







WE HOPE YOU GET ALL THE LATEST TECHNOLOGY TO CELEBRATE THE HOLIDAYS!!

(Illustration Courtesy Radio News, February 1920)

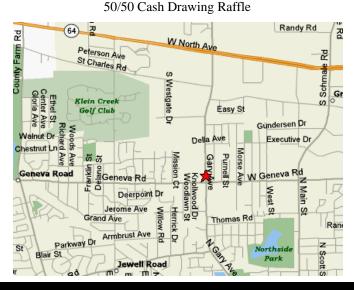
UPCOMING INDOOR MEET DEC. 8, 2013

AMERICAN LEGION HALL

570 South Gary Avenue, Carol Stream, IL

December 8, 2013 7AM – 11AM

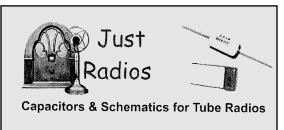
Peoples' Choice Contest: Awards For 1st, 2nd, 3rd Place, Donation Auction Boy Scout Pancake Breakfast / Free Coffee, Juice & Cookies



2014 MEETING SCHEDULE

February 9, 2014	7AM-9:30AM Indoor Swap Meet People's Choice Contest, Officers' Meeting 9AM	American Legion Hall Carol Stream, IL (See Map)
March 30, 2014	7AM-11AM Outdoor Swap Meet Inside Business Meeting 9:30AM	American Legion Hall Carol Stream, IL (See Map)
June 15, 2014	Outdoor - Gates Open 7AM Combined Meet With 6-Meter Club of Chicago	DuPage County Fairgrounds Wheaton, IL (See Advance Ticket Form & Map)
July 31 - August 2 2014 (Thurs., Fri., Sat.)	RADIOFEST Thurs. Main Auction/Full Program on Fri./Donation Auction Sat.	Willowbrook Inn 7PM Thurs. – 1PM Sat.
October 5, 2014	7AM-11AM Outdoor Swap Meet Business Mtg./Officer Election 10AM	American Legion Hall Carol Stream, IL (See Map)
December 7, 2014	7AM-11AM Indoor Swap Meet Business Meeting 10AM	American Legion Hall Carol Stream, IL (See Map)

BUSINESS CARD ADS



David and Babylyn Cantelon 6 Ferncrest Gate, Scarborough Ontario, Canada, M1W 1C2 www.justradios.com justradios@yahoo.com (416) 502-9128 We invite all of our members to scan and send in your business card to be included in *ARCI News*. For \$80 your card will appear in the next 6 issues! Your card will be seen by approximately 400 people per issue and up to 1,000 people at *Radiofest* where we make additional copies of *ARCI News* available at no charge. If interested, please scan your card

and send it to jbart1964@gmail.com and mail a check for \$80 to Rudy Hecker, ARCI Treasurer, 127 Weymouth Court, Schaumburg, IL 60193. Thank you all for your continued support of ARCI!!!

PAID ADVERTISING



Scientific Instrument Society

Join fellow enthusiasts - visit our website for details: www.sis.org.uk

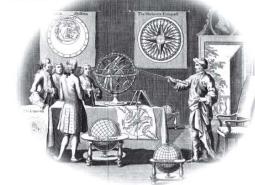
The Society has existed for over 25 years to promote the history and preservation of scientific instruments

How to join

The annual subscription is due on 1 January. New members receive copies of the Bulletin for the year in which they join. By joining the SIS you will support instrumental history and meet fellow enthusiasts with a wide range of interests.

The Scientific Instument Society 90 The Fairway, South Ruislip Middlesex HA4 08Q Tel: 020 8582 3895 Email: sis@sis.org.uk Website: www.sis.org.uk

(The Society is registered as a charity in the UK No 326733)



For the current Annual Subscription rates, see the SIS website www.sis.org.uk and click on 'join', or consult the latest *Bulletin*.

Join using online application at www.sis.org.uk

CLUBING AROUND

ANTIQUE WIRELESS ASSOCIATION

The Antique Wireless Association will have its next meeting in May 2014 at the AWA Museum in Bloomfield, New York. The AWA, our national affiliate, publishes the AWA Journal, the AWA Review and The AWA Gateway. The latest edition of The AWA Gateway is available for free at http://www.antiquewireless.org/awa-gateway.html. Dues are \$25 per year. Information can be found at http://www.antiquewireless.org/.

WISCONSIN ANTIQUE RADIO CLUB, INC.

The next WARCI meeting will take place in late Jan. 12, 2014 at the Best Western Plus Milwaukee Airport Hotel and Conference Center, 5105 S. Howell, Milwaukee. For information about the club, please contact President Greg Hunolt at ghunolt@excel.net or see the web site at www.warci.org.

NORTHLAND ANTIQUE RADIO CLUB

The Minnesota Club has its next event is scheduled for mid-Feb. 2014, a workshop and outdoor mini-swap meet. Radio Daze, the Upper Midwest's ultimate vintage radio collecting event, will be held in May 2014. For more information and the date which will be announced, please see http://www.northlandantiqueradioclub.com/index.shtml.

MICHIGAN ANTIQUE RADIO CLUB

MARC's next meet is scheduled in mid-Jan. 2014 in Farmington Hills, Michigan. Details will be announced. Please see the MARC web site for more information at http://michiganantiqueradio.org/.

INDIANA HISTORICAL RADIO SOCIETY

IHRS Winter Meet will be held Saturday, Feb. 22, 2014 at the Lawrence Park Community Center, City of Lawrence, 5301 N. Franklin Road (north east Indianapolis). There will be a Swap N Sell indoor meet 8-11AM and a donation auction at 10AM. For more information please see http://www.indianahistoricalradio.org/ihrsched.htm.



ARCI



MEMBERSHIP RENEWALS

PLEASE CIRCLE YOUR MEMBERSHIP:

Membership Option	<u>Dues</u>	<u>Benefits</u>
Annual Membership	\$ 20	Full benefits: <i>ARCI News</i> subscription, Fee Discounts At Events, Seller Privileges at ARCI Events.
Spousal Annual Membership	\$ 10	Discounts at Events.
Student Annual Membership	\$ 5	Must Be 18 or Under, Full Benefits.
Lifetime Membership	\$ 340	Full Membership Benefits For Life (non-transferable).

MAKE YOUR CHECK PAYABLE TO ARCI AND SEND TO:

Antique Radio Club of Illinois P.O. Box 1139 LaGrange Park, Illinois 60526

EMAIL DELIVERY OF ARCI NEWS? YES or NO (circle one) **PRINT** DELIVERY OF ARCI NEWS? YES or NO (circle one)

Name:	
Spouse:	
Address:	
City:	State: Zip Code:
Home Phone:	Application Date:
Email:	
Emergency Contact Name:	Phone:

PRESIDENT'S MESSAGE

ARCI'S October swap meet met expectations all the way around. Overnight threatening weather cleared, making way for blue skies, sunshine and a good turnout. I believe Rudy Hecker told me there were 29 sellers on hand. Early on, I took my camera and got a good assortment of "live-action" swap meet pictures for the newsletter and web-site. Thanks guys. Then I came upon an interesting assortment of items Jim Novak was offering from the estate of a silent key member of the Six Meter Club; with proceeds going to the Six Meter Club's College Scholarship Fund. About 18 months ago, a friend of mine in Quincy wondered if I could find her a certain model of a 1938 Zenith console. After searching at every auction and meet since then, I found that Jim had TWO of them from the estate. After a quick cell phone call, to confirm the deal was still standing, one of them filled the bill exactly; "problem solved!"

The October business meeting was attended by 12 club officers and directors. Barry Janov conducted the election of officers for 2014: Olin Shuler, President; Jim Novak, Vice President; Keith Schreiter, Secretary/Membership; and, Rudy Hecker, Treasurer. We also discussed *Radiofest* planning for 2014. After a thorough discussion of all pros and cons, the board decided to continue the Thursday-Friday-Saturday program format used in past years. Negotiations with the Willowbrook Inn continue. The dates of July 31-Aug 1-Aug 2 have been reserved, along with price commitments, with the intent to finalize the contract as soon as possible. ARCI continues to keep an open mind about changes to *Radiofest* to increase attendance and improve costs. But for 2014, a review of the benefits vs. apparent cost increases indicates that we should continue on the same days of the week at the Willowbrook location if possible. More details will be available for the December 8th meeting.

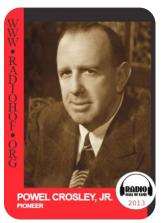
Radiofest 2014 will commemorate the 100th anniversary of the start of World War I and the birth of ARRL, plus the 70th anniversary of D-Day. Atrium displays will feature related vintage equipment and ephemera. Military collectors will be encouraged to participate in the contest, displays, swap meet and in operating events if possible.

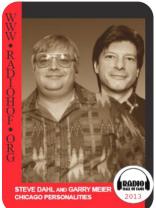
Many ARCI memberships end in December. If so, the next meeting is the time for you to renew. Keith Schreiter and Rudy Hecker will be ready for you!

So, don't miss our December 8th meeting. It will be held indoors, with space for the People's Choice Contest and an unusually good Auction to close the event. Once again, I extend my thanks to our generous contributors to the Donation Auction Event at each meet. It helps provide much needed financial support to our organization.

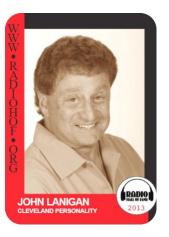
As we close the year, I want to express my thanks to our Directors, Officers and especially the volunteers and members that make this such a great organization. See you on December 8th. Seasons' greetings and Happy New Year!

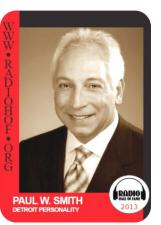
See You At The Next Meet, 30 & 73
OLIN SHULER W9PCD
ARCI PRESIDENT

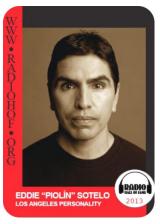


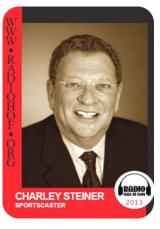












2013 Radio Hall of Fame Inductees.

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NEWS FROM THE MUESUM OF BROADCASTING COMMUNICATIONS

By David Bart

NATIONAL RADIO HALL OF FAME INDUCTION OF THE CLASS OF 2013

The Museum of Broadcast Communications (MBC) celebrated the 2013 induction of new members into the National Radio Hall of Fame on Saturday (Nov. 9), as they added Steve Dahl and Garry Meier, Blair Garner, John Lanigan, Paul W. Smith, Eddie Piolin Sotelo, Charlie Steiner and the late Powell Crosley, Jr.

The sold out event took place at Chicago's Museum of Broadcast Communications and featured host Larry King, along with announcer Jim Bohannon, and presenters Reba McEntire, Mike Rogers and Bob Sirott.

The National Radio Hall of Fame and Museum, located at the Museum of Broadcast Communications, showcases the talent of artists, disc jockeys, announcers, journalists, program hosts, and others who have influenced American society. More information can be found at the Radio Hall of Fame website http://www.radiohof.org/.



Entrance To The Radio Hall of Fame.



(L) Reba McEntire with RHOF Inductee (R) Blair Garner.



Radio Hall of Fame Announcers Larry King (L) and Jim Bohannon (R).

ARCI UPDATE

The President's Column - All The News That's Fit To Print

LARGE DONATION AUCTION AT DECEMBER MEET

Thanks to two generous contributions, ARCI's donation auction at the December 8 meet will have some nice items. We encourage everyone to bring additional items for the auction. The dontation auctions are an important source of revenue for the club and help to keep our membership fees and *Radiofest* fees from increasing. Some of the items in the December Donation Auction include the following from Dan Schoo. The pictures below include donations from the Don Gordon collection. Come-one, come-all to a terrific December meet!!!

- Icom IC-735 HF Transceiver, untested
- Icom PS-55 Power Supply, untested
- Icom AT-150 HF Full Automatic Antenna Tuner, untested
- Yaesu YO-100 Monitor Scope, with manual, lights up
- Radio Shack 3 Range Power/SWR Meter, 10-100-1000 Watts, untested
- Heathkit IG-102 AF Signal Generator, restored new caps
- Heathkit IG-28 Color bar and Dot Generator, tested works
- Hammarlund HQ-129-X, untested, dirty and rough but intact and restorable





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OFFICERS FOR 2014

ARCI held its annual meeting and officer elections in October. The following people were elected to serve another year by all present. Thanks to all who attended. Congratulations and thank you for your service to ARCI.

Board of Directors

Dr. Barry Janov, Chairman Jeff Aulik David Bart Art Bilski Harry Blesy Tom Kleinschmidt Steve Muchow, Advisor Robert Piekarz

Officers

Olin Shuler, President Jim Novak, Vice President Keith Schreiter, Secretary/Membership Rudy Hecker, Treasurer

VOLUNTEERS FOR 2014

ARCI has been fortunate to have a great team of volunteers over the years who have faithfully and generously served the club. They deserve your thanks and recognition for all the support they provided. Remember, ARCI is <u>your</u> club and we need <u>your</u> help too! As we all pitch-in, the club will continue to improve for everyone's benefit. Please talk with one of the officers, Board Members or current volunteers for more information on how you can lend a hand. ARCI looks forward to working with the following during the upcoming year.

Greg Hunolt, Radiofest Program Chairman Jim Novak, KC9IPB Ham Radio Station Ed & Judy Huether, Radiofest Coordinators Dan & Donna Schoo, Photography Chuck Schwark, Webmaster Bill Smith, ARCI Newsletter Publisher David & Julia Bart, ARCI Newsletter Editors Jim Sargent, *Radiofest* Auctioneer
John & Tom Kleinschmidt, Donation Auction
Janet & Jack Lavelle, Hospitality
Rudy Hecker, Signage, People's Choice Contest
Art Bilski, Public Relations
Ron Steinberg, *Radiofest* Audiovisuals
Karl Johnson & Pete Nauseda, Parking, Information



Transistor TV prototype (1952).





(L) Iconoscope II (1930) and (R) Miniature image orthicon tube (late 1940s).



(Left)
Model EMB-4,
the first
electron
microscope
(c. 1942).

(Right)
Model 00
personal
computer
(1972) and
COSMAC
Microtutor
(1976).



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David Sarnoff's garrison cap, RCA employee ID badge, military decorations, appointment orders.

Telegraph key used by Sarnoff in 1912 at Marconi's Wireless Telegraph Co.'s station in the New York City Wanamaker department store to compile news and the names of the Titanic disaster survivors.





First color TV set, CT-100 (1954).

YEAR END 2013 ANNUAL REPORT

By Olin Shuler, ARCI President

With the year 2013 drawing to a close in a few weeks, it is time for a summary of our year's activities. The club continues to maintain a strong membership. This was not a major growth year, nor was it a serious loss year. Similarly our financial position continues to be strong; however, careful management of expenses will be vital in 2014. There are some simple steps we must take to ensure ARCI's ongoing financial strength and our membership services, including *ARCI News*, Swap Meets, regular email notices and *Radiofest*. To reduce mailing costs in 2013, we offered digital copies of *ARCI News* for members who select that option. We consider this an expansion of services that can help reduce costs for all those who select this option. Printed copies will continue to be mailed to those members who specify that option. At this point it appears that membership dues will not change in 2014. Bidder cards for the *Radiofest* auction will remain at \$5 for members and \$10 for non-members. Certain internal expenses for *Radiofest* have been identified for control which should not affect the overall quality of the show and should remain unnoticed by participants. *Radiofest* dates for 2014 will be July 31, August 1 & 2.

I managed to attend all of our Sunday swap meets this year and found them all to be entirely enjoyable. These are consistently excellent events, where our members can meet, visit and have a relaxed good time. The efforts that our sellers make, having interesting items available, give vitality and lively spirit to the organization. Hats-off too the sellers and the buyers who give our club its "culture" of camaraderie. It is great to see the enthusiasm that accompanies the raffles at the Sunday meets, especially as Janet LaVelle goes after the 50/50 drawing ticket sales. The donation auction continues to be an important part of each meet. Our thanks to those who have donated items and to the enthusiastic buyers who take them home. This is an important part of our club income. Your continued support is welcomed and appreciated. The annual joint meeting with the 6-Meter Club in June ranks as one of the outstanding hamfests in the Midwest. I could fill the rest of the page with praise for this meet. As an amateur radio operator, I appreciate the fine assortment of amateur radio equipment and interesting people I meet there. This year's *Radiofest* was an outstanding success: from the auction to the atrium, the contest, forums, swap meet, banquet program, ham tent and donation auction. The organization owes a giant THANK YOU to the host of volunteers who made it all possible. I am afraid to start a list for fear I will miss someone. But they range from the "high visibility folks" to the members, with beads of perspiration, who appear from nowhere when help is needed number the selling spaces or give a hand during a thunder storm.

Radiofest is our club's identifying "brand name" around the country. We are known for our main auction, special displays, forums, contests, swap meet, donation auction, and banquet with live entertainment. Cheers for our Radiofest volunteers and supporters. The ARCI News also is part of our brand recognition. David and Julia Bart and a host of writers and volunteers come together every two months to make it happen. It is another one of those things that make us stand out. Our thanks go to all of them.

In the October Board meeting, the slate of officers from 2013 were all reelected to serve in 2014.

All told, the leadership folks and all of the volunteers and members that make us great can look forward to another banner year in 2014. Happy New Year and thanks to all of you.

NEWS FROM THE HAM SHACK

By Jim Novak, WA9FIH

SIDEBAND ENGINEERS' VHF AND UHF RADIOS

SBE – Sideband Engineers – was founded in 1962 by Faust Gonsett, W6VR (call is currently held by his son Bob). W6VR (originally W6DIZ) was also the Gonsett who designed the well known Gonset six and two meter AM Communicators. At SBE, he launched the SB-33, a compact hybrid HF transceiver covering the 75, 40, 20 and 15 meter bands – SSB only. The rig used a Collins mechanical filter for sideband generation and also for receiver selectivity and was small enough to use mobile. Gonsett became a silent key in November 1963, and Sideband Engineers was sold to Raytheon, and later to Linear Systems, who subsequently produced the SB-34, SB-35 (only a handful), and imported the SB-36 which provided full HF ham band coverage. But we will look at these radios in detail in a later column; our focus this time is on the VHF and UHF radios SBE imported from Japan in the early 1970's.



SBE's two meter (144-148 MHz) FM transceiver SB-144 (L) and TRC (R) adapter for UHF.

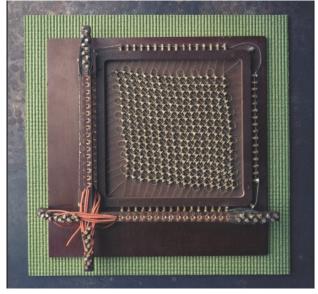
innovation in the field of consumer and industrial electronics from the 1940s into the 1980s. The IEEE Global History Network reports the following about RCA's research lab on their website:

"One of the longest-lived and most important corporate research laboratories in the electrical engineering field began its life in late 1942....That year, the leaders of the Radio Corporation of America decided to concentrate their research and development activities in a new facility built near Princeton University...After the [World War II], RCA was able to attract government funding for military research and development, and also to invest more of the company's own profits back into basic research. The research staff in the 1950s, now about double its wartime size, led in the development of a variety of new technologies such as color television, high-fidelity phonographs and tape recorders, transistors, lasers, computers, integrated circuits, advanced vacuum tubes, and one of the first commercial videodisc players."

[Read the full description at the IEEE's website http://www.ieeeghn.org/wiki/index.php/RCA_Laboratories_at_Princeton,_New_Jersey.]

Conclusion

For those interested in David Sarnoff, RCA and the ongoing efforts to preserve the history of electronics communications, these websites and the documents and artifacts they highlight are sure to be a tremendous resource. We encourage you to visit them and to explore their rich content. The following selection of photographs from the Sarnoff Collection in the TCNJ's *Innovations That Changed the World* exhibit offers a brief highlight of the offerings.



256-bit magnetic core memory, circa 1952.

America is in many ways the history of 20th century American innovation." The IEEE Foundation funded a new study center connected to the exhibition. The installation covers the development of radio, television, and broadcasting, as well as RCA's work in liquid-crystal displays, electron microscopy, solid-state physics, and computers. An online version of the IEEE article is available at http://spectrum.ieee.org/slideshow/consumer-electronics/gadgets/electronic-treasures-of-the-david-sarnoff-collection.

TCNJ's Sarnoff Collection Website

The Sarnoff Collection at TCNJ has a dedicated website at https://davidsarnoff.pages.tcnj.edu/. The website has links to the Collection, David Sarnoff, Exhibitions & Programs, News, Bibliography and instructions to Visit. Dr. Alexander Magoun, Outreach Historian at the IEEE History Center and the former Director of the Sarnoff Library, is on the TCNJ committee overseeing the collection. Many of you may remember Dr. Magoun's presentation about Sarnoff at *Radiofest* several years ago.

Hagley Library's Sarnoff Collection

The Hagley Library in Wilmington, Delaware was fortunate to receive the David Sarnoff Library after it closed in 2009. Staff at the Hagley Library has been processing nearly 3,000 linear feet of documents related to the career of Sarnoff and RCA. It is an incredibly important collection that traces the development of significant 20th century electronic technologies including radio, television and computers.

In addition to the paper records transferred to Hagley, they also received a collection of digital records. Much of the digital content is comprised of photographs, documents, and publications digitized by the Sarnoff Library staff over the last decade. Hagley's Digital Collections Department has begun the process of making selections of the material available online. Although the online portion represents only a small portion of the Sarnoff collections, it offers researchers a preview of what is to come.

The following selections are currently online in Hagley's Digital Archives at http://www.hagley.org/2013/08/sarnoff-digital-collection. The library will continue to add new materials in the coming years as staff time allows. The archives include:

- *RCA Laboratories Newsletters*, 1943-1986: internal publications used to disseminate information about research related to RCA product development.
- *RCA Engineer*, 1955-1974: technical journal published by RCA's Product Engineering Division in New Jersey.
- *RCA Annual Reports*, 1921-1945.
- *RCA/Victor Advertisements*: advertisements for RCA/Victor products primarily from the first half of the 20th century.

Recently, the Hagley Library announced the addition of thirty-three annual reports to the Hagley Digital Archives from RCA's research laboratory in Princeton, New Jersey. The facility, opened during World War II, was a significant center of

SBE's two meter (144-148 MHz) FM transceiver, the SB-144, was introduced in late 1971. Crystal controlled, it had twelve channel capabilities, ten watts RF out, and was housed in an attractive rounded corner heavy steel case with brushed aluminum front panel overlay. About the size of a CB radio, it was popular as a mobile and could also be used as a base station with an external 13.6 Volt power supply. A companion UHF (440-450 MHz) transceiver, the SB-450, became available in late 1973. It was also crystal controlled, with ten channels and about five watts out. At about that same time, SBE marketed what they referred to as the Cloverleaf, model SB-450TRC, a slender box mad in Japan containing circuitry which could be used to adapt their SB-144 for use on UHF, including a varactor-multiplier-diode to triple the 144's frequency and provide five watts RF out on 440 with no additional DC power supply required on transmit, only a few milliamps in receive mode for a transistor down-converter. It was necessary to move the SB-144's microphone to the 450TRC, which contained an audio attenuator to compensate for the fact that tripling an FM RF signal also triples the audio bandwidth (deviation). And for every UHF channel the user desired, a slot had to be sacrificed in the two meter radio. A front panel switch enabled the conversion, which was indicated with a little window with "VHF" or "UHF" backlit as appropriate. A second antenna input for the UHF antenna was provided on the back panel, and it was also necessary to connect a four wire cable jumper between the units for transmit audio and push-to-talk relay control.



Back couplers for SBE's Model SB-450-TRC.



SBE Model SB-450 UHF (440-450 MHz) transceiver.

The varactor transmit multiplier concept was unusual in commercially made Amateur Radio equipment, but back forty years ago UHF power transistors were expensive uncommon, and I recall that at least one land mobile manufacturer. Motorola. employed varactor triplers in several of their early MOTRAN radios. For the ham market however, before synthesized radios became common giving up several channels in one's crystal controlled two meter radio in order to operate on UHF must have been problematic, and with the SB-450, a complete UHF radio, available for just a few dollars more than the 450TRC, I doubt that very many were sold - I do not recall seeing one at any of the many Hamfests I have been too until I found one this year! Mine has the serial number 301023, which is possibly the twenty-third unit that was produced, although I can't be sure of that.

HISTORY CORNER

An Occasional Column on Topics of Historical Interest By David and Julia Bart

SARNOFF COLLECTION FINDS A HOME AND NEW EXHIBITS OPEN

By David and Julia Bart

The Sarnoff Collection is named in honor of David Sarnoff, chairman of the Radio Corporation of America (RCA), founder of the National Broadcasting Company (NBC), and internationally renowned pioneer in radio and television. The Sarnoff Collection was originally established by RCA in 1967 as the David Sarnoff Library. Over the decades, the collection grew to include a museum, archives and library. The museum collection, which comprises more than 6,000 artifacts related to the major developments in communication during the 20th century, was donated to The College of New Jersey (TCNJ) in 2010. At the same time, the library and archival holdings, which include Sarnoff's papers and memorabilia; 25,000 photographs; and thousands of notebooks, reports, and publications related to the histories of RCA and the RCA Laboratories, were transferred to the Hagley Museum and Library in Wilmington, Delaware.



David Sarnoff, Albert Einstein, Charles Steinmetz and others at the RCA Wireless Station in New Brunswick, 1921.

The Sarnoff Collection at TCNJ includes artifacts related to David Sarnoff's life; RCA, NBC, Victor Talking Machine Company, and Marconi Wireless Telegraph Company of America. They encompass the history of radio, television, broadcasting, audio and video recording and reproduction, electron microscopy, radar, vacuum tubes, transistors, solid-state physics, semiconductors, lasers, liquid-crystal displays, integrated circuits, microprocessors, computers, communications satellites, and the other

technologies RCA played an important role in inventing and developing. They also reflect some of the many people, beside Sarnoff, who made these technologies work. The collection includes the first color television picture tube, the first commercially available electron microscope, and early examples of magnetic core computer memories, thin film transistors, and liquid crystal displays.

The research, cataloguing, and imaging of the Sarnoff Collection are ongoing projects. The information in the collection database, available through TCNJ's website (see below), is continuously updated as new or expanded information becomes available. Visitors to the website are encouraged to submit comments in the box included with each object record and to share their knowledge about the collection.



David Sarnoff Announcing the Beginning of Television Broadcasting at the 1939 New York World's Fair.

New Exhibit

On October 2, TCNJ opened a major exhibition that explores New Jersey's pioneering contributions to the electronics industry. *Innovations That Changed the World* traces the history of telecommunications from the invention of radio to the dawn of information age using objects drawn from TCNJ's Sarnoff Collection. The exhibit features over eighty artifacts, as well as dozens of vintage photographs, letters, and advertisements. In addition to a biographical display highlighting Sarnoff's remarkable rise from impoverished immigrant to industrial innovator, the exhibition is divided into nine sections, each highlighting a different technology developed by RCA—radio, the phonograph, black-and-white television, color television, electron microscopy, computing, integrated circuits, home video, and flat panel displays. Visitors will not only learn about the scientific principles behind these technologies but also the social and historical contexts into which they were introduced.

Featured in IEEE Spectrum

The October 2013 *IEEE Spectrum* magazine and website featured an 8-page article on TCNJ's Sarnoff Collection and the new exhibition highlighting the rich history of RCA. As the article explains, "The history of the Radio Corporation of