boldly into the digital age. We've suffered a major setback, but we are determined to restore the kind of television quality our community needs and deserves. Today, thanks to the ingenuity and commitment of many, we are well on our way to returning New York City television to the heights from which it fell.

Thank you.

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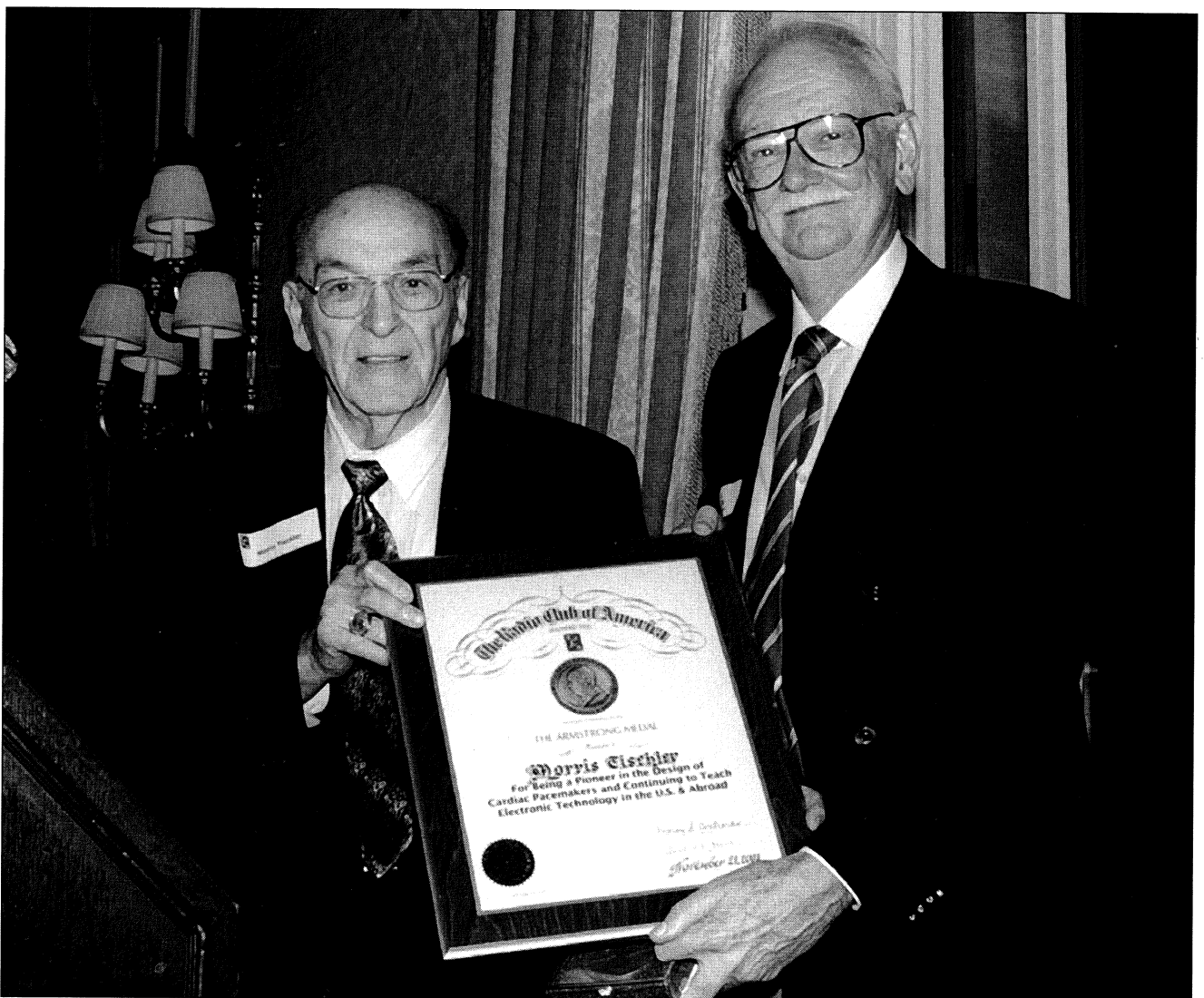
The 2003 Radio Club Banquet Honors Outstanding Achievement

By Richard "Rich" Reichler

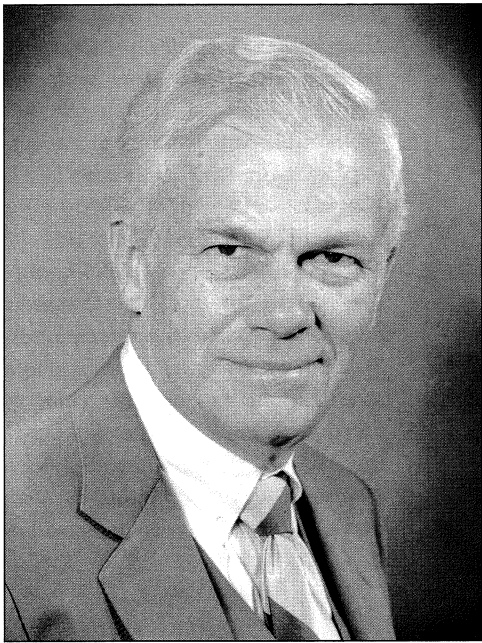
The Radio Club of America's annual banquet, held Nov. 21, 2003, was a significant event for the wireless industry, including its land mobile, broadcast and public-safety facets. The many distinguished banquet attendees represented the "who's who" of the industry at the 94th Anniversary Dinner and Awards Presentation at the New York

Athletic Club in New York City. RCA Fellow and Director Jay Kitchen, president of the Personal Communications Industry Association, welcomed everyone and got the banquet off to a nice start.

William F. Baker, president and CEO of Thirteen/WNET New York, and the 2002 winner of the Club's Sarnoff Citation, was the keynote speaker.



Morris Tischler (M)(left) receives the 2003 Armstrong Medal from former Radio Club of America president Ray Trott (right). Tischler was recognized for being "a pioneer in the design of cardiac pacemakers and continuing to teach electronic technology in the United States and abroad." Tischler also spoke at the Radio Club's Technical Symposium prior to the banquet, discussing his role in developing the cardiac pacemaker.



Leonard R. Kahn (L) won the Henri Busignies Memorial Award for “significant contributions to the advancement of electronics for the benefit of mankind.” Kahn created the Kahn/Hazeltine AM Stereo system that enabled adjacent channels to operate without interfering with each other. Recently, he’s been working with the Federal Communications Commission regarding ultrawideband issues and potential interference such new technology may cause. He has been a member of the Radio Club since 1953.

In a moving talk about rebuilding the damaged broadcasting industry in New York City following the terrorist attacks of 9/11, he provided an update on the progress being made to “put one of America’s most vital television markets back on the air.”

Industry professionals and their guests turned out to honor 2003’s award winners. Arthur E. McDole was last year’s recipient of the Fred M. Link Award for his “substantial contributions to the advancement and development of land mobile radio and communications.” McDole was unable to accept the award personally due to a family illness, but Glen Nash, a past president of APCO, graciously accepted it for him.

Morris Tischler was awarded the Armstrong Medal for being “a pioneer in the design of cardiac pacemakers and continuing to teach electronic technology in the United States and abroad.” Tischler also gave an enlightening presentation during the RCA Technical Symposium held earlier in the day.

Other award winners included:

- Andrew A. Conte — Special Services Award for “significant contributions to the support and advancement of The Radio Club of America”
- William E. Glenn — the Allen B. DuMont Citation for “important contributions to the science of television”
- Leonard R. Kahn — the Henri Busignies Memorial Award for “significant contributions to the advancement of electronics for the benefit of mankind”
- Skitch Henderson — the Jack Poppele Broadcast Award for his “long-term contributions to radio broadcast improvements”

- Maurice H. Zouary — the Special Recognition Award in “appreciation of his dedicated service to the Radio Club of America”

Among the other accolades given at the annual banquet was the elevation of 12 Radio Club members to “Fellow” in recognition of their making outstanding contributions and their extraordinary qualifications in the art and science of radio and electronics. The newest Fellows are Charles F. Adams, Rich B. Berliner, Pierre J. Catala, Donald R. Clark, Terry G. Daniels, Frederick S. Freer III, Robert E. Levy, Margaret J. Lyons, Lloyd B. Roach, Alan R. Shark, Robert M. Treanor and William L. Wilson. Rich Berliner delivered the traditional “Fellows’ Response” after the ceremony, noting “the Radio Club is the link between our heritage and our future.” (*Editor’s note: the entire text of Berliner’s speech can be found on p. 22.*)

As part of the banquet festivities, Club members also were given the results of the Club’s election of 2004 officers and directors, and of the Club’s scholarship program and grants for the upcoming year.

The 2003 Technical Symposium

Titled “Cellular - Past, Present and Future” and using the Club’s Roundtable & Historical Exhibition format created in 2002, the Radio Club of America’s 2003 Technical Symposium was held just prior to the banquet, with Radio Club Director and Fellow Rich Reichler of RJR Wireless serving as moderator.

Many fascinating, historic and nostalgic items were brought to the symposium by invited speakers, including many cellphones and one of the first cardiac pacemakers. The symposium hosted the following outstanding speakers: Marty Cooper, a founder and chairman of ArrayComm, Inc., who addressed the challenges encountered during the creation of the cellular industry, its present status and the future of wireless. Cooper, a Radio Club Fellow and the 1996 winner of the Fred M. Link Award, made the first experimental cellular phone call 30 years ago, and he brought with him one of the first portable cellular phones.



Radio Club Director **Kenneth A. Hoagland (F)** (right) presents **Dr. William E. Glenn** (left) with the Allen B. DuMont Citation for his "important contributions to the science of television." Dr. Glenn heads Florida Atlantic University's Imaging Technology Center and the NASA Imaging Technology Commercial Space Center (formerly called the Space Communications Technology Center). He has more than 120 patents in the realm of video technology, ultrasonic imaging, video displays, cameras, video compression signal processing, electron optics and nuclear implementation.

Radio Club Fellow Jim Healy, vice president/business alliances for T-Mobile USA, addressed the role of the cellular carriers today and tomorrow. Healy brought in and discussed a wide array of cellphones made during past years, ending with a state-of-the-art phone with a built-in camera. Dave Rowan, a principal business consultant for Mal Gurian Associates, covered the early days of OKI's role with Bell Labs and the use of robotic manufacturing for cellular phones in the United States. The 32 professionals who attended found it very interesting learning from and interacting with the three planned speakers as well as with impromptu speaker Morris Tischler, who discussed his role in developing the cardiac pacemaker.

It was a day of honors, some historical enlightenment, and good fellowship. Those in attendance appreciated the outstanding achievements that were highlighted, and they left feeling inspired.



Arthur E. McDole (F) is the 2003 recipient of the Fred M. Link Award for his "substantial contributions to the advancement and development of land mobile radio and communications." McDole also is a life member of APCO International, cited for at least five major accomplishments that have contributed significantly to the betterment of the association.



June Poppele (H) (left) presents the Jack Poppele Broadcast Award, named for her father, to **Skitch Henderson** (right) for his "long-term contributions to radio broadcast improvements." Henderson is best remembered for his stints as the bandleader on "The Tonight Show" in the 1950s and 1960s. Henderson, who lives in Connecticut, reportedly is a world-class grill cook who teaches occasionally at his restaurant.



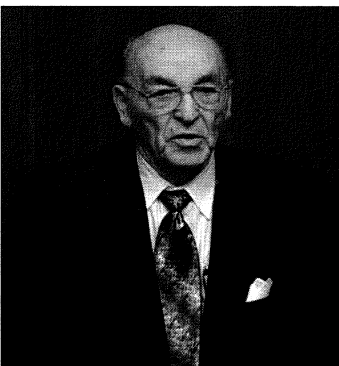
Andrew A. Conte (F)(right) accepts the 2003 Special Services Award for “significant contributions to the support and advancement of The Radio Club of America” from **Karen Clark (M)** (left), the 2002 winner of the plaque. Conte has devoted a lot of his personal time, expertise and services to the Radio Club, and he produces professional videos of the Radio Club’s technical round tables. He also has spent time speaking on behalf of the Club at amateur radio groups in his area, educating young members about the Radio Club and perhaps bringing them into the membership.



Maurice H. Zouary (L) won the Special Recognition Award in “appreciation of his dedicated service to the Radio Club of America.” Zouary is an accomplished author, with his most recent work being “DeForest - Father of the Electronic Revolution.” He also has been instrumental in refurbishing early filmclips of little-known entertainment

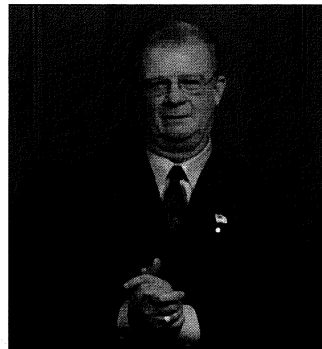
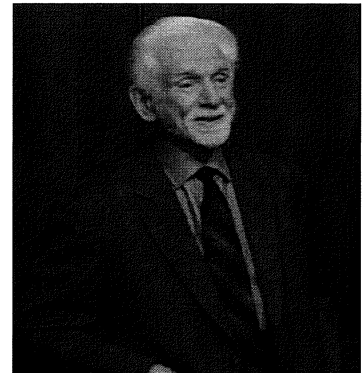
stars who worked during the early 20th century. In recent years, Zouary has won the Radio Club’s Special Service Award (1991) and the Lee DeForest Award (1986).

Morris Tischler (M) had a busy day with the Radio Club, first speaking on his role in developing the first solid-state cardiac pacemaker



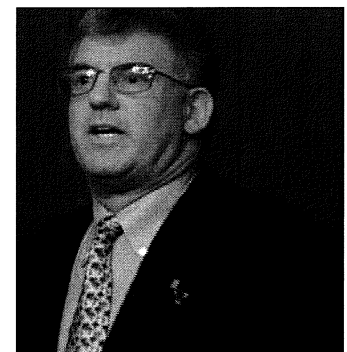
before accepting the 2003 Armstrong Medal later that evening at the banquet. Tischler also has written more than 95 books on electronic engineering, telecommunications and bio-related technology.

Marty Cooper (F) a founder and chairman of smart-antenna manufacturer ArrayComm Inc., addressed the challenges encountered during the creation of the cellular industry along with the present status of the industry and the future of wireless communications. Cooper, the 1996 winner of the Fred M. Link Award, has been called “the father of the cellular phone” following his early work at Motorola. He brought one of the first portable cellphones to the Symposium for show and tell.



Jim Healy (F), vice president/business alliances for T-Mobile USA, a leader in wireless data, told attendees at the Radio Club’s Technical Symposium about the current and future role of cellular carriers. Healy brought with him a wide array of cellphones, including a state-of-the-art handset featuring a built-in camera. Cameraphones are the fastest-growing technology in the wireless industry today.

Keeping the afternoon Technical Symposium going, Director **Rich Reichler (F)** shepherded the invited speakers and handled the question and answer periods.





RADIO CLUB OF AMERICA
94th Anniversary Dinner
and
Awards Presentation
November 21, 2003

The 2003 Radio Club of America Fellows' Response

Presented by Rich B. Berliner

President Contreras, club directors, distinguished guests, fellow members and friends. I would like to make a few short remarks on behalf of the 2003 Radio Club fellows.

When I joined the Radio Club a number of years ago, I did so because I thought it would be a good way to get more business for my company. I attended my first few Radio Club dinners, I met Fred Link, and I began to have an appreciation for what this organization really is. The Radio Club is the link between our heritage and our future. I stopped looking at the Club in dollars and cents terms, and I began appreciating how radio ultimately gave me the ability to do something I love to do. While our industry is considered "high tech," the beginnings go back nearly a hundred years.

The sad part is that the average person working out there in cellphone land has no knowledge of who Fred Link, Jack Poppele or David Sarnoff were or what they accomplished. When I told some friends in the industry that I was being made a Fellow in the Radio Club, most asked "what's that?" When I



Berliner told Radio Club members to do all they can to bring the message of the Club's radio heritage to others in the wireless industry and to not forget that was a time when people communicated without benefit of RF devices.

described that modern cellphones evolved from Marconi and the invention of radio, I got mostly blank stares. It is comforting to me, especially in tough business times in wireless, that we evolved from something and that we have a heritage to be proud of.

I strongly recommend that we all should do what we can to bring the message of our radio heritage to the folks who work in wireless and not forget that there was a time before we could all communicate without thinking twice using radio-based devices. I believe that these efforts will bear fruit as our industry grows out of the growth phase and exists well into maturity. After all, we're only around 100!

On behalf of this year's Fellows, I want to thank the Club and its directors for the honor they have bestowed on us. I also want to personally thank Mercy Contreras for her terrific leadership. And thank you all for coming.



The Radio Club Fellows, Class of 2003

Back Row (left to right) Charles F. Adams, Robert E. Levy, Robert M. Treanor, Lloyd B. Roach, Frederick S. Freer III. Front Row (left to right) Terry G. Daniels, Margaret J. Lyons, Alan R. Shark, Rich B. Berliner. Not pictured: Pierre J. Catala, Donald R. Clark, William L. Wilson.

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to listen
and learn

to plan
and prepare

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and exchange



APCO International 70th Annual Conference & Exposition August 8-12, 2004, Montreal, Quebec

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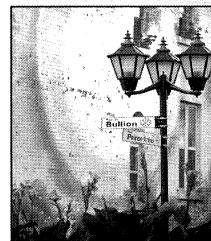
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Join us as we move "Beyond Communication Challenges."

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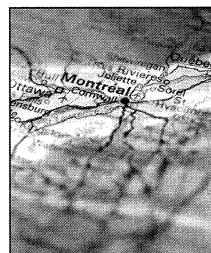
PROGRAM HIGHLIGHTS

Don't miss out on these intriguing Supersessions!

Supersession - The SARS Outbreak
Supersession - The Blackout of 2003

Enjoy Montreal's "Joie de Vivre" featuring
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Take part in Educational Sessions on topics
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Technologies and much, much more!



2003 Banquet Sponsors

We acknowledge with thanks the support of the following persons and companies whose contributions may be attributed to the success of the banquet.

- AMTOL Radio Communications, Inc.
Andrew Singer, *Fellow*
Arthur E. McDole, *Fellow*
Bruce S. Marcus, *Fellow*
Carl Mathis, *Fellow*
Carolyn M. Servidio, *Fellow & Director*
Charles F. Adams, *Fellow*
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Components Corporation
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The Radio Club Scholarship Committee Makes Grants For 2004

By John Dettra, chairman, Radio Club Scholarship Committee

The Scholarship Committee of the Radio Club of America made a study of the demographics of the membership of the Radio Club, and it has made its grants across the country reflecting colleges and universities in areas where the Club has its largest interests. There has been an increased effort to make grants to deserving students who are studying wireless communications. In studying the professional backgrounds of the membership and the board, the committee requests that the students be full-time third- or fourth-year students studying wireless telecommunications.

During the last two years, the grants have been increased to \$2,000 per student, which obviously is more help for the student but it has resulted in fewer grants. Grants are only made from the interest accrued from the various named funds that make up the Scholarship Fund, which has grown to more than \$380,000. The principal of the Scholarship Fund is never touched, and we expect to make grants available for higher education for a long time.

There are 10 named funds, honoring: Biggs, Finch, Goldwater, Grebe, Gunther, Link, Meyer, Meyerson, Poppele, Somers and the General Scholarship Fund (formerly called Grants-in-Aid). Some of these funds may not singularly produce a full grant; they are combined with other funds to create a full award. The Radio Club encourages its members to establish a named fund and to have the honor of students writing them letters telling them how much the grant means to them and what a difference the grant has made to their careers.

There is a tremendous amount of satisfaction for those who have funds named for them to receive letters from the students thanking them for making it possible to finish a four-year program. Excerpts from these letters will be printed in a future *Aerogram*.

The grants for 2004 - each totaling \$2,000 — were given to students attending the University of Texas at Austin, the University of California at Los Angeles, Montclair State University, Fairleigh Dickerson University, Virginia Polytechnic University, Capitol College and Polytechnic University (Brooklyn). Three \$1,000 grants were made to The Foundation for Amateur Radio, which then will award them to three students studying wireless communications.

The committee would like to have more Radio Club members establish named funds within the Scholarship Fund; at the present time, a donation of \$10,000 will name a fund at your request. The Radio Club includes one member who has given more than \$60,000; it is hoped that other members would seek to enjoy this satisfaction of seeing a needy student complete a degree. Because a \$10,000 fund does not produce a \$2,000 grant, the committee combines named funds to do so.

The Radio Club sponsors breakfast meetings with notable speakers at the various wireless trade shows; any undesignated funds from these breakfasts are donated to the Scholarship Fund. With the rising cost of college tuition, your help is greatly needed. Please contact the chairman directly or through the Radio Club office with ideas and donations.

Although many of our notable members are not technical themselves, they are outstanding leaders in the wireless industry. It is hoped that the students who receive the grants will become Radio Club members, and that the Radio Club members in those areas will become involved in the award ceremonies — all good publicity for The Radio Club of America.



The Radio Club of America, Inc.

Founded 1909, New York, USA

TREASURER'S REPORT FOR FISCAL YEAR 2003

(October 1, 2002 - September 30, 2003)

CHANGES IN UNRESTRICTED NET ASSETS

REVENUES & GAINS

Dues Collected & Applied	\$31,536
Other Member Fees	1,207
Advertising Sales	16,784
Publications Sales	365
Banquet (net)	2588
Pins & Plaques Sales	558
Interest on General Funds	24,158
Contributions - General Fund	6,255
- SW Section - members & sponsors	9,579
Net Realized Gain (Loss) on Investments	(177)
Net Unrealized Gain (Loss) on Investments	<u>(2,173)</u>
Total Unrestricted Revenues & Gains	<u>\$85,504</u>

NET ASSETS RELEASED FROM RESTRICTIONS

\$19,000

TOTAL UNRESTRICTED REVENUES, GAINS & OTHER SUPPORT

\$104,504

EXPENSES

Program Services	
Management & Consultant Fees	\$31,245
Meeting Expense	11,309
Pins & Plaques	1,020
Postage	1,840
Printing & Stationery	105
Trade Show & Web Site Expense	2,120
Publications Printing	17,695
Publications Mailing Expense	4,993
Miscellaneous Program Expense	544
Grants	<u>25,500</u>
Total Program Services	<u>\$96,371</u>

Management and General Services

Ballot Expense	74
Insurance	1,651
Legal & Accounting	1,700
Office Supplies	99
Telephone	1,246
Miscellaneous G&A Expense	915
Total Management & General Services Expense	\$5,685

Transfer Interest & Dividend Income to Temporarily Restricted Funds	21,792
Transfer to Temporarily Restricted Funds	<u>4000</u>

TOTAL EXPENSES

\$127,848

(DECREASE) IN UNRESTRICTED NET ASSETS

(23,344)

CHANGES IN TEMPORARILY RESTRICTED NET ASSETS

Grants and Contributions	\$16,555
Transfers from Unrestricted Funds	25,792
Net Assets Released from Restrictions	
Restrictions Satisfied by Payments (Scholarships Awarded)	(19,000)

INCREASE IN TEMPORARILY RESTRICTED NET ASSETS

\$23,347

INCREASE IN NET ASSETS

3

Net Assets at Beginning of Year

495,709

NET ASSETS AT END OF YEAR

\$495,712

BALANCE SHEET

ASSETS

Current Assets

Cash-Operating	\$74,131
Cash-Banquet & Section	33,601
Accounts Receivable	1,152
Accrued Interest	34
Prepaid Banquet & Operating Expenses	<u>3,436</u>
Total Current Assets	<u>\$112,354</u>

Other Assets

Investments	400,392
Inventory	3,110
Total Other Assets	<u>\$403,502</u>

TOTAL ASSETS

\$515,856

LIABILITIES

Current and Long Term Liabilities

Prepaid Dues & Advertising - Current	\$13,089
Prepaid Dues - Long Term	<u>7,055</u>
Total Liabilities	<u>\$20,144</u>

Net Assets

Unrestricted	32,759
Restricted	<u>462,953</u>
Total Net Assets	<u>\$495,712</u>

TOTAL LIABILITIES AND NET ASSETS

\$515,856

TREASURER'S REPORT FOR FISCAL YEAR 2003

(October 1, 2002 - September 30, 2003)

SCHOLARSHIPS AND GRANTS FUNDS

	Capital	Available for Distribution	Totals
Opening Balance October 1, 2002	\$341,771	\$19,217	\$360,988
Contributions & Additions	19,365		19,365
Interest Earned		17,760	17,760
Scholarships & Grants Awarded		(19,000)	(19,000)
Ending Balance September 30, 2003	\$361,236	\$17,977	\$379,113

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PMC ASSOCIATES

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MANUFACTURERS' REPRESENTATIVES
SERVICING THE COMMUNICATIONS INDUSTRY

DETTA COMMUNICATIONS, INC.

John E. Dettra, Jr., President

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Phone: (703) 790-1427
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TELECOMMUNICATION ENGINEERS

BEAM RADIO

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INFORMATICA

Donald Christiansen, P.E., F.I.E.E.E., President and Principal

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Fax: (631) 385-4940
Email: donchristiansen@ieee.org



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Website: www.hccinc.net



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Email: lmeyer@decibelproducts.com
Web Site: www.decibelproducts.com



**RADIO CLUB OF JUNIOR HIGH SCHOOL 22
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HIGGS LAW GROUP

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THE CAMBRIDGE GROUP, INC.

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 15851 Dallas Parkway, Suite 190
 Addison, TX 75001
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Email: davidp@cgwireless.com
Website: cgwireless.com
MANUFACTURERS REPRESENTATIVE



**ACTICOM WIRELESS
 COMMUNICATIONS, INC.**

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MANUFACTURER'S REPRESENTATIVE

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Fax: 626-305-8801
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ELECTRONIC MANUFACTURERS' REPRESENTATIVE

RADIOMATE

Carolyn M. Servidio, President

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 Concord, CA 94520
Phone: (925) 676-3376 • (800) 346-6442
Fax: (925) 676-3387
Email: cmservidio@radiomate.com
Web Site: www.radiomate.com



ITT INDUSTRIES

ITT Aerospace/Communications

Eric D. Stoll, Ph.D., P.E., Sr. Staff Engineer

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 Clifton, NJ 07014-1993
Phone: (973) 284-4887
Fax: (973) 284-3394
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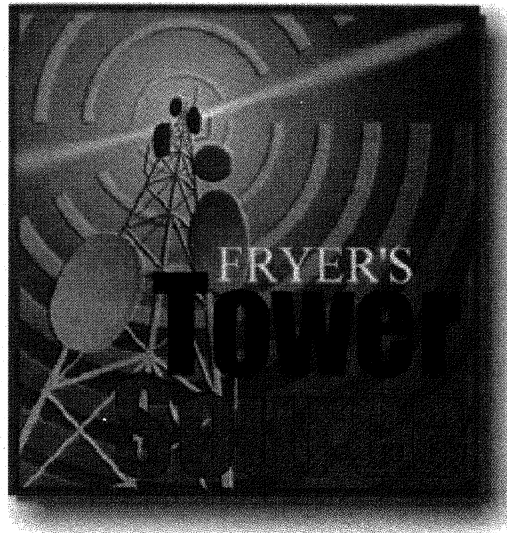
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The Radio Club of America, Inc.
Awards Committee
Fellow Nomination Form

The Club annually elevates worthy Club members to the grade of Fellow in recognition of outstanding achievement, and to provide inspiration for many people, both currently and in the future. As a member of the Club, your help in nominating and sponsoring candidates is appreciated. This form is provided to assist you in this process. In order to complete the elevation process in time for the annual Awards Banquet in November, the Awards Committee prefers to receive nominations prior to April of the year of the proposed elevation.

Article I of the Club's By-Laws states the following:

- Section 6: Elevation or transfer to the grade of Fellow shall be by a majority vote of the Board of Directors.
- Section 7: A Fellow shall have been a member of the Club for at least five (5) years and/or a Senior Member for at least two (2) years and one whose contributions have been outstanding with extraordinary qualifications in the art and science of radio and electronics. The five and two years referenced above may be waived by a majority vote of the Board of Directors.
- Section 8: Elevation to the status of Fellow is by invitation only. If such person is not a Senior Member, his/her sponsor must submit a Senior Member form to the Executive Committee for recommendation to the Board of Directors

To nominate an RCA member, please **legibly provide the information below** to the Club's Awards Committee in care of the Club's Executive Secretary in any of the following ways:

Fax: (732) 219-1938
E-mail: ExSec@Radio-Club-of-America.org
U.S.P.S. mail: 244 Broad St., Red Bank, NJ 07701-2003

A. Full name of candidate: _____

B. Proposed citation (between 5 and 25 words), based on why it is felt that this candidate should be considered: (to be announced at the presentation of the award)

C. Attach supporting material such as an expanded explanation, a biography, a resume, and any significant published articles: (please list your attachments below)

Sponsor submitting this nomination:

Full name: _____ **Phone number:** _____

E-mail address: _____ **Fax number:** _____

U.S.P.S. mailing address: _____

Date submitted: _____



The Radio Club of America, Inc.
Awards Committee
Major Award Nomination Form

The Club annually grants each of several major awards to members and non-members in recognition of outstanding achievement, and to provide inspiration for many people, both currently and in the future. As a member of the Club, your help in nominating and sponsoring candidates is appreciated. This form is provided to assist you in this process. In order to complete the grant process in time for the annual Awards Banquet in November, the Awards Committee prefers to receive nominations prior to April of the year of the proposed grant.

For each major award, the Awards Committee collects and evaluates all nominations then submits its recommendation to the Board of Directors for final approval by a majority of the Board.

To nominate someone for an award, please **legibly provide the information below** to the Club's Awards Committee in care of the Club's Executive Secretary in any of the following ways:

Fax: (732) 219-1938
E-mail: ExSec@Radio-Club-of-America.org
U.S.P.S. mail: 244 Broad St., Red Bank, NJ 07701-2003

A. Name of RCA award: _____

B. Is Club membership required for this award? _____

C. Full name of candidate: _____

D. Is candidate a member of the Club? _____

E. Proposed citation (between 5 and 25 words), based on why it is felt that this candidate should be considered: (to be published and announced at the presentation of the award)

F. Attach supporting material such as an expanded explanation, a biography, a resume, and any significant published articles: (please list your attachments below)

Sponsor submitting this nomination:

Full name: _____ Phone number: _____

E-mail address: _____ Fax number: _____

U.S.P.S. mailing address: _____

Date submitted: _____



The Radio Club of America, Inc.
Awards Committee
Fellow Nomination Form

The Club annually elevates worthy Club members to the grade of Fellow in recognition of outstanding achievement, and to provide inspiration for many people, both currently and in the future. As a member of the Club, your help in nominating and sponsoring candidates is appreciated. This form is provided to assist you in this process. In order to complete the elevation process in time for the annual Awards Banquet in November, the Awards Committee prefers to receive nominations prior to April of the year of the proposed elevation.

Article I of the Club's By-Laws states the following:

- Section 6: Elevation or transfer to the grade of Fellow shall be by a majority vote of the Board of Directors.
- Section 7: A Fellow shall have been a member of the Club for at least five (5) years and/or a Senior Member for at least two (2) years and one whose contributions have been outstanding with extraordinary qualifications in the art and science of radio and electronics. The five and two years referenced above may be waived by a majority vote of the Board of Directors.
- Section 8: Elevation to the status of Fellow is by invitation only. If such person is not a Senior Member, his/her sponsor must submit a Senior Member form to the Executive Committee for recommendation to the Board of Directors

To nominate an RCA member, please **legibly provide the information below** to the Club's Awards Committee in care of the Club's Executive Secretary in any of the following ways:

Fax: (732) 219-1938
E-mail: ExSec@Radio-Club-of-America.org
U.S.P.S. mail: 244 Broad St., Red Bank, NJ 07701-2003

A. Full name of candidate: _____

B. Proposed citation (between 5 and 25 words), based on why it is felt that this candidate should be considered: (to be announced at the presentation of the award)

C. Attach supporting material such as an expanded explanation, a biography, a resume, and any significant published articles: (please list your attachments below)

Sponsor submitting this nomination:

Full name: _____ **Phone number:** _____

E-mail address: _____ **Fax number:** _____

U.S.P.S. mailing address: _____

Date submitted: _____



The Radio Club of America, Inc.

Founded 1909, New York, U.S.A.
WORLD'S FIRST RADIO COMMUNICATION SOCIETY

The mission of The Radio Club of America is to provide a forum for the exchange of knowledge, recognize outstanding achievement, provide financial assistance to deserving students and preserve the history of wireless communications.

APPLICATION FOR MEMBERSHIP

Date: _____

TO: THE EXECUTIVE COMMITTEE

I hereby apply for Regular Retired Student (please check one) membership in THE RADIO CLUB OF AMERICA, INC. and certify that I meet the requirement for the grade selected. I further agree that, if elected, I will be governed by the Club's Constitution and By-Laws as long as I continue to be a Member.

Signature

Full Name: _____
(LAST) (FIRST) (INITIAL) (CURRENT AMATEUR CALL)

Home: _____
(STREET) (The above information is used for mailings and your membership directory listing)

(CITY) (STATE) (ZIP CODE)

(PHONE) (FAX) (EMAIL)

Business: _____
(ORGANIZATION) (DIVISION)

(STREET) (CITY) (STATE) (ZIP CODE)

(PHONE) (EXT.) (FAX) (EMAIL)

Birthplace: _____ Date of Birth: _____

Education and memberships in other clubs and societies: _____

Present occupation _____

Previous experience, indicate approximate dates (a current resume may be attached to the application):

In what particular branch of the communications art are you most interested? _____

In what year did you become interested in electronic communications? _____

SPONSOR (optional) Please list the name of a member to whom you are personally known: _____

Mail this application with the applicable TOTAL DUE AT INITIATION (as indicated on the reverse of this form) to:

The Radio Club of America, Inc., 10 Drs James Parker Blvd – Ste 103, Red Bank, NJ 07701-1500

732-842-5070 • Fax 732-219-1938 • Emails: exsec@radio-club-of-america.org [or] info@radio-club-of-america.org • www.radio-club-of-america.org

The Radio Club of America was founded in 1909 by a group of the industry's pioneers, and is the first active electronics organization in the world. Its roster of members is a worldwide Who's Who that includes many who founded and built the radio industry.

The Club's objectives include promoting cooperation among individuals interested in electronic communications and in preserving its history. The Club administers its own Grants-In-Aid fund to provide educational scholarships from tax-deductible contributions of the Club's members and business organizations.

The Club publishes and distributes its *PROCEEDINGS* twice a year.

ENTRANCE FEE AND DUES

<u>Membership Category</u>	<u>Annual Dues Rate</u>	<u>3-Year Dues Rate</u>	<u>Initiation Fee</u>	<u>*Total Due At Initiation</u>
Regular	\$50	\$135	\$50	\$185 (Includes 3-yr's dues)
Retired	\$32	\$ 75	\$25	\$100 (Includes 3-yr's dues)
Student	\$20	n/a	\$10	\$ 30 (Includes 1-yr's dues)

REGULAR member is a member not qualified for **RETIRED** or **STUDENT** status

RETIRED member is at least 65 years of age and fully retired.

STUDENT member is a full-time student at an accredited academic institution.

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(\$15 per year of dues)
to Total Due At Initiation

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Signature _____ Billing address for credit card _____

(The charge will appear on your statement as Meredith & Hopkins.)

All monies to be issued in U.S. funds, drawn on an U.S. bank. International money orders and traveler's checks are accepted in U.S. funds, payable in the U.S. Checks should be made payable to **The Radio Club of America, Inc**

Recommendation of sponsor: (optional)

Sponsor Signature: _____

Date: _____

FOR OFFICIAL USE

REV-010104

Date Application received: _____

Date and Amount of Dues Received: _____

Admitted to Membership: _____

Membership Certificate and Pin issued on: _____



The Radio Club of America, Inc.

Founded 1909

WORLD'S FIRST RADIO COMMUNICATION SOCIETY

APPLICATION FOR SENIOR GRADE MEMBERSHIP

Date: _____

TO: THE EXECUTIVE COMMITTEE

I hereby apply for the Grade of Senior Member of THE RADIO CLUB OF AMERICA, INC. and agree, if advanced to this level, that I will be governed by the Club's Constitution and By-Laws.

Full Signature

Full Name: _____
(LAST) (FIRST) (INITIAL)

Home Address: _____
(STREET)

(CITY) (STATE) (ZIP CODE)

(PHONE) (FAX) (EMAIL)

PRESENT OCCUPATION

(COMPANY OR ORGANIZATION NAME)

(TITLE OR POSITION)

(STREET) (CITY) (STATE) (ZIP CODE)

(PHONE) (EXT.) (FAX) (EMAIL)

SPONSORS

Letters of recommendation are required from two or more members (any grade) for sponsorship of Grade of Senior Member. Letters must be sent by each sponsor directly to The Radio Club of America, Inc., 10 Drs James Parker Blvd – Ste 103, Red Bank, NJ 07701-1500. List Sponsors below:

- | | |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

Mail this application with the forty (\$40) dollar application fee to cover the cost of the Senior Grade Certificate and Pin to the address indicated below.

- Check enclosed
 International Money Order enclosed
 Traveler's Check enclosed
 Credit Card

Visa M/C Amex Card number _____ Exp. date _____ Amt. \$ _____

Signature _____ Billing address for credit card _____

(The charge will appear on your statement as Meredith & Hopkins.)

All monies to be issued in U.S. funds, drawn on a U.S. bank. International money orders and traveler's checks are accepted in U.S. funds, payable in the U.S. Checks should be made payable to **The Radio Club of America, Inc.**

(more) →

EDUCATION

Institution

Level Achieved

Date

Field

**MANAGERIAL, PROFESSIONAL AND TECHNICAL EXPERIENCE
RELATING TO ELECTRONIC COMMUNICATIONS**

**PUBLICATIONS OF SCIENTIFIC OR PROFESSIONAL PAPERS, BOOKS OR ARTICLES
RELATING TO ELECTRONIC COMMUNICATIONS**

**OTHER BACKGROUND
RELATING TO ELECTRONIC COMMUNICATIONS**

Professional Awards _____

Professional Engineer's License(s) _____

Other Professional Society Affiliations & Grade of Membership _____

Current Amateur Radio Call Sign _____

Other FCC Licenses Now or Previously Held _____

FOR OFFICIAL USE

REV-010104

Date Application received: _____

Amount of Fee Received: _____

Date Approved by Board: _____

Certificate & Pin issued on: _____

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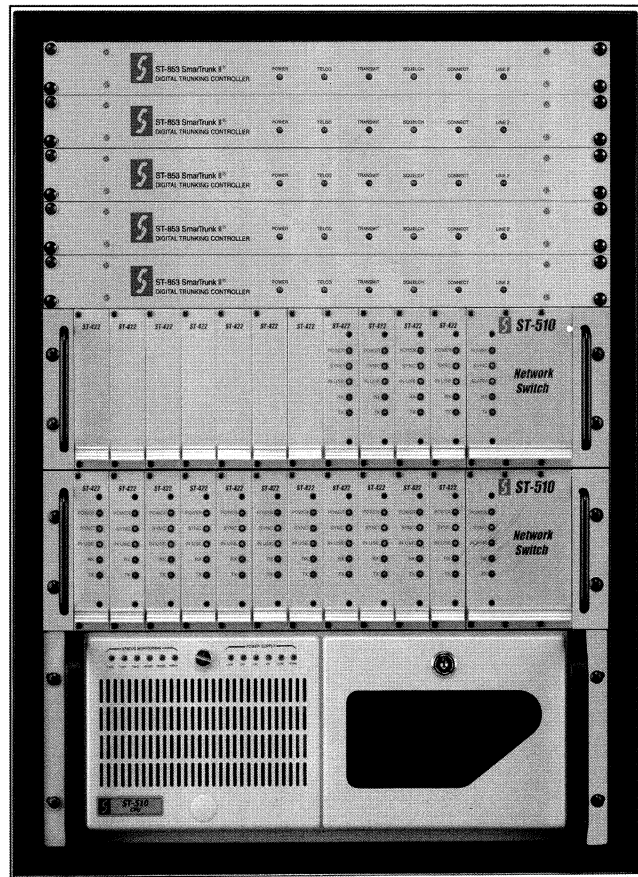


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