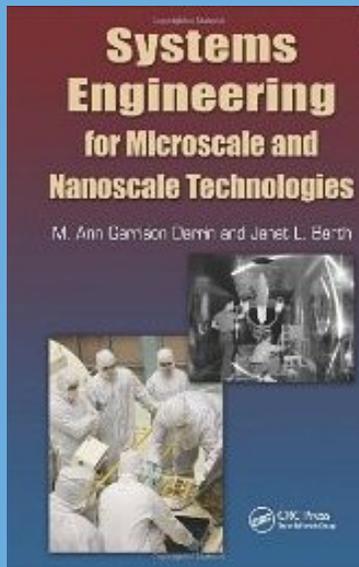




January 2012 Vol. 3 Issue 1



## 2012 MAMNA Symposium Proceedings to be Included in Archival Publication

The Mid-Atlantic Micro/Nano Alliance (MAMNA) is pleased to announce that this year's conference will be presented in association with the IEEE Nanotechnology Council. The conference proceedings will be published for the first time as a stand-alone peer-reviewed IEEE archival publication. The symposium theme will be "Microsystems in Measurement and Instrumentation" and it will be held on March 27, 2012 at the United States Naval Academy. Professor Samara Firebaugh is the Conference Chair; registration, abstract submission, and more information is available online: [www.midatlanticmana.com](http://www.midatlanticmana.com).

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## OTHER NEWS

### Save the Date!

2012 Spring Symposium:  
Microsystems in Measurement and  
Instrumentation, will be held at the  
United States Naval Academy,  
March 27, 2012. Register now at:  
<http://www.midatlanticmana.com/>

### STEERING COMMITTEE:

Brian Jamieson, Chair (SBMicro)  
Ann Darrin, Secretary (APL)  
Craig McGray, Treasurer (NIST)  
Sarah Bergbreiter (U.Md.)  
Andrew Dehennis (SMSI)  
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Robert Osiander (APL)  
Makarand Paranjape (Georgetown)  
Marcel Pruessner (NRL)  
Keith Rebello (APL)  
Ian White (U.Md.)

# New Book: Systems Engineering for Microscale and Nanoscale Technologies

Co-Edited by MAMNA Steering Committee Member and past Chairperson Ann Darrin, this is the first practical handbook that addresses the application of systems engineering to small scale systems. Chapters were contributed by MAMNA Steering Committee members Robert Osiander and Brian Jamieson, as well as several other members-at-large. The book is relevant both for systems engineers learning micro and nanotechnology and for micro and nanotechnologists learning systems engineering. The book provides practical guidance for the development of products in the health, automotive, aerospace and communications fields. Available now on Amazon:

<http://www.amazon.com/Systems-Engineering-Microscale-Nanoscale-Technologies/dp/1439837325>

## MAMNA Year in Review

2011 was a year of growth and excitement for the Mid-Atlantic Micro/Nano Alliance. Current membership grew to 650, and the Steering Committee expanded its

industry base by adding another member with an industrial affiliation (Dr. Andrew Dehennis, Engineering Group Leader, Sensors for Medicine and Science, Inc.) A successful continuing education lunchtime seminar was hosted in October, with over seventy registered participants. The event was sponsored in part by the Maryland Partnership for Workforce Development, thanks to the efforts of MAMNA Treasurer Craig McCray and DBED's Brian Castleberry. Plans are underway for the 2012 Spring Symposium, MAMNA 2012: Microsystems for Measurement and Instrumentation. 2012 is promising to be a great year for MAMNA; we encourage you to register for the Spring Symposium, and to consider getting more involved in our group: email [Chairperson@midatlanticmana.com](mailto:Chairperson@midatlanticmana.com)

## Institute for Microsystems Research (ISR) Speaker Series

All talks are at 4pm in 1146 A. V. Williams Bldg. on the University of Maryland campus.

**2/28/12** Taher Saif, University of Illinois The mechanics of “small”

**3/15/12** Mehmet Toner, Harvard University Microfluidics: cells on chip for disease diagnosis

**4/4/12** David Erickson, Cornell University Optofluidics for bio-analytics and energy applications

**5/3/12** Adela Ben-Yakar, U. of Texas Femtosecond laser-assisted biophotonics

## Canon U.S. Life Sciences And The University Of Maryland Launch New Collaboration

Canon U.S. Life Sciences Inc., a subsidiary of Canon U.S.A., Inc., and the University of Maryland have launched a new research collaboration to develop a highly automated system providing rapid infectious disease diagnosis. Utilizing Canon U.S. Life Sciences' proprietary genetic analysis system, the project aims to expedite the delivery of infectious disease test results while also simplifying the test process to allow a variety of clinical staff to perform automated disease diagnosis.

The research team is led by Hiroshi Inoue, senior fellow, Canon U.S. Life Sciences, and Dr. William Bentley, chair of the Fischell Department of Bioengineering in the university's A. James Clark School of Engineering. Together with co-researchers Dr. Keith Herold and Dr. Ian White, both of Maryland's Fischell Department of Bioengineering, they will pioneer the use of microfluidic chip technology in disposable testing cartridges

containing human blood samples.

## SMSI Secures Series-D Financing

GERMANTOWN, MD. – November 1, 2011 – Sensors for Medicine and Science, Inc. (SMSI), a privately held medical device company focused on the development and commercialization of the first fully implantable, long-term continuous glucose monitoring (CGM) system for people with diabetes, announced today a \$54.1 million Series D equity financing. The funding was led by new investor Delphi Ventures, with significant participation from existing investors New Enterprise Associates (NEA), HealthCare Ventures, Anthem Capital and Greenspring Associates.

### MAMNA Mission

*The Mid-Atlantic Micro/Nano Alliance is an alliance of companies, universities, and government laboratories in the Washington DC metropolitan area.*



Our mission is to create a group that networks expertise, capabilities, and research to facilitate the development of new applications and commercialization of miniaturization technologies.

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