



In preparation for the big trek west to the **NATIONAL ASSOCIATION OF BROADCASTERS SHOW** in Las Vegas running from April 7 thru 10, there will be NO March meeting. However, stay tuned for a late April meeting. In the mean time there are some miscellaneous items to get caught up on.

As an SBE member there are some discounts at the NAB. Be sure to take your SBE membership card along. Visit SBE.Org and NABshow.Com for details.

March is SBE membership month. If you are not a member or if your dues are not up to date, read the article inside and use the application forms at the end of the newsletter to join.

The February meeting at WBNS TV was a trip down memory lane as Dolby Labs speaker Kenneth Hunold recreated the sound and WBNS's Pat Ingram dusted off the football game HD video. It was the first sports event broadcast in high definition TV and Dolby surround sound. "IT" was the 1998 OSU vs WVU football game. An article with pictures of the meeting are inside along with a note of appreciation to WBNS.

Stay alert for the upcoming 2014 Early Television Convention . The Early Television Convention will be held on Friday, May 16, Saturday, May 17, and Sunday, May 18 at the Early Television Museum and at the Makoy Center in Hilliard, Ohio. This year the convention is again scheduled for the same weekend as the Dayton Hamvention. This allows the attendees to go to the swapmeet at Dayton on Friday and still attend our convention. Presentations are still invited for the convention. Please let the organizers know of your interests. This year the fees for registration will be increased. However, if you are a [Museum Member](#) you will receive a discount that will actually make your cost lower this year. Visit earlytelevision.org for more information.



Clockwise from lower left: Museum founder and benefactor, Steve McVoy demonstrating some of the museum's prized early sets at the Wigwam SBE meeting on 7/2/2003; Early Television Museum in Hilliard; Some Pre 1945 American sets in the museum. **Museum information:** **Location:** 5396 Franklin Street, Hilliard, Ohio (a suburb northwest of Columbus). Here are [maps](#) showing how to get to the museum.. **Hours:** Saturdays from 10 to 6, Sundays from noon to 5, and during the week by appointment. **Admission Charge:** There is no admission charge for individuals and non-profit groups, though we suggest a donation of \$5 for adults and \$2 for children over 6. **Contact Us:** (614) 771-0510. info@earlytelevision.org. Mailing address 5396 Franklin Street, Hilliard, Ohio 43026. **As mentioned on the previous page, the DAYTON HAM VENTION starts on Friday, May 16 and runs through Sunday, May 18, 2014. Visit the HAMVENTION.ORG web site to be overwhelmed by the massive show details. The following vendors are also selling advanced tickets.**

[Debco Electronics & Computers Inc](#), Cincinnati, OH

[Mendelson's Liquidation Outlet](#), Dayton, OH

[Midwest Surplus](#), Fairborn, OH

[R & L Electronics](#), Hamilton, OH

[Universal Radio](#), Columbus, OH

FEBRUARY SBE / SMPTE MEETING RECAP



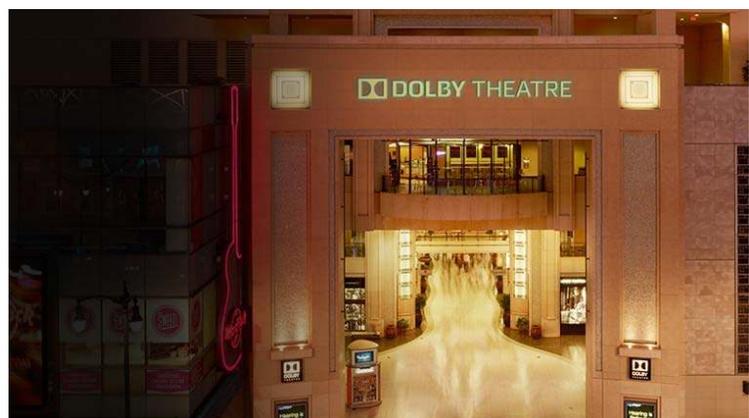
Our meeting was hosted by Pat Ingram at WBNS TV who kindly made numerous arrangements to rebroadcast the Sept. 5, 1998 Ohio State vs WVU football game in HD TV AND DOLBY Surround Sound. The broadcast was a historical event at it was the first broadcast of a sporting event in HD and Dolby Surround Sound. Our tanks to Pat and WBNS for their hospitality and

efforts. The guest speaker was **Mr. Kenneth Hunold**, Broadcast Applications Engineer, **Dolby Laboratories Inc.** He is based in their New York office. Ken works with Broadcast and Cable networks as they transition to high definition television with 5.1-channel audio. Before joining Dolby in 1999 he was with ABC Television in a variety of engineering positions for 25 years, including ABC Sports and ABC's Engineering Laboratory. He has worked on many major television events and received an Emmy for his work on the 1988 Winter Olympic Games in Calgary.

Kenneth is a member of SMPTE, AES and SBE. He was formerly SMPTE Governor for the New York Region, a former Section Chair, and a member of the ATSC Systems Evaluation Working Group. He is also a member of the AES New York Section Committee, and certified by the SBE as a Senior Engineer for both Radio and Television. He is currently a New York SMPTE Section Manager. He and his wife Jan have two adult children. Mathew an electrical engineer and Katherine a writer. Our thanks to Ken for coming so far to talk to us.

His talk included a discussion of: Television audio broadcast history, Dolby FM, the pioneer Dolby Digital 5.1 Surround audio broadcast by WBNS DT-HD of the Sept. 5, 1998 OSU vs WVU football game, Dolby Digital Plus, Dolby Atmos, and future broadcast formats such as Dolby Digital 9.1.

Our program and tribute to the late Ray Dolby was particularly timely for those who watched the Academy Awards as the ceremonies were held in the Dolby Theater.



Photos from our February meeting.



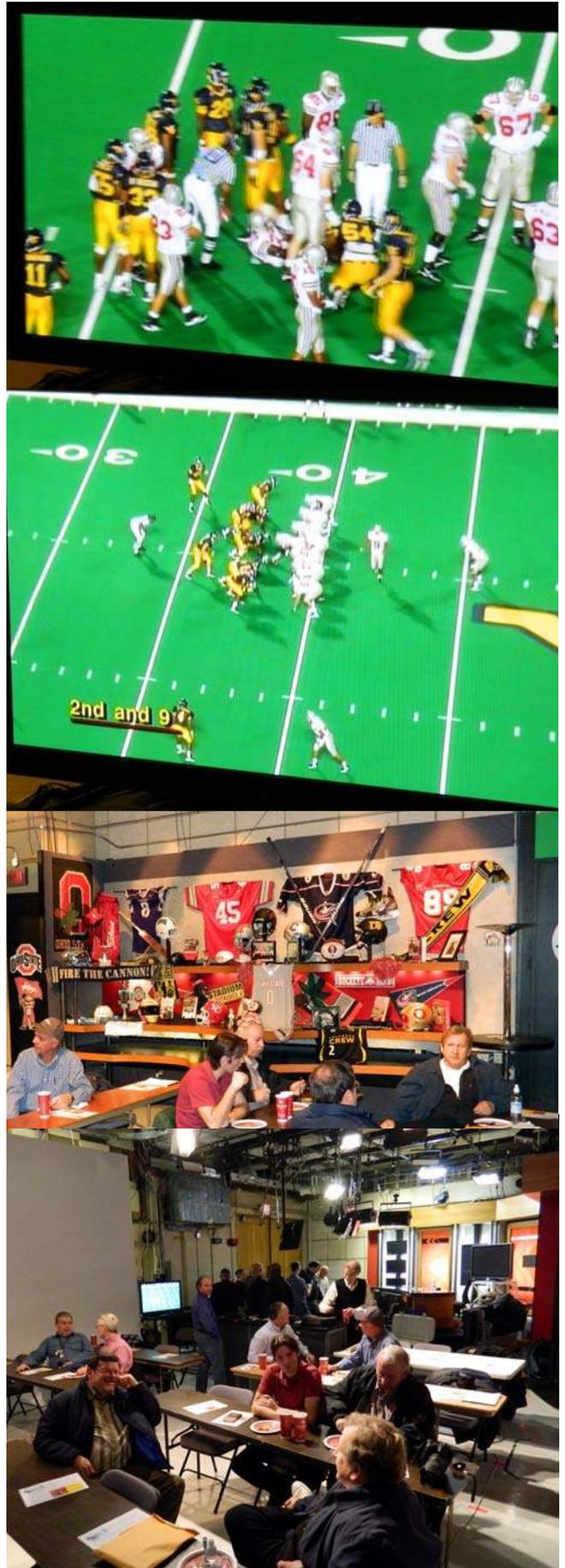
From the May 1999 issue of *Sound and Vision Magazine*

A Digital Drunk

So far, ABC-TV has been the only network to actually deliver 5.1-channel sound-tracks on DTV broadcasts, but an experimental high-def broadcast last fall demonstrated the potential of 5.1-channel audio for other types of DTV programming. WBNS-TV in Columbus, OH, sent a crew to pick up an Ohio State vs. West Virginia football game. Along with six high-def cameras, the crew arrayed 17 microphones around the field and stands.

The game, complete with 5.1-channel Dolby Digital audio, was sent via satellite to a theater where 330 people had gathered to watch the game on a 27-foot screen supported by a 5-kilowatt, 38-speaker sound system. The goal? To create a virtual Stadium, says Marvin Born, WBNS engineering VP. They came closer than they could have imagined. It turns out that one of the microphones in the stands was near a raucous (and very drunk) fan. As the game went on, his language, and his instructions to Ohio's Coach Cooper, got more and more colorful," Born recalls. Back at WBNS's theater, the fan's running "commentary" appeared in the left surround channel. "Every time he said something, everyone would turn around to look. It was absolutely compelling. Even after three or four times, when they realized there was no one back there, they still kept turning around."

— Gordon Brockhouse



Join The SBE

[Already a member? Renew your membership online.](#)

This is SBE membership drive month. There are many membership classifications within the SBE. They are described below. For more information please visit the SBE.Org web site. You may apply for individual SBE membership in one of the following categories. Please see the application at the end of the newsletter. Alternately, download a form from [SBE.Org](#) or fill out a form on line.

MEMBER

You may qualify as a member if **at least ONE** of the following applies to you:

1) You are actively engaged in broadcast engineering or its allied fields. 2) You hold an academic degree in electrical engineering or its equivalent. 3) You have scientific or professional experience in the communications field, including the design or marketing of broadcast related products; have at least four years of active participation in broadcast engineering or its allied fields and have demonstrated acceptable technical proficiency.

[Apply Online Now](#) or download a [PDF Application](#)

MEMBERSHIP REINSTATEMENT: IF YOUR MEMBERSHIP EXPIRED IN 2013, YOU CAN REINSTATE IT USING THE [ONLINE REINSTATEMENT FORM](#). IF YOUR MEMBERSHIP EXPIRED PRIOR TO 2013, YOU CAN REINSTATE IT BY FILLING OUT A NEW MEMBERSHIP APPLICATION.

SENIOR MEMBER

The Senior Member level is available to those Members with at least five consecutive years of membership in the society. They also must have at least 15 years of active participation in broadcast engineering or its allied fields and have demonstrated professional responsibility in the area of supervision, equipment design, physical plant design, marketing and/or equipment systems integration. There is no cost to upgrade membership to Senior status but there is a simple [application](#) to complete.

ASSOCIATE MEMBER

You may qualify as an associate member if you do not meet the above qualifications of a Member but are actively engaged in the objectives of the society.

[Apply Online Now](#) or download a [PDF Application](#)

STUDENT MEMBER

You may qualify as a student member if you are actively engaged in the study of broadcast engineering or related fields at a post-secondary institution.

[Apply Online Now](#) or download a [PDF Application](#)

YOUTH MEMBER

You may qualify as a youth member if you are a high school student who is active in the technical operation of a broadcast station; who is involved in a school club or community organization, such as an amateur radio club, with the purpose of learning about the field of broadcast engineering or who has a general interest in broadcast engineering.

[Learn more about Youth Membership](#)

[Youth Member PDF Application](#)

If you have questions and need a quick response, [email Scott Jones](#).

LIFE MEMBER

Life Membership is granted to members who have reached full retirement from broadcast engineering, are at least 65 years of age, and have maintained membership in good standing for fifteen or more consecutive years at the time of applying for Life member status. Requirements for life membership, according to the SBE by-laws section 1(g): “Any Member or Fellow in good standing who has retired from broadcast engineering, is at least 65 years of age, and who has been a member in good standing for **FIFTEEN (15)** or more consecutive years immediately preceding application, may, at his request, be placed on the Life Membership list.” There is a one-time application fee of \$75, which must be included with the application.

[Life Membership PDF Application](#)

SBE FELLOW MEMBER

The SBE Fellow is the highest grade of membership. Elected by the board of directors, Fellow members are recognized for having rendered conspicuous service or having made valuable contributions to the advancement of broadcast engineering or its allied professions. The board considers nominations for Fellow each spring, at their meeting held during the NAB Show. [Click here for details on how to nominate candidates for SBE Fellow.](#)

SUSTAINING MEMBER

This corporate level of membership is intended for individuals and organizations actively engaged in broadcast engineering, its allied fields and/or the objectives of the society. The benefits of sustaining membership differ from those of individual memberships. [Learn More.](#)

[Sustaining Member PDF Application](#)

HONORARY MEMBER

A person of outstanding repute and eminence in the Art and Science of Broadcast engineering or any of its allied professions may be elected to Honorary Membership by the board of directors.

Candidates for election to Honorary Membership shall be proposed in writing by a voting member. Such proposal shall include a biography of the candidate and the endorsement of 15 voting members and shall be submitted to the board of directors for consideration. If elected, the candidate shall be notified by the secretary. The board of directors shall confer the Honorary Membership in such a manner as they deem appropriate.

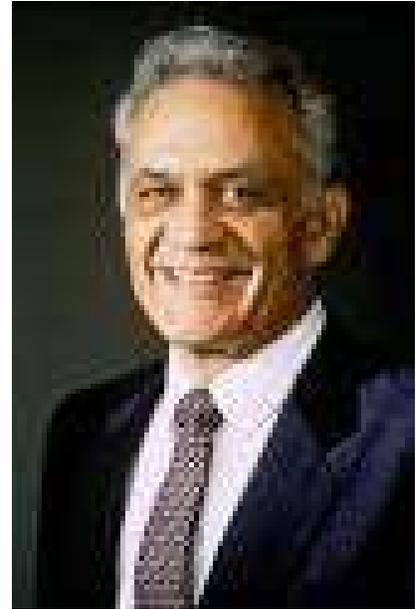
ALREADY A MEMBER?

Support the SBE and [receive a discount on next year's membership renewal by recruiting a new member.](#)

REMEMBERING AMER GOPAL BOSE

Tribute was paid to Ray Dolby in the January newsletter and was followed by the February program at WBNS-TV presented by Mr. Kenneth Hunold of the New York City office of Dolby Laboratories. Dr. Dolby died in September of 2013.

This month we pay homage to another giant in the audio field who died in 2013. Dr. Amar Gopal Bose the American engineer and founding chairman of [Bose Corporation](#). (born November 2, 1929 – died July 12, 2013) was a [Bengali American academic](#) and [entrepreneur](#). An [electrical engineer](#) and [sound engineer](#), he was a [professor](#) at the [Massachusetts Institute of Technology \(MIT\)](#) for over 45 years. He was also the founder and chairman of [Bose Corporation](#). In 2011, he donated a majority of the company to MIT in the form of non-voting shares to sustain and advance MIT's education and research mission. In 2007 he was listed in [Forbes 400](#) as the 271st richest man in the world, with a net worth of \$1.8 billion. In 2009, he was no longer on the billionaire list, and returned to the list in 2011, with a net worth of \$1.0 billion.



Early life and education Bose was born in a [Bengali Hindu](#) family and raised in [Philadelphia, Pennsylvania](#), to an [Bengali](#) father, Noni Gopal Bose and an [American](#) mother, Charlotte. His father was an [Indian](#) freedom revolutionary who, having been imprisoned for his political activities, fled [Calcutta](#) now ([Kolkata](#)) in the 1920s in order to avoid further persecution by the [British](#) colonial police. His mother, Charlotte, is described as an American schoolteacher of French and German ancestry, but Bose described her as "more Indian than me. She was a vegetarian and deeply interested in Vedanta and Hindu philosophy."

Bose first displayed his entrepreneurial skills and his interest in electronics at age thirteen when, during the World War II years, he enlisted school friends as co-workers in a small home business repairing model trains and home radios, to supplement his family's income.

After graduating from [Abington Senior High School](#) in Abington, Pennsylvania, Bose enrolled at the [Massachusetts Institute of Technology](#), graduating with a BS (Bachelor of Science) in Electrical Engineering in the early 1950s. Bose spent a year in [Eindhoven, Netherlands](#), in the research labs at [NV Philips Electronics](#); and a year as a Fulbright research student in New Delhi, India, where he met his future first wife (he later divorced). He completed his PhD in Electrical Engineering from MIT, writing a thesis on non-linear systems under the supervision of [Norbert Wiener](#) and [Yuk-Wing Lee](#).

Career Following graduation, Bose became an [Assistant Professor](#) at the Massachusetts Institute of Technology. During his early years as a professor, Bose bought a [high-end](#) stereo speaker system in 1956 and he was disappointed to find that speakers with impressive technical specifications failed to reproduce the realism of a live performance. This would eventually motivate his extensive [speaker technology](#) research, concentrating on key weaknesses in the high-end speaker systems available at the time. His research on [acoustics](#) led him to [invent](#) a stereo loudspeaker that would reproduce, in a domestic setting, the dominantly reflected sound field that characterizes the listening space of the audience in a concert hall. His focus on [psychoacoustics](#) later became a hallmark of his company's audio products.

For initial capital to fund his company in 1964, Bose turned to [angel investors](#), including his MIT thesis advisor and professor, Dr. Y. W. Lee. Bose was awarded significant [patents](#) in two fields that continue to be important to the Bose Corporation. These patents were in the area of loudspeaker design and non-linear, two-state modulated, [Class-D](#), power processing. The company Bose founded now employs more than 9,000 people worldwide and produces products for home, car, and professional audio, as well as conducting basic research in acoustics and other fields. Bose never made his company public, and since the company was privately held Bose was able to pursue risky long-term research. In a 2004 interview in *Popular Science* magazine, he said: "I would have been fired a hundred times at a company run by MBAs. But I never went into business to make money. I went into business so that I could do interesting things that hadn't been done before."

In addition to running his company, Bose remained a professor at MIT until 2001. In 2011, Bose donated a majority of the company's non-voting shares to MIT on the condition that the shares never be sold.^[1]

Bose said that his best ideas usually came to him in a flash. "These innovations are not the result of rational thought; it's an intuitive idea." His son, [Vanu Bose](#), is the founder and CEO of Vanu, Inc., a firm whose software-based radio technology provides a wireless infrastructure that enables individual base stations to simultaneously operate [GSM](#), [CDMA](#), and [iDEN](#) protocols for cell phone voice and data transmission.^[42]

Death Bose died on July 12, 2013 at the age of 83 in Wayland, Massachusetts.

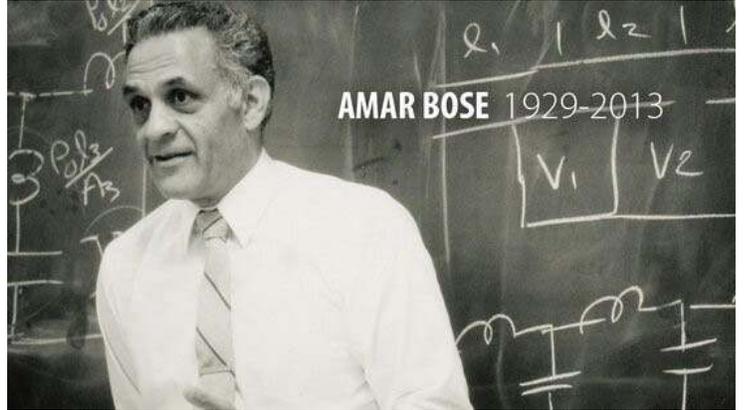
Honors and Awards

- Fellow, [IEEE](#), 1972 - for contributions to loudspeaker design, two-state amplifier-modulators, and nonlinear systems.
 - Honorary member, [Audio Engineering Society](#), 1985.
 - The 2010 [IEEE/RSE Wolfson James Clerk Maxwell Award](#), for "outstanding contributions to consumer electronics in sound reproduction, industrial leadership, and engineering education".
 - In 2011, he was listed at #9 on the [MIT150](#) list of the top 150 innovators and ideas from [MIT](#).
- Beryllium Lifetime Achievement Award, [Association of Loudspeaker Manufacturing & Acoustics International](#), 2014.

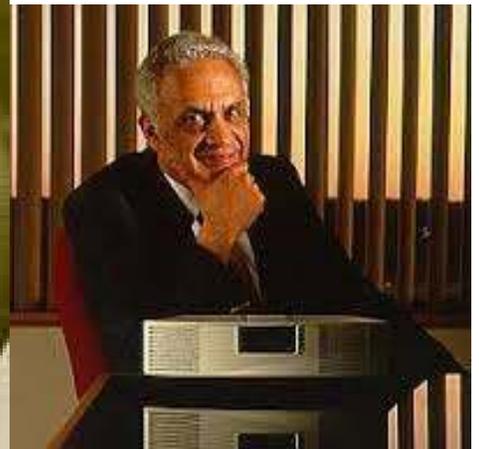
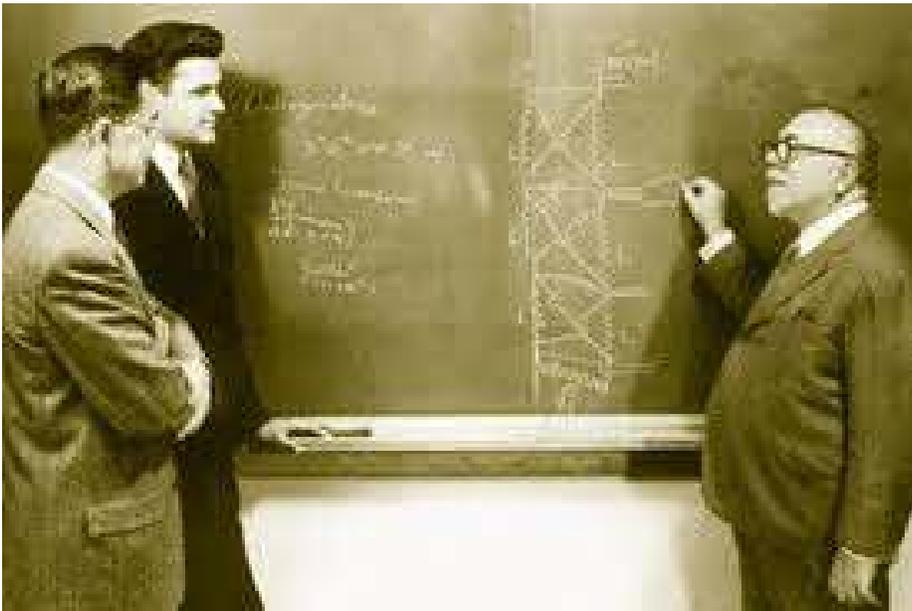
MIT Tribute "Amar Bose was an exceptional human being," said MIT President L. Rafael Reif. "I learned from him, and was inspired by him, every single time I met with him. I have never known anyone like him. I will miss him. MIT will miss him. The world will miss him."

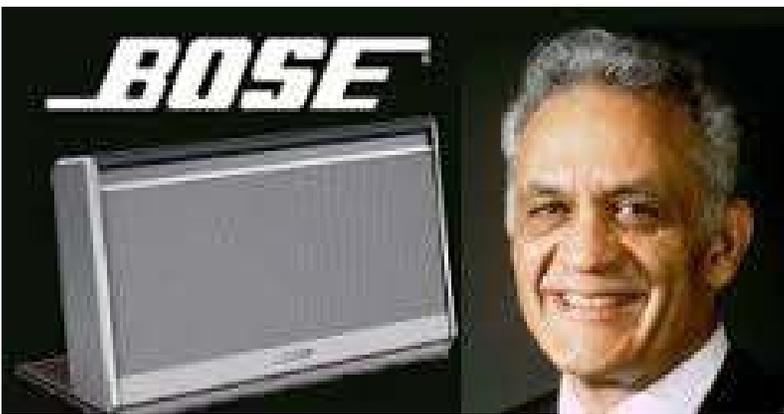
Surviving Family Bose leaves behind a wife, daughter, and son, Vanu Bose, who is the founder and CEO of a radio technology firm in Cambridge, Mass. He told *MIT News*, "My single greatest education experience at MIT was being a teaching assistant for my father. While my father is well known for his success as an inventor and businessman, he was first and foremost a teacher."

Professor Bose over the years

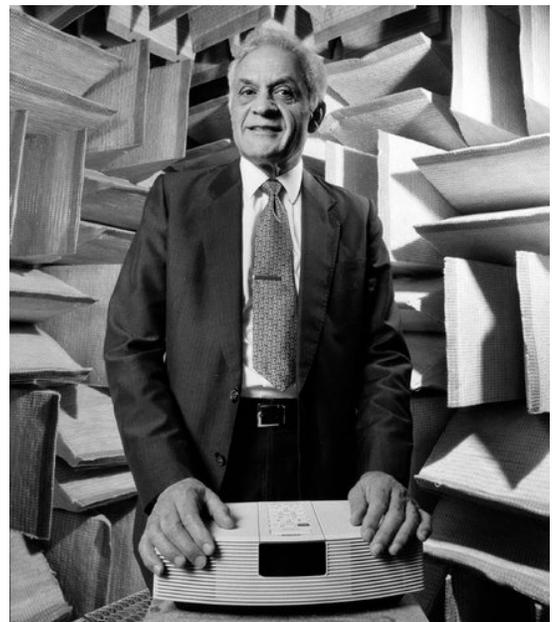


The picture on the left shows Dr. Bose outside Bose Corporation headquarters. At the lower left Dr. Bose is shown with two of his mentors. Shown on the right in the picture is Professor Norbert Wiener the founder of the field of Cybernetics. Next to the then graduate student Amer Bose is Professor Y. W. Lee a leader in the field of Statistical Theory of Communications.





Dr. Bose is shown on the left outside of the Bose Corporation which he founded in 1964. For a poignant memory, Google: [Dr. Amar G. Bose - Last lecture of Fall '96 Acoustics](#)



APRIL, 2007 CHAPTER OFFICERS		Area Frequency	National SBE Numbers
Chairman John Owen # 3620 1393 Dutch Thomas Road Peebles, OH 45660 (937) 930-3763 johno@qcom1.com	Webmaster Robert Holden 5161 Goose Lane Road Alexandria, OH 43001 (614) 562-8441 rjholden1971@gmail.com	Coordinators Columbus and Central Ohio Greg Savoldi WTVN, (614) 487-2485	Office: (317) 846-9000 Job Line: (317) 846-9000 Fax: (317) 846-9120 BBS: (317) 253-7555 (N,8,1)
Vice Chairman John McKinley # 13113 510 Whitley Drive Gahanna, OH 43230 (614) 475-1747 Extremity@aol.com	Newsletter Editor Emeritus Dave White #4363 288 Larrimer Avenue Worthington, OH 43085 (614) 888-2069 DAWHI1@Columbus.rr.com	Southeastern Ohio: Southwestern Ohio: Tom Nornhold (937) 293-0107	World Wide Web http://www.sbe.org Society of Broadcast Engineers 9102 North Meridian Street, Suite 150 Indianapolis, IN 46260
Secretary/Treasurer/ Newsletter Editor Ralph Hoffman # 19978 5665 Vanatta Road Centerburg, OH 43011 (740) 625-6575 R.Hoffman@IEEE.org	Certification Chairman Roland Elikofer# 8999 3200 Strathburn Court Dublin, OH 43017 (614) 264-6979		

Now on Facebook & Twitter! Check them out!

Robert Holden, SBE Chapter 52 Webmaster, has opened a Facebook and a Twitter Account for Chapter 52 to help to communicate better with Chapter 52 Members.

Jobs Online

Check out the latest broadcast industry job openings across the nation. For information on submitting or accessing positions, contact Scott Jones at kjones@sbe.org or visit: www.sbe.org, click on Jobs then SBE JobsOnLine.

Resume Bank

Deposit your resume where prospective employers can view your profile and make a withdrawal from SBE. For information on submitting or accessing resumes, contact Scott Jones at kjones@sbe.org or visit: www.sbe.org, click on Jobs then SBE Resume Service.



NAB is coming! It is time to plan ahead and get those airline tickets.

Visit: NABSHOW.COM for all the details.

NAB Show® is the world's largest electronic media show covering filmed entertainment and the development, management and delivery of content across all mediums. With more than 93,000 Attendees from 156 countries and 1,550+ Exhibitors, NAB Show is the ultimate marketplace for digital media and entertainment. From creation to consumption, across multiple platforms and countless nationalities, NAB Show is home to the solutions that transcend traditional broadcasting and embrace content delivery to new devices in new ways.

HARRIS CORPORATION
Broadcast Communications Division
 107 Gilbert Road
 Saratoga Springs, NY USA 12866

HARRIS

phone 1-416-443-3040
 main 1-518-226-0918
 toll free 1-800-883-2414
 cell phone 1-518-461-9858
 fax 1-518-226-0714
 brian.szewczyk@harris.com

BRIAN J. SZEWCZYK
 District Sales Manager--Radio
 NJ1F

assuredcommunications
 www.harris.com

Continental Electronics Corporation

DAVE HULTSMAN
 REGIONAL SALES MANAGER

PHONE: 205.822.1078
 TOLL FREE: 888.822.1078
 FAX: 205.449.0061
 dhultsman@contelec.com

2280 ROCKCREEK TRAIL
 BIRMINGHAM, AL 35226-1465
 www.contelec.com

CLARK WIRE & CABLE

408 WASHINGTON BLVD
 MUNDELEIN, IL 60060-3102

HQ (800) CABLE-IT (222-5348)
 Local: (847) 949-9944
 FAX: (847) 949-9595
 E-MAIL: SALES@CLARKWIRE.COM
 WWW.CLARKWIRE.COM

Gary Liebisch
 Regional Sales Manager, Eastern US

Tel: 1 740 513 2087
Mobile: 1 513 289 6322
Fax: 1 513 672 0600
 gary.liebisch@nautel.com

nautel

Making Digital Radio Work.

Main | 801 575-8801
 Mobile | 317 691-0374
 Fax | 801 537-3099
 Web | utahscientific.com

Rob Shevlot *Regional Sales Manager*
 E-mail | rshevlot@utsci.com

Utah Scientific

4750 WILEY POST WAY, SUITE 150 SALT LAKE CITY, UTAH 84116 USA

ProVideo
 Consulting • Design • Sales • Integration

Support for Today
 Solutions for Tomorrow

Mike Siddall, CTS
 Sales Engineer

614-261-1272
 967 Burrell Ave. (cell) 614-314-9238
 Grandview Heights, OH 43212 800-832-2367
 mike@provideosystems.com www.provideosystems.com

What's On Your Mind?

SBE Roundtable - SBE's member e-mail discussion group created to facilitate discussions about the Society.

EAS Exchange - An SBE-sponsored e-mail discussion group about the Emergency Alert System.

Subscribe on the SBE website at:
 www.sbe.org

INDUSTRIAL POWER SYSTEMS • LIGHT COMMERCIAL • RESIDENTIAL STANDBY
 MARINE GENERATORS • MOBILE GENERATORS • TOWABLE GENERATORS

**RELIABLE POWER.
 FIVE-STAR SERVICE.
 PREMIUM PRODUCTS**

KOHLER Generators

BPS 6850 Commerce Court Drive Blacklick OH 43004
 Buckeye Power Sales 614-861-6000 / 800-523-3587
 Reliable Power Professionals Since 1982 www.buckeyepowersales.com

Please Support Our Newsletter Advertisers!



CABINETWORKS UNLIMITED

FINE CUSTOM AUDIO AND VIDEO CABINETRY

PHONE: 330/533-2861
 FAX: 330/533-0306
 E-MAIL: ken@cabinetworks.com
www.cabinetworks.com

KENNETH BAGWELL
 7290 COOL ROAD
 CANFIELD, OHIO 44406



grass valley

Wayne A. Schrand
 Senior Account Manager

Grass Valley
 46A Technology Parkway South
 Norcross, GA 30092 USA
 Direct: (404) 929-5000
 Mobile: (513) 702-9479
 Fax: (404) 329-0445
wayne.schrand@grassvalley.com

www.grassvalley.com



Bill Sabo
 Account Manager

659C Lakeview Plaza
 Worthington, OH 43085
 (p) 614-509-2363
 (f) 614-825-1003
 (c) 614-746-6137
 (e) wsabo@ivideo.com
www.ivideo.com

SBE University
Online, on-demand courses. Visit SBE.Org to view a pdf file that provides a high-level overview of all the courses on SBE University.

- [8-VSB](#)
- [Adaptive Media Systems Engineering](#)
- [AM Antenna Systems](#)
- [Broadcast Audio Processing](#)
- [Computer Networking for Broadcast Engineers](#)
- [ENG Truck Operations](#)
- [FM Transmission Systems](#)
- [Matching Networks and Phasing](#)
- [Television Video and Audio - a Ready Reference for Engineers](#)
- [The New Lifecycle of Media - IP and File Based Architecture and Workflows](#)
- [Use of the Simple Network Management Protocol in Broadcast Monitoring and Control Systems](#)



Your AD here could draw quite a crowd like SBE members to an Outback Steak Dinner.

CHAPTER 52
 MEETING JUNE 1,
 2006 AT THE OSU
 AIRPORT



Rick Thompson
 Central Regional Manager

1770 Birchwood Avenue
 Des Plaines, IL 60018-3006
 Office: 847-795-9555 ext.21
 Mobile: 847-942-7990
 Fax: 847-795-8770
 E-mail: rick_thompson@gepco.com
www.gepco.com



Marty Morgan
 Direct: 740 504 7033
 email: martymorgan@embarqmail.com

Serving AV, Video, Commercial Sound Contractors, System-Integrators, Data & H.T. resellers in 15 states from sales offices in Columbus, OH, Pickerington OH, Chicago IL & St Louis MO.

Corporate offices 4449 Easton Way-2nd Floor, Columbus, OH 43219

Please Support Our Newsletter Advertisers!

Chapter 52 welcomes **Buckeye Power Sales** and **Kohler Generators** as advertisers in the newsletter. Your support of our advertisers is always appreciated. Generators also have the virtue of keeping monitors from going black, and radios from falling silent. Additional uses is keeping us from freezing to death in the dark. Here are some pictures of BPS and Kohler generator projects with which your editor is familiar.



Buckeye Power and Kohler help power Covington, Kentucky's beautiful Rivercenter Complex at the foot of the historic Roebling Suspension Bridge





SBE MEMBERSHIP APPLICATION

SOCIETY OF BROADCAST ENGINEERS

9102 North Meridian Street, Suite 150
 Indianapolis, IN 46260
 Phone: (317) 846-9000 Fax: (317) 846-9120



Application for:

- Regular Member \$75.00
- Associate Member \$75.00
- Student Member * \$25.00
- Reinstatement \$75.00
(former Member # _____)
- Change in grade to Member \$75.00
(for student/youth members only)

(Please type or print)

Payment Method: Check Money Order (payable to SBE) American Express MasterCard Visa Total: \$ _____

Credit Card # _____ Exp. Date _____ Security Code^ _____

Name on Card (if different) _____ Billing Address (if different) _____

^ 3 digits in signature strip on back of card to the **right** of the (partial) card number (for Amex, it is 4 non-raised digits on the front).

Information provided in this application will be used to determine membership eligibility.

_____ (_____) _____
 Last Name First MI Home Phone

_____ (_____) _____
 Mailing Address Business Phone

_____ (_____) _____
 City State Zip Code Fax Number

The above mailing address is: Home Business

_____ _____ _____
 Place of Employment Date Employed Date of Birth (MM/DD/YY) *optional*

_____ _____ _____
 Current Job Title Type of Facility E-mail Address

Description of Duties

Total years of responsible Engineering experience: _____ Radio TV Other (*check all that apply*)

If accepted, please enroll me in Local Chapter # _____ Location: _____

SBE Certification # _____ (if applicable)

Sponsor's Name/Who introduced you to SBE? (optional): _____

EXPERIENCE RECORD

List in chronological order, beginning with the most recent, all formal experience in Broadcast Engineering or related employment. Indicate field(s) of specialization under "Position." Please do not limit yourself to the spaces below.

From Mo Yr	To Mo Yr	Company Name and Location	Position or Title	Type of Facility

ADDITIONAL INFORMATION REQUESTED ON REVERSE SIDE

MEMBERSHIP COMMITTEE ACTION

Approve Disapprove

Comment: _____

Signature: _____

Grade: _____

Records: _____

Appl Notified: _____

EDUCATION

From Mo Yr	To Mo Yr	College, University or Technical Institute	Credits or Yrs Compl	Course or Major	Degree

*** If applying for student member status (post-secondary school), you must complete the following:**

Program/major currently enrolled in: _____

You are a (check one): Full-time Student Part-time Student

Faculty advisor, dean, department chair, registrar, etc., SBE may contact to verify your student status:

Name

Title

E-mail

(_____) _____
Phone

REFERENCES

List two references who are familiar with your work.

Name	Company Name and Location	Position or Title	Phone

OTHER PROFESSIONAL LICENSES OR CERTIFICATES

SPECIAL ACHIEVEMENTS

List awards, patents, books, articles, short courses, seminars related to broadcast-communications technology, etc.

Have you ever been convicted of a felony? Yes No If yes, describe in full. *(Use additional paper if necessary.)*

If approved, I agree to abide by the Society of Broadcast Engineers By-Laws and Canons of Ethics (available at www.sbe.org).

Date

Signature

SBE dues are not deductible as a charitable contribution for federal income tax purposes, but may be deductible as a business expense. SBE estimates that 1% of your dues are not deductible because of SBE's lobbying activities on behalf of its members.