



Dr. Robert Fischell to keynote Mid Atlantic Micro Nano Alliance Special Topics Symposium

**Mid-Atlantic Micro-Nano Alliance Mission Statement:**

To network expertise, capabilities, and research to facilitate the development of new applications and commercialization of miniaturization technologies.

**Mid Atlantic Micro-Nano Alliance has a new website—  
Bookmark this <http://www.midatlanticmana.com/>**



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***Stay in touch 24-7 with our website with regional news, proposal and employment opportunities, educational and networking events. You'll find links to symposiums and regional highlights along with current and past issues of Microsystems Monthly.***

***Dear Alliance Members,***

The Micro/Nano Alliance's eleventh annual Special Topics Symposium on October 19th at the Kossiakoff center in Laurel, Maryland will explore the commercialization of micro- and nano-technology and microsystems research. The symposium is intended for anyone interested in exploring how a research program might be better aligned with current market and customer needs, is interested in developing, marketing and transitioning a current technology, or wants to learn how to foster and nurture innovation for commercial adoption.

The symposium will bring together researchers and technologists, commercialization and tech transfer professionals, entrepreneurs and investors, working on or interested in commercializing miniaturization technology. The meeting will be both retrospective and prospective, including past commercialization success stories along with a look at how current cutting edge micro/nano technologies can be developed to find a role in the marketplace.

The single-day symposium will be informal, and will include plenty of time devoted to networking and interaction via a poster session and included lunch. The Mid-Atlantic Micro/Nano Alliance is dedicated to promoting collaboration and interaction among our participants, and our greatest success stories involve research partnerships that have been fostered at our events

**Registration** ...submit an abstract or register at [www.midatlanticmana.com](http://www.midatlanticmana.com)

Time to start planning your Fall schedule so go ahead and sign up.

Best regards,



Brian Jamieson

**Registration is open:** The next Mid Atlantic Micro-Nano-Alliance Symposium is scheduled for October 19th, 2010 at the Kossiakoff Center JHUAPL Laurel MD! [www.midatlanticmana.com](http://www.midatlanticmana.com)



**Keynote Speaker: *Dr. Robert Fischell***

Scientist and engineer Robert Fischell has had two pioneering careers: his current one inventing life-saving medical devices, and a former one helping create the modern era of space satellites so critical to communications, entertainment, business and national security.

Fischell, who holds more than 200 patents, is the father of modern medical stents, lifetime pacemaker batteries and implantable insulin pumps. Named by his granddaughter, Angel Medical is one of more than half a dozen companies, including Pacesetter Systems, IsoStent, NeuroPace, and NeuraLieve, that Fischell has founded since 1969 to develop his inventions. NeuroPace is developing a new implantable device for ending epileptic seizures. NeuraLieve is developing a magnetic pulse device that stops migraine headaches.

Fischell received his B.S. in mechanical engineering from Duke University in 1951, and an M.S. in physics from the University of Maryland in 1953. He was awarded an honorary doctoral degree from the University of Maryland in 1996. He is a member of the National Academy of Engineering and has received numerous awards and recognitions including induction into the Space Technology Hall of Fame.

Reference: <http://www.bioe.umd.edu/about/meetthefischells.html> (accessed: 7/14/2010)

**Program:**

**There will be a full program of short (20 minute) technical presentations focusing on technologies that have a potential for a substantial beneficial impact. Platform talks will be technical in nature; however, each speaker will present a clear and compelling vision of the unanswered market need that it is filling.**

## Jobs in Micro and Nano in the Region

A little further North than our region but worth noticing:

### **Tenure-track Faculty Position in Biorobotics**

[Harvard University](#) (Cambridge, MA)

The School of Engineering and Applied Sciences (SEAS) and the Wyss Institute for Biologically Inspired Engineering at Harvard University (Wyss Institute) seek applicants for a tenure-track faculty position. The position will be at the level of assistant professor in SEAS in the field of Biorobotics. Potential subareas include, but are not limited to: \*Medical robots (e.g. prosthetics and rehabilitation robotics) \*Robot locomotion (e.g. animal-inspired robotic systems, bio-inspired adaptive locomotion and control) \*Dynamics and control (e.g. machine learning and robotics, swarm and modular robotics, and human-robot interaction) \*Sensors and actuators (e.g. novel electroactive materials) \*MEMS/NEMS devices and robots \*

An application, assembled as a single PDF file, should include a curriculum vitae, separate two-page statements of research and teaching interests, up to three scientific papers, and names and contact information for at least three writers of letters of recommendation. Applications should be sent to [biorobotics\\_search@seas.harvard.edu](mailto: biorobotics_search@seas.harvard.edu). The deadline for applications is October 31, 2010. Applications will be reviewed beginning February 2011 and will be accepted until the position is filled .

## **YOUR STATE YOUR FUTURE**

### **State R&D Sheets and STEM ED Coalition STEM ED Report Cards**

Here you will find 51 state-specific R&D Sheets and K-12 STEM Ed Report cards

to help illustrate the importance of scientific research to state and local economies, job growth, innovation, our standard of living, and national security.

One highlight of this work is a feature which ranks states according to a variety of indices provided by U.S. Census Bureau, the U.S. Bureau of Labor Statistics, and TechAmerica.

The Information Technology & Innovation Foundation, and several other organizations which track specific trends in this area.

Check out your state at: [http://www.usinnovation.org/state/state\\_rd\\_list.asp](http://www.usinnovation.org/state/state_rd_list.asp)

## UPCOMING EVENTS (continued)

August 1, 2010

### Commercialization of Micro-Nano Systems Conference

#### COMS 2010

*Hyatt Regency Tamaya Resort & Spa*

*Albuquerque , New Mexico*

*August 29 - September 2, 2010*

COMS brings together leaders from all over the world and every sector of industry; from high tech companies, national labs, regional development and government agencies, investment and consulting groups, market researchers, educators and students; all sharing, learning and creating partnerships in an open interactive setting. This is a powerful environment focused on accelerating commercialization activity among established and emerging micro and nano businesses. COMS focuses primarily on solutions, not just science and technology. It is a hands on, practical meeting to assist you in bringing your products to market, finding new customers, or the perfect development partner. Meet with decision makers & qualified buyers from every sector in an atmosphere designed for business development.

They are working on the finishing touches to the COMS 2010 program, it should be complete in the next few weeks. Until then, click here to view a few of the sessions they have [lined up](#).

### 11th Annual Micro/Nano Alliance Symposium

**October 19th**

#### **CALL FOR ABSTRACTS**

The annual symposium of the Mid-Atlantic Micro/Nano Alliance will take place on October 19, 2010 at the Kossiakoff Center at the Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland.

We are soliciting technical poster presentations from researchers in fields related to micro- and nano-scale science and engineering.

Poster topics are not restricted to the conference theme of commercialization.

Prospective participants should submit an abstract through the MAM/NA website (<http://www.midatlanticmana.com/>).

Abstracts must be received by September 20.

**EARLY BIRD DISCOUNT**— poster presenters who submit their abstract by **August 23** will receive a discount on registration to the symposium .

## News bites from the Region

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Steve Elliot of Springer Link reports he is building a MEMS Networking site!  
We started this social platform for interdisciplinary discussions for all who wish to collaborate, share, and connect with other MEMS researchers.

We're planning on featuring an "Ask the Expert Forum" and interviews with Springer authors in the near future.

**Can you please join and encourage your grad students to as well?**

Please visit <http://www.myMEMSpace.com> to join.

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If you need to speak to a live person try emailing [keith.rebello@jhuapl.edu](mailto:keith.rebello@jhuapl.edu).