



Connections—The Newsletter of Chapter 52, Columbus and Central Ohio, Society of Broadcast Engineers



There will be a joint meeting of the Ohio Section SMPTE and SBE Chapter 52 on Thursday, June 18, 2015 at the **WBNS Studios, 770 Twin Rivers Drive, Col. OH 43215**
Refreshment at 7:00 PM,
Program at 7:30 PM



Our guest presenter for the evening will be **Kenneth Hunold**, Staff Engineer, Audio Production, from the **Dolby Laboratories Inc.** East Coast offices in New York City.

His presentation topics will include: The rich history of achievements of the founder Ray Dolby and Dolby Labs over the past 50 years, leading to a multitude of innovations in the fields of both consumer and broadcast audio, video, and the commercial motion picture studio and cinema industries! Ken will also be going over some of the broadcast standards committee work Dolby has contributed to recently, which could lead eventually to a new ATSC 3.0 standard for both video, audio, and terrestrial RF broadcasts, by the year 2017! His topics will also

include the new multi-channel surround audio process called Dolby Atmos, which delivers a greater "immersive audio experience" to audiences, and the firm's new video format called Dolby Vision, which provides a much wider broadcast video "pipeline" system needed to adequately display pictures on the Quantum Dot 4K TV display panels of the future! Their format promises to deliver much wider luminous and color gamut video signals, resulting in richer looking color fidelity and brightness. This is a meeting not to miss! Hope to see you all there, and please bring a guest!

Kenneth Hunold, this month's speaker, is a Technical Marketing Manager for **Dolby Laboratories, Inc.**, based in their New York office. He works with mix engineers, researchers, and manufacturers to develop and evolve broadcast techniques for "next generation" audio experiences. He works with broadcast and cable/satellite network engineers and production personnel as they transition to ultra-high definition television (UHD-TV) with immersive and personalized audio. He also works with a variety of clients in live-to-cinema transmissions, including the Metropolitan Opera's *Live in HD* series.



He has been a member of ATSC Study and Working Groups, including ATSC S6-3, which drafted the Recommended Practice on loudness, part of the U.S. "CALM Act".

Before joining Dolby in 1999, he was with the ABC Television Network in a variety of engineering positions for 25 years. Most of that time was spent "on the road" for ABC Sports, and in ABC's Engineering Laboratory. He has worked on many major television events and received an Emmy Award as a video engineer for his work on the 1988 Winter Olympic Games in Calgary.

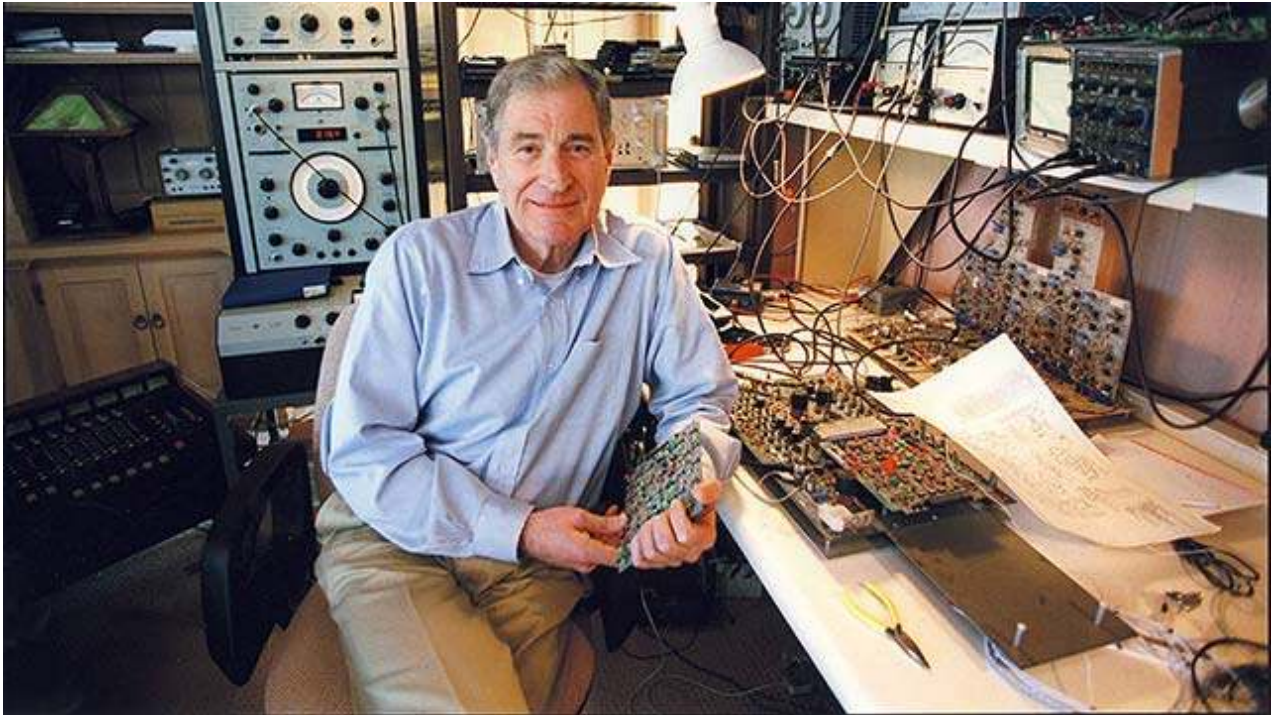
He is a member of SMPTE, AES, and SBE. He is a former SMPTE Governor for the New York Region and a former New York Section Chair for both the AES and SMPTE sections. He is certified by the SBE as a Senior Engineer for both Radio and Television.

Ken is a graduate of Brooklyn Technical High School and Bradley University in Peoria, Illinois with a Bachelor of Science Degree in Engineering.



May Meeting Recap: We thank **WBNS-10-TV** and Director of Engineering **Pat Ingram** for hosting our meeting and providing the treats. We also thank **Tim Anderson** of **Gates-air** for his excellent presentation on the history of early high fidelity broadcasting.

Ray Dolby was remembered in our February 2014 Newsletter upon his then recent death. Because of our June speaker's affiliation with Dolby Labs, we repeat the biographical note here. Ray was born January 18, 1933 in Portland, Oregon and died September 12, 2013 (aged 80), in San Francisco, California.



Ray Milton Dolby, was an American engineer and inventor of the noise reduction system known as Dolby NR. He helped develop the video tape recorder while at Ampex. He was the founder of Dolby Laboratories. He was also a billionaire and a member of the Forbes 400 with an estimated net worth of US\$2.9 billion in 2008 although as of September 2012 it was estimated to have declined to \$2.4 billion.

Dolby was born in Portland, Oregon, the son of Esther Eufemia (née Strand) and Earl Milton Dolby, an inventor. He was raised in San Francisco and attended Sequoia High School (class of 1951) in Redwood City, California. As a teenager in the decade following World War II, he held part-time and summer jobs at Ampex in Redwood City, working with their first audio tape recorder in 1949. While at San Jose State College and later at Stanford University (interrupted by two years of Army service), he worked on early prototypes of video tape recorder technologies for Alexander M. Poniatoff and Charlie Ginsburg. As a non degree-holding "consultant", Dolby played a key role in the effort that led Ampex to unveil their prototype Quadruplex videotape recorder in April 1956 which soon entered production.

In 1957, Dolby received his B.S. in electrical engineering from Stanford. He subsequently won a Marshall Scholarship for a Ph.D. (1961) in physics from the University of Cambridge, where he was a Research Fellow at Penbroke College.

After Cambridge, Dolby acted as a technical advisor to the United Nations in India, until 1965, when he returned to England, where he founded Dolby Laboratories in London with a staff of four. In that same year, 1965, he officially invented the Dolby Sound System, a form of electronic filter, although his first U.S. patent was not filed until 1969, four years later. The filter was first used by Decca Records in the UK.

Dolby was a [Fellow](#) and past president of the [Audio Engineering Society](#).

Dolby died of leukemia on September 12, 2013, at his home in San Francisco at the age of 80. Dolby was survived by his wife Dagmar, two sons, Tom and David, and four grandchildren. Kevin Yeaman, president and chief executive of Dolby Laboratories, said "Today we lost a friend, mentor and true visionary". Neil Portnow, president of the National Academy of Recording Arts and Sciences, said Dolby had "changed the way we listen to music and movies for nearly 50 years" and that Dolby's "technologies have become an essential part of the creative process for recording artists and filmmakers, ensuring his remarkable legacy for generations to come."

Dolby noise reduction principle

The analog Dolby noise-reduction system works by increasing the volume of low-level high-frequency sounds during recording and correspondingly reducing them during playback. This reduction in high-frequency volume reduces the audible level of tape hiss.

Awards and honors

- 1971 – [AES](#) Silver Medal
- 1979 – [51st Academy Awards](#) – [Academy Award, Scientific or Technical](#) (Scientific and Engineering Award) [plaque]
- 1983 – [SMPTE](#) Progress Medal *For his contributions to theater sound and his continuing work in noise reduction and quality improvements in audio and video systems and as a prime inventor of the videotape recorder*
- 1985 – [SMPTE Alexander M. Poniatoff](#) Gold Medal
- 1986 – honorary Officer of the [Most Excellent Order of the British Empire](#) (OBE)
- 1988 – [Eduard Rhein Ring of Honor](#) from the German [Eduard Rhein Foundation](#)
- 1989 – [61st Academy Awards](#) – [Academy Award, Scientific or Technical](#) (Academy Award of Merit) [statuette]
- 1989 – [Emmy Award](#) by the [National Academy of Television Arts and Sciences](#) (NATAS)
- 1992 – [AES](#) Gold Medal
- 1995 – Special Merit/[Technical Grammy Award](#)
- 1997 – U.S. [National Medal of Technology](#)
- 1997 – [IEEE Masaru Ibuka Consumer Electronics Award](#)
- 1999 – honorary Doctor degree by the [University of York](#)
- 2000 – honorary Doctor of Science degree from [Cambridge University](#)
- 2003 – [Charles F. Jenkins](#) Lifetime Achievement Award by the [Academy of Television Arts & Sciences](#)
- 2004 – inducted into the [National Inventors Hall of Fame](#) and the [Consumer Electronics Hall of Fame](#)
- 2010 – [IEEE Edison Medal](#)
- 2014 – Star on the [Hollywood Walk of Fame](#)

Chapter 52 Officers

Chairman:

John Owen, #3620
1393 Dutch Thomas Road
Peebles, Oh 45660
johno@qcom1.com
703.930.3763

Vice Chairman:

John McKinley, #134113
510 Whitley Drive
Gahanna, Oh 43230
OhioRFman@gmail.com
614.475.1747

**Secretary, Treasurer and
Newsletter Editor**

Ralph B. Hoffman #19978
5665 Vanatta Rd,
Centerburg, Oh 43011
R.Hoffman@IEEE.Org
740.625.6575

Webmaster:

Robert Holden
5161 Goose Lane Road
Alexandria, Oh 43001
KD8TIZ@arrl.net
614.562.8441

Newsletter Editor Emeritus

Dave White #4363
288 Larrimer Avenue
Worthington, Oh 43085
DAWHI1@Columbus.rr.com
614.888.2069

Certification Chairman:

Position Presently Vacant

Area Frequency Coordinators

OH - Cleveland (1Ghz Dn) Ed Miller edward.miller5@cox.net

OH - Cleveland (1Ghz Up) Jim Baird ajrb53@ameritech.net

OH - Eastern Tom Hamilton tom@security-electronics.com

OH - Columbus Greg Savoldi gregsavoldi@clearchannel.com

OH - Mansfield Area Wayne Fick waynef@wmfd.com

OH - Southwest Tom Nornhold tn-comm@fuse.net

OH - Northwest Bill Rossini nwofreqs@gmail.com

OH - Youngstown (1Ghz Dn) Wes Boyd wes.boyd@cumulus.com

OH - Youngstown (1Ghz Up) Bob Flis bflis@wfmj.com



OHIO BROADCAST ENGINEERING CONFERENCE

Presented by:

The Ohio Association of Broadcasters

The Ohio chapters of the Society of Broadcast Engineers

The Ohio chapter of the Society of Motion Picture and Television Engineers

The 2015 Ohio Broadcast Engineering Conference will be held **Wednesday, Sept. 23**, at the Greater Columbus Convention Center and will feature a full day of educational sessions for radio and television engineers, along with a dedicated exhibitors' showcase.

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

Brian Szewczyk
Regional Sales Manager

107 Gilbert Rd
Saratoga Springs, NY 12866

Brian.Szewczyk@gatesair.com
office 518-226-0918
mobile 518-461-9858




Continentals Electronics Corporation

DAVE HULTSMAN
REGIONAL SALES MANAGER

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

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



Imagine
COMMUNICATIONS

Chip Schneider
Regional Sales Manager
East-Central US
859-445-6944 mobile

4381 Raeann Dr.
Cincinnati, OH 45252

chip.schneider@imaginecommunications.com

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



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



ProVideo
Consulting • Design • Sales • Integration



Support for Today
Solutions for Tomorrow

Mike Siddall, CTS
Sales Engineer

967 Burrell Ave.
Grandview Heights, OH 43212
mike@provideosystems.com

614-261-1272
(cell) 614-314-9238
800-832-2367
www.provideosystems.com



BROADCASTERS GENERAL STORE
2480 SE 52nd Street • Ocala, FL 34480 • 352-622-7700 • Fax 352-629-7000

352-622-7700

Ohio Region Sales: Mary Schnelle
Direct Office Phone: 513-899-3036
Mobile Phone: 513-476-4474
Fax: 513-824-8113
Email: mary@bgs.cc

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



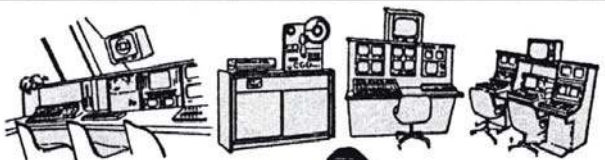
**RELIABLE POWER.
FIVE-STAR SERVICE.
PREMIUM PRODUCTS**

KOHLER Generators

BPS
Buckeye Power Sales
Reliable Power Professionals Since 1987

6850 Commerce Court Drive Blacklick OH 43004
614-861-6000 / 800-523-3587
www.buckeyepowersales.com

Please Support Our Newsletter Advertisers!



CABINETWORKS UNLIMITED

FINE CUSTOM AUDIO AND VIDEO CABINTRY

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

www.grassvalley.com wayne.schrand@grassvalley.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

Making Digital Radio Work.



659C Lakeview Plaza
 Columbus OH 43085
 (p) 614-509-2360
 (f) 614-825-1003
 (e) info@ivideo.com
 www.ivideo.com

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.



OSBORN ENGINEERING

Don Archiable
 Vice President / Director of Technology
 darchiable@osborn-eng.com
 m 216 630 2303



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 R. Morgan

Morgan Consulting Services
 Broadcast Video / Audio

Cell 740-504-7033 9770 New Delaware Rd.
 martymorgan@embarqmail Mount Vernon, OH 43050

Please Support Our Newsletter Advertisers!