September 8 & 9, 2009

Bob Jones Auditorium at the Sparkman Center

Redstone Arsenal, AL





Objective

The objective of this workshop is to identify NEMS/MEMS technologies that may be applied to DoD weapon system platforms. Specific interests for this workshop are in developing state-of-the-art radar devices, and navigation and control devices that can be transitioned to aviation, missile and other DoD weapon system platforms.

The TIP number for this program is F94WREN.

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The steering committee for the Workshop on the Research & Evaluation of NEMS/MEMS is soliciting abstracts in the following areas:

- · NEMS/MEMS for Military and Space Applications
- · NEMS/MEMS Packaging, Reliability, and Metrology
- · NEMS/MEMS Devices and Applications

Abstracts are due June 1, 2009.

This workshop is UNCLASSIFIED / ITAR RESTRICTED.

Attendance is limited to US Citizens only. Abstracts must be UNCLASSIFIED. Submissions should target one or more of the topic areas listed. Abstracts should clearly express the objective, scope, and conclusions of the presentation. It should be kept between 250-500 words. Potential presenters should prepare for a twenty minute presentation, with a five minute question/answer time immediately following each presentation. Abstracts will undergo a peer review selection, and all submitters will be notified of the selection results. Please address any administrative questions to <u>Angie Cornelius</u>.

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Submission Information

(The following must be included with all abstract submissions.)

- ♦ Title of Author (Dr., Mr., Ms., Mrs., Prof., Rank, etc.)
- ♦ Author Full Name
- ♦ Paper Title
- ♦ Author Company/ Organization
- ♦ Author Phone & Fax
- ♦ Author Email
- ♦ Presenter Name & Organization, if different from author
- ♦ POC Phone & POC Email
- ♦ Co-Author(s) (Include Full Name and Company/ Organization)

How to Submit Your Abstract

Electronic submission is required by June 1, 2009. All abstracts must include complete submission information as listed above. All abstracts must be UNCLASSIFIED. Please email your abstract & submission information to Angie Cornelius.

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Tentative Agenda

Tuesday, September 8, 2009

7:30-8:00	Sign in
8:00-8:10	Welcome / Keynote Speaker Introduction
8:10-9:10 Polla	Keynote Address: N/MEMS – Building the Future from the Inside Out
	DARPA
9:10-9:20	Break

Session 1: MEMS for Military and Space Applications - Radar, Seekers, and Communications Session Chair: Mr. Joel Booth, US Army AMRDEC

9:20-9:45 Hyman	
9:45-10:1 Protz	O A MEMS Fabrication Approach for Terahertz and Submillimeter-Wave KlystronsDr. Jonathan Duke University
10:10- Newgard	10:35 RF MEMS for Future Military Weapons Systems
10:35-10:45	Break
10:45-11:10 Temmen AMRDEC	Adhesive Wafer Bonding Using Photo-Definable Polyimide for MEMS Device IntegrationMr. Mark G. US Army
11:10-1	1:35 PiezoMEMS at ARL: Applications for Communications, Radar, and mm-Scale RoboticsMr. Jeffrey S. Pulskamp ARL

11:35-12:05 DISCUSSION SESSION, Facilitator TBD

12:05-13:00 LUNCH

Session 2: MEMS for Military and Space Applications - Inertial

Session Chair: Mr. Gregory Reynolds, US Army AMRDEC

13:00-13: Cardarelli	25 Bias-Stabilized MEMS IMU Sensor Chip	Dr. Dan MilliSensor Systems & Actuators, Inc
13:25-13:50 Dillard	Enhancing Navigation-Grade MEMS Inertial Sensors through Force Balancing	Mr. Bill Archangel

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	Systems, mc.
13:50-14:15 MEMS Inertial Sensors: Existing Applications and Future Needs	Mr. Anthony C.S. Draper Laboratory
14:15-14:25 Break	
14:25-14:50 Accurate Real Time Inertial Measurement by Application a of	and Processing of Arrays
MEMS Inertial Sensors	Mr. Martin enhaus and Associates, Inc.
	· ·
14:50-15:15 MEMS Electro-Optical Accelerometer Development for Navigation and Space Appl Chisum	Lumedyne Technologies Inc.
15:15-15:40 MEMS Development for DoD Applications	Dr. Barry Honeywell Defense and Space
15:40-15:50 Break	
15:50-16:15 Velocity Sensor Assisted Micro Inertial Measurement	Dr. Tamal
Mukherjee	Carnegie Mellon University
16:15-16:40 Guidance, Navigation and Control Challenges for NEMS/MEMS and Beyond LeFevre	Dr. Vicki C. US Army AMRDEC
16:40-17:10 DISCUSSION SESSION, Facilitator TBD	
Wednesday, September 9, 2009	
7:30-8:00 Sign in	
8:00-8:10 Welcome	
Session 3: MEMS for Military and Space Applications – Early Warning Senso Session Chair: Ms. Michelle Chaffin, US Army AMRDEC 8:05-8:30 Microfabrication of Cylindrical Ion Trap Mass Spectrometer Arrays	•
Bumgarner	SRI International
8:30-8:55 Wireless MEMS Strain Sensing Technology for Military Applications Young	Prof. Darrin Case Western Reserve University
8:55-9:20 MEMS Acoustic Wave Chemical Sensors and MEMS Chemical Preconcentrators Starman	MAJ LaVern A. The Air Force Institute of Technology
9:50-10:00 DISCUSSION SESSION, Facilitator TBD	
Session 4: NEMS / MEMS Devices and Applications Session Chair: Mr. Brian Grantham, US Army AMRDEC	
10:00-10:25 A 16-Element, Ka-band, MEMS-based, Linear Phased ArrayRock	Ms. Janice C. US Army AMRDEC
10:25-10:50 Cell Transfection, Particle Delivery and Imaging by Micro-Shockwave De	viceDr. Keshab Gangopadhyay University of Missouri
10:50-11:15 Microthruster Application with Novel Nanothermite Composites	Mr. Steve NEMS / MEMS Works, LLC.
11:15-12:15 LUNCH	
12:15-12:40 Simulating NEMS / MEMS Manufacturability, Performance, and Reliability	Mr. Steven Groothuis SimuTech Group
12:40-13:05 Correlation of NEMS / MEMS Intellectual	•
with Commercial Device Applications	Dr. Russ

Alexander	US Army AMRDEC
13:05-13:30 Thermal Metamaterials Design, Layout, and Modeling Roman	Mr. Calvin The Air Force Institute of Technology
13:30-13:55 A MEMS Multi-Cantilever Variable Capacitor on Metamaterial Starman	
13:55-14:05 Break	
14:05-14:30 MEMS Safe and Arming Device	2LT Robert A. The Air Force Institute of Technology
14:30-14:55 MEMS Anti-Tamper Device Analysis	CAPT Michael J. The Air Force Institute of Technology
14:55-15:20 High Temperature Direct Shear Stress and Pressure Sensors	Dr. Benjamin Interdisciplinary Consulting Corporation
15:20-15:45 Reliability CharacterizationTesting of Low Cost MEMS Devices Kudiya	Mr. Abdul US Army AMRDEC
15:45-16:15 DISCUSSION SESSION	
16:15-16:25 Workshop Wrap-Up	

FOR MORE INFORMATION REGARDING THIS WORKSHOP, PLEASE VISIT OUR WEBSITE AT: http://smapcenter.uah.edu/SMAP-CENTER/Conferences/RENM09/index.htm

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Registration

To register for this conference, click the link below.

NEMS/MEMS Registration

Fill in the information and click submit, or print the form and fax it to Angie Cornelius.

Fax: (256) 876-6421

Adobe Acrobat Reader is required to view this form.

This can be downloaded at Abode.

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Attendance Requirements

There are no attendance fees for this workshop. The workshop is open to US Government and DoD contractors. Attendance is limited to U.S. CITIZENS ONLY.

ALL ATTENDEES MUST PRESENT PROOF OF CITIZENSHIP AT THE WORKSHOP.

PROOF OF CITIZENSHIP IS EITHER YOUR:

- ·PASSPORT; or
- ·CERTIFIED BIRTH CERTIFICATE AND PHOTO ID; or
- ·U.S. GOVERNMENT ARSENAL / CAC Card; or
- ·CERTIFICATE OF NATURALIZATION AND PHOTO ID; or
- *VISIT REQUEST (FAXED PRIOR TO WORKSHOP) & PHOTO ID.

**THIS WORKSHOP IS UNCLASSIFIED, HOWEVER, A VR CONFIRMS YOUR CITIZENSHIP. A FORM OR OFFICIAL LETTER FAXED FROM YOUR SECURITY OFFICE PRIOR TO WORKSHOP WILL SUFFICE, POC: ANGIE CORNELIUS, FAX: 256-876-6421.

Non-Government personnel planning to attend this workshop must provide a copy of a properly executed DoD Form 2345,

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"Militarily Critical Technical Data Agreement," authorizing their organization access to export controlled material, in addition to the requirements listed above. Those unfamiliar with the procedure of DoD 2345 may contact the Defense Logistics Information Service (DLIS) at 1-800-352-3572 for assistance or visit the following website:

http://www.dlis.dla.mil/JCP/forms/DD2345Form.pdf

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Redstone Arsenal Access:

Individuals who do not have an access to get in the gates at Redstone Arsenal must go through the Visitor Center to obtain a pass. The Visitor Center is located at gate 9 at Research Park Boulevard.

Map of Redstone Arsenal

Map of Huntsville

Area Hotels:

Westin Hotels & Resort: At the Bridge Street Town Centre

6800

Governor's West. (256)428-2000

King-159.00+tax Government Rate-109.00+tax Double-159.00+tax Government Rate-109.00+tax

Best Western: 6200 Torok Circle (256)837-7412 King-85.00+tax Government Rate-80.00+tax Double-85.00+tax Government Rate 80.00+tax

Country Inn and Suites: 4880 University Dr (256)837-4070 King-92.65+tax Government Rate-84.00+tax

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Queen Suite-119.00+tax Government Rate 84.00+tax

Courtyard by Marriot: 4804 University Dr (256)837-1400

King-134.00.00+tax Government Rate-84.00+tax Government Rate 84.00+tax

Holiday Inn: 5903 University Dr 256)830-0600 King-102.00+tax Government Rate-94.00+tax Double-102.00+tax Government Rate 94.00+tax

Holiday Inn Express: 3808 University Dr 256)721-1000 Double-85.00+tax Government Rate 84.00+tax

Marriot Hotel: 5 Tranquility Base256)830-2222 King and Concierge-179.00+tax Corporate King and Double-169.00+tax

Near Gate 1:

Radisson Hotel: 6000 Memorial Parkway South (256)882-9400

Single-109.00+tax Government Rate-84.00+tax
Double-109.00+tax Government Rate 84.00+tax

Hampton Inn: 501 Boulevard South (256)882-2228
Single-95.00+tax Government Rate-84.00+tax
Double-89.00+tax Government Rate 84.00+tax

Downtown Huntsville:

Embassy Suites: 800 Monroe St (256)539-7373 King-169.00+tax Government Rate-139.00+tax Double-169.00+tax Government Rate 139.00+tax

Hotel reservations are the responsibility of the conference participant(s). These are only suggested hotels and there are several more to choose from in the area. If you would like to see more hotels in the area, please visit http://www.huntsville.org/visitors/stay/.

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Administrative Points of Contact:

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Conferences & Workshops Archives

Conference/ Workshop	Date of Event	Link to Details
High Efficiency Energy Conversion, Energy Management, and Low Power Systems for Areospace/Military Electronics Workshop	September 14-15 2010	Go to website
Workshop on the Research & Evaluation of NEMS/MEMS	8-9 Sept. 2009	Go to website
12th DoD Electromagnetic Windows Symposium	April 28-May 1 2008	Go to website
Algorithms for Autonomous & Aided Target Recognition Workshop	6-8 June 2007	Go to website
Reconfigurable Systems, Microsystems, and Nanotechnology Workshop	8-9 May 2007	Go to website
Metamaterials and Nonlinear Materials Conference	4-5 April 2007	Go to website
Common Simulation Framework Users Group	Aug. 31-Sept. 1 2005	Go to website
Radio Frequency Module Manufacturing Workshop	23-24 Aug. 2005	Go to website
Collaborative Engineering Environments	2-3 March 2005	Go to website
The Nano and Microsystems Technology and Metrology Workshop	17-18 Nov. 2004	Go to website
The Coupling of Target Resources for Weapon Guidance	6-7 Oct. 2004	Go to website
Tri-Service Symposium on the Advancements in Heatshield Technology	14-17 Sep. 2004	Go to website
Tactical Battlefield Communications for Missiles, Rotorcraft, and Unmanned Vehicles	23 March 2004	Go to website
Nano and Microsystems Technology and Metrology Workshop	4-5 Dec 2002	Go to website
Lean Manufacturing Workshop	20-21 Nov. 2002	Go to website
Life Cycle Systems Engineering Workshop	6-7 Nov. 2002	Go to website
Detection and Classification of Difficult Targets	25-26 Sep. 2002	Go to website
Advances in Laser Technology and Applications	21-22 Aug. 2002	Go to website
DoD Electromagnetic Windows Symposium	13-16 May 2002	Go to website

Advancements in Heat Shield Technology	16-18 April 2002	Go to website
Diminishing Manufacturing Sources and Material Shortages	25-28 March 2002	Go to website
Workshop on Multi/Hyperspectral Technology and Applications	5-7 Feb. 2002	Go to website
Workshop on Microsystems Technology and Applications	11-12 July 2001	Go to website
DMSMS 2001	3 May 2001	Go to website
Precision Guidance of Small Diameter Missiles	25-26 April 2001	Go to website
Optics Manufacturing for Dual-Use	14-15 Feb. 2001	Go to website
Multi/Hyperspectral Sensors, Measurements, , Modeling, and Simulation	7-9 Nov. 2000	Go to website
Advances in Navigation Guidance and Control Technology	1-2 Nov. 2000	Go to website
DMSMS 2000	21-24 Aug. 2000	Go to website
Life Cycle Software Engineering Technology	16 Aug. 2000	Go to website
Beamforming Technology and Applications	26-27 July 2000	Go to website
Nanoscience for High Performance Computing in Embedded Systems and	17-19 May 2000	Go to website
\$ৰণ্ডefsice Sponsored Symposium on Advances in Heatshield Technology	10-11 May 2000	Go to website
Affordability and Cost Reduction for Radar Systems	5-6 April 2000	Go to website
DMSMS 1999 Workshop	14 Oct. 1999	Go to website
Photonics Materials 1999	6, 7 Oct. 1999	Go to website
National Conference on the Advancement of Research	26-29 Sept. 1999	Go to website
Hyperspectral/Multispectal 1999	7-9 Sept. 1999	Go to website
Total Cost of Ownership Reduction Initiatives Workshop	27-28 July 1999	Go to website
Data Compression	2, 3 Dec. 1998	Go to website
Detection and Classification of Difficult Targets	9 June 1998	Go to website
Precision Guidance of Small Diameter Weapons	3, 4 March 1998	Go to website
Masked Target Detection	2-4 Dec. 1997	Go to website
Life Cycle Systems Engineering	4, 5 Nov. 1997	Go to website

