



NSF Perspective (AST and Personal)

- Solar/Stellar, Star-Planet, Astrosphere/ISM interactions
 - Relevant, exciting, successful, interdisciplinary
 - Should be able to make case to general public; advantages and disadvantages to calling it “space weather”
 - Crosses arbitrary borders at funding agencies...
- **NSF: GEO/AGS and MPS/AST**
 - 2 NSF-supported solar observatories (HAO-AGS; NSO-AST)
 - AGS and AST have very different “cultures”
- **NASA: Astrophysics, Heliophysics, Planetary**



MPS/AST Staff Who Might Deal with Solar/Stellar and/or “Space Weather”



Jim Ulvestad
Division Director



Pat Knezek
Deputy DD



Dave Boboltz
NSO/ATST



*Craig Foltz
NSO/ATST



Dan Evans
ESP



Joan Schmeltz
AAPF



Jim Neff
AAG/SAA



*Maria Womack
AAG/PLA



GEO/AGS Staff Involved With Solar/Space Weather

- Division Director: Paul Shepson
- Section Head/ Geospace: Rich Behnke
- Facilities (HAO): ?
- Solar Terrestrial (eg SHINE): Ilia Roussev
- Space Physics/Weather: Theresa Moretto-Jorgenson
- Miscellaneous: Rob Robinson
- Their funding mechanisms (SHINE, GEM, CEDAR, etc.) & facilities management follow a different model than AST.
- But we are working together as never before. Need better NSF-NASA coordination.



AST Perspective on Solar/Stellar Astrophysics

- We are very interested in ensuring a vigorous ground-based solar observing community (DKIST)
- We recognize the exciting advances in solar-stellar, star-planet, astrosphere-ism interactions, and support them through normal grants program.
 - My concerns include fairness and portfolio balance.
- We understand synergy between science and service outcomes of NISP. Efforts underway to maintain capability consistent with our “mission”.





FY16 Multiagency Strategic R&D Priorities (from OMB & OSTP, July 2014)

- Advanced manufacturing and industries of the future
- Clean energy
- Earth observations
- Global climate change
- Information technology & high-performance computing
- Innovations in life sciences, biology, and neuroscience
- National homeland security
- R&D for informed policy-making and management



Highlights

- DKIST New Start this year. Construction underway!
- NSO Management Cooperative Agreement
 - 10 years starting ~ 1 Jan 15, with mid-term review
 - Includes language implementing Portfolio Review committee recommendations on divestment and on move to Boulder
- National Space Weather Implementation Plan
 - AST participating, struggling to clarify our role
 - NSIP central to this, but not the only concern
 - Basic research needed for fundamental breakthrough in understanding; that's our primary role.
- Efforts to secure continued funding for GONG
- NSO relocation to Boulder presents unique challenges and **opportunity for leadership** from both **NSO and CU**



AST Programs & Funding Mechanisms

- Astronomy & Astrophysics Grants (~\$40M)
 - Typically 3 years, but can be 1-5 years. Median request last year was \$416K. Success rate was ~16%. One program, on annual cycle (due 17 Nov 14) with panel reviews. 4 elements: EXC, GAL, SAA, PLA.
 - SAA and PLA both play a role in the this kind of science
- INSPIRE (\$1M, 5 years, no separate funding), CDS&E, and other co-funding (Epscor, AGS, International Programs, etc)
- AAPF, CAREER, REU Site, Supplements, Workshops
- MRI, ATI for instrumentation/technology
- Mid-Scale Innovations Program (>\$4M)
- Science and Technology Centers (~\$20M)



Policy Input and Guidance

- AST Policy Input
 - Astro2010 NWNH decadal survey
 - Portfolio Review (2012)
 - ?mid-decadal survey?
 - CAA, AAAC, CoV, User's Committees, etc
- AGS Policy Input
 - Solar & Space Physics decadal (2013-2022)
 - NSWP Strategic Plan (2010); AST is involved with work on Implementation Plan
- Interagency Input and Deliberation (e.g. NASA/NSF)
- Program Officer interactions with community



Input/Questions from this group...
