

AGENDA | 8th Annual Next Generation Materials for Defense
December 8 - 10, 2008 • Hilton Arlington • Arlington, VA

Monday, December 8, 2008 • Advanced Materials Applications Focus Day	
8:00	REGISTRATION & COFFEE
9:00 – 12:00	<p>NANOTECHNOLOGY: THE EVOLUTION OF NANOSTRUCTURES FROM SCIENCE DISCOVERY INTO INNOVATIVE TECHNOLOGY</p> <p>James Murday, Director of Physical Sciences Office of Research Advancement, University of Southern California</p>
12:00 – 12:45	LUNCH
12:45 – 2:45	<p>CERAMICS AND COMPOSITE MATERIALS RESEARCH</p> <p>Dr. Bazel Gama, Ph.D. University of Delaware</p>
3:00 – 5:00	<p>EFFECTS OF CARBON NANOTUBE STRUCTURE ON CARBON NANOTUBE FILAMENTS</p> <p>Dr. Bob Welch, Director, Shock and Vibration information Analysis Center US AERDC</p>

AGENDA | 8th Annual Next Generation Materials for Defense
 December 8 - 10, 2008 • Hilton Arlington • Arlington, VA

Tuesday, December 9, 2008 • MAIN SUMMIT DAY ONE

7:45	REGISTRATION & COFFEE
8:15	WELCOME & OPENING REMARKS BY CHAIRPERSON
8:40	OPENING KEYNOTE: MEASUREMENT AND STANDARDS NEEDS FOR ADVANCED MATERIALS Dr. Debra Kaiser, Division Chief, Ceramics Division National Institute of Science and Technology (NIST)
9:20	NRL MATERIALS ENGINEERING: NRL MATERIALS EFFORTS Debra Rollison, Section Head Naval Research Lab
10:00	NETWORKING BREAK
10:45	STRENGTH & ARMOR: ADVANCED MATERIALS FOR VEHICLES Professor Pradeep Rohatgi, PhD, Director, Center for Composite Materials University of Wisconsin-Milwaukee
11:25	NDU EFFORTS AND MATERIALS APPLICATION Dr. Jerry Abbott, Industrial College of the Armed Forces National Defense University
12:05	LUNCH
1:10	CERAMIC MATERIALS: UDEL RESEARCH: COMPOSITES TO CERAMICS Dr. Bazle Gama, PhD University of Delaware
1:50	CERAMIC MATERIALS: CERAMIC MATERIALS INTEGRATION, DEVELOPMENT, AND APPLICATION Robert Speyer, PhD Georgia Institute of Technology Materials Science and Engineering
2:30	REFRESHMENT & NETWORKING BREAK

AGENDA | 8th Annual Next Generation Materials for Defense
 December 8 - 10, 2008 • Hilton Arlington • Arlington, VA

3:00	<p>STRENGTH & ARMOR: CARBON NANOTUBE (CNT) BASED SUPER MATERIALS - POTENTIAL FOR IMPACT FOR STRUCTURAL HARDENING</p> <p>Bob Welch, PhD, <i>Director, Shock and Vibration Information Analysis Center, Information Technology Laboratory US Army Engineer Research and Development Center</i></p>
3:40	<p>MATERIALS DEVELOPMENT AND APPLICATION</p> <p>Mr. Christopher Grethlein, <i>Deputy Director Advanced Materials Alion Science and Technology</i></p>
4:20	<p>MATERIALS DESIGN AND CHARACTERIZATION ISSUES IN ARMOR APPLICATIONS</p> <p>Dr. Nikhil Gupta, PhD, <i>Assistant Professor, Mechanical Engineering Department NYU</i></p>
5:00	END OF DAY ONE

Wednesday, December 10, 2008 • MAIN SUMMIT DAY TWO

7:45	REGISTRATION & COFFEE
8:15	WELCOME & OPENING REMARKS BY CHAIRPERSON
8:40	<p>NASA OPENING KEYNOTE: AEROSPACE MATERIALS R&D, AND MATERIALS APPLICATIONS</p> <p>Michael A. Meador, PhD, <i>Chief, Polymers Branch, Structures and Materials Division NASA</i></p>
9:20	<p>USMC MATERIALS S&T</p> <p>James Lasswell, <i>Technical Director & Head, Office of Science and Technology US Marine Corps</i></p>
10:00	NETWORKING BREAK
10:45	<p>NANOMATERIALS UPDATE AND APPLICATION</p> <p>Mike Roco, <i>Senior Advisor for Nanotechnology National Science Foundation</i></p>
11:25	<p>NANOMATERIALS APPLICATION AND EVOLUTION</p> <p>Dr. James Murday, <i>Director of Physical Sciences, Office of Research Advancement University of Southern California</i></p>

AGENDA | 8th Annual Next Generation Materials for Defense
December 8 - 10, 2008 • Hilton Arlington • Arlington, VA

12:05	LUNCH
1:10	TOWN HALL DISCUSSION Mike Roco, Senior Advisor for Nanotechnology National Science Foundation
1:50	MATERIALS DEVELOPMENT AND RESEARCH AT VIRGINIA TECH Alex O. Aning, Associate Professor, MSE Department Virginia Tech
2:30	NETWORKING BREAK
3:00	ORNL MATERIALS DEVELOPMENT TECH Mike Simonsen Center for Nanophase Materials Sciences Oak Ridge National Laboratory
3:40	CLOSING CONFERENCE KEYNOTE NIST SPEAKER TBD -
4:20	END OF MAIN SUMMIT