

# DMR – *Where Materials Begin and Society Benefits*



Linda Sapochak, Division Director  
Division of Materials Research  
Mathematical & Physical Sciences





# New Leadership at NSF – new directions.....



Sethuraman Panchanathan, NSF Director → “he doesn’t hide his support for “use-inspired research.”

*T. I. P.*

“When you engage in user-inspired research, the fundamental research questions that you ask yourself become different,” he notes. “I would have never even seen some of the problems that I solved in computer science but for the fact that some of my work was use-inspired.”



Sean L. Jones,  
Assistant  
Director , MPS



Alex Klironomos, Deputy Division Director, DMR







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*Materials Research crosses many parts of NSF*


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


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


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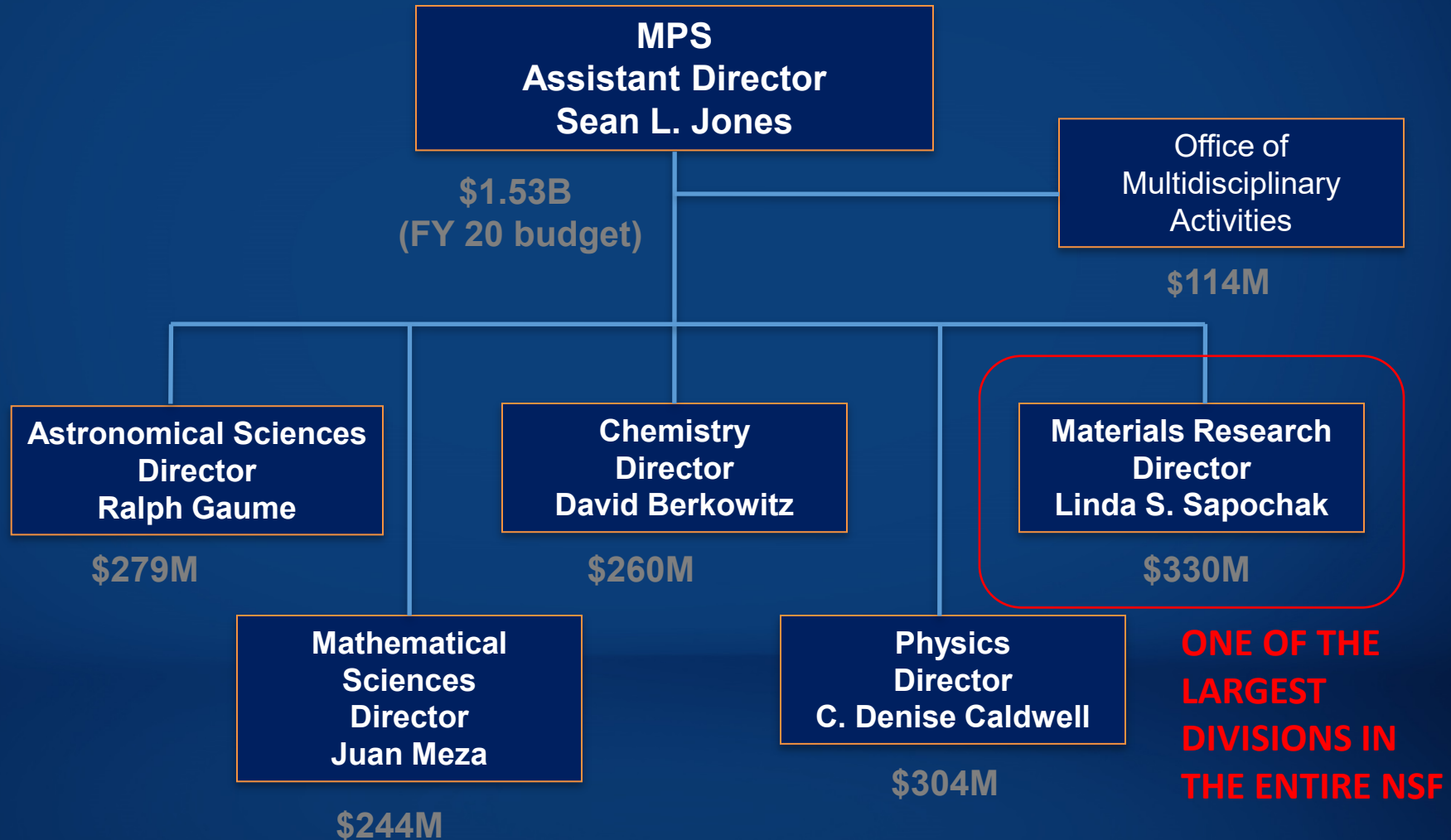


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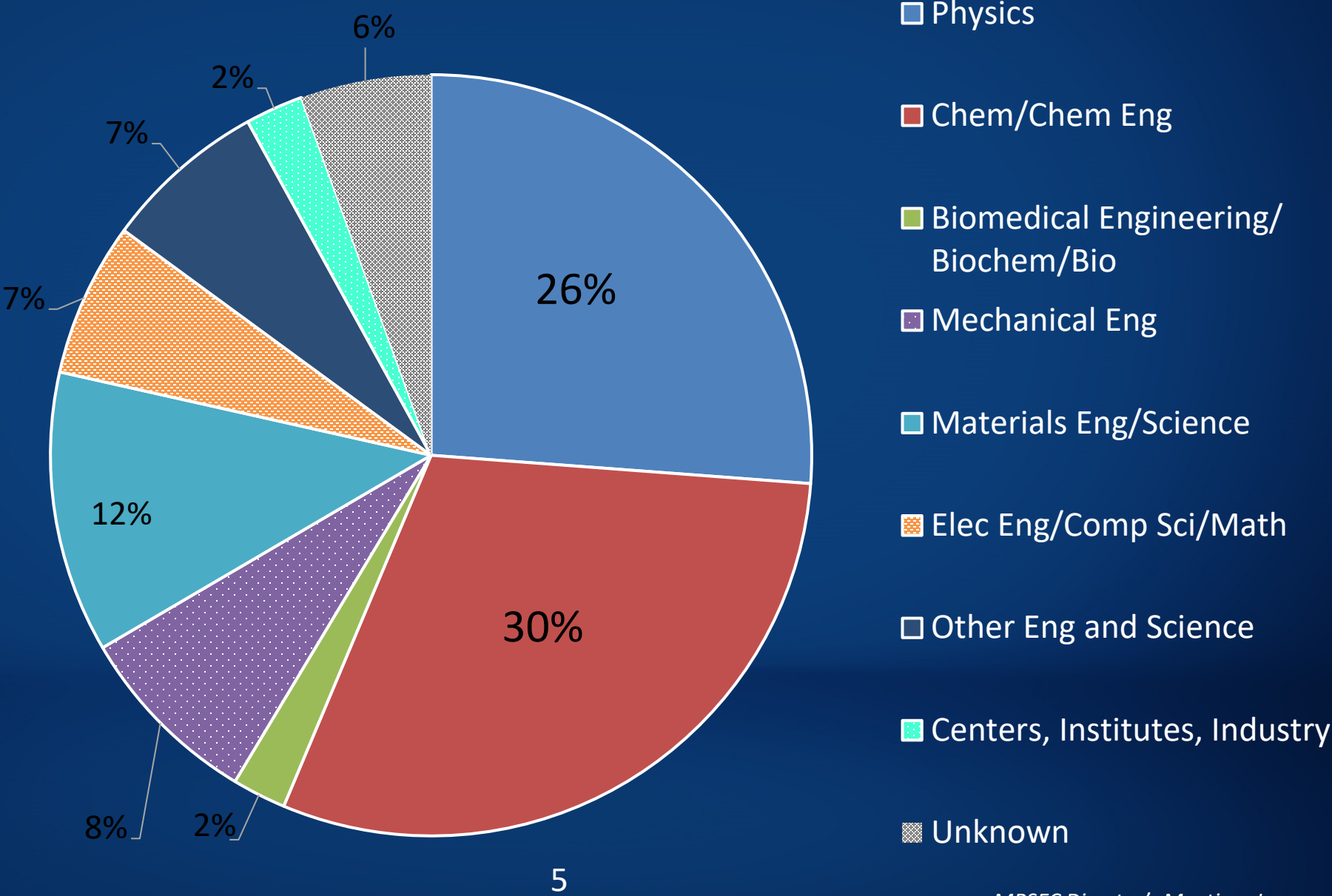


# Mathematical and Physical Sciences

**MPS**



# DMR TMRP PI Departmental Affiliations





# DIVISION OF MATERIALS RESEARCH (DMR)

## Topical Materials Research Programs (TMRPs)

- Biomaterials
- Ceramics
- Electronic & Photonic Materials
- Metals and Metallic Nanostructures
- Polymers
- Condensed Matter & Materials Theory
- Condensed Matter Physics
- Solid State and Materials Chemistry

## Cross-Cutting Activities

- Diversity & Inclusion
- Workshops/Conferences/Square Tables/Studies
- Education
- International

## Centers & Teams

Materials Research Science & Engineering Centers (MRSEC) 19

Science & Technology Centers (STCs) 2

Partnerships in Research & Education in Materials (PREM) 13

Designing Materials to Revolutionize & Engineer our Future (DMREF)

Q-AMASE-i

*SemiSynBio  
AI planning grant  
Future Manufacturing  
FDA Scholar  
ERC  
EFRI*

## National Facilities & Instrumentation Program

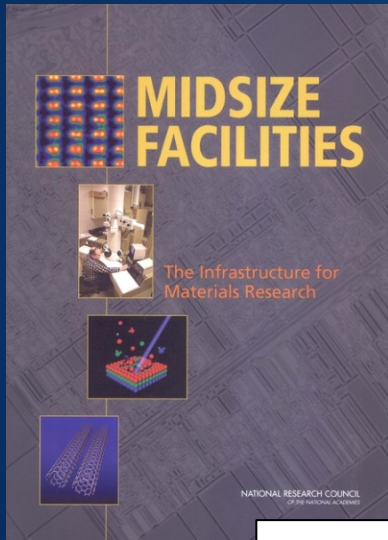
- National High Magnetic Field Laboratory (NHMFL)
- Center for High-Energy X-ray Science (CHEXS)
- Center for High Resolution Neutron Scattering (CHRNS)
- +++++
- National Nanotechnology Coordination Network (NNCI)
- ChemMatCARS
- +++++
- DMR Mid Scale Projects 1
- NSF MidScale Instrumentation 1 1
- NSF MidScale Instrumentation 2 1
- Materials Innovation Platforms (MIP) 4



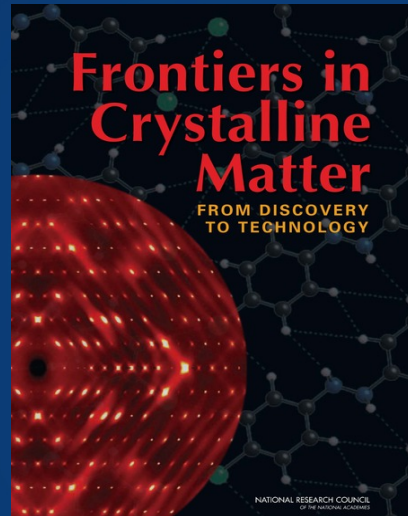


# Important Reports for Materials Research

2006



2009



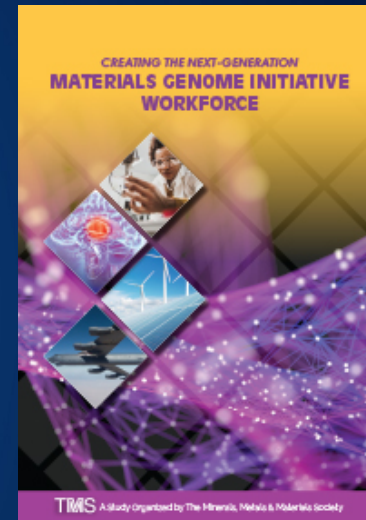
2020 – MRS Bulletin November  
**Frontiers in hybrid and interfacial materials chemistry research**

2021 – Engineering Biology and Materials Sciences Roadmap (EBRC)

2017



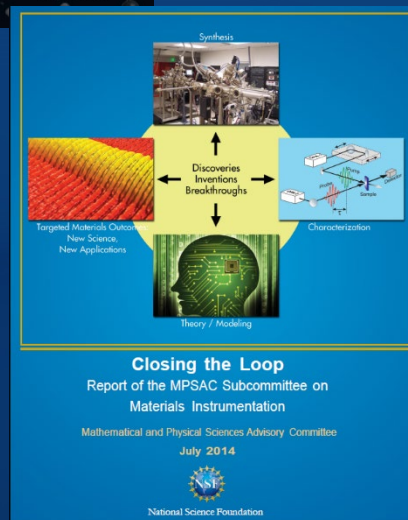
2019



2017

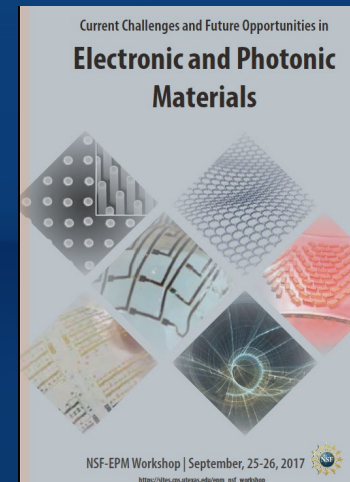


2011

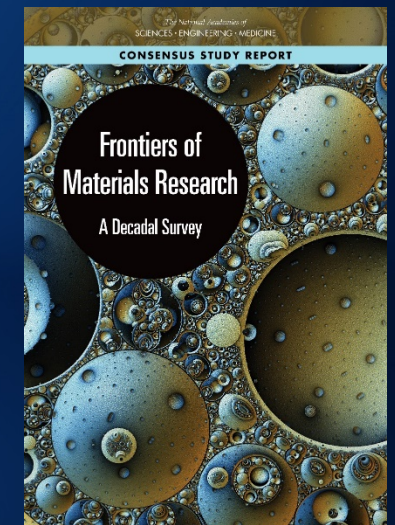
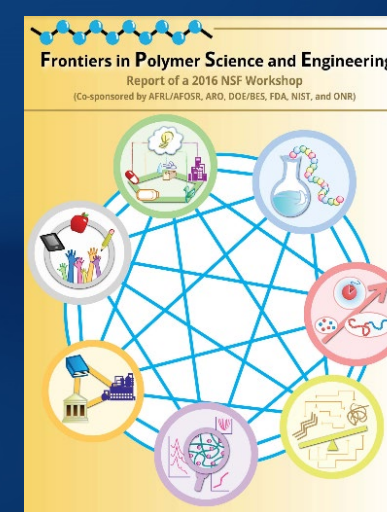


2014

2017



2019



MRSEC Director's Meeting, January 28-29, 2021



# MRSEC - MISSION AND IMPACT

1. MAJOR IMPACT ON UNIVERSITY- COULD INCREASE TO REGIONAL, NATIONAL, INTERNATIONAL IMPACT? How is MRSEC distinguished from other center/institute/other programs?
2. DIVERSITY & INCLUSION - JOIN FORCES ACROSS MRSECS, WHAT ABOUT ACROSS MPS-SUPPORTED CENTERS, INSTITUTES, PLATFORMS?
3. WHAT IS SUCCESS AFTER 6 YEARS? WHAT IS SUCCESS AFTER DECADES?





THANK YOU!

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