

12:48:18 From Chris Myring to Everyone:

<https://coutant.org/stc/4104/4104.pdf>

12:50:28 From Chris Myring to Everyone:

<https://coleselectroacoustics.com/4104-commentators-microphone/>

13:01:17 From jonathan digby to Everyone:

would you like cameras on, or off?

13:01:31 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:

Cameras can stay on, thanks!

13:03:30 From Gary Louie-PNW secretary to Everyone:

AES PNW homepage: <https://pnw.aessections.org/>

13:04:14 From James Johnston to Everyone:

Jj here

13:04:45 From Gary Louie-PNW secretary to Everyone:

jj misspelled his own name

13:06:19 From James Johnston to Everyone:

Replying to "jj misspelled his own name":

Autodeflect

13:10:29 From DS Coper to Everyone:

Replying to "jj misspelled his own name":

DS Coper is misspelled. It's DS Cooper. No video and no microphone

13:11:24 From Thomas Chrapkiewicz to Everyone:

Replying to "jj misspelled his own name":

Sorry,

13:11:28 From Thomas Chrapkiewicz to Everyone:

Replying to "jj misspelled his own name":

Mic is not cooperating...

13:11:31 From Gary Louie-PNW secretary to Everyone:

Replying to "jj misspelled his own name":
Name fixed!

13:11:36 From Thomas Chrapkiewicz to Everyone:
Replying to "jj misspelled his own name":
From Detroit, Michigan,

13:11:51 From Thomas Chrapkiewicz to Everyone:
Replying to "jj misspelled his own name":
Pro Audio and Automotive Audio Engineer

13:26:51 From Menno van der Veen to Everyone:
Replying to "jj misspelled his own name":
Menno is in the Netherlands, no mike now, tube amplifiers toroidal tube amp output transformers

13:28:05 From DS Cooper to Everyone:
Replying to "jj misspelled his own name":
No

13:28:36 From Jayney Wallick to Everyone:
Replying to "jj misspelled his own name":
@Menno van der Veen Welcome Menno. Glad you could join us today, and please come again.

13:29:15 From DS Cooper to Everyone:
Replying to "jj misspelled his own name":
Rural Oregon - Retired EE. Mostly embedded software this century but analog last. Always interested in audio.

13:30:00 From Jayney Wallick to Everyone:
Replying to "jj misspelled his own name":
Welcome DS!

13:32:57 From DS Cooper to Everyone:
Replying to "jj misspelled his own name":
thank you

13:33:17 From Michael Beuckers to Everyone:
My last name is Bueckers

13:48:54 From Partev Sarkissian to Everyone:
Is Jamie doing a shared screen with graphics?

13:49:23 From Eric Wenocur to Everyone:
Yes you should be seeing it.

13:49:27 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Yes! If you look at the top of your Zoom, do you see a button that says "Jamie Angus-Whiteoak's screen"

13:50:03 From Eric Wenocur to Everyone:
It may be a tab at the top.

13:50:04 From Dan Mortensen to Everyone:
Shared screen, yes. Graphics meaning a pointer with a little red dot to see it easier. I think that might be what you mean.

13:52:07 From James Johnston to Everyone:
Jamie might want to point out that air also has considerable self noise,

13:52:50 From Gary Louie-PNW secretary to Everyone:
if all else fails, we will have a video recording of the Zoom and Jamie's slide deck available.

13:56:48 From Manfred Dr. Zollner to Everyone:
There is a Brüel&Kjaer "Technical Review" on the noise of condenser microphones, including the noise of the air.

14:05:24 From Manfred Dr. Zollner to Everyone:
B&K T.Review No.3 1984: Microphone System for extremely low sound levels, E. Frederiksen

14:06:13 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "B&K T.Review No.3 1984: Microphone System for extr...":
<https://www.bksv.com/media/doc/bv0015.pdf>

14:07:02 From Mad Thompson to Everyone:
Will the recording be shared after the meeting?

14:09:53 From Gary Louie-PNW secretary to Everyone:
Yes, we'll have the Zoom recording and Jamie's slide deck available sometime after the meeting. It could take a few weeks.

14:10:38 From Dan Mortensen to Everyone:
Yes, the recording will be on our Section website in the "Meeting Archive" area, after it's edited and posted. You can also find it (when it's done) at my Youtube Channel DansoundSeattle as well as all our other videos relating to audio, mostly.

14:17:51 From Partev Sarkissian to Everyone:
How much does the circuit board trace play into source noise?

14:18:32 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "Yes, the recording will be on our Section website ...":
<https://pnw.aessections.org/events/meeting-archive/>

14:18:38 From jonathan digby to Everyone:
I guess it would be the resistance of the trace...

14:18:43 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "Yes, the recording will be on our Section website ...":
<https://www.youtube.com/user/DansoundSeattle>

14:20:24 From Partev Sarkissian to Everyone:
Thought as much. Wonder if anything else about the trace added to it. Thanks. 👍

14:20:54 From jonathan digby to Everyone:
ask Jamie

14:24:58 From Manfred Dr. Zollner to Everyone:
Don't miss the resistance of the windings...

14:45:44 From Menno van der Veen to Everyone:
Now Menno is off, its late here. Thank you so much Jamie: pure quality !!, I learned a lot

14:46:13 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "Now Menno is off, its late here. Thank you so much...":
Thanks for joining, glad you could make it!

15:20:09 From John Chester to Everyone:
TI hasn't given up on bipolar, see for example OPA211. Works well for phono cartridges and medium impedance tape heads.

15:28:12 From Partev Sarkissian to Everyone:
I'm seeing more FET's and less BJT's in chips spec. I'm concerned about the input noise.

15:28:25 From Manfred Dr. Zollner to Everyone:
Thank you, good night (0:30 am). Dan, I'll send you an email

15:28:49 From Jayney Wallick to Everyone:
Thanks for stopping by Manfred! Please come again!

15:28:50 From Dan Mortensen to Everyone:
Thanks, Manfred!

15:29:24 From Partev Sarkissian to Everyone:
TL07x on inputs, then 5532 on the inner amp circuits.

15:34:21 From Bob Smith to Everyone:
The graphics in this presentation have been excellent in assisting visualizing the information being conveyed.

15:35:25 From Gary Gottlieb to Everyone:
Thank you Jamie and thank you PNW! This has been a wonderful presentation. I have to go, but I hope to see some of you in Warsaw next month!

15:35:43 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Thanks Gary, glad you could make it and good to see you!

15:35:52 From Jayney Wallick to Everyone:
Thanks for stopping by Gary! Hope you can make it again soon!

15:35:53 From Dan Mortensen to Everyone:

Thanks, Gary!

15:37:36 From John Chester to Everyone:
My current favorite FET input opamp: OPA828

15:38:35 From jonathan digby to Everyone:
equations in LaTeX format may perform better?

15:38:59 From Partev Sarkissian to Everyone:
Yes, but pricey for me.

15:39:24 From jonathan digby to Everyone:
i think so

15:39:43 From jonathan digby to Everyone:
same as Word

15:40:16 From jonathan digby to Everyone:
20 to midnight

15:40:21 From jonathan digby to Everyone:
always!

15:43:39 From Stephan Schindler to Everyone:
Thanks for this nice and very informative presentation!! I have to go, bye bye

15:44:28 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "Thanks for this nice and very informative presenta...":
Thanks Stephan! Glad you could make it!

15:44:46 From James Johnston to Everyone:
I have to check out. Spouse calls. Great talk.

15:45:16 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "I have to check out. Spouse calls. Great talk.":
Good to see you jj, glad you could make it, see you next time!

15:45:42 From Bob Smith to Everyone:

Thank-you Jamie for an informative, interesting presentation on the topic.

My presence is required at another event now. See you all later.

15:46:00 From Dan Mortensen to Everyone:

See you, Bob!

15:46:04 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:

Replying to "Thank-you Jamie for an informative, interesting pr...":

Good to see you Bob, glad you could make it! See you next time!!

15:48:23 From jonathan digby to Everyone:

excellent, as always. thank you Jamie, and thank you team PNW

15:48:33 From Jayney Wallick to Everyone:

Replying to "Thank-you Jamie for an informative, interesting pr...":

Yes Bob, glad you could make it!

15:48:38 From Chris Myring to Everyone:

Thank you, Jamie. I will have to digest the details in depth from your slides. Thanks as always to PNW for organising everything.

15:48:45 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:

Replying to "excellent, as always. thank you Jamie, and thank y...":

Thanks for joining, Jonathan! Glad you could make it!

15:49:07 From Jayney Wallick to Everyone:

Replying to "excellent, as always. thank you Jamie, and thank y...":

Of course Jonathan! We hope you see you again!

15:49:13 From jonathan digby to Everyone:

Replying to "excellent, as always. thank you Jamie, and thank y...":

[1]

H. D. Harwood, "The Design of a High Quality Commentators' Microphone Insensitive to Ambient Noise," BBC, 7, Jun. 1956.

Available: [http://downloads.bbc.co.uk/rd/pubs/archive/pdf/monographs/bbc_monogr
ap...](http://downloads.bbc.co.uk/rd/pubs/archive/pdf/monographs/bbc_monogr_ap...) [Accessed: Apr. 12, 2025]

15:49:17 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "Thank you, Jamie. I will have to digest the detail...":
Thanks Chris, glad you could make it! Good to see you!

15:50:49 From Jayney Wallick to Everyone:
Replying to "Thank you, Jamie. I will have to digest the detail...":
Likewise Chris!

15:51:27 From Chris Myring to Everyone:
<https://www.ti.com/lit/ds/symmlink/opa1642.pdf>

15:51:45 From Dan Mortensen to Everyone:
Replying to "excellent, as always. thank you Jamie, and thank y...":
Wow, that article is wonderful! From 1956. It came with an equalizer!

15:52:32 From jonathan digby to Everyone:
Replying to "excellent, as always. thank you Jamie, and thank y...":
check out the 'dummy presenter'. ahead of their time

15:52:54 From Chris Myring to Everyone:
<https://www.ti.com/lit/ds/symmlink/opa1652.pdf>

15:52:58 From Dan Mortensen to Everyone:
Replying to "excellent, as always. thank you Jamie, and thank y...":
That seemed to have a speaker going to a tube in the mouth. Is that right?

15:54:16 From jonathan digby to Everyone:
Replying to "excellent, as always. thank you Jamie, and thank y...":
before my time, but it's likely to be documented somewhere in there, or in another bbc monograph. It would make sense, as you've described it

15:54:43 From Dan Mortensen to Everyone:
Replying to "excellent, as always. thank you Jamie, and thank y...":
There's a picture. Haven't read the text yet.

15:56:10 From DS Cooper to Everyone:
Replying to "Thank you, Jamie. I will have to digest the detail...":
Thank you for an interesting presentation. I look forward to watching it again.

15:56:33 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "Thank you, Jamie. I will have to digest the detail...":
Thanks for joining DS, glad you could make it!

15:56:44 From Jayney Wallick to Everyone:
Replying to "Thank you, Jamie. I will have to digest the detail...":
Likewise!

15:56:58 From Eric Wenocur to Everyone:
I knew he was going to say that!

15:57:35 From Eric Wenocur to Everyone:
This is a problem of audio equipment users not understanding how things work...

15:58:35 From Jayney Wallick to Everyone:
Replying to "This is a problem of audio equipment users not und...":
You don't say! 🤔

15:59:46 From jonathan digby to Everyone:
i suggest the device would need to be immune to this - it will happen ...

16:00:18 From Jayney Wallick to Everyone:
Sorry everyone, early call today, gotta run--see you again soon!

16:00:51 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:
Replying to "Sorry everyone, early call today, gotta run--see y...":
Good to see you Jayney, glad you could make it! Good luck tonight!

16:00:56 From Eric Wenocur to Everyone:
Put a fuse in?

16:01:43 From jonathan digby to Everyone:
Mac: love the look of your workshop!

16:03:00 From Wayne Edwards to Everyone:
PTC

16:03:31 From Eric Wenocur to Everyone:

Just kidding, but it would be interesting to see a row of fuse holders under the inputs XLRs.

16:13:00 From John Chester to Everyone:

Great presentation, thanks. Time for my dinner now.

16:14:55 From Jess Berg, AES PNW Vice Chair (St. Paul, MN) to Everyone:

Replying to "Great presentation, thanks. Time for my dinner no...":

Great to see you John, glad you could make it!

16:15:51 From Eric Wenocur to Everyone:

Not going to bed yet, but it's time for dinner here on the east coast. Thanks!

16:16:26 From jonathan digby to Everyone:

brilliant. best wishes to all

16:51:18 From Chris Myring to Everyone:

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

17:47:31 From Chris Myring to Everyone:

A discussion about amplifier power

ratings: <https://forums.prosoundweb.com/index.php?topic=153123.0>