

I/UCRC Evaluators' Meeting

June 2, 2010

Rathindra (Babu) DasGupta
Program Director

Welcome to the Industry/University
Cooperative Research Centers

Program Update

Staff

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IPA??



EXISTING CENTERS & SITES

POTENTIAL CENTERS & SITES



Industry/University Cooperative Research Centers

ENG Multi-University Centers

1. Advanced Forestry
2. Advanced Packaging and Processing (III)
3. **Advanced Sustainable Iron & Steel**
4. Bio Energy R & D
5. Composites Infrastructure
6. Computational Materials Design
7. Design of Analog Digital Integrated Circuits (III)
8. Dielectrics
9. Electromagnetic Compatibility
10. Friction Stir Processing
11. Fuel Cells
12. Grid-Connected Adv Power Elec
13. Health Org. & Transformation
14. Laser and Plasma for Adv. Mfg.
15. Logistics and Distribution
16. Membrane Appl. Sci. & Technology
17. **Minimally Invasive Diagnostics**
18. Multiphase Transport Phenomena
19. Next Generation Photovoltaics
20. Particulate and Surfactants
21. Pharmaceutical Development
22. **Precision Forming**
23. Power Systems Engineering Research Center (III)
24. Resource Recovery and Recycling

ENG Multi -University Centers

25. Smart Vehicles Concepts
26. Silicon Solar
27. Small Satellite Technology
28. Connection One
29. Water and Environmental Technology
30. Water and Equipment Policy

ENG Single-University Centers

31. **Advanced Cutting Tools**
32. Advanced Vehicle Electronics (III)
33. Biocatalysis and Bioprocessing of Macromolecules
34. Biomolecular Interaction
35. Child Injury Studies
36. Electronic Micro-Cooling
37. Non-Destructive Evaluation (III)

37 ACTIVE ENG CENTERS



Industry/University Cooperative Research Centers

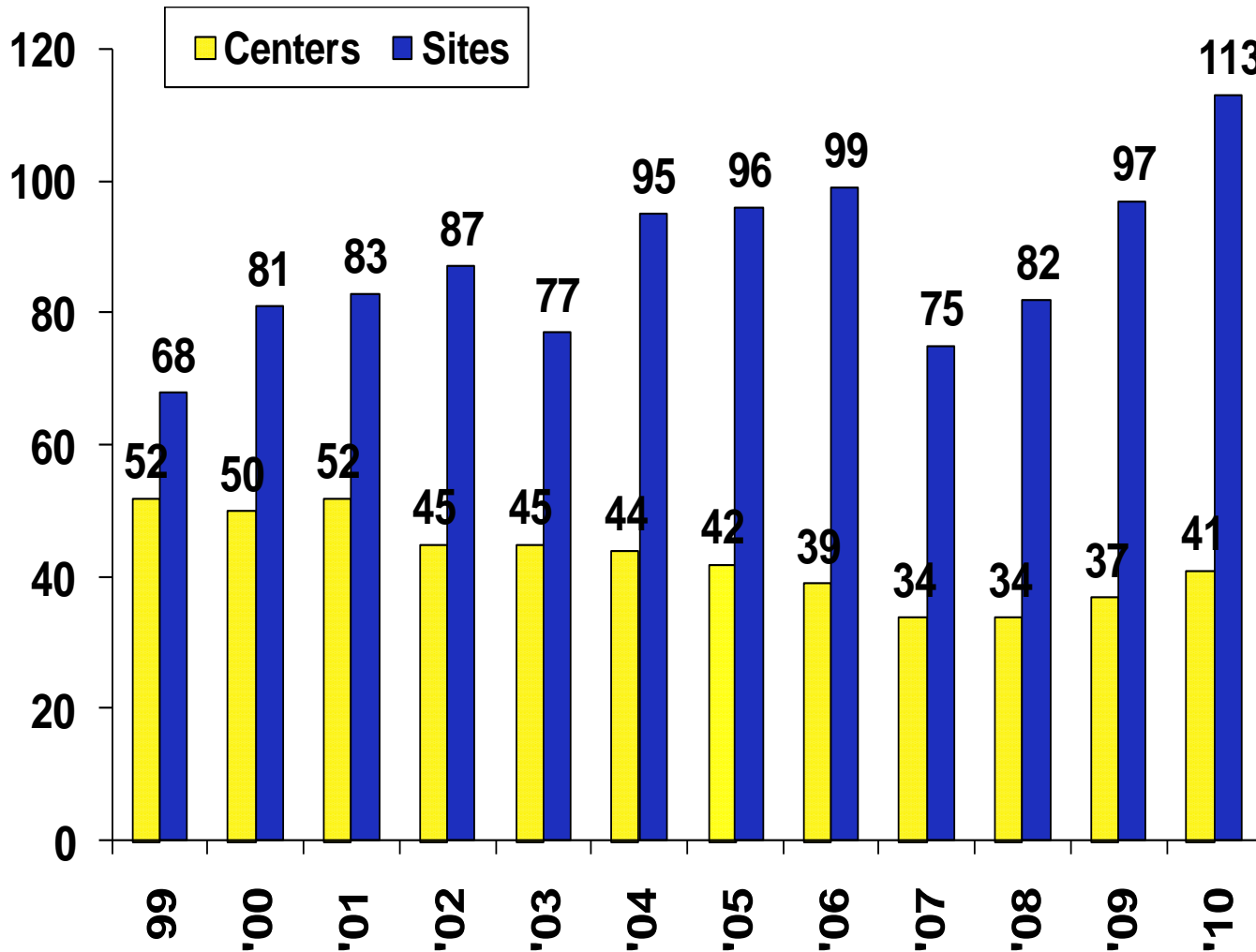
CISE Multi-University Centers

1. **Advanced Knowledge Enablement**
2. **Autonomic Computing**
3. **e-Design**
4. **Embedded Systems**
5. **Experimental Computer Systems**
6. **Hybrid Multicore Productivity**
7. **Identification**
8. **Intelligent Maintenance**
9. **Intelligent Storage**
10. **Net-Centrics Systems**
11. **Reconfigurable Computers**
12. **Search & Rescue Robots**
13. **Security and Software Engineering Research Center**
14. **Surveillance Theory**
15. **Wireless Internet**

15 ACTIVE CISE CENTERS



Active Centers and Sites By Year



INCREASE IN CENTERS & SITES



New Sites to Join Existing IUCRCs (FY 2010)

- **Recycling, Resource and Recovery**
 - *Purdue University (Planning Grant)*
- **Health Organization and Transformation**
 - *Penn State (Planning Grant)*
 - *Northeastern University (Full Proposal)*
- **Small Satellite Technology**
 - *University of Central Florida*
 - *University of South Florida (Planning Grant Under Consideration)*
- **Autonomic Computing (CISE)**
 - *Mississippi State University (Full Proposal under Consideration)*
- **Bio Energy Research and Development**
 - *Michigan Tech (Planning Grant)*



New Sites to Join Existing IUCRCs (FY 2010)

- **e-Design (CISE)**
 - *Carnegie Mellon University (Full Proposal under Consideration)*
 - *Wayne State University (Planning Grant under Consideration)*
 - *University of Buffalo (Planning Grant)*
 - *BYU (Planning Grant)*
 - *University of Puerto Rico Mayaguez (Planning Grant)*
- **Net-Centrics Systems (CISE)**
 - *Arizona State University (Full Proposal under Consideration)*
- **Security & Software Engineering Research Center (CISE)**
 - *University of Illinois (Planning Grant)*



Full and Planning Grant Proposals Under Consideration (FY 2010)

- **Center Proposals:**
 - Wood Based Composites (2)
 - Integrative Joining of Materials for Energy Applications (4)
 - Ceramics Composites and Optical Materials (2)
 - Plug-in Hybrid Electric Vehicles (2)
 - Energy Harvesting Materials & Systems (2)
 - Computational Materials Design (Phase II Renewal)
 - Multiphase Transport Phenomena (Phase II Renewal)
- **Planning Grant Proposals:**
 - Energy Efficient Systems (4)
 - Open Innovation Management Network (5)
 - Sustainable Manufacturing (3)



Planning Grant Presentation Template

- **Slide 1 – Presentation title slide with PI's name, etc**
- **Slide 2 – Need and Industrial Relevance**
- **Slide 3 – Project Goals**
- **Slide 4 – Objectives**
- **Slides 5 & 6 – Approach (Research Methods)**
- **Slide 7 – Outcome/Deliverables**
- **Slide 8 – Impact**
- **Slide 9 – Project Duration & proposed budget**



Other Important Items

- Fundamental Research proposal – ongoing; status report
- SBIR membership in IUCRCs (status)
- CORBI – ongoing; status report
- Center Fact Sheet (operational)
- MIPR – complete information on the IUCRC homepage
- Annual report
 - Evaluator's report**
 - Membership certification
- Evaluator absence
 - What if the evaluator cannot attend the meeting, what then?
 - What if the meeting is held electronically?
- LIFE forms
 - UCF is trying to resolve problems
 - Potential for the system to go down
 - UCF has not transferred the database yet to NSF's contractor
 - UCF is having issues with its students

