49th TRIAD Annual Spring Meeting
Huntsville, AL
May 27, 2010

Thursday, May 27, 2010

LEGISLATIVE UPDATE
- Ms. Linda Hilmer, Chair, Legislative Committee; President, CorpComm, Inc.

NASA UPDATE
- Mr. David Brock, Small Business Specialist, U.S. National Aeronautics and Space Administration

TOPICS FOR SMALL BUSINESS
- Ms. Joan Robinson-Berry, The Boeing Company

HBCUS – ROLES – SUBCONTRACTING/MENTOR PROTEGE
- Dr. Daryush Ila, Executive Director for Alabama A&M University Research Institute

ALLIANCE OF SUPPLIER DIVERSITY PROFESSIONALS
- Ms. Lisa Barr, ASDP Treasurer

Salute to Murray Schnooner
Presentations from the Spring TRIAD will be available to download 1-2 weeks after the conference at http://www.dtic.mil/ndia/2010TRIAD/2010TRIAD.html.
Ms. Mitzi Whittenburg, CPM

BAE Systems, Land & Armaments U.S. Combat Systems (USCS)

Mitzi Whittenburg, C.P.M. is a Sr. Supplier Diversity Representative for BAE Systems, Land & Armaments – US Combat Systems (USCS). She coordinates the implementation and monitoring of Small Business supplier diversity initiatives to expand the company base of, and expenditures to, small and small diverse businesses. She also serves as a focal point to market USCS to the diverse supply base, customer base, and acts as a subject matter expert to internal organizations such as Procurement, Program Management & Engineering.

As part of the Office of Small Business Programs the Department of Defense Mentor-Protégé Program encourages defense contractors to mentor small businesses that supply to the DoD. Mitzi was instrumental in obtaining approval from the Office of the Under Secretary of Defense Acquisition, Technology and Logistics for BAE Systems, U.S. Combat Systems to participate in the program as a mentor. She also initiated and manages the first Mentor-Protégé Agreement for USCS which provides mentoring services to a small Native American woman-owned business in College Station, TX that is a force protection product developer. This agreement was recently honored with a prestigious DoD Nunn-Perry Award for outstanding and successful mentor-protégé relationships.

Mitzi has extensive procurement related experience with companies such as Cargill, Northwest Airlines, GE and American Airlines. She holds MBAs in Financial Planning and Acquisition & Government Contracts from the University of Dallas, an undergraduate degree from Texas Christian University, a paralegal certificate from the University of Texas at Arlington and an associate’s certificate in contract management from ESI / George Washington University.

Mitzi moved to York, PA two and a half years ago from Minneapolis, MN. She is married and has two school-age daughters adopted from Russia.
Alliance of Supplier Diversity Professionals, Inc.

http://www.asdp.us

Lisa Barr, ASDP Treasurer
May 2010
lbarr@drs-ts.com
Mission Statement:

Provide a forum for Supplier Diversity Professionals to:

- Support Professional Certification Program
- Exchange Information
- Increase Professional Development
- Enhance customer relations
- Influence Legislation

Thereby effecting positive growth to our individual Supplier Diversity Programs.
Vision:

To become a nationally recognized training, certification and professional organization with a standardized body of knowledge which encompasses all aspects of Supplier Diversity.
Professional Education Courses

SD100  Introduction to Supplier Diversity
SD101  Subcontracting Plans  Part I & II
SD102  Customer/Management Reporting
SD201  Customer Review (Audit)
SD202  Mentor-Protégé Program Part I & II
SD204  Sourcing Strategies

Certification Exam
2010 – 2011
ASDP Officers and Committee Leads

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Don’t Delay
Your Professional Development . . .

Join ASDP Today!

http://www.asdp.us
877-405-6565

Communicate with Officers:

President Greg Satoro 713-235-9357
VP Phyllis Grant 407-306-6904
Secretary Suzanne Raheb 407-625-6513
Treasurer Lisa Barr 321-727-3672 x3034
TRI-ASSOCIATION SMALL BUSINESS ADVISORY PANEL MEETING

DOING BUSINESS WITH NASA

Presented By:
David E. Brock

May 27, 2010
Four Mission Directorates and Ten Centers

- **Space Operations**
  - Johnson Space Center
  - Marshall Space Flight Center
  - Kennedy Space Center
  - Stennis Space Center

- **Aeronautics**
  - Langley Research Center
  - Glenn Research Center
  - Dryden Flight Research Center

- **Science**
  - Goddard Space Flight Center
  - Ames Research Center
  - Jet Propulsion Laboratory (JPL)-Cal Tech

- **Exploration Systems**
  - Various
<table>
<thead>
<tr>
<th>Center</th>
<th>Mission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ames Research Center</td>
<td>Aerospace &amp; Small Spacecraft</td>
</tr>
<tr>
<td>Dryden Flight Research Center</td>
<td>Atmospheric Research &amp; Testing</td>
</tr>
<tr>
<td>Glenn Research Center</td>
<td>Aeronautics &amp; Spacecraft Technology</td>
</tr>
<tr>
<td>Goddard Space Flight Center</td>
<td>Science Missions &amp; Telescopes</td>
</tr>
<tr>
<td>Jet Propulsion Laboratory</td>
<td>Deep Space Robotic Rovers &amp; Networks</td>
</tr>
<tr>
<td>Johnson Space Flight Center</td>
<td>Operations</td>
</tr>
<tr>
<td>Kennedy Space Center</td>
<td>Shuttle Launch &amp; Landing</td>
</tr>
<tr>
<td>Langley Research Center</td>
<td>Aviation &amp; Space Research</td>
</tr>
<tr>
<td>Marshall Space Flight Center</td>
<td>Space Transportation, Systems &amp; Selected Science</td>
</tr>
<tr>
<td>Stennis Space Center</td>
<td>Shuttle Engine Testing</td>
</tr>
</tbody>
</table>
The world’s first reusable spacecraft in history that can carry large satellites both to and from orbit.

Launches like a rocket, maneuvers in Earth orbit like a spacecraft and lands like an airplane.

Orbits the earth at 115 to 400 statute miles with a velocity of over 17,321 mph.

The most reliable launch record of any rocket now in operation. Since 1981, it has boosted more than 1.36 million kilograms (3 million pounds) of cargo into orbit. More than 600 crew members have flown on its missions.
International Space Station Program

- Altitude: ~200 miles above earth
- Velocity: 17,240 mph, completing 15.7 orbits per day
- Joint project between United States (USA), Russia (RKA), Japan (JAXA), Canada (CSA), and several European countries (ESA), and Brazil (AEB)
- World-class research platform for biomedical, biotechnology, fluid physics, material science, quantum physics, astronomy, and meteorology
- Permanently manned since Nov. 2, 2000. Visited by over 137 people to date.
Center Autonomy

- Have individual Industry Assistance Offices
- Have dedicated Small Business Specialists(s)
- Engage in outreach efforts
- Do procurements independently of other Centers
<table>
<thead>
<tr>
<th>NASA Center</th>
<th>SBS</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
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<td>Contact</td>
<td>Title</td>
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<tr>
<td>Categories</td>
<td>Government % Goals</td>
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<td>3.00%</td>
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<td>$ 212,384,951</td>
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Dated May 18, 2009

Provides model clause and provision language to ensure the proper evaluation of small business utilization under competitive negotiated acquisitions
Proposed Changes to the Provisions

● Small Business Utilization Subfactor and Evaluation Tool
  ➢ Subcontracting plans
  ➢ Commitment to SB
  ➢ SDB Participation

● History of meeting subcontracting goals moved to Factor on Past Performance

● Commitment to Small Business
  ➢ Combining to “stand alone” element
  ➢ Streamlining items

● Explains “fit” with small business offerors
  ➢ Small Business Primes are evaluated
● Dated May 29, 2000

● This PN is a result of a study of NASA’s Mentor-Protégé program. The changes streamline the program; align the mentoring to technical skills; expand the program to Veteran-owned, HUBZone, and NASA Small Business Innovation Research (SBIR) Phase II small businesses; and include award fee incentives.
● NASA Far Supplement created the Pilot Program for SBIR Phase II companies on May 29, 2009

● Goal is to incentivize Large Companies to mentor SBIR Phase II companies with technology transfer and business development skills that will increase their Technology Readiness Level (TRL)

● TRL measures technology readiness on a scale of 1-9
  ➢ TRL 1-2 is where SBIR Phase I starts
  ➢ TRL 4-5 is SBIR Phase II
  ➢ TRL 8-9 is SBIR Phase III ready for commercial applications
First SBIR pilot M-P agreement signed by Boeing & Orion Propulsion Inc.

- 18 month agreement worth over $700K (Credit towards subcontracting plan)
- Award fee added to MSFC Ares I contract worth up to $100K funded by OSBP
- Agreement calls for TRL level to go from 4 to 8
- M/P will allow Orion to commercialize the technology, Boeing to get a better supplier and NASA to lower its cost

Multi-discipline review of performance including Small Business Specialist, contracting officer, COTR, and Small Business Technical Advisor/SBIR POC
Launched Nov. 17th

Goal is to track all Vendors interested in doing business with NASA

Market research by Procurement/Technical/Program personnel

Benefits

- Consolidate every Center’s database into one
- Open to all NASA employees for market research
- E-mail capability to vendors for RFI, draft RFPs, Sources Sought Notices
- Vendors can post capability briefs in any format
- Company info from Central Contractor Registration flows directly into our database
- Database is refreshed each year by contacting vendors automatically
- Vendors can receive e-mails from SBS
- Database training given to the Center SBS’s in Jan. 2010
Small Business Training for the Acquisition Professional

- Two-day course on the basics of Small Business
- Geared for program and procurement workforce
- Classes which started in June 2009, have been held at ARC, DFRC, GRC, GSFC, JSC, MSFC, and KSC and will be held at the other Centers over the next few months

Training on the Small Business Utilization Clause (PIC 09-07)

- This half day training is geared for the Source Evaluation Board
- Training provides tools to evaluate Subcontracting Plans
- Commitment to the Small Business Program
- Small Disadvantaged Business participation
Established Industry Councils & Joint Counseling Initiatives

Established annual Small Business Industry Awards to recognize small business primes, small business contractors, and large primes that have made major contributions to NASA’s Small Business Program at the Center level as well as at the Agency level.

Established the Administrator’s Cup Award, which will be presented to the Center that has demonstrated the “best” overall Small Business Program, as documented in the year’s final Small Business Program Report.
Marshall at a Glance

- **$2.7 billion**
  - Budget in fiscal year 2009

- **6th largest**
  - Employer in the Huntsville-Madison county area

- **> 7,000**
  - Employees at Marshall
  - (2,634 civil service employees in fiscal year 2008)

- **4.5 million**
  - Square feet of space occupied in Huntsville

- **$1.26 billion (FY2009)**
  - Impact to Alabama economy

- **MAF**
  - 2.2M square feet of manufacturing space at Michoud Assembly Facility in New Orleans

**Marshall is an engine of opportunity for its community and beyond.**
Space Shuttle Full Scale Production Support at MSFC

- Space Shuttle flying since 1981
- Two flights remaining
- MSFC Programs:
  - External Tank
  - Solid Rocket Booster
  - Solid Rocket Motor
  - Space Shuttle Main Engine
Ares I:
- First Stage
- J-2X Liquid Engine
- Upper Stage Avionics
- Upper Stage Production

Continue to work on program of record
Lunar Robotics

Discovery/New Frontiers

Chandra Science Center
## MSFC FY 2009 Small Business Achievements (In millions)

<table>
<thead>
<tr>
<th>Categories</th>
<th>Directs</th>
<th>Subcontracting</th>
<th>Cumulative</th>
<th>% Achieved</th>
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<td>$2,243.8</td>
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<tr>
<td>SB</td>
<td>$194.1</td>
<td>$401.1</td>
<td>$595.2</td>
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<td>SDB</td>
<td>$82.4</td>
<td>$217.1</td>
<td>$299.5</td>
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<td>$30.3</td>
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<td>$27.7</td>
<td>$14.6</td>
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MSFC Initiatives

- Web based directories
- MSFC Joint Counseling
- Procurement Small Business Action Team
- MSFC Small Business Executive Leadership Team
- Marshall Prime Contractor Supplier Council
- Marshall Small Business Alliance Meeting
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</tr>
</tbody>
</table>

Location: Bldg. 4202, Room 211

http://ec.msfc.nasa.gov/msfc/doin_bus.html (Web Site)
Future Programs

- Heavy Lift and Propulsion Research and Development Program

- Exploration Precursor Robotic Program

- Space and Exploration Technology Demonstration Program

  Development:

  - Surface Power Systems
  - Advanced In-Space Propulsion
  - Cryogenic Fluid Management
  - Advanced Materials
  - Environmental Control Life Support Systems
Legislative Update
TRIAD

Linda Hillmer
CorpComm Inc.
on Behalf of NDIA
May 27 2010
lhillmer@corpcomm-inc.com
• To see the Small Business Legislation Video that was shown at TRIAD, please visit:

Agenda

- About the 111th Congress
- Small Business Committees
- Summary: SB Bill Status
- SBIR/STTR Mark Up
- Of Note
- Presidential Memorandum
- Executive Order
- Final Note
About the 111th Congress

- **Next Election:** November 2010

- **Membership**
  - House of Representatives: 435 Members
  - Senate: 100 Members

- **Leadership:**
  - Speaker of the House - Nancy Pelosi (D-CA)
  - House Majority Leader - Steny Hoyer (D-MD)
  - House Minority Leader - John Boehner (R-OH)
  - President of the Senate - Joseph Biden (D-DL)
  - President pro tempore of the Senate - Robert C. Byrd (D-WV)
  - Senate Majority Leader - Harry Reid (D-NV)
  - Senate Minority Leader - Mitch McConnell (R-KY)

- **Session:** January 3, 2009 – January 3, 2011
About the 111th Congress

• 120 members have served in the military
  House: 95    Senate: 25

• Veterans
  World War II    Korean War    Vietnam War
  Kosovo    Persian Gulf War    Afghanistan    Iraq

• Reserves and National Guard Members (several Members are still serving as Reservists)
• Former Secretary of the Navy
• 3 Representatives and 1 Senator – graduates of United States Military Academy
• 2 Senators and 1 Representative – graduates of United States Naval Academy
• Astronaut, Naval Aviator, Commander of a Carrier Battle Group, Vice Admiral, Instructor at West Point, Pilot of Marine One
Small Business Committees

Senate Committee on Small Business and Entrepreneurship

– Chair: Senator Mary Landrieu (D-Louisiana)
– Ranking Member: Senator Olympia Snowe (R-Maine)
...And 17 other members

• 29 Bills to Date Introduced/Considered
Small Business Committees

House Committee on Small Business

- Chair: Representative Nydia Velazquez (D-New York)
- Ranking Member: Representative Samuel Graves (R-Missouri)
  ...And 27 other members

- 77 Bills to Date Introduced/Considered
- 16 Bills Voted in One Chamber or Failed to Pass
Summary: SB Bill Status

- **106 Introduced/Considered by Small Business Committees**

- **5 Passed into Law**
  - H.R. 1541: Temporary extension of programs under the Small Business Act and the Small Business Investment Act of 1958
  - H.R. 4508: Temporary extension of programs under the Small Business Act and the Small Business Investment Act of 1958
  - H.R. 4938: To permit the use of previously appropriated funds to extend the Small Business Loan Guarantee Program

- **2 in Mark Up (SBIR/STTR)**
  - S. 1233: SBIR/STTR Reauthorization Act of 2009
Major Differences Between Senate and House Versions

- Senate Re-Authorizes to 2017
- House Re-Authorizes to 2011
- Increase in Agency Participation
  - Senate: Increases agency allocations by 0.1% per year until 2020
  - House: No increases
- Venture Capital Participation
  - Senate: Permits VC participation as long as a single VC company owns no more than 49%
    - Allows Majority Ownership participation (up to 8% of SBIR funds) by Multiple VC Companies
  - House Permits VC participation as long as no single VC company owns more than 49%
    - No Multiple VC Ownership allowed
Of Note: 3% Withholding

• Current Law
  – Mandates federal, state and local governments withhold 3% of Contract Payments
  – Begins Jan 1, 2012
  – Significant Impact on Small Businesses
  – $17 Billion – DoD Estimated Cost to Implement over five years

• H.R. 275 Repeal of Withholding Tax
  – Introduced 1/7/2009, 150 co-sponsors
  – Referred to House Ways & Means Committee

• H.R. 1 American Recovery & Reinvestment Act of 2009 (House Passed Version)
  – Included Repeal of Withholding
  – Changed in Conference to delay implementation date until January 2012
Of Note: SB Contracting Revitalization Act 2010

S. 2989: Up for Senate Vote

- **Contract Bundling**
  - Accountability Measures
  - Teaming requirements (soliciting bids by small business)
  - Reduction of bundling (public website notification)

- **Subcontracting Integrity**
  - Primes certify use of small businesses as presented in proposal

- **Acquisition Process**
  - Reservation of prime contract awards for small businesses
  - Agency accountability
  - Payment of subcontractors

- **Small Business Size and Status Integrity**
  - Annual certification
  - Training for contracting and enforcement personnel
  - Updated size standards
  - Study and report on the mentor-protégé program
• SB Task Force
• Established 4/20/2010
• Interagency Task Force on Federal Contracting Opportunities for SBs
• Coordinate executive departments’ and agencies’ efforts towards ensuring all SBs have fair chance to participate in Federal Contracting
  – 16 Agencies
  – Led by Secretary of Commerce
  – Report due to President August 20, 2010
Executive Order

- Established 4/26/2010
- Interagency Task Force on Veteran-Owned Small Business Development
  - Coordinate effort of Federal agencies to improve capital, business development opportunities, and pre-established Federal contracting goals for small business concerns owned and controlled by veterans and service-disabled veterans
  - 7 Agencies
  - Led by SBA Administrator + 4 members from Veterans service or military organizations selected by SBA
  - Report due to President one year after first meeting and annually thereafter
Final Note: Insourcing

- Congress mandated single government-wide criteria for inherently governmental functions
- May 2009: DoD guidance on Insourcing
  - Requires review of all contracted services for possible insourcing
  - Provides insourcing guidance, requires cost analysis
- March 2010: OMB Proposed Policy Letter
  - Definition of Inherently Governmental Function (IGF)
  - Establishes criteria to identify critical functions (CF)
  - Guidance on Internal Management of IGF & CF
  - Comments due by June 1, 2010

Small Business Losing Employees and Contracts
Who We Are:
Supporting
- The Warfighter
- The Aerospace Industry
- Homeland Security

Providing
- Contracted Advanced Research
- Engineering Services
- Flexible Contract Support
- Full Cost Accounting
- DCAA Audited Rates
- Cleared Site and Personnel
- Low G&A/Low IDC

Established June 1999
“Independently Supported Contract Institute”

- Serve as a Conduit for Contracts at AAMU
- Support Economic Improvement & Betterment of life in Alabama
Our Role

1. Serve as a Conduit for Contracts at AAMU (an HBCU)

2. Help Small Business to develop their Competitive Capabilities

3. Interface between Industry, Government and University Through M&P, SBIR/STTR, Training, Services, as well as providing access to State of the Art Facilities.
Who Are We?

- Founded 1875
- 1890 Land
- HBCU
- 5600 students,
- >1400 Grads.,
- 4 Ph.D. programs
- Fully accredited (SACS)
ORGANIZATION CHART

PRESIDENT
AAMU

Dr. D. ILA, Executive Director
Dr. G. Herron, Associate Director

Board of Directors
President, VP (R&D), President
Pro Tempore of BOT, Chair of R&D
Sub of BOT, Exec. Dir. of AAMURI

Advisory Board

Last Updated 2007

Programs & ID/IQs (D. ILA)

IT & IS

ATR&D

IERS

Small Business Training and Partnership

FISCAL CONTROL (G. Herron)

Payable & Receivable

Personnel Payroll

(Property Management)

CONTRACTS (A. L. Evelyn & D. ILA)

Grants & Contracts

Federal G&C

Internal Control

SUPPORT SERVICES (J. Johnson & ILA)

Analytical/Materials

IT

Training

FSO/SO

BUSINESS DEVELOPMENT (ILA, J. Johnson, Evelyn)

HRD

a) Training,
b) Internship
c) Innovative Awards

Workshops STTR/SBIR/IP
Public Awareness

http://aamuri.aamu.edu – (256) 372-8703
MANAGEMENT TEAM

Dr. D. ILA, Exec. Dir. of AAMURI
Dr. Gladies Herron, Assoc. Dir., Ops. Manager
Dr. Leslie Evelyn, G&C Manager
Col. James Johnson, Logistics, M&P/FSO/SO/TM
Ms. Veena Sharma, Management Assistant/NSF-PA
Ms. Vannessa McGlathery, Acc. Administrator
Ms. Cynthia Lankford, Administrative support
Ms. Chandra Ray, Acc. PR/AP/AR
### Employees

<table>
<thead>
<tr>
<th></th>
<th>FY 08</th>
<th>FY 09</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAMU Student Employees</td>
<td>28</td>
<td>50</td>
</tr>
<tr>
<td>Faculty &amp; Staff Employees</td>
<td>45</td>
<td>35</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>73</td>
<td>85</td>
</tr>
</tbody>
</table>

**FY 09 Student Assistants**

- Contracts: 20 (40%)
- AAMURI: 30 (60%)
- Total: 39%

**FY 08 Student Assistants**

- Contract: 61%
- AAMURI: 39%
## Selected Customers & Partners

**Government**
- DOD
- NASA
- DOE
- NSF
- SBA, DIA, .....

**Commercial**
- SAIC
- Boeing
- EG&G
- Many others
- Small Businesses
Strategic Research Areas

Advanced Technology Research and Development (ATR&D)
- IS & IT, ME, EE, CE, CS
- Nano-Technology
- Information Security
- Artificial Intelligence
- Imaging/Signal Analysis/Processing
- Simulation and Modeling
- Communications Networking
- Advanced Materials Proc.
- Prototyping
- Sensors/Detectors/Mirrors
- Validation and Verification
- Protocols and System Technology
- Technical Transfer, Insertion/Integration
- Plant Cell Tissue Culture
- Man/Machine Analysis Studies

Integrated Environmental Research and Services (IER&S)
- Environmental Restoration
- Waste Management
- Urban Planning
- Radiation Detection and Monitoring
- Low Level Radioactivity
- Public Relations
- Data-Base Development
- Environmental Training
- Environmental Economics
Who Are We?

- Hydrology, Soil, Climatology & Remote Sensing
- Center for Irradiation of Materials
- Small Business & Economic Development
- Center for Environmental Research & Training
- Center of Excellence in Forestry & Ecology
- Advanced Propulsion Materials Res. Ctr.
- AAMU Research Institute
Research Institute
HQ

Who are we?

Center
for
Irradiation of Materials
Highlighted Expertise 1

- Engineering services, Support Services
- Mentor-Protégé (Support)
- Advanced technology Dev. & Prototyping
- Materials research and development
- Small business development and training
- SBIRs and STTRs jointly with small businesses
- Specialized small business training program
- World-class composite, Nano-science and Nano-Technology facilities, Sensors
- Advanced Environmental and Forensic facility
- Highly Competent IT Engineers and Scientists
1. Propulsion:
   - Increase partnerships (NASA, DOD, Industries and Universities).

2. IER&S: Forensic, Environmental Training and Remediation, Public outreach

3. SBIR/STTR, SB Training, Mentor-Protégé

4. Nano-Science and nano-technology

5. Services: HR, IT, Research Contract
Center for Irradiation of Materials

- Operates Two Tandem Particle Accelerators each 2 MV Accelerators
- Nano-Science and Nanotechnology (NSF, DOE, NASA, DOD)
- Surface and Interface Processing
- Materials Processing
- Thermoelectric Mat.
- Ion Implantation
- Materials Analysis
- High Temp. Carbon Composites
- Environmental R&D, Forensic
Ultra high (2500°C) temperature carbon composites. Carbon nano-tubes improve the strain to failure more than factor 10. And the rigidity by factor 3!

Glassy Polymeric Carbon (GPC) - Composites
Operates above 5000°F, Chemically stable, Biocompatible, Almost as hard as diamond, Good electrical conductor
ION BEAM MODIFICATION of materials for biomedical applications.

Cells attach and adhere strongly to GPC

- Tenuous cell attachment (top)
- Strong adhesion (bottom)

Silver ion implantation
Control of cell growth on carbon for improved medical implants

Research Partners

Applications of Nuclear Techniques 09 - Crete, Greece 14-20 June 2009
Controlled Fabrication of Micro-/Nano-pores Membranes

**Production of nanopores in Fluoropolymer films**

Nano pore production for single molecule biochemistry DNA and Protein characterization

Perfluoroalkoxyethylene (PFA) $[\text{CF}_2\text{CF}_2]_{0.99}[\text{CF}_2\text{COF}_3]_{0.01}$
Highly Efficient Thermoelectric Materials

In House Materials Processing and Device Prototyping

AAMU TEM (June 2009)

<table>
<thead>
<tr>
<th>Materials</th>
<th>Reported ZT/Temp</th>
<th>AAMU ZT/Temp</th>
<th>Potential ZT/Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂Au/SiO₂</td>
<td>0</td>
<td>2.52 @ 360K</td>
<td>&gt; 2.52</td>
</tr>
<tr>
<td>Bi₅Te₃/Sb₂Te₃</td>
<td>1.1 @ 350K</td>
<td>2.6 @ 350K</td>
<td>&gt; 2.6</td>
</tr>
<tr>
<td>SiO₂ Ag/SiO₂</td>
<td>0</td>
<td>0.085 @ 300K</td>
<td>Under Investigation</td>
</tr>
<tr>
<td>Zn₄Sb₃</td>
<td>0.50 @ 300K</td>
<td>0.53 @ 300K</td>
<td>Under Investigation</td>
</tr>
<tr>
<td>CeFe₂Co₂Sb₁₂</td>
<td>0.05 @ 300K</td>
<td>3.07 @ 300K</td>
<td>&gt;3.07</td>
</tr>
<tr>
<td>SiO₂/Zn₄Sb₃</td>
<td></td>
<td>0.28 @ 300K</td>
<td></td>
</tr>
<tr>
<td>Si₁₋ₓGeₓ/Si</td>
<td>1.@ 300K</td>
<td>0.61 @ 300K</td>
<td>&gt;&gt; 0.61</td>
</tr>
</tbody>
</table>
| SiO₂/SiO₂+Ag, Bi₅Te₃/Sb₂Te₃, Zn₄Sb₃/ CeFe₂Co₂Sb₁₂, SiO₂/SiO₂+Ag, Zn₄Sb₃, ZrNiSn, Zn₄Sb₃, CeFe₂Co₂Sb₁₂, SiO₂/SiO₂+ Zn₄Sb₃, Si₁₋ₓGeₓ/Si, Bi₂Te₃/Sb₂Te₃ | 0.5 <ZT gained <3.07 | 300K< Operation Temp <1200K
Concave Ni-Co mirror and a nuzzle
Sensor Development, Testing & Prototyping

Radioactive Litmus Sensors
Volatile Gases Litmus Sensors
Volume Mapping Sensor Arrays
Nano-Structured Based Sensor Technology
Innovative Sensor Development and Manufacturing & Characterization
Additional Past Performance Indicators

- **NASA - Advanced Propulsion Materials (>$3M)**
- **SBA** Contract to AAMURI “Conduct National Business Training Sessions” (Completed)
- **ARO/NIH/DOE STTR/SBIR (> 12)**
- **EG&G** (NASA-Technical/Engineering Services) (Five more year)
- **SAIC** (DTRA-Engineering Services)
- AAMURI granted access to **DOD Joint Clearance Access Verification System (JCAVS)**
- **Nunn-Perry Award**, (Six years consecutively)
  - The prestigious Nunn-Perry Awards are presented each year to outstanding Mentor-Protégé relationships across the country.

http://aamuri.aamu.edu – (256) 372-8703
Enhancing Research Capabilities in Nano/Bio Science and Sensors

**Vision:**
Enabling internationally-competitive nano/bio research and contributing significantly to science and technology-related education, outreach, and economic development in Alabama.

**Mission:**
Establishing a multi-campus nano/bio science and sensor research and education infrastructure for the State of Alabama that will allow researchers and research centers to be nationally competitive and ultimately self-sustainable.
Alabama EPSCoR Program
AAMU, AU, TU, UA, UAB, UAH, & USA

(256)372-8710
http://epscor.aamu.edu/
Inter-state collaborations

A multi-campus nano/bio science and sensor research and education
NEWS

- AAMURI passed the annual DSS Industrial Security Program Review
- AAMURI Passed External Audit (B&F, DCAA, State of AL)
- Record Breaking STTR/SBIR/HBCU/MI/Small Business meeting at AAMU 2010
- AAMURI Hosted Nanotechnology meetings, 2009-2010
- $15M NSF EPSCoR Award for ALEPSCoR
- AAMURI, a successful model (National Academies) (AAMURI sets the requirements for large scale industrial application of nano-fabrication Labs)

http://aamuri.aamu.edu – (256) 372-8703
Past Performance Indicators

- **Alabama EPSCoR Program** - $4.5M/Y to $17.5M/Y
- **SBA** Contract to AAMURI “Conduct National Business Training Sessions” (Completed), “**Frontiers of Nano-Technology Business**”
- **ARO/NIH/DOE STTR/SBIR** (> 12)
- **EG&G** (NASA-Technical/Engineering Services) (Five more year)
- **SAIC** (DTRA-Engineering Services)
- AAMURI granted access to **DOD Joint Clearance Access Verification System (JCAVS)**
- **Nunn-Perry Award**, (Several years)
  - The prestigious Nunn-Perry Awards are presented each year to outstanding Mentor-Protégé relationships across the country.
## Current ID/IQ Contracts

<table>
<thead>
<tr>
<th>ID/IQ</th>
<th>AGENCY</th>
<th>PRIME CONTRACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible Acquisition Sustainment Tool (FAST)</td>
<td>U.S. Air Force</td>
<td>SAIC-Warner Robbins</td>
</tr>
<tr>
<td>Night Vision and Electronic Sensors Directorate (NVESD)</td>
<td>U.S. Army-CECOM</td>
<td>SAIC-San Diego</td>
</tr>
<tr>
<td>Space Technology Applications and Requirements Support (STARS)</td>
<td>U.S. Army</td>
<td>ARINC, Inc.</td>
</tr>
<tr>
<td><strong>Millennia Lite</strong>: Legacy Systems Migration and New Enterprise Systems Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minority Institutions Technical Support Services II (MITSS II)</td>
<td>DoD-DISA</td>
<td>AAMURI</td>
</tr>
<tr>
<td>STRICOM Omnibus Contract (STOC)</td>
<td>U.S. Army-STRICOM</td>
<td>Lockheed Martin-Orlando</td>
</tr>
<tr>
<td>Environmental Restoration at Paducah</td>
<td>DoE/Bechtel Jacobs</td>
<td>SAIC-Oak Ridge</td>
</tr>
<tr>
<td>Environmental Restoration at Oak Ridge</td>
<td>DoE/Bechtel Jacobs</td>
<td>SAIC-Oak Ridge</td>
</tr>
<tr>
<td>Defense Information Systems Network (DISN) Global Solutions (DGS)</td>
<td>DoD-DISA</td>
<td>SAIC-Vienna</td>
</tr>
<tr>
<td>DISA Next Generation (NEXGEN) Engineering Contract</td>
<td>DoD-DISA</td>
<td>SAIC-Arlington</td>
</tr>
<tr>
<td><strong>AMCOM Express</strong></td>
<td>U.S. Army-AMCOM</td>
<td>SAIC-Huntsville</td>
</tr>
<tr>
<td>MSAD Systems Development and Operations Support (SDOS)</td>
<td>NASA-MSFC</td>
<td>Teledyne Brown Engineering</td>
</tr>
<tr>
<td><strong>Encore</strong> Information Technology (IT) Products and Services</td>
<td>DoD-DISA</td>
<td>Analytical Services, Inc.</td>
</tr>
<tr>
<td>CECOM R2</td>
<td>U.S. Army</td>
<td>Tamsco, Inc.</td>
</tr>
<tr>
<td>CECOM R2</td>
<td>U.S. Army</td>
<td>Lear Seigler, Inc.</td>
</tr>
<tr>
<td><strong>System Engineering Analysis and Testing Support</strong></td>
<td>U.S. Army-AMCOM</td>
<td>AAMURI</td>
</tr>
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<td>Flexible Acquisition Sustainment Tool (FAST)</td>
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</tr>
</tbody>
</table>

http://aamuri.aamu.edu – (256) 372-8703
Annual Small Business Conference

Department of Defense

STTR/SBIR and Small Business Conference

Hosted by

Alabama A&M University Research Institute
(AAMURI)

Cosponsors: SAIC, AL-EPSCoR, NSF, AMRDEC,
Boeing, AAMURI, ....

31 Jan. - 2 Feb. 2011

Alabama A&M University

http://AAMURI.AAMU.EDU

http://aamuri.aamu.edu – (256) 372-8703
Nanotechnology
Layered Nano-Structures
Workshops & Symposia

April (MRS-SFO), June (Turkey), August (HSV – 2), ..... 

April 2011(SFO) & Aug 2011 (HSV - 3)

POC:

Dr. Daryush ILA (ILA@CIM.AAMU.EDU)

(256)372-8700, http://AAMURI.AAMU.EDU

R: OD’s Radius
S: Layer Spacing
T: Layer Thickness
Alabama HBCUs Research and Development

Alliance, Established April 2002

State of Alabama and AAMURI
(256)372-8700
http://aamuri.aamu.edu/Alabama-HBCUs/HBCU.htm
Legislative Updates / Topics for Small Business

Legislative & Regulatory Affairs
Strategic Work Placement / Supplier Diversity
Geopolitical Summary

Global Recession

New Administration

DoD Budget Rebalancing

Government Bailout

Acquisition Reform

Budget Crisis

Increasing Social Programs

Challenging environment impacts small businesses first
President Obama’s Small Business Agenda

- Increase transparency, “acquisition reform and oversight“
- Invest in Women-owned Small Businesses and increase minority access to capital
- Support Rural Small Businesses through state agricultural grants
- Fix Health Care for SBs
- Provide tax relief for SB’s and start-ups – support high-tech and R&D job creation
- Expand SBA loan and micro loan programs
- Create national public-private business incubator infrastructure

Small business = jobs
Emerging Issues (General)

- Legislative Proposals
  - Increase statutory SB goal to 25% (from 23%)
  - More “penalties” for non-achievement of SB subcontracting goals
  - New criteria for “good faith” compliance with subcontracting plans
  - 5 year debarment for fraudulent misrepresenting business size
  - SDB personal net worth criteria increase to $978K
  - Parity within socioeconomic subcontracting programs
  - CSP covered contracts subject to liquidated damages
  - SB Subcontracting Plan threshold increase to $650K (from $550K)
  - Foreign-owned firms ineligible for SB status
Emerging Issues (General)

- Regulatory Proposals
  - SBA re-write of Size Standards – *proposed*
    - Analyzes the need for DoD-specific size standards
    - Revisions of 8(a) Business Development Program criteria
  - Quarterly eSRS reporting for GSA Contracts (FAR class deviation / memo)
    - DoD may follow suit
Emerging Issues (Specific)

- Bill S.2989
  - Penalties for business size misrepresentation
  - Expansion of small business set-asides into more agency IDIQ contracts
  - Changes to prime-subcontracting processes (e.g., “bait and switch”)
    - certification to execute subcontract in the same quantity/quality as contained in a federal government proposed offer

- Federal Funding, Accountability & Transparency Act (FFATA) interim rule 6/25
  - Affects all solicitations and contracts (except classified) ≥$25K

American Recovery & Reinvestment Act (ARRA) – already in affect
- Affects solicitations and contracts (except classified) that are funded in whole or in part by the Recovery Act
- Requires quarterly reporting at the Prime contract level, (and Subcontractor level if prime has any subcontracts ≥$25K)
FFATA / ARRA Qtrly Reporting Elements

1. Funding Agency Code / Name
2. Awarding Agency Code / Name
3. Contracting Office Code / Name
4. Program Source (Treasury Account Symbol (TAS))
5. Award Number* and Order Number (if applicable)
6. DUNS Number*
7. Legal Name*, Doing Business As Name*, and Full Address* (pre-populated from CCR if available, D&B is secondary source)
8. Recipient’s Congressional District*
9. Parent DUNS Number (pre-populated from CCR)
10. Recipient’s Account Number (optional field for the recipient’s use)
11. Award Date*
12. Award Description (narrative)
13. Quarterly Activities / Project Description (narrative) (cumulative)
14. Project Status (Not Started, <50% Complete, >50% Complete, Complete) (cumulative)

* Must also report these elements for any first tier subcontractor for subcontract > $25K
15. Project Title (optional)
16. NAICS Code / NAICS Code Description
17. Number of Jobs Created / Retained (cumulative)
18. Description of Jobs Created / Retained (narrative) (cumulative)
19. Amount of Award (Total Amount of Recovery Funds Obligated for the Contract or Order)*
20. Total Amount of Recovery Funds Invoiced (cumulative)
21. Primary Place of Performance Full Address*
22. Primary Place of Performance Congressional District*
23. Recipient Indication of Applicability Regarding Highly Compensated Executives*
24. Names of the 5 Most Highly Compensated Executives (conditional based on the recipient’s indication of applicability)*
25. Compensation Amount of the 5 Most Highly Compensated Executives (conditional based on the indication of applicability)*
26. Total Number and Amount of Sub-awards to Individuals (cumulative)
27. Total Number and Amount of Sub-awards <$25K per Award (cumulative)

* Must also report these elements for any first tier subcontractor for subcontract ≥ $25K
Industry Concerns / Open Issues

- Modernization of Small Business Programs – e.g.
  - Comprehensive Subcontracting Plan (CSP) Test Program
    - Extended to 2014
    - Modernization to be addressed during extension
    - New program participants prohibited during extension
- Emerging socioeconomic categories at subcontracting level–
  - AbilityOne
  - Economically disadvantaged women-owned small business (EDWOSB) – potential goal flowdown to primes
- Reauthorization of Small Business Innovative Research Program
  - Lack of “permanency”
  - DoD extended thru Sept 20th (other Agencies thru April 30th)
Industry Concerns / Open Issues

- Non-standard small business language in RFPs (e.g. FMS)
  - SBA guidelines excludes FMS from SB goal base (DOD push back)
  - SBA official policy pending (tentative ECD - end of FY10)

- Globalization
  - Leveraging US small business regulations; expanding to “global supplier diversity” model

- Subcontracting Plan Flow Down Clause
  - Agencies’ interpretation:
    - primes review/negotiate/monitor their Tier 1’s subcontracting plan goals and performance
  - FAR / industry practice does not support Agency’s interpretation
  - SBA, DOD, OSB, etc. redressing the issue on a government- and industry-wide basis
Summary

Websites for more information

- www.thomas.gov

Congressional Bills

- S. 2989
- H.R. 4496
- H.R. 1983
- H.R. 2568
- H.R. 4253
- H.R. 2747
- H.R. 3558
- H.R. 4125
- H.R. 2415
- H.R. 2416
- H.R. 2568
- H.R. 2769

Contact Info:

Priscilla Jones
(206) 662-7111
priscilla.a.jones@boeing.com
Q & A
Back-up
2010 Spring TRIAD
Huntsville, Al

Salute to Murray J. Schooner
May 27, 2010
Murray, you will always be in our hearts.