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ECS Short Course on Micro/Nanofabrication of Chemical and Biosensors - Registration Open

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ECS Announces Short Course on

[Micro/Nanofabrication of Chemical and Biosensors](#)

presented at PRIME 2012 in Honolulu, Hawaii

About the Course

This comprehensive course — presented by **Dr. Peter Hesketh**, **Dr. Gary Hunter**, and **Dr. Zoraida Aguilar** — will cover micro/nanofabrication techniques for chemical and biosensors, and will review the preparation of nanoparticles for nanobiosensors and nanotheranostics. Nanofabrication processes include physical vapor deposition, chemical vapor deposition, atomic layer deposition, plasma etching, ion beam, electron beam, vapor-liquid-solid growth, electroplating, photo and electron beam lithography. The preparation of nanoparticles, their surface modifications with biomolecules such as antibodies, enzymes, oligonucleotides, and other molecules, and characterization of the modified nanoparticles as well as evaluation of number of biomolecules bound to the surface will be addressed. The course will be presented by leading scientists in this field.

About the Presenters

Dr. Peter Hesketh has over twenty-five years experience in MEMS/NEMS and microfabricated sensors. He is currently a Professor of Mechanical Engineering at Georgia Institute of Technology, Member of the Parker H. Petit Institute for Bioengineering and Biosciences, and Director of the MEMS/NEMS Group in the School of Mechanical Engineering. Dr. Hesketh has published over seventy journal papers and edited fifteen books. He is a Fellow of the AAAS, ASME, ECS, and a member of ASEE, AVS, and IEEE.

Dr. Gary Hunter is the Technical Lead for the Chemical Species Gas Sensors Team and Lead for Intelligent System Hardware in the Sensors and Electronics Branch at NASA Glenn Research

Center. His contributions range from research to technical management in fields including engine emissions, environmental monitoring, spacesuit monitoring, fire detection, leak detection, and high temperature wireless sensors. He has co-authored three book chapters; has 6 patents; and has a significant number of papers, and talks, and has been co recipient of two R&D 100 Awards for one of the most significant inventions/products of the year, two NASA Turning Goals into Reality Awards, and one Nano 50 Award.

Dr. Zoraida Aguilar is currently a Principal Investigator/Study Director at Covance Laboratories, Inc. where she applies her knowledge and experiences in the clinical evaluation of various drugs and other medical products. She currently serves as consultant for biomedical and biological applications of nanomaterials at Ocean NanoTech where she was the former Director of Research and Development. She has published more than forty papers in biosensors, nanosensors, and biomedical applications of nanomaterials. She is a recipient of the ACS graduate research fellowship in Analytical Chemistry in 2002, a Graduate Research Awardee from the Sigma Xi Scientific Research Society in 2003, and the Philippine Department of Science and Technology Returning Scientist Awardee in 2010-2011.

Register Today—Space is Limited!

Your SHORT COURSE registration fee includes:

The one-day course • All text materials • Continental breakfast, lunch, & refreshment breaks.

ECS member and student discounts are available

Visit here for more information

(Note: The Short Course fee does not cover the meeting registration, and it is not applicable to any other activities of the meeting.)



About the 2012 Pacific Rim Meeting on Electrochemical and Solid-State Science

This joint international meeting is sponsored by **The Electrochemical Society (222nd ECS Meeting)** and The Electrochemical Society of Japan (**2012 Fall meeting**) with the technical cosponsorship of the Japan Society of Applied Physics, the Korean Electrochemical Society, the Electrochemistry Division of the Royal Australian Chemical Institute, and the Chinese Society of Electrochemistry. The sixth PRiME is the largest and most significant meeting in electrochemistry that has ever been held, with major contributions from our Pacific Rim partners noted here, as well as Europe and North and South America .

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