

AES PNW Section Zoom Chat Log
April 23, 2024 PDT
Recording the Boston Symphony
with Shawn Murphy and Nick Squire

Times shown are GMT.

01:06:34 Jayney Wallick: Replying to "I had to do a quick ..."

Welcome! It's great you can join us this evening!

01:06:45 Rod Evenson: Link to part of one of my recent releases. <https://www.naxos.com/CatalogueDetail/?id=8.574308> & Preview <https://www.youtube.com/watch?v=vyFW4T60Pzg>

01:08:33 Charles Lawson: Replying to "I had to do a quic..."

Absolutely thrilled for this opportunity. Thank you very much.

01:10:15 Ben Steele (Olalla, WA): Reacted to "I had to do a quic..." with ❤️

01:10:43 cesar lamschtein (uruguay): I am in uruguay!

01:10:49 Ben de Wachter: I am from the Netherlands

01:10:57 Christian Paladino: Hola César!

01:11:46 Jayney Wallick: Replying to "I had to do a quick ..."



01:12:06 Jayney Wallick: Replying to "I am in uruguay!"

Welcome Cesar!

01:12:24 Jayney Wallick: Replying to "I am from the Nether..."

Welcome Ben, glad you can join us!

01:12:50 Patrick Springer: This computer has no microphone or camera – but Hello to all – I do location recording of jazz and classical for the last 20 years out of Hillsboro Oregon. Thank you for putting this together!

01:15:55 Jayney Wallick: Replying to "This computer has no..."

Welcome Patrick, glad you could join us! I do location recording in Seattle--mainly world, rock, and related music.

01:16:15 Bill Milgram: Member!

01:16:16 Ben Steele (Olalla, WA): Associate member (since January)

01:16:19 David Friedman: Member

01:16:20 Steve Savanyu: Yes, I am an AES Meber

01:16:21 Estelle Weise: Yes, I am a member!

01:16:21 Christian Paladino: Member!

01:16:24 Tyesha Aimes-Thompson: Member

01:16:27 Robert Huott: Member

01:16:27 Christopher Mi: AES Student Member (Recent Graduate)

01:16:27 Jayney Wallick: Committee member!

01:16:28 David Pasbrig: Member
 01:16:30 Wayne Edwards: Member! hi Y'all.
 01:16:30 Tim Helming: Associate member!
 01:16:31 Jack Lucas: Associate member
 01:16:32 Thiago Cossi: Student Member
 01:16:33 David Satz: ~50-year member
 01:16:33 Tom: Member
 01:16:38 Charles Lawson: Not a member, alas.
 01:16:40 Tom Stiles: Member and committee
 01:16:44 Paul Colvin: Life Member
 01:16:44 Audio Chemists: member!
 01:16:47 Zoom user: Mark Vincenzes... Boston section AES
 associate member
 01:16:51 Adams, Bryce: Associate member
 01:16:52 Joel G. Spector: Joel Spector here in NYC, a
 Life Member with a network TV career of 45 years.
 01:16:52 Rod Evenson: Roderick Evenson AES Life Member
 01:16:52 Alan Southwick: AES Life Member
 01:16:54 Larry Aamodt: Member
 01:16:58 Keith Kanoun: Associate member.
 01:17:05 Ron Yachimec: AES Associate member since 1981
 01:17:13 Mac Perkins (Whidbey Island, WA): Member
 01:17:17 Samuel T Buckner: AES Member
 01:17:18 Herb Savran: HERB SAVRAN LIFE MEMBER NYC CHAPTER
 01:17:21 Gary Hedden: Lifemember AES since 1978
 01:17:22 andyrogulich: Yes I am an AES Full Member
 01:17:24 Thor Fienberg: member
 01:17:27 Greg Kadorian: AES Life Member since 1974
 01:17:30 Mike Reeve: Member
 01:17:39 David Prince: member
 01:18:12 Joe Carter: Joe Carter – AES Life Member
 01:18:52 John Nygren: john nygren is a member
 01:19:51 Gabrielle Guo Qing En: Gabrielle Guo – Boston
 section subscriber, not member yet
 01:19:52 Wayne Rothermich: Wayne Rothermich AES Life
 Member, Santa Barbara California
 01:20:37 Dave Quick: Member
 01:20:46 Ben Steele (Olalla, WA): Reacted to "AES
 Student Member..." with 🙌
 01:29:19 Donn Rutkoff: B&W speakers?
 01:34:36 Rod Evenson: What digital format are you using
 with the Merging Technologies Pyramix Horus?
 01:37:56 David Friedman: A couple questions for whenever the
 time is right: (1) Is there a reverb chamber in the Hall? (2) What
 is the Master Clock for the digital infrastructure? (3) What was
 the motivating factor to go with Ravenna vs. Dante? Many thanks!
 See ya in June.
 01:39:56 Wayne Bretl: Wayne Bretl – Member – Sahuarita ,
 AZ
 01:40:37 Jayney Wallick: Replying to "Wayne Bretl –
 Member..."

 Glad you could join us Wayne, welcome!
 01:42:01 Christopher Kincaid: I love all the detail in

your input list!

01:42:11 Ben Steele (Olalla, WA): Reacted to "I love all the det..." with 100

01:42:24 Wayne Edwards: spot mic delay - to front mic on Tree?

01:42:42 Charles Lawson: Can we get a separate file of this spreadsheet item?

01:44:36 Charles Lawson: What are the main tree mics?

01:47:49 Charles Lawson: Sennheisers for surrounds, too?

01:48:05 Tom LaRocca: Looks like there are APEs on the surround mics?

01:48:43 Charles Lawson: How high is the tree

01:49:28 Gary Eickmeier: Width and length of the hall?

01:49:54 Gordon Stanley: Mics and setup for organ as solo and with orchestra?

01:51:22 j bologni: Perfect phrasing; more present!

01:51:34 Dan Hamstra: How do you calculate the delays? Actual distance to front/center mic of tree or ?

01:52:20 Charles Lawson: Anything special in the hall for Atmos (vs. over the orch)?

01:53:38 Charlie Post: Hi gents! How does one advocate for patch sessions?

01:54:12 andy rogulich: What bit rate and sampling frequency do you record sessions?

01:54:26 Mac Perkins (Whidbey Island, WA): Do you capture all mic channels separately or is there a mix being done live?

01:56:04 Rod Evenson: The Sample Rate was what I was curious about. (as opposed to DSD) 96 kHz/24bit

01:56:04 David Houston: How do you mix the paired spot mics in terms of panning? If you have a stereo pair, for example?

01:56:08 Donn Rutkoff: You guys are too young to have recorded Charles Munch?

01:56:10 Charles Lawson: Do you operate at two different sample rates simultaneously? That is, DXD for commercial while taking lower res MADi for the complete inputs?

01:56:52 Thor Fienberg: How do you deal with the different reverb intensity when you do a patch session?

01:57:13 Kyle Pyke: How do you control timpani bleed in the horn mics?

01:57:36 Joe Carter: What is the hall's RT-60 for full vs. empty?

01:58:48 Christian Paladino: How much freedom do you have in the technique to use?

I mean, is by your technical idea for each musical piece or do you have to comply/adapt to artists/producers requests?

01:59:03 Christopher Kincaid: Reacted to "How do you control t..." with ❤️

01:59:49 Dan Mortensen: The seats can't be the original ones, can they? Sabine spent a lot of time trying to get the seats to be the same acoustically empty and full, if I remember from his bio. Are these seats the same way?

02:00:21 Dan Mortensen: More seating: How long to transform

from full seating to bare floor or tables?

02:00:30 Dan Mortensen: Does the line array live there all the time?

02:00:42 Christian Paladino: Reacted to "How do you control t..." with ❤️

02:01:34 Charlie Post: Replying to "How do you control t..."

And trumpet, and percussion, and...

02:01:35 Tom LaRocca: I've seen many advocate for a near coincident pair(s) over using a Decca tree, with ensembles can you elaborate on why your prefer using a Decca tree over ORTF/NOS/EBS etc?

02:01:40 Robert Huott: Can you please talk a little about coordinating with various maestros? (Ties in with Charlie's question above)

02:02:19 Dan Hamstra: Does live audience ever complain about balance/reverb when using stage extensions vs. just the permanent stage? Some question for performers, can the "front row" hear themselves as well when out on an extension?

02:02:40 Bruce: Bruce Lebovitz signing off from Pittsburgh. Thank you for your interesting discussion.

02:02:57 Gordon Stanley: If you have to patch, what's involved in balancing patch and live sound with audience?

02:03:09 David Prince: Width is around 74' IIRC

02:03:15 Charlie Post: Thanks for that answer!

02:05:24 Matt Antal: How do you account for the change in sound (full hall vs empty hall) for a patch session?

02:05:30 Bob Rieder: Dimensions: According to the plan and elevation views in Leo Beranek's book, the hall is 80 feet wide, and it's just over 160 feet from the back wall to organ pipes at the rear of the stage.

02:05:32 andy rogulich: Do you do your own mastering work after you complete the final mix?

02:06:00 Alan Southwick: From Beranek, Boston Symphony Hall dimensions: H: 61ft(18.6m), W: 75ft(22.9m), L: 128ft(39m)

02:06:09 Charles Lawson: Reacted to "How do you account..." with 👍

02:06:32 Charlie Post: Reacted to "How do you account f..." with 👍

02:07:11 Gordon Stanley: What's your process if a soloist has their own preferred mic(s)?

02:07:11 Wayne Edwards: Panning - volume only, or do you work with delays also?

02:07:43 Charles Lawson: Was Shosty 10 and 11 done with Sennheiser mains?

02:08:16 Charles Lawson: How do you bridge the sample rates?

02:09:28 Bill Milgram: Do you do AV recordings? Any PTZ system in the hall?

02:09:52 Mac Perkins (Whidbey Island, WA): Is the broadcast booth still up on the side wall of the auditorium?

02:12:12 Ezequiel Kosiner Blanco: Have you tried making an impulse of the hall to use it with a convolution reverb?

If so how did it worked?

02:15:11 Alan Southwick: How do you deal with comb filtering and bit rate reductions for live stereo broadcast mixdowns of these multi-channel recordings for Analog, Streaming, and HD and broadcast limiter/compression?

02:16:54 Charlie Post: Thanks for all this detail. Where is the pattern switch usually set on the MK 5 caps for brass?

02:17:04 Keith Kanoun: Is this recording that you are using as a reference available commercially?

02:17:19 Ezequiel Kosiner Blanco: Have you tried any ribbon mics?

02:17:28 Laura Graham: I just got in, curious if you've used ribbons.

02:17:54 Tom LaRocca: Were the MK5's for the brass in cardioid or omni?

02:18:34 Alan Southwick: Do you ever use the rehearsal curtain?

02:20:12 Gary Eickmeier: What is the plan for delay for front vs rear instruments?

02:21:03 Laura Graham: I'm mixing a show in the hall in June with full choir (300+ voices) and orchestra. Any tips for reinforcement in that space?

02:22:29 David Houston: How do you prefer placing choir in perspective with the orchestra in terms of depth?

02:24:06 Alan Southwick: Did you notice any difference when the black out panels were removed from the hall's upper windows?

02:27:29 Charles Lawson: How do you pan the tree? Full L-C-R or...?

02:28:52 Larry Aamodt: How are the figure 8's aimed for the woodwinds?

02:33:18 Donn Rutkoff: The question about perm stage vs extensions, leads me to wonder as a choral singer, I wonder of the 103 people in this zoom, how many are also musicians or singers who are used to the acoustic issues from the performer point of view, espec. being able to hear your self or your section?

02:35:53 David Houston: Do you hang the soloist mics, or use floor stands?

02:36:27 Tim Helming: You clearly both have a deep and nuanced understanding of this music in technical as well as aesthetic realms. Are either/both of you trained as players, or did your learning come entirely from the engineering/production side?

02:38:38 Samuel T Buckner: Please play something..

02:38:53 David Pasbrig: Reacted to "Please play somethin..." with 👍

02:39:33 David Houston: Reacted to "Please play somethin..." with 👍

02:42:28 Tom Stiles: He's soloing channels.....

02:43:17 Eric Hamel (he/him): Sadly, I have to dash. Thank you so much! This presentation has been amazing! 🙌

02:43:22 Sound Suresh: It sound nice

02:43:23 Christian Paladino: Hey guys I have to leave, It was a spectacular meeting. Sounds Great! I

02:43:33 Christian Paladino: Greetings from Argentina!

02:44:09 Ezequiel Kosiner Blanco: Reacted to Greetings from Argen... with "👍"
02:45:05 Gabrielle Guo Qing En: Hi! Whenever it's convenient, how do you ensure that the time arrival and phasing is ideal with this many microphones all recording at the same time?? Thank you so much for your time!
02:45:21 Samuel T Buckner: Can't tell what you are soloing...
02:47:29 Christopher Kincaid: Fantastic separation in some of those close mics!
02:47:33 Gabrielle Guo Qing En: Replying to "Can't tell what you ..."

The track turns yellow and everything else red. You can see the track name below

02:47:36 Greg Kadorian: Thank you!
02:47:36 Matthew Sutton: Thanks for a great meeting, gotta go
02:47:39 Felix Mwangi: Great Presentation. Thanks
02:47:41 andy rogulich: Thank you!
02:47:53 David Pasbrig: Have to run, thank you very much, sounds great!
02:55:36 Charlie Post: What is your usual monitoring decibel level window (to each of you if different)?
02:55:53 Christopher Mi: Love Mechanics Hall!
02:56:45 Charlie Post: Replying to "Love Mechanics Hall!"

You can hear Mechanics Hall in lots of halls outside Worcester, MA
😊

02:57:45 Christopher Mi: Reacted to "You can hear Mechani..." with ❤️
02:59:55 Gabrielle Guo Qing En: Thank you so much for this presentation! This has been really insightful as an aspiring engineer in Berklee doing Music Production & Engineering. As someone new to orchestral recordings, this has been really educational and inspirational! Really appreciate your time!
03:01:12 Tim Malone: Thank you all for a wonderful presentation! Shawn and Nick – come across the street to the Christian Science Plaza for the Boston AES network night – two weeks from tonight (5/7) 😊
03:01:13 Osamu Nakagawara: Reacted to "Greetings from Argen..." with 👍
03:07:03 Donn Rutkoff: a concert with a 60 piece orchestra and a 100 piece on the same concert?
03:07:56 Osamu Nakagawara: Thank you very much for the profound presentation. The great sound you guys mixed have reached all along the way to Japan.
03:11:01 John Nygren: Thank you so very much. Super informative. And fun!
03:13:33 Gary Eickmeier: How do I unmute and start video?
03:15:14 Donn Rutkoff: RCA has a box of Munch & BS0. 86 CDs!
03:15:35 Jayney Wallick: Replying to "How do I unmute

and ..."

At the bottom of your screen there should be a microphone icon. If you click that, it should unmute. There should be a video camera icon next to that. If you click that, we should be able to see you.

03:15:47 David Satz: That's Harold Wright in the corner, the principal clarinetist

03:17:08 Donn Rutkoff: Pardon my ignorance, what is the DG room? The Director General?

03:17:35 Gary Eickmeier: Replying to "How do I unmute and ..."

Just doesn't work. Do I have to upgrade my Zoom or something?

03:17:42 matt howe: Replying to "Pardon my ignorance,..."

Deutsche Grammophon?

03:18:09 David Satz: RCA used M 49s or M 50s

03:18:13 David Satz: not U 47s

03:18:41 Jayney Wallick: Replying to "How do I unmute and ..."

You shouldn't have to. Dan might need to undo something. I'll let him know. Give it five minutes and try it again please.

03:20:23 Christopher Kincaid: Can you talk about your pre-production prep. Particularly do you read through the score before to figure out which close mics you may need or do you listen in rehearsal and place close mics as you think you need them?

03:20:33 Charlie Post: Reacted to "RCA used M 49s or M ..."

with 👍

03:20:53 Charlie Post: Replying to "not U 47s"

DSatz from TS? 😊

03:21:37 David Satz: Replying to "not U 47s"

umhm

03:22:33 Gary Eickmeier: Replying to "How do I unmute and ..."

Raised hand but still can't unmute or start video. I think you have control.

03:22:50 Herb Savran: HAVE TO GO...WONDERFUL PRESENTATION... THANK YOU....

03:23:12 Gary Eickmeier: Replying to "How do I unmute and ..."

Nope

03:23:16 Jayney Wallick: Reacted to "HAVE TO GO...WONDERFUL..."

with 👍

03:23:31 David Satz: Replying to "How do I unmute and ..."

If the host has turned off your mike or your video, ONLY the host

can re-enable it. It's a security thing.

03:24:06 Jayney Wallick: Replying to "How do I unmute and ..."

I just asked Dan to unmute him and Dan said he already did. ????

03:24:13 David Satz: Replying to "How do I unmute and ..."

He misunderstood

03:24:22 David Satz: Replying to "How do I unmute and ..."

It's a separate action from what he did

03:24:38 David Satz: Replying to "How do I unmute and ..."

It's done by the host from the participant list

03:24:46 David Satz: Replying to "How do I unmute and ..."

Not an overall setting choice

03:26:57 Gary Eickmeier: Replying to "How do I unmute and ..."

Just a simple question - who does the Atmos mix? I can hear the soundstage wider than the front corners of my room with my recordings. Do you mix for that in Atmos?

03:27:52 Gary Hedden: Thanks very much. I need to duck out now.

03:29:35 Dan Mortensen: Just to be clear, I have not muted or shut anything off on Gary E's video/audio. His audio is not responsive to me.>

03:29:47 Tom Stiles: Wonderful presentation and discussion and audio samples, thanks!

03:29:47 Jayney Wallick: Replying to "How do I unmute and ..."

Gary, we're still working on this, but we'll try or ask your question from the chat.

03:30:56 Samuel T Buckner: Thank you for a wonderful evening. Very insightful. Thanks for your candor.

03:31:00 Adams, Bryce: Thank you so much for your time!

03:32:07 Gary Eickmeier: Replying to "How do I unmute and ..."

Just a simple question - who does the Atmos mix? I can hear the soundstage wider than the front corners of my room with my recordings. Do you mix for that in Atmos?

03:32:32 Estelle Weise: Thank you very much for this amazing presentation!

03:33:43 Zoom user: Thanks for the interesting presentation

03:33:54 Jayney Wallick: Replying to "Just to be clear, I ..."

Thanks for trying Dan.

03:34:00 David Streit: This has been fantastic. Thanks to everyone involved!

03:34:46 Jayney Wallick: Replying to "How do I unmute and ..."

Hey Gary, Dan isn't seeing your question. Would you mind putting it in the chat again?

03:35:36 Christopher Kincaid: Thank you for the incredible presentation and patience to answer so many questions. I really appreciate y'all's time tonight! And thank you to Dan and Micah for moderating!

03:38:55 Gary Eickmeier: Replying to "How do I unmute and ..."

Just a simple question - who does the Atmos mix? I can hear the soundstage wider than the front corners of my room with my recordings. Do you mix for that in Atmos?

03:39:35 Gary Eickmeier: Replying to "How do I unmute and ..."

Just a simple question - who does the Atmos mix? I can hear the soundstage wider than the front corners of my room with my recordings. Do you mix for that in Atmos?

03:39:36 Jayney Wallick: Replying to "How do I unmute and ..."

Thanks Gary. I'll let Dan know it's there.

03:39:48 Matt Antal: Here is Gary's question: Just a simple question - who does the Atmos mix? I can hear the soundstage wider than the front corners of my room with my recordings. Do you mix for that in Atmos?

03:40:15 Charles Lawson: Replying to "Pardon my ignoranc..."

Deutsche Grammophon, yes.

03:40:16 Larry Aamodt: Wonderful presentation! Thank you.

03:41:16 Charles Lawson: Where are those Atmos mics over the orchestra?

03:42:22 Gary Eickmeier: Replying to "Pardon my ignorance,..."

I just hope Atmos mixes are wider than LCR

03:42:54 Ezequiel Kosiner Blanco: Thanks for a great evening. Unfortunately I've got to go. Please let me know if you upload the video to catch up with this section I'm missing out. 🙏

03:43:53 Ezequiel Kosiner Blanco: Greetings from Argentina!

03:44:09 Dan Mortensen: The recording of this meeting will be in our Archives Section on the PNW AES Website. Probably within a month.

03:44:30 Tim Helming: Reacted to "The recording of thi..." with 👍

03:44:40 matt howe: Reacted to "The recording of thi..."

with 🙏
03:44:55
Argen..."

Jayne Wallick: Replying to "Greetings from

👍
03:45:02

Charlie Post: Reacted to "The recording of thi..."

with 👍
03:45:17

David Friedman: Reacted to "The recording of thi..."

with ❤️
03:49:29

Tom LaRocca: Reacted to "The recording of thi..."

with 👍
03:50:07

Charles Lawson: Reacted to "The recording of t..."

with ❤️
03:50:32
Argen..."

Gary Eickmeier: Replying to "Greetings from

Should be same perspective as from best seat in the house
03:51:52 david tang: Much thanks for this absolutely
fantastic presentation.

03:52:00 Christopher Kincaid: Reacted to "The recording of
thi..." with ❤️

03:58:50 Robert Huott: This has been beyond fantastic.
Many thanks for spending the time!

03:59:00 David Friedman: The depth and breadth of audio
knowledge and experience from the folks on this AES PNW program is
fantastic... Thx guys for collaborating in this way... appreciate y'all
staying up late into the night/morning to do so... your time and
insight is much appreciated... Peace on y'all.

03:59:02 Shelby Lock: Reacted to "The recording of thi..."

with ❤️
03:59:19
thank you!

Charles Lawson: LOVED it! Thank you, thank you,

03:59:23

Christopher Kincaid: 🙌

03:59:23

David Satz: This was really lovely.

03:59:34
presentation!

Shelby Lock: Thank you so much for this amazing

03:59:35

Keith Kanoun: Super presentation! Thanks.

03:59:36

Jayne Wallick: Reacted to "Super presentation! ..."

with 👍
03:59:44

Jayne Wallick: Reacted to "This was really love..."

with 👍

03:59:50

gary sjolin: Great presentation. Thanks so much!

04:00:12

Gordon Stanley: Thanks so much. What a gift. Audio

Engineer for Spreckels Organ Society in San Diego.

04:00:15

Samuel T Buckner: Good go . Thanks all!

04:00:17

gary sjolin: Have to exit

04:00:43

Jayne Wallick: Thanks to everyone for stopping by,

and thanks for the great presentation!

04:01:34

Jason Graham: Thanks everyone! What a fun hang!

04:05:05

Christopher Mi: Gotta bounce! But thank you for the

amazing panel!!

04:14:32 matt howe: Many thanks to Dan & Micah for moderating & of course special thanks to Nick & Shawn. Shosta 10 is a great ref check for making sure the monitoring system is in check here 😊. Congrats on the well deserved award for this recording. Have a good evening ! (And hanging in for plus 3 hours)

04:15:09 Jayney Wallick: Reacted to "Many thanks to Dan &..." with 👍

04:20:01 Charles Lawson: I cannot unmute, but I am the recording engineer/producer for the National Symphony Orchestra in DC for broadcast and archive. This has been a FANTASTIC evening. Thanks!

04:20:17 Jayney Wallick: Reacted to "I cannot unmute, but..." with 👍

04:20:20 Nick Squire: Reacted to "I cannot unmute, but..." with 👍

04:20:26 Shelby Lock: Reacted to "I cannot unmute, but..." with 👍

04:20:38 Steve Savanyu: Reacted to "I cannot unmute, but..." with 👍

04:20:59 Steve Savanyu: Reacted to "Many thanks to Dan &..." with 👍

04:26:16 David Satz: Western Electric condenser microphones on those recordings, most likely, I think

04:28:25 Charlie Post: Reacted to "Western Electric con..." with 👍

04:34:28 Gary Louie PNW Secretary: Spreckels organ: https://www.psaudio.com/blogs/copper/the-spreckels-organ-a-historic-musical-treasure-part-one?_pos=1&_sid=e67b697b1&_ss=r

04:34:58 David Friedman: <https://organstoppizza.com/>

04:36:57 Shelby Lock: I have to head out, too, but thanks so much again!

04:37:01 David Houston: Thanks again for the opportunity to see what you do. Sleep well!

04:37:34 David Satz: Good night! Thanks for this!

04:40:34 Charlie Post: Goodnight & thanks AES PNW!

04:42:15 David Friedman: Have a great night y'all... many thanks!

04:44:20 Mac Perkins (Whidbey Island, WA): I need to head out. Goodnight, all.

04:48:20 Donn Rutkoff: Good night to all. Time to warm up the tube pre amp and throw some vinyl on the spinner.

04:49:01 Gordon Stanley: Reacted to "Good night to all. ..." with 😂

04:49:07 Gordon Stanley: Reacted to "Good night to all. ..." with 👍

04:49:32 Steve Savanyu: Reacted to "Good night to all. ..." with 👍

04:50:10 Gordon Stanley: Goodnight all. Thanks for hosting us Dan. I look forward to a connection to AES San Diego.

