

SBE CHAPTER 70 - CLEVELAND/AKRON

SBE 70 MINUTES

Tuesday, November 14th - LIVE and via Zoom
Gather at 6:00pm - Meeting 7:00pm - Presentation to follow
"What's 'LUFS'?" by- Cornelius Gould
Audio Processing Architect, Angry Audio LLC

NOVEMBER 14th MEETING INFO

Presentation: What's 'LUFS'?
by- Cornelius Gould, Audio Processing Architect,
Angry Audio LLC

Join us at the North Olmsted Library, Small Meeting Room on Tuesday, November 14th at 6pm. It is down a hallway to your left as you walk in the Library Entrance. We were last there in March of 2020, as some of you may recall.

We will have pizza and refreshments before a 7pm Meeting, and then a presentation by Conelius Gould of Angry Audio LLC discussing audio processing, more specifically LUFS, which is part of the metrics used for TV audio loudness, as well as being used in streaming, podcasting, music streaming and just about every other audio delivery system, except Terrestrial Radio! So it will be good for us to know what everyone else is using and may adopt some day!

We'll see you at the North Olmsted Library Small Meeting Room. Alternatively you can join this meeting via Zoom. The link can be found on Page 5. You will of course need to provide your own pizza if you are joining remotely!

See you then!

John Hovanec, CSRE/CBNT DRM AMD
SBE Chapter 70 Program Chair

CHAIRMAN'S CHAT

Hello all members and friends of SBE Chapter 70. We want to thank Frank Grundstein of BE for coming in with a great program on their new transmitter designs. The power density and flexibility of the new systems is impressive. It builds on the existing Ellenos designs and moves them forward, finally including IBOC for the US market.



Reminders that ETRS form 3 needs to be completed by November 20th, and the EAS software update done by December 12th. The Sage update is still not ready, but most others are available.

Another reminder of the 'magazines' still available for Engineers in Radio & TV. They are great resources for what is happening now and how it impacts us:

Radio World Magazine & Engineering Extra -

<https://www.radioworld.com/>

TV Technology Magazine -

<https://www.tvtechnology.com/>

The Broadcasters Desktop Resource -

<https://www.thebdr.net/>

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Chairman's Chat (continued from Page 1)

Upcoming SBE Webinar - November 16, 2023 @ 2 p.m. ET, Applied RF Basics - Module 2 :
The four-part Applied RF Series continues with Module 2 – VHF/FM Radio Systems. This session will look at the FM signal in more detail, discussing the various exciters and amplifiers, halfwave vs quarter wave cavities, and providing more detail on filters and combiners. Which combiner to use under what circumstances and how best to minimize spurious signals in complex multi-station transmitter sites will be discussed. Jeff Welton, CPBE, Nautel and Gary Cavell, Cavell Mertz & Associates, Inc. are the instructors.

Blake E. Thompson CBNT
BET Broadcast Engineering
SBE Chapter 70 Chairman
OAB/MAB/WVBA ABIP Inspector



Visit our website at www.sbe70.org

A business card for Broadcast Depot Corp. with a dark blue background and a colorful, multi-colored arrow graphic pointing right. The card lists the following information:

- A.V.R. ELETTRONICA**
- DEVA BROADCAST**
- Yes**
- AXEL TECHNOLOGY**
- Telos Alliance**
- Mary Schnelle**
U.S. Sales
- ✉ mary@7bd.com
- Mobile: (513) 476.4474
- Office: (813) 349.2400
- Broadcast Depot Corp.**
4326 West El Prado Blvd.
Suite #1 Tampa, FL. 33629
- www.7bd.com

A business card for Videodub International with a light beige background. The card lists the following information:

- VIDEODUB INTERNATIONAL**
- For Business & Video Professionals*
- 
- Fadi Kdayssi**
- Videodub International Inc.
2504 Fairmount Blvd.
Cleveland, OH 44106
- Phone 216-321-1440
- Fax 216-321-4404
- fadi@videodubinternational.com

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OCTOBER MEETING



BE STX FM Transmitters

elenos group

- High Efficiency Compact Analog & Digital Modular FM Transmitters
- Direct To Channel Digital exciter
 - AES192 input
 - SFN operation with built in delay
 - RDS - static or dynamic
 - Multiple inputs with failover
- IP monitor and control - HTML & SNMP
- External Exciter for higher power systems
- Ready for Digital - HD Radio and DRM
- Flash free web interface, compatible with all devices
- Compact yet serviceable
- Most PA modules and power supplies are hot pluggable
- Main alternate and N+1 versions

HD Radio[®] Digital AM & FM
DRM

100W - 500W
1kW - 2kW
5kW 10kW 20kW

Innovative Radio & TV Solutions | ELENOS | ielco | PRO TELEVISION

Quick Block Designed for simple reparability

elenos group

- Hot Pluggable light weight modules allows for quick swap out
- Factory stock of replacements under warranty or post sale service to get back to full power quickly
- Test fixture available to provide simple trouble shooting and field repair
- All parts - Power Supply, RF amplifier are designed for field reparability
- RF Amplifiers and Power supplies designed and made in house - not at the mercy of third parties

QUICK BLOCK

Innovative Radio & TV Solutions | ELENOS | ielco | PRO TELEVISION

Quick Block Delivers High Performance

elenos group

- UNIVERSAL TECHNOLOGY**
Quick Block supports all analogue and digital Radio/TV Standards.
- TOP LEVEL EFFICIENCY**
Thanks to PTV inside technology, QB uses the 3rd generation edgecote pre-distortion board, improving the transmitted signal and the overall efficiency.
- INFINITE POWER**
Combine QB and create transmission power from low to very high.
- HIGH LEVEL REDUNDANCY**
QB's reduce to max 2mw PA-MB drive options - Over 50% of Major High Power and Single function components are redundant.
- HOT PLUG**
Plug-in functions with hot-swap controller to facilitate the safe removal. SW system interacts and apply user setting.
- DRIVER 1+1 CROSS REDUNDANT**
Driver Block uses redundant modulators and one driver smaller with a cross switch and gate-in-out transmission even with a "second fault level".
- PREDICTIVE MAINTENANCE**
Quick Block automatically understands when and how maintenance will be necessary and scheduled algorithms will advise the user on time.

Low Power Medium Power High Power

Innovative Radio & TV Solutions | ELENOS | ielco | PRO TELEVISION

Quick Block ultimate scalability

elenos group

- 4 modules in 3RU
- Up to 10kw in 6 RU
- 50 KW in a single 19" rack
- Combination of multiple 3RU chassis to create scalable power levels
- Higher power levels use a combination of external exciters and controller with
- Combiners are all aluminum with precision machined components - no folded sheet metal or failure prone cables
- SOKW working in the factory

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Next Generation FM Transmitter

elenos group

Quick Block... a totally new concept in RF transmitters

- Quick Block is a new product that will revolutionise the way broadcasters operate.
- A unique multi standard platform for Radio, TV, DAB+ and Scientific Applications that has infinite possibilities.
- Built on small form factor common blocks that save space, help logistics, share technologies, are scalable, reduce cost, create redundancy & reliability, improve performance and offer the possibility to always be technologically up to date.
- All in a simple Plug&Play format.

If staying on-air, keeping up with technology, with ever shrinking technical staff, and the CAPEX or OPEX bottom line matters, Quick Block is right for you.

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Photos courtesy of Robert Leskovec

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SBE 2024 Certification Exam Schedule



Exam Dates	Location	Application Deadline
February 2-12	Local Chapters	January 3
April 16	NAB Show/Las Vegas	March 1
June 7-17	Local Chapters	April 26
August 2-12	Local Chapters	June 14
November 1-11	Local Chapters	September 6

When you are ready to take an SBE exam, please fill out the appropriate [application](#) and send it into the SBE National office. You will be notified once your application has been approved. Approximately 3 weeks before the exam time, your local certification chairman will receive a list of applicants in his/her area. He/she will then contact those applicants to schedule a date, time and place for the exams. The exams will be mailed back to the National office for grading. The pass/fail grades will then be mailed directly to the applicants.

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SALES ENGINEERING MANAGER - AMERICAS
678-475-1361

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Topic: SBE Chapter 70 Meeting

Time: November 14, 2023 07:00 PM Eastern Time

Join Zoom Meeting



Topic: SBE Chapter 70 Meeting
Time: Nov 14, 2023 07:00 PM Eastern Time (US and Canada)

Join Zoom Meeting
<https://us06web.zoom.us/j/83528291769?pwd=0A6lxI9Bw1jV0VWEyqNaiVZR-c08XcP.1>

Meeting ID: 835 2829 1769
Passcode: 519430

Or dial:
1 312 626 6799
1 929 436 2866

Meeting ID: 835 2829 1769
Passcode: 519430

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