Now in its fourth year, the CE Hall of Fame honors the movers and shakers that have made the consumer electronics industry what it is today. Determination, resolve, creativity and vision are among the attributes that the inductees to the CE Hall of Fame possess. The program serves as a bridge from the past to the present, enabling younger generations to build on the foundation laid by their colleagues before them. The CE Hall of Fame pays tribute to those who individually, and in some cases together, made significant contributions to the development of consumer electronics products.

To recognize the accomplishments of the leaders of the consumer electronics industry, the Consumer Electronics Association (CEA) announced the first 50 inductees into its CE Hall of Fame at the 2000 International CES in Las Vegas, seven more at the 2001 CES and another ten at the 2002 CES. This year, CEA proudly announces an additional nine select leaders will join the existing 67 members.

The 2003 class will stand on the shoulders of such industry giants as Edwin Armstrong, Bill Boss, Paul Galvin, Ray Gates, Dr. Sidney Harman, Henry Kloss and David Sarnoff. The CE Hall of Fame showcases the resolve and progressive thinking of those whose ideas have directly affected consumer electronics technology and are responsible for enhancing consumers’ lifestyles. Future leaders will undoubtedly build on these ideas and produce an even greater proliferation of consumer electronics products.
BUILDING THE INDUSTRY

During the past century, the consumer electronics industry has evolved from isolated hobbyist creations to a wide range of digital technologies that has spurred numerous innovative devices. CEA represents more than 1,000 corporate members involved in the design, development, manufacturing, distribution and integration of audio, video, mobile electronics, wireless and landline communications, information technology, home networking, multimedia and accessory products.

Although the U.S. economy is facing challenges, the consumer technology industry is a bright spot with sales expected to brush $100 billion for 2003 – a 3.5 percent rise over 2002. It is amazing what a profound impact an idea can have once it is unleashed on the world. Just think of the Internet and how our world has forever changed. With this in mind, we can only guess at the extraordinary innovation that will occur as the leaders of the CE Hall of Fame of tomorrow are busy creating technologies and products in labs and companies today.

To choose the 2003 class, CEA asked a panel of 17 media and industry professionals to perform the difficult task of judging the nominations that were submitted by manufacturers, retailers and industry journalists. The judging took place on September 10, 2002 in New York. The judges used the democratic process of the majority votes to determine the nine honorees. For a complete list of the judges, see page xx.

PARTicipate in the Hall of Fame

You can play a role in the Hall of Fame program for 2004 by nominating the individual you believe has contributed most significantly to consumer electronics, as we know it today. Visit www.CE.org for a nomination form or see your July/August issue of Consumer Electronics Vision magazine. Final selections will be tabulated and again judged by a panel made up of CEA members, media and other industry professionals.
CE Hall of Fame
Past Inductees

2000 Inductees

Abrams, Benjamin
Adler, Robert
Armstrong, Edwin
Baird, John Logie
Balderston, William
Bardeen, John
Bell, Alexander Graham
Blay, Andre
Brattain, Walter
Braun, Karl Ferdinand
Bushnell, Nolan
Crosley Jr., Powel
DeForest, Lee
Dolby, Ray
DuMont, Allen
Edison, Thomas
Eilers, Carl
Farnsworth, Philo T.
Fessenden, Reginald Aubrey
Fisher, Avery
Freimann, Frank
Galvin, Paul
Ginsberg, Charles
Goldmark, Peter
Harman, Dr. Sidney
Hertz, Heinrich
Ibuka, Masaru
Johnson, Eldridge
Kilby, Jack
Kloss, Henry
Koss Sr., John
Lachenbruch, David
Lansing, James B.
Marantz, Saul
Marconi, Guglielmo
Matsushita, Konosuke
McDonald Jr., Cmdr. Eugene
Morita, Akio
Noyce, Robert
Poniatoff, Alexander M.
Roberts, Ed
Sarnoff, David
Scott, Hermon Hosmer
Shiraishi, Yuma
Shockley, William
Siragusa Sr., Ross
Takano, Shizuo
Tesla, Nikola
Wayman, Jack
Zworykin, Vladimir
CE HALL OF FAME
PAST INDUCTEES

2001 INDUCTEES
Berliner, Emil
Fleming, Sir John Ambrose
Gernsback, Hugo
Jensen, Peter Laurits
Muntz, Earl
Poulsen, Valdemar
Westinghouse, George

2002 INDUCTEES
Alexanderson, Ernst F.W.
Appel, Bernard
Baker, W.G.B.
Boss, William E.
Ekstract, Richard
Fisher, Walter
Gates, Raymond
Lear, William Powell
Polk, Sol
Sauter, Jack K.
regarded as a founder of the electronics accessory industry, Herbert Borchardt created the systems that enabled dealers to expand their business offerings and profits with accessory products. Some of his first accessory products included 78-rpm phonograph replacement needles, record covers, cleaning materials and other phono accessories. At Recoton, he helped develop new innovative electronic accessories for 45 rpm records, eight track cartridges, audio video devices, telephones, antennas, audio cassettes, CB radios, television, cell phones, DVDs and videogames. He also planned accessories for emerging technologies such as digital HDTV. Borchardt was born in Germany and began his career there, working at Brunswick Records. He later founded Polydor Records in Paris in 1929, and then Bost Records when he arrived in New York in 1941. After this, Borchardt began his involvement with Recoton.
Known as an industry consultant, lecturer and technical writer, Leonard Feldman contributed to the consumer electronics industry in a variety of ways. As the senior editor of Audio magazine, Feldman wrote reviews that made insightful comparisons of competing consumer electronics equipment through Feldman Labs. He also was a columnist for EQ magazine and covered various audio and electronic issues in other industry publications such as Popular Electronic, Popular Science, Consumer Electronics Magazine and TWICE, as well as several newspapers. Feldman authored seven books covering industry topics. Feldman was involved in the Audio Engineering Society (AES) as the vice president of the eastern region.
For more than 25 years, Kees Schouhammer Immink played a central role in research and development of mass data storage products. He was affiliated with Philips Research Labs, Eindhoven, Netherlands from 1967 to 1998. His research resulted in 50 U.S.-issued patents, five of those basic patents have played a key role in the optical recorder industry since 1985 and will continue until at least 2015. Currently, Immink is an adjunct professor at the Institute for Experimental Mathematics in Essen, Germany, and a visiting professor at the University of Singapore. Immink joined the Philips’ research group in 1971 and participated in the world’s first experiments with optical videodisc recording. In 1979, as a technical leader, Immink participated in the negotiations between Sony and Philips for the worldwide-accepted standard for the compact disc (CD). Immink’s coding system, named EFM, now is used in most systems for digital video, audio and data recording. More recently, Immink designed the channel coding techniques for the digital versatile disc (DVD) as well as the videodisc recorder (VDR), which intends to bring an alternative to the camcorder.
Bill Kasuga co-founded Kenwood Electronics Inc. in 1961 as a distribution company for Trio Corp., a Japanese consumer electronics manufacturer, and gradually built Kenwood into a name synonymous with quality stereo systems. The company name was changed to Kenwood U.S.A. Corp. in 1975. In 1993 Kasuga was named chairman of the board for the company, which then had sales of more than $500 million and more than 300 employees. Kasuga stepped down as chairman in 1995, but continued with Kenwood as a member of the executive committee and the 401k Trustees Board. Today he serves as an advisor to Kenwood’s president. Kasuga graduated from the University of San Francisco, served in the U.S. Army for 16 years and worked for A&A Trading Corp., an importing affiliate of RadioShack, before founding Kenwood. He is also a CEA Lifetime Achievement Award winner.
President and founder of the Atwater Kent Radio Co., Atwater Kent manufactured the open set radio, nicknamed a “breadboard,” for which he is known today. Such radios were constructed on attractive wooden planks lacking a case, which allowed them to reveal their superior quality components. At one point, during the 1920s, Kent’s company was considered to be the world’s radio leader. Kent's radio show, The Atwater Kent Hour, was also one of the mediums most popular shows. During the 1930s Kent brought out about 15 new radio models each year, including consoles, compacts and auto radios.

The Depression had a major adverse impact on Kent’s radio business, and after trying cost-cutting measures, Kent closed his Philadelphia plant in 1936, rather than sacrifice quality. Kent also was involved with developing standards for the radio industry as an activist in the engineering department of the Radio Manufacturing Association (RMA), which later became EIA. He also served on the RMA board of directors.
Jules Steinberg was the guiding executive of the North American Retail Dealers Association (NARDA), the industry’s leading retail association, during his tenure as its full-time executive vice president. Involved in this association from the beginning, Steinberg transformed NARDA from a small association into a major marketing force within the consumer electronics industry. He assisted in the success of the first Consumer Electronics Show (CES) by holding NARDA’s annual convention in New York during the 1970s. He is still involved in the consumer electronics industry as a retailing consultant and as a columnist for TWICE magazine.
Kenjiro Takayanagi was the first scientist to successfully transmit and receive an image on a cathode ray tube. He developed the all-electronic television in 1935. A teacher at Hamamatsu Technical High School in Japan, Takayanagi began his experiments during the late Taisho Era and conducted a successful public demonstration using the Braun tube system at a television conference at the Tokyo branch of the Electrical Academy in 1928. Aside from his inventions, Takayanagi contributed to the success of JVC by serving as one of its top electronics advisors. In 1959, he developed the first two-headed VTR and worked on the development of the VHS videocassette system. He received Japan’s national Order of Cultural Merit in 1981 for his achievements in electronics engineering research.
Joseph Tushinsky was an inventor, musician, optics innovator, writer and chairman of the board of Superscope Corp. and the Marantz Co. He played a major role in developing the high-fidelity industry by becoming the American import-distributor of Sony audio tape recorders in the late 1950s. Tushinsky wrote several screenplays that were made into motion pictures in the 1940s and in 1943, went to Hollywood where, with his brother Irving, developed a wide-screen movie projection process known as Superscope, which was introduced in 1953 and helped to usher in the era of wide-screen motion pictures. While marketing the Superscope process in Japan in 1957, Tushinsky met with Sony co-founder Akio Morita and negotiated to obtain exclusive rights to sell Sony’s audio recorders in the U.S. Under a revised agreement, Sony America began marketing audio recorders in 1974. In 1964 Superscope purchased the Marantz Co., and the merged company under the Marantz name became a major marketer of high-fidelity stereo components. A collector of player pianos and their paper music rolls, in the 1970s Tushinsky developed an electronic version that was controlled by instructions recorded on a tape cassette. It was called the Piano Order Reproducing System. He retired as chairman of Marantz in 1987, when he sold the company to Cobra/Dynascan.
Former CEO of Circuit City Stores Inc., Alan Wurtzel led Circuit City to be one of the nation’s largest retailers of brand-name consumer electronics and major appliances, as well as personal computers and music software. His father, Samuel S. Wurtzel, founded the retail company in 1,200 square feet of rented space in a Richmond, Va. tire store in 1949. Samuel called the business, Wards – an acronym for the names of his family members: Wurtzel, Alan, Ruth, David and Sam. Alan joined the company in 1966 as vice president for legal affairs. The company was renamed Circuit City in the late 1970s. He served as CEO from 1972 to 1986 and chairman of the board from 1984 to 1994. From Delaplane, Va., Wurtzel served as vice-chairman of the board from 1994 to 2001. Circuit City was profiled as one of 11 companies in the best selling business book “Good to Great” written by Jim Collins. The book asked the question, “Can a good company become a great company and if so, how?” The book examined “rare and truly great companies with a corporate culture that rigorously found and promoted disciplined people to think and act in a disciplined manner.” He was a member of the Virginia State Board of Education from 1991 to 1995, a trustee of Oberlin College and Virginia Commonwealth University, and president of Operation Independence, a nonprofit organization that supports Israel’s economic independence effort.
2003
CE Hall of Fame Judges

CEA would like to thank the following journalists and industry professionals for volunteering their time to participate in the 2003 CE Hall of Fame program. Their involvement has helped to ensure the success of this program. Their collective industry experience is invaluable in judging the hundreds of nominations that are sent to CEA. Because of their efforts, we honor the 2003 class of leaders who stand head and shoulders above the rest.

Jim Barry
Bob Borchardt
Grant Clauser
Marge Costello
Brian Fenton
Howard Geltzer
Bob Gerson
Peter Ildau
Joe Palenchar
Bill Pritchard
Thomas Rhee
John Shalam
Richard Sherwin
Steve Smith
John Taylor
Jack Wayman
Stewart Wolpin
CEA is a sector of the Electronic Industries Alliance (EIA), the 76-year-old Arlington, Va.-based trade organization representing all facets of electronics manufacturing. CEA represents more than 500 U.S. manufacturers of audio, video, accessories, mobile electronics, communication, information technology and multimedia products that are sold through consumer channels.

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