



Mid-Atlantic MEMS Alliance Mission Statement:

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

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MEMS Alliance Mid Atlantic and Microsystems Monthly align with TEDCO



MEMS ALLIANCE MID ATLANTIC will include TEDCO highlights in future issues of **Microsystems Monthly**. These will include announcements of general interest to the Mid Atlantic Regions Microsystems communities ranging from funding opportunities to upcoming TEDCO Lab Showcases. TEDCO is the Maryland Technology Development Corporation and its role is to be Maryland's leading source of funding for seed capital and entrepreneurial business assistance for the development, transfer and commercialization of technology.

About TEDCO

Support transferring to the private sector and commercializing the results and products of scientific research and development conducted by colleges and universities and the federal laboratories in the State of Maryland.

Assist in the commercialization of technology developed in the private sector.

Foster the commercialization of research and development to create and sustain businesses throughout all regions of the State.

Promote entrepreneurship and the creation of jobs in technology-related industry by establishing and supporting effective business incubators throughout the State that provide adequate physical space and programs to increase or accelerate business success in the field of technology. (continued page 3)

Chairperson's Notes——

Studies of Research and Development projects in both software and hardware consistently identify schedule and cost underestimation as a leading factor in project failure. As researchers, it's in our nature to be optimistic, and optimism is often rewarded when research proposals are evaluated or buy-in from management is sought. The question, then, is how we can maintain significant and ambitious research plans and project scopes, while maintaining adequate realism to actually achieve the stated goals. Often, the secret lies in effective partnering, with each investigator drawing upon past experience to assign resources appropriately in the planning stages, and then marshalling expertise to carry out the project goals efficiently. Efficient division of labor in this way is obvious when we think in terms of large projects like bridge building, yet it's amazing how often we see a Microsystems researcher reinventing the wheel or working outside of his or her technical sweet spot because adequate thought has not been given to effective partnering.

A goal of the Mid-Atlantic Microsystems Alliance is to foster collaborations among those interested in sensor, actuator, and instrument miniaturization in the Mid-Atlantic area. In keeping with this theme, our newsletter editor Ann Darrin has been compiling and publishing calls for proposals each month. To take this one step further, and to insure that folks are hearing about potential funding sources and areas for collaborations, Ann is willing to send out an email blast when there is a short lead-time funding opportunity in the Micro- or Nano- areas. If you would like to receive this blast (this will not be a source of spam- we are anticipating only a few of these emailed announcements per year), please drop a line to Ann at ann.darrin@jhuapl.edu. Depending upon interest and frequency, we may consider posting such opportunities on our web site, in addition to the email blast. This would give people a place "user group" in which to post and explore possible partnerships.

Finally, don't forget to mark your calendars for the 10th Annual Symposium, "Micro- and Nano- Technology in the Green Revolution: Energy and Environmental Sensing", Monday November 30, 2009 at Georgetown University. More information will be posted on the web site as it becomes available. (www.mems-alliance.org.) The Steering Committee is still compiling its list of speakers; please send appropriate invited speaker ideas to brianj@sbmicrosystems.us.

Best regards,



Brian Jamieson

Mid-Atlantic MEMS Alliance Steering Committee
Chair

American Recovery and Reinvestment Act

Recovery Act Measurement Science and Engineering Research Grants Program: Providing the Technology Infrastructure to Address National Priorities.

The U.S. Department of Commerce, National Institute of Standards and Technology, announces the availability of up to \$35 million to award approximately 20-60 grants and cooperative agreements in support of measurement science and engineering research as part of NIST's activities through the American Recovery and Reinvestment Act of 2009 (Recovery Act).

Proposals will be considered that address measurement science and engineering research needs in areas of national importance.

These areas of national importance are energy, environment and climate change, information technology/cybersecurity, biosciences/healthcare, manufacturing, and physical infrastructure. These grants will support NIST's mission to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life. Watch the web site if interested. **Currently only the synopsis is posted but once the full announcement is posted you will only have 30 days...so PLAN NOW** <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=46063>

JOHNS HOPKINS **NanoBio Symposium**

**NANOSCIENCE FOR
NEUROSCIENCE &
NEUROSURGERY**

May 18, 2009
Johns Hopkins School of Medicine

<http://inbt.jhu.edu/symposium/>

About TEDCO

Two “Hot dates” Mark your calendar

May 8th

Funding Briefings: TEDCO hosts briefings to educate companies on TEDCO

A other state funding programs to help develop, transfer and commercialize technology from Maryland universities and federal laboratories to the Maryland marketplace. A session will be held at TEDCO’s office

in Columbia from 2– 3:30 on May 8th. The briefing is free, however registration is required. To register, go to the TEDCO “Calendar of Events” page of the website www.marylandtedco.org , click on “May 8” and then “TEDCO Funding Briefing” and follow further directions.

June 25th

Showcase: Naval Surface Warfare Center (NSWC) Technology Transfer Showcase

SAVE-THE-DATE

Indian Head, Maryland

CONTACT TEDCO at:

Maryland Technology Development Corporation (TEDCO)

5565 Sterrett Place Suite 214, Columbia, Maryland 21044

(410) 740-9442, fax (410) 740-9422

MEMS Alliance Fall Symposium

MEMS, Nano and Microsystems in the Green RevolutionThis conference will feature explore the role that micro– and nano– technology will play a role in the development of “green” solutions to environmental and energy issues. A :”Stone Soup” problem solving session will link industry and government needs with technology solutions. There will be a poster session with a student award for best presentation. Washington DC November 30, 2009. www.mems-alliance.org

TRANSDUCERS 2009

2009 International Solid-State Sensors, Actuators and Microsystems Conference

The conference will feature four days of presentations and posters highlighting the latest and most technically advanced work in mechanical, optical, chemical, and biological devices and systems using micro- and nano-technology. Jun 21-25, 2009 Sheraton Denver Hotel Denver

Optical MEMS and Nanophotonics 2009

Clearwater Beach, Florida | 16-20 August 2009 Abstract deadline: May 1, 2009

<http://www.ieee.org/organizations/society/leos/LEOSCONF/MEMS2009/>

PowerMEMS 2009

The 9th International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications Washington DC Dec 1-4, 2009 www.powermems.org.

May 19-21 SAMPE in Baltimore this YEAR

<http://www.sampe.org/events/Baltimore09ConferenceProgram.aspx> **FREE passes to Exhibitor events available at embedded site** <http://www.sampe.org/events/2009Baltimore.aspx>

Local Interest

State Science and technology Institute (national organization)

SSTI Excellence in TBED Awards - Each year, SSTI recognizes initiatives that greatly impact state and regional economies through a national competition showcasing effective and innovative approaches to building tech-based economies. Deadline: 16 June 2009

More info can be found at:

<http://www.ssti.org/>

PROCUREMENT/PROPOSAL OPPORTUNITIES

May 1, 2009

Classification: Research and Development

Type: Procurement

Subtype: Services

Agency: Department of the Navy. Office of Naval Research. ONR. CODE ONR-02875 North Randolph St. Suite 1425 Arlington VA 22203-1995

Title: ELECTRONICS TECHNOLOGY

COS Bookmark URL: <http://cbd.cos.com/cgi-bin/getRec?id=20090320a6>

Synopsis:

Solicitation Number: ONRBAA09-020**Due:** 06/26/09 **Point of Contact:** Lynn L Christian, Senior Contract Specialist, Phone (703) 696-1575, Fax (703) 696-0066, Email christl@onr.navy.mil - Vera G Carroll, Branch Head ONR Code 253, Phone 703-696-2610, Email carrolv@onr.navy.mil The Office of Naval Research (ONR) is interested in receiving proposals for efforts that aim to develop and demonstrate science and technology for the next generation (2010 - 2013) electronics devices under the following focus area: Wideband, Low Noise, Interference-Tolerant Receiver Component and Chain Development for Dense Signal Environments

POSITION OPENINGS IN THE AREA

System Planning Corporation Arlington, VA 22201 **MEMS Scientist**

System Planning Corporation is pleased to announce an opening for a full-time Science, Engineering and Technical Assistance (SETA) supporter in the field of Electrical Engineering. The position will primarily support Defense Advanced Research Projects Agency (DARPA) program managers from the Microsystems Technology Office (MTO). The successful candidate will:

- Have at least a Masters degree in Electrical Engineering or a very closely related field – the degree should be awarded no later than May of 2009.

- 1 Be willing to relocate to the Metropolitan Washington, DC area.
- 2 Be available for travel within the United States for a minimum of one trip a month
- 3 Have, or be eligible for, at least a Secret security clearance
- 4 Have experience in NEMS/MEMS systems such as:

- Sensors and actuators

- 1 Micro-instrumentation and microfluidics
- 2 Micro-antennas, circuits and mechanical resonators for signal processing.

[JHUAPL Microelectronics Packaging / Assembly Engineer](http://www.jhuapl.edu) www.jhuapl.edu

MEMS Business Development and Marketing Manager

[MEMS and Nanotechnology Exchange](http://www.mems-exchange.org)

[Microfabrication Engineer / Technician](http://www.mems-exchange.org) MEMS and Nanotechnology Exchange (Reston, Virginia) Phone: 703-262-5368 Fax: 703-262-5367 <http://www.mems-exchange.org/>

IEEE-USA Stimulus Webpage -

The American Recovery and Reinvestment Act (ARRA) (Public Law 111-8) appropriates significant federal funding for technology-related programs in areas identified by IEEE-USA as being of high priority for strengthening the nation's innovation infrastructure and ensuring its long-term economic competitiveness. To stimulate the economy, funds are being distributed as quickly as possible, using existing federal programs as funding outlets where possible. This webpage provides information and links on these funding opportunities as a resource for IEEE members and their companies. Additional information is available on-line at Recovery.Gov. Members should also look to funds distributed through their respective state governments.

Ann Darrin and Robert Osiander to co chair a Special Session on MEMS in Aerospace Applications at: 2010 IEEE Aerospace Conference AIAA -March 6–13, 2010 Big Sky, Montana

Call for Papers

Abstract (300-500 words) due: July 1, 2009

Draft paper (6–20 pages) deadline: November 1, 2009

Reviewed paper returned to author: November 13, 2009

Final paper deadline: January 4, 2010

All submissions are electronic at: www.aeroconf.org

TECHNICAL PROGRAM

This Call invites submission of papers reporting original work or state-of-the-art reviews that enhance knowledge of: (1) MEMS in aerospace systems, science, and technology; The Conference promotes interdisciplinary understanding of aerospace systems, their underlying science and technology, and their applications to government and commercial endeavors. Attendees enjoy exceptional access to authors and invited speakers in a setting ideal for developing lasting relationships benefiting participants, their organizations, and the engineering, scientific, and aerospace communities.



MEMS ALLIANCE Steering Committee Member and Herbert Rabin Distinguished Associate Professor at UMD Rez a Ghodssi was featured in a cover story in the April 2009 issue of *Mechanical Engineering* magazine. The piece focuses on Ghodssi's research on microscale ball bearings for use in micromachines and Micro-Electro-Mechanical Systems (MEMS) devices. Ghodssi explains that ball bearings are crucial in the design of MEMS devices in order to minimize friction and to increase the reliability of the devices.

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subject UNSUBSCRIBE

If you need to speak to a live person try emailing ann.darrin@jhuapl.edu.