

MRSEC Facilities Workshop

November 1-2, 2011

NSF Division of Materials Research Mary Galvin, Sean Jones, Thomas Rieker, and Charles Ying



High Visibility / High Impact



27 MRSECs

MRS

- 71 Interdisciplinary Research Groups (IRGs)

910 Faculty participants

- Physics, Chemistry, Materials Science, Engineering, Bio, Math

Annual Science Output

- 224 Ph.D.s awarded
- 129 Post-docs completed
- 1500 publications
- 76 patents issued







Broader Impacts

Extensive Education Programs

REU (459), RET (96) 10,000's impacted by K12 + Outreach Broadening Participation

> Diversity Strategic Plan PREM

Extensive Collaborations

1400 Academic273 Industry274 National Labs166 International w/ 32 countries

Research and Education Infrastructure

Building a National Network

Annual Directors' Meetings Education Coordinators Network Materials Research Facilities Network



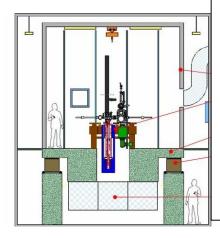


Infrastructure



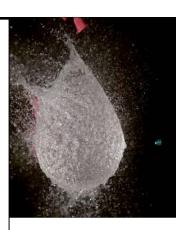
Users of MRSEC Facilities

- 2000 Academic
- 578 Industry
- 107 National Labs Resulting in 530 Publications



Support for:

- Technicians
- Administrative staff
- Instrument Development



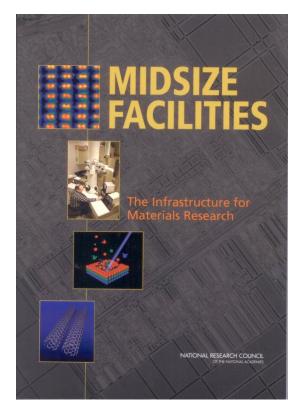


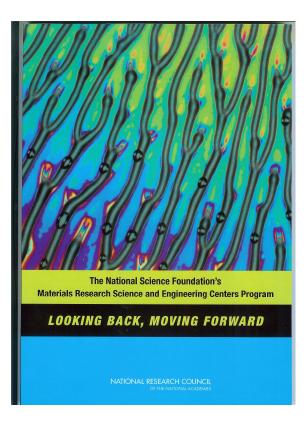


Materials Research Facilities Network



National Academy Reports









Materials Research Facilities Network



The Materials Research Facilities Network (MRFN) has recently been established and is currently in operation at ca. 50% of MRSEC sites. The goal of the MRFN is to maximize the usage of MRSEC facilities and is directed towards the efficient and strategic development of materials characterization within the United States. By providing easy access through its wide geographical distribution to small and large universities not in the MRSEC program, the MRFN will substantially contribute to the education and mentoring of a wide diversity of students and further promote collaborative research in materials.



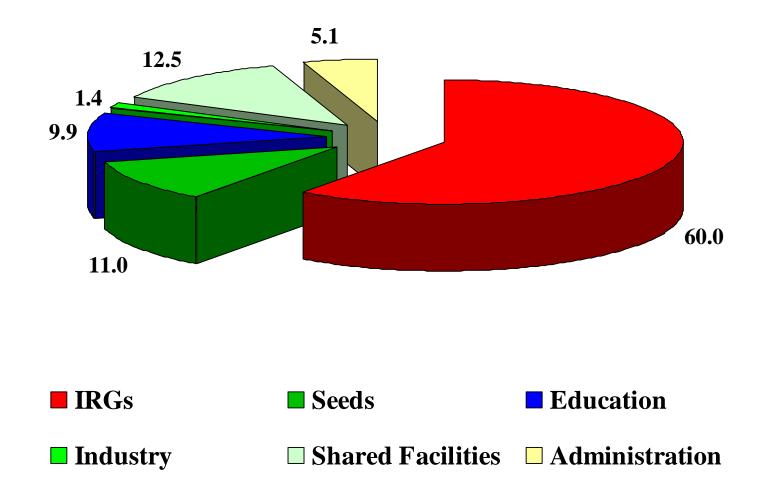
IRG-4

A National Research and Education Resource

Anika Odukale, Craig Hawker



MRSEC Expenditures 2010-2011 as % of Total Budget, ~ \$54 M/yr





Questions?





Materials Research Facilities Network (MRFN) Virtual Instrumentation Partnership (VIP)

A. A. Odukale, C. J. Hawker

DMR05-20415

Initiative provides access to analytical instrumentation instruction to Minority Serving and Primarily Undergraduate Institutions through virtual experiences

