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**AES** Audio Engineering Society - Pacific Northwest Section

*Around the Puget Sound, Seattle, Washington, U.S.A.*

**NOTE: anyone can attend this meeting regardless of their status as an AES member.**

**AES MEMBERSHIP IS NOT REQUIRED.**

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**October Meeting Notice  
An Evening of Reverberation  
Presented by  
Sean Costello - Valhalla DSP  
René Jaeger  
Rick Rodriguez**

**Thursday, October 8, 2015, 7:30pm  
Robert Lang Studios, Shoreline, WA**

Please join us for an evening discussion about the history of digital reverberation, to be held at the legendary Robert Lang Studio in Richmond Beach in Shoreline.

If you caught the "1000 Years of Reverb" talk with Sean Costello (Valhalla DSP) [\[link here\]](#) earlier this year, you'll remember when Sean was discussing classic Lexicon reverbs and there was a connection made with a member of our audience, René Jaeger, who was working at Lexicon when the 224 and PCM60 were being developed.

When Sean covered reverbs from the '90s such as the Alesis family of products, Rick Rodriguez joined the discussion, as he worked on the hardware of some of those famous reverberators.

That exchange inspired a riveting panel-like discussion with these three folks, and we want to continue the magic at our next meeting.

If you have ever wondered what goes on in a digital reverb or about the history of digital reverb, this talk is not to be missed.

We will be exceedingly lucky to present this event in the gorgeous "Stone Room" at Robert Lang Studio, a space which is worthy of a meeting by itself. The story of its genesis is remarkable enough; when you consider the talent that has recorded there, you know you are in a special place. The many videos and TV shows recorded there have shared it with the world, and you can be there in person at our meeting and feel the magic yourself.

This evening has the makings for one of the more memorable PNW AES meetings in our history!

Note that space is limited, and admittance will be strictly by RSVP, so please respond ASAP to reserve your seat! To RSVP, please send an email to [aespnw at gmail.com](mailto:aespnw@gmail.com) (Don't worry, if you can't make it or we fill up, we plan on videotaping the discussion in order to make available on the section site).

**RSVP rules:** We'll keep a list of responders and you will receive further information. We'll hint nicely that it would be nice to minimize guests to allow those really interested in the topic to attend (we would like to have further meetings at RLS and more opportunities to see the studio). Please have the courtesy to notify us if you have to cancel; we expect a long wait list. Directions will be sent to the RSVP list.

### **Sean Costello**

Sean started out experimenting with Csound at the University of Washington in the late 1990s. He was hired by Staccato Systems in 1999 and worked developing

physical models for video games. Staccato Systems was acquired by Analog Devices in 2001 and he began working on audio algorithms and development tools for the SHARC and Blackfin DSPs. In 2007, he began working as a consultant, developing a wide variety of audio algorithms for a variety of clients. He started Valhalla DSP in 2009 with the release of ValhallaFreqEcho. Sean approaches algorithms from a psychoacoustic perspective and enjoys creating and selling tools directly to artists.

## Rick Rodriguez

Hardware Design Engineer

Rick's audio pedigree begins with Quad Eight Westrex in 1983 and spans two decades of electronic hardware design and development for the musical instrument and professional audio markets with Fender Musical Instruments, Alesis Studio Electronics, and consulting work under Hugsley Audio Research. He graduated from California Polytechnic State University, San Luis Obispo with a Bachelor's of Science Degree in Engineering.

## René Jaeger

René worked at dbx, designing audio compressors and noise reduction systems. He then moved on to Lexicon doing A/D and D/A converter development as well as the legendary PCM-60 digital reverb, culminating in the even more legendary 480L reverb. A brief stay at New England Digital ended with a move to California to the Grass Valley Group, after which he moved to the PNW, where he worked for Mackie Designs/Loud Technologies designing mixers and a class D power amplifier.

In addition to the above, René has done consulting work for instrumentation, medical and professional audio companies, managed the development of the Pacific Microsonics Model One HDCD mastering converter, and partnered in the founding of Berkeley Audio Design. After retiring in September 2014, René is devoting himself to the perfection of audio reproduction at home and other household activities.

## About the Studio

Forty-one years ago, Robert Lang purchased a plot of land with a one-room garage on it in Richmond Beach, WA. With big vision, good friends and a few shovels, he dug out the hillside to create this one of a kind, highly sought after approx. 9,000 sq. ft. music recording facility. From Nirvana to Peter Frampton to the Foo Fighters to Macklemore & Ryan Lewis, the unparalleled vibe and sounds you can achieve at RLS attract musicians, engineers and producers from all over the globe as well as students and aspiring music professionals to learn in the Education Program offered at the studio. Recently featured in Dave Grohl and the Foo Fighter's Emmy Award winning HBO documentary series, Sonic Highways, RLS continues to capture the hearts and minds of the world's music lovers and professional music-makers.

## Chris Deckard

*AES PNW 2015-2016 Section Chair*

**n.b.** *The material presented at our meetings is the opinion of the presenter and not necessarily that of the Society. You are encouraged to conduct your own research and to form your own opinions before adopting the presented material as Truth.*

**Our meetings are open to anyone interested in Audio. AES membership is NOT required for you to attend our meetings.**

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### 2015-2016 Officers

Chairman Christopher Deckard	Vice- Chairman Steve Turnidge	Secretary Gary Louie	Treasurer Greg Mauser	At Large: Aurika Hays, Membership	Refer to the Officers and Committee contact list for contact information.
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