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AUDIO engineering society, Inc. Pacific Northwest Section

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October 1996 Meeting Notice

“Maximum Audio Mileage from Amplifier I.C.s”

Walt Jung - Analog Devices, Norwood MA

DATE: Friday, October 11, 1996 - 8:00 PM

PLACE: Jack Straw Productions Studios, 4261 Roosevelt Way N.E., Seattle

DIRECTIONS: From I-5, take the N.E. 45th street exit eastbound, toward the University of Washington. Turn south on Roosevelt, 3 blocks east of the freeway (one way street). Go south on Roosevelt for two blocks. Limited parking is available next to the JSP building, otherwise, park on the streets.

Op amp and other low frequency IC devices have progressed remarkably from the days of 1st and 2nd generation parts. Improvements have been made in terms of speed, output power, noise, and overall ease of use.

These device improvements are widely available to new designs. In addition, with standard pinout parts such as op amps, performance upgrades are also available via simple part substitution upgrades.

Applications will be covered which illustrate how modern ICs can be used for challenging tasks, with their performance maximized. Some ICs such as current feedback types have unusual characteristics, making them not as straightforward to apply. These can still be used to good advantage, once their unique behavior is understood. Circuit examples covered will include single and differential line drivers, headphone amplifiers, I/V converters (summing amplifiers), high performance filters, differential line receivers, low noise amplifiers, high performance power supply design and measurement techniques, and system interfacing issues.

Walt Jung is a Corporate Staff Applications Engineer for Analog Devices Inc. of Norwood MA. His duties include writing articles and technical material for seminars, as well as their presentation. He is a fellow of the AES, with a lifetime interest in high quality audio and music reproduction. His published works include several hundred technical papers and magazine articles for JAES, Audio, The Audio Amateur, etc., as well as a series of practical books including “IC Op Amp Cookbook”, and “Audio IC Op Amp Applications”.

NON-MEMBERS ARE WELCOME TO ATTEND

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