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UCR Electrical Engineering Associate Professor Invited to Chair International Conference

Professor Balandin will chair the esteemed SPIE International Conference
(January 19, 2005)

Alexander A. Balandin, an associate professor of electrical engineering at the University of California, Riverside, will chair an international conference on noise and fluctuations in electronic devices and circuits.



Sponsored by the International Society for Optical Engineering (SPIE), the International Symposium on Fluctuations and Noise is considered one of the highest ranked scientific meetings within the field. Attendees will examine both experimental and theoretical aspects of electronic noise and fluctuations, measurement techniques, as well as noise modeling and computer simulation issues. Understanding the properties of electronic noise in transistors and other devices is important for improvement of operation of many consumer products and media resources including computers and Internet.

The invitation to chair the SPIE International Conference, which will be held in Austin, Texas from May 23-26, 2005, came in recognition of Balandin's contribution to the study of low-frequency noise in GaN-based high-power transistors. Noise reduction in this novel type of transistors is essential for their application in communication systems, such as cell phones and satellite TV. Transistors made out of GaN, a semiconductor capable of sustaining very high electric fields, are much more robust and powerful than conventional Silicon transistors.

"I am honored to have been asked to serve as chair of this very important meeting, which will bring together some of the top researchers and educators in this field," said Balandin, who is an organizer and group leader of UCR's Nano-Device Laboratory, which carries out nanotechnology and nanoelectronics-related research in a variety of projects funded by the National Science Foundation (NSF), Office of Naval Research (ONR), and Semiconductor Research Corporation.

He received his Ph.D. in Electrical Engineering from the University of Notre Dame, Indiana. Prior to joining UCR he worked as a Research Engineer from 1997 to 1999 in the UCLA Electrical Engineering Department. Balandin received both the NSF Faculty CAREER Award in 2001 and the ONR Young Investigator Award in 2002.

SPIE is a not-for-profit organization that has become an international force for the exchange, collection and dissemination of knowledge in optics, photonics and imaging. More information about the conference is available at www.spie.org.

Related Links:

- [International Society for Optical Engineering](#)

Additional Contacts:

- [Associate Professor Alexander A. Balandin](#)

The University of California, Riverside is a major research institution and a national center for the humanities. Key areas of research include nanotechnology, genomics, environmental studies, digital arts and sustainable growth and development. With a current undergraduate and graduate enrollment of more than 17,000, the campus is projected to grow to 21,000 students by 2010. Located in the heart of inland Southern California, the nearly 1,200-acre, park-like campus is at the center of the region's economic development. Visit www.ucr.edu or call 951-UCR-NEWS for more information. Media sources are available at <http://www.mediasources.ucr.edu/>.

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