Aerospace Contract Status

- Performance by Bigelow Aerospace Advanced Space Studies (BAASS) has been excellent and they are in full compliance with aerospace contract HHM402-08-C-0072:
  - extensive monthly status reports received
  - 12 project management plans received and executed
  - 26 detailed research reports (twice minimum requirement) received by 30 June 2009. Reviews of reports have been overwhelmingly posltive.
- Recommend that DIA should go forward with option year 1 with BAASS, subject to available funding.
- $12 million for the continuation of this contract by DIA/DI has been submitted in the FY10 defense budget; funding likely to be approved.

Aerospace Contract Status (continued)

- Contracting officer will extend this contract through 30 September in order to use FY10 funds in option year 1. Extension will be at no additional cost to the government.

- BAASS has indicated that they are willing to operate "at risk" in option year 1 until FY10 funding arrives.

- Contracting officer has requested (b)(3):10 USC 424 completion of
  - *Past Performance Questionnaire*
  - *Option Exercise Questionnaire*

Technical Report Review Results

Title	Author	Org	Exchange	Sandia
Inertial Electrostatic Confinement Fusion	(b)(6)			
Pulse-Power-based Weaponry				
Space-time Modifications for Spacefight Applications				
Novel MEMS-based Biosensors			P	
Metamaterials and Invisibility			P	P
Wormholes in SpaceTime				
Gravity Wave Communication				
Superconducting-mediated Gravity Experimentation			P	
Antigravity Studies			P	
Field Effects on Biological Tissues				
Matter-Antimatter Energy Source for Spaceflight			P	U
Vacuum Energy Applications				
Improved Statistical Approach to Drake Equation				
Maverick vs. Corporate Research Cultures				
Novel Biomaterials				
Metamaterials/Signature Reduction			P	
Warp Drives				
Brain-Machine Interfaces			P	
Advanced Metallic Alloys			P	
Metallic Glass Materials			P	missing
Programmable Matter				
Metallic Spintronics			P	
Laser Weapons				[redacted]
Quantum Entanglement Communications				
Space Access: Where Been, Where Go				
Advanced Nuclear Propulsion for Deep Space				

(b)(3):10 USC 424

P **positive**
U understanding

[redacted]

Sample of Comments

- *Metamaterials and Invisibility* – "this topic still evokes misunderstandings and confusion…. (b)(6) report does an excellent job of clearing some of this confusion and providing clear definitions of what constitutes true cloaking/invisibility. It also honestly discusses technological challenges to making a practical invisibility cloak." (b)(6)

- *Superconducting-mediated Gravity Experimentation* – "The theoretical breadth of the topic with which (b)(6) deals is vast, spanning Einstein's General Theory of Relativity, electromagnetism, superconductivity and quantum mechanics....Despite this, the author was able to succinctly deliver an absorbing and flavorful review of the topic without getting sidetracked into the erudite minutiae" (b)(6)

- *Novel Biomaterials* - As many recent US Academy of Sciences and other scholarly studies have shown, few persons in the decision-making areas of the government have sufficient background in BioMEMS from which to make intelligent decisions. As key customers of this study, the sponsors are well-served with (b)(6) survey. (b)(6)

Option Year 1 Deliverables

- CLIN 1001 12 Monthly Status Reports
- CLIN 1002 12 Area Management Plans

Delivery by: June 2010

a) ~ 26 Worldwide Survey Technical Reports

(b)(6)

b) 5-10 Top-Ranked Graduate School / Industry Grants

- propulsion, materials

- CLIN 1003 12 Technical Reports

Delivery by: August 2010

a) ~ 4-6 classified Technical Reports (supplements this year's products)

b) ~ 6-8 unclassified Technical Reports (on new specific research topics suggested by this year's products, to be chosen)

Program Management Issues

- (b)(3):10 USC 424 will be transferring to (b)(3):10 USC 424 during FY10
- (b)(3):10 USC 424;(b)(6) due to economic issues, will not be transferring
- Program will likely become SAP by June 2010
- Best option appears to be to move (b)(3):10 USC 424;(b)(6) and program to (b)(3):10 USC 424 during this time
  - can also assist (b)(3):10 USC 424 in his role as (b)(3):10 USC 424