



Update on the Directorate for Mathematical and Physical Sciences

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Assistant Director



Recap From August



MPSAC and MPS
A Two-Way Street

NSF'S
10 BIG IDEAS



MPS → Community Community → MPS



NSF-Wide News

New NSB Members

- Maureen Condic – Neurobiology & Bioethics
- Suresh Garimella – Mechanical Engineering
- Steven Leath – Plant Pathology
- Alan Stern – Planetary Sciences
- Stephen Willard - Biotechnology

NSB Reappointments

- Geraldine Richmond - Chemistry
- Maria Zuber - Geophysics

News Release 18-082

NSF announces new measures to protect research community from harassment

New policy requires awardee institutions to report sexual harassment findings

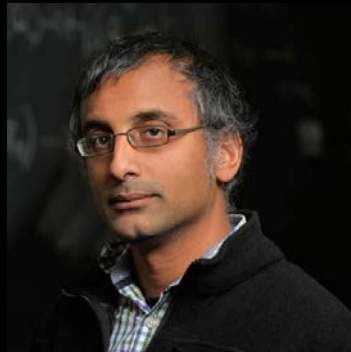


2018 MPS Awardees



Five NSF-funded Nobel laureates

- Physics: **Gérard Mourou**
- Chemistry: Frances H. Arnold, **George P. Smith**
- Economics: William Nordhaus, Paul Romer



Akshay Venkatesh



Alessio Figalli



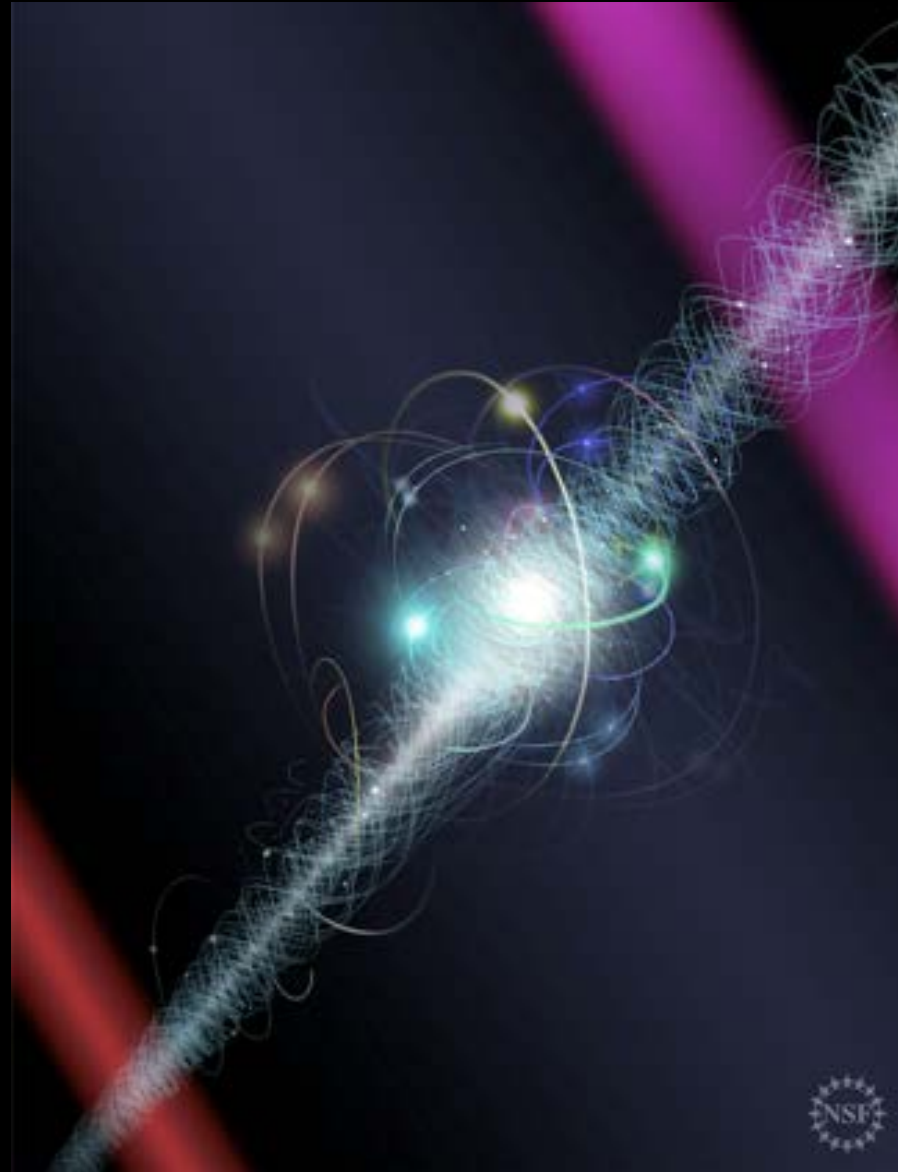
Allan Sly



Clifford Brangwynne

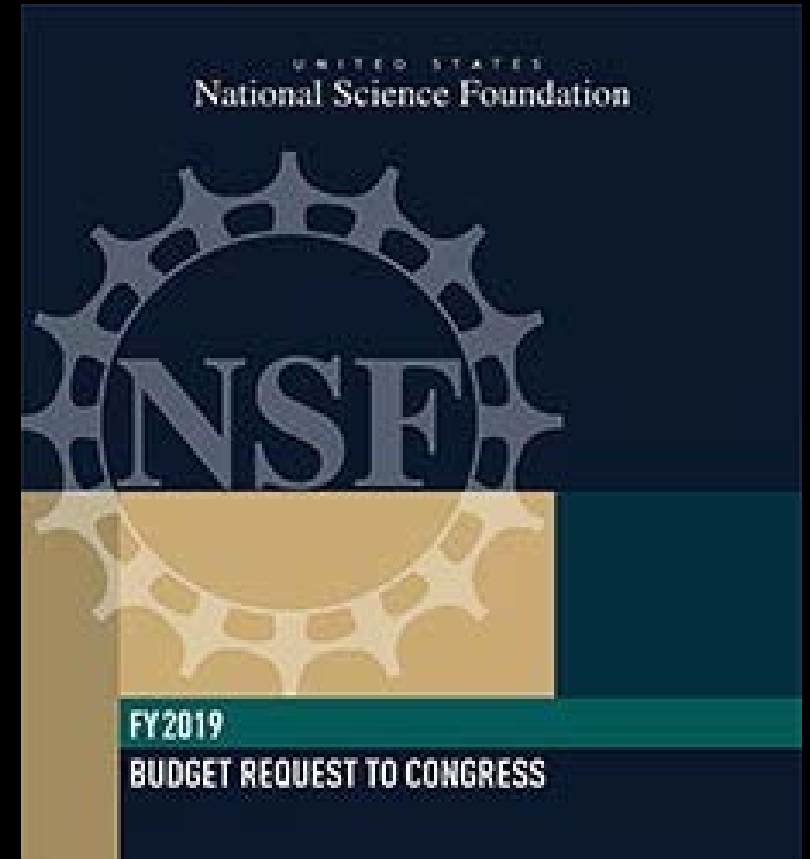


ACME-II Electron Dipole Moment Result

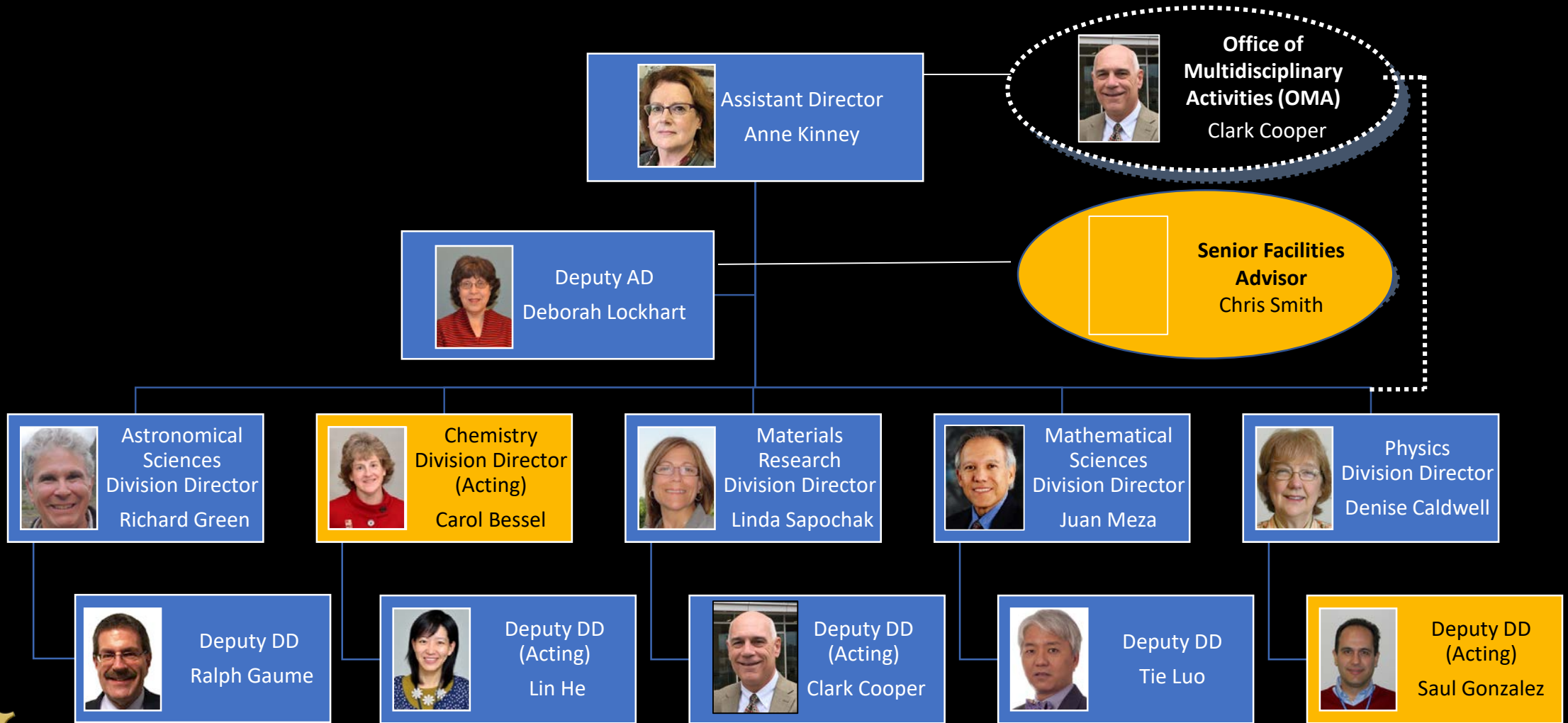


Budget

- FY 2018
 - Actuals not yet available
- FY 2019
 - MPS Budget Request: **\$1.345 Billion**
 - NSF is operating under a Continuing Resolution until 12/7/18
- FY 2020
 - Request available in Feb 2019



Directorate for Mathematical and Physical Sciences



Where in the World is Anne Kinney?



LIGO -
Livingston,
LA and
Caltech

MagLab
Tallahassee, FL



LSST, Gemini South, LCO, ALMA, ESO
Chile



Upcoming Events for the AD

- Presentation of MPS Portfolio to the National Science Board (Nov 28)
- NSB Trip to Antarctica (Nov 30 – Dec 8)
- MPS Senior Staff Retreat (Dec 13 - 14)
- Future Trips
 - Kitt Peak National Observatory (Tuscon, AZ - January 2019)
 - ChemMatCARS (Lemont, IL - February 2019)
 - Additional visits TBD throughout 2019



Agenda

Day 1

- Big Ideas: Mid-Scale Research Infrastructure
- MPS Distinguished Lecture: Does Data Size Matter?
- Prep for Meeting with NSF Director

Day 2

- Division Presentations on Community Input
- Crafting the MPS Strategic Vision for the Future
- Big Ideas: NSF INCLUDES
- Discussion with NSF Director and Chief Operating Officer
- Wrap-up Discussions



Questions to consider:

- How is the critical role of **mid-scale investment** best communicated, and how does it support the two MPS-led Big Ideas (Quantum Leap and Windows on the Universe)?
- In the past (at your current or previous institutions), **how has strategic planning in the sciences been executed**? Which planning mechanisms are the most effective for realizing long-term goals?
- How can MPS best contribute to **broadening participation efforts** across our five divisions, as part of the NSF INCLUDES Big Idea and within our directorate-level core programs?

