

# Industry/University Cooperative Research Centers (I/UCRC)

## Evaluator Conference

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# Presentation Outline

- Center Status
  - Number of Centers as of today
  - Full proposals under consideration
  - Planning grant proposals under consideration
- Revised Solicitation (09-565)
  - How it differs from the rest
- Supplemental Funding & Expectations
- Evaluator Studies
- ARRA
  - What is new?



# Industry/University Cooperative Research Centers

## *ENG Multi-University Centers*

1. Advanced Forestry
2. Computational Materials Design
3. Dielectrics
4. Friction STIR Processing
5. Fuel Cells
6. Laser and Plasma for Adv. Mfg.
7. Logistics and Distribution
8. Membranes
9. Minimally Invasive Diagnostics
10. Precision Forming
11. Repair of Building and Bridges
12. Smart Vehicles Concepts
13. Water and Environmental Technology
14. Telecommunications
15. Silicon Solar
16. Particulate and Surfactants
17. Advanced Cutting Tools
18. Health Organization & Transformationinable
19. Iron & Steel
20. Small Satellite Technology
21. Bioenergy
22. Electromagnetic Compatibility

## *CISE Multi-University Centers*

1. Cyber Protection
2. e-Design
3. Experimental Computer Systems
4. Identification
5. Intelligent Maintenance
6. Reconfigurable Computers
7. Search & Rescue Robots
8. Wireless Internet
9. Autonomic Computing
10. Embedded Systems
11. Net-Centrics Systems

## *Single University Centers*

1. Advanced Vehicle Electronics
2. Bio-catalysis and Bio-processing of Macromolecules
3. Biomolecular Interaction
4. Electronic Micro-Cooling
5. Child Injury Studies
6. Advanced Knowledge Enablement (CISE)

39 Centers before Panel in May, 2009



# Full ENG Proposals for Centers Under Consideration (FY 2009)

- **Friction Stir Processing (lead is SDSM&T)**
  - Phase II Renewal for 3 sites
- **Laser and Plasma for Adv.Mfg (lead is UVA)**
  - Phase II Renewal for one site
- **Connection One (lead is ASU)**
  - Phase II Renewal for one site
- **Multiphase Transport Phenomena (lead is MSU)**
  - One year Renewal for 2 sites
- **Laser and Plasma for Adv. Mfg (lead is UVA)**
  - Addition of one site will result in 4 sites for this Center
- **Electromagnetic Compatibility (lead is MST)**
  - Addition of one site will result in 3 sites for this Center
- **Advanced Forestry Systems (lead is NCSU)**
  - Addition of one site will result in 8 sites for this Center
- **Grid-Connected Advanced Power Electronic Systems (2 sites)**
- **Integration of Composites into Infrastructure (4 sites)**

Potential for 3 more !!



# Full CISE Proposals for Centers Under Consideration (FY 2009)

- **Safety, Security & Rescue Research (Lead is UVA)**
  - Phase II Renewal for one site
  - Addition of one site
- **WICAT (lead is Polytech)**
  - Phase II Renewal for one site
- **CERCS (lead is Georgia Tech)**
  - Phase II Renewal for one site
- **E-Design (lead is Virginia Tech)**
  - Phase II Renewal for 1site
- **CAKE (lead is FIU)**
  - Addition of one site will result in 2 sites for this Center
- **Hybrid Multicore Productivity Research (3 sites)**
- **Intelligent Storage (2 sites)**

Potential for 2 more !!



# IUCRC Planning Grants Under Consideration

- Wind Energy (3 sites)
- Water Equipment & Policy (2 sites)
- Metamaterials (4 sites)
- Integrative Materials Joining Science for Energy Applications (4 sites)
- Ceramic Composite and Optical Materials (2 sites)
- Agricultural and Pharmaceutical Nanotechnology (2 sites)
- Surveillance Theory (2 sites; CISE)
- Dynamic Data Analysis (2 sites; CISE)
- Mississippi State University (CISE; planning grant awarded to join CAC)
- Arizona State University (CISE; planning grant to join Net-Centrics Systems)
- Drexel University (CISE; planning grant awarded to partner with the University of Louisiana; Visual Decision Informatics)



**Potential for 8 New Centers**

# Differences amongst Solicitations (YRS 1 – 5)

Features	01-116	07-537	08-591	09-565
Membership/site	\$150k (3)	5 members	\$150k (3)	\$150k (3)
Membership/center	\$300k	10 members	\$300k <sup>1</sup>	\$300k <sup>1*</sup>
Funding opportunities (YRS)	1 - 10	1 - 10	1 - 10	YRS 11 through 15 now available
NSF funding	\$50k – \$70k <sup>2</sup>	\$50k – \$70k <sup>2</sup>	\$55k – \$80k <sup>2</sup>	\$55k – \$80k <sup>2</sup>
In-kind support from industry	NA	NA	RESTRICTED	RESTRICTED
Evaluator support for planning grants	No	No	No	Added (\$3k)
Evaluator support for established Centers	Included in award	Added (up to \$21k)	Added (up to \$21k)	Added (up to \$21k) <sup>3</sup>

1. \$350k for Phase II and Phase III Centers; minimum of \$175k per site  
\* Membership count defined
2. \$25k - \$35k for Phase II under 01-116 & 07-537; \$28 - \$40k for Phase II under 08-591; \$40K - \$60k for Phase II under 09-565; \$15k for Phase III
3. \$4K for Phase III; Added



PLEASE READ SOLICITATION FOR MORE DETAIL

# Differences amongst Solicitations (YRS 1 – 5)

Features	01-116	07-537	08-591	09-565
Evaluator participation at IAB	Yes (bi-annually)	Yes (bi-annually)	Yes (bi-annually)	Yes (bi-annually for Phases I,II; annually for III)
Cost sharing	Yes	No	Yes	Yes
Additional support for lead institution	\$10k /site for I & II	\$10k /site for I & II	\$10k /site for I & II	\$10K/site for I & II; \$25k for Phase III
International Collaboration & support	No	No	Yes (\$25k)	Yes (\$25k)
Added Center Director support (>8 sites)	No	No	Yes (\$50k)	Yes (varies)

PLEASE READ SOLICITATION FOR MORE DETAIL





# Supplemental Funding & Expectations

- **TIE Project**
  - Deliverables & Milestones to be clearly spelled out
  - IAB approval letter must accompany proposals
  - Revisions underway (DCL)
- **Fundamental Research Supplement**
  - May have to be submitted as a full proposal
  - Revisions underway
- **SBIR membership in I/UCRC**
  - Revisions underway



# Evaluator Studies

- **DVD & Compendium – in progress**
- **Assessing the Post-Graduation Status of I/UCRCs: An Assessment of Self-Sufficiency and Indirect Impacts of Sustained I/UCRCs – awarded**
- **Impact of I/UCRC Directorship on Career Paths and Achievement – under review**
- **I/UCRC Project Team Size, Disciplinary Diversity & Effectiveness – under consideration at NSF**

