Status of the Solar-Terrestrial Research Program & SHINE

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(Presented by Paul Bellaire)
Funding and the NSF

Solar Physics Funding Sources
Upper Atmosphere Budgets

Annual Budgets

“Parity” Ahead?

FY

M$


Aeronomy
Mag.
Solar
Facilities
2003 % increases

- Aeronomy: +4.8%
- Magnetospheric Physics: +10.2%
- Solar-Terrestrial Physics: +10.4%
  - Extra increase to help initial SHINE funding
- Upper Atmosphere Facilities: +19.9%
  - Extra increase for AMISR (...finally...!)
- Average increase in ATM (non-facilities): 9.2%
Solar-Terrestrial Budget Detail

FY2003 up 10.4% from FY2002

$190K from UARS reserve

$1.48M from MRI (maybe…)

$150K from AFOSR/ONR

$200K from DoE
Proposal Pressure Gradient

![Bar chart showing proposal pressure gradient from 1994 to 2003.]
Current status of NSF budget for 2004

- **Administration request:**
  - Overall increase: +2%
  - Increase for core programs <1%

- **Congress Authorization**
  - Overall increase: +15%
  - Increase in core programs <15%

- **Congressional Appropriation?** Still TBD
Special Programs

- National Space Weather Program
  - New solicitation for 2004 unlikely
  - Next solicitation in 2005
- Special Initiatives
  - Information Technology Research (ITR)
  - Collaboration in Mathematical Geosciences
    - Requires participation of mathematician
    - Subject must include multi-scale processes and coupling
  - BioComplexity
  - Nanotechnology
- Major Research Instrumentation (MRI)
- CAREER
- SHINE
SHINE 2003 Competition

- 31 proposals submitted (up from 15 in FY2002)
  - 2 returned w/o review & 1 withdrawn
  - 2 for SHINE postdoc competition BOTH FUNDED!!
  - 1 collaborative
- 10 proposals have been recommended for funding (38% success rate – down from over 46% last year).
- Total FY2003 funding: $867K (up from $448K in FY2002…net program currently at $1.3M/yr)
- FY2004 competition unlikely
National Space Weather Program

- $200 K from AFOSR and $100 K from ONR
- Total funds available: ~$1.6 M
- Proposal Deadline was Jan 16
  - Total number of proposals: 50
    - 16 AER, 2 AER/MAG, 16 MAG, 16 STR
- 4 STR proposals will be recommended for funding
  - ~25% success rate (down from 60% in FY02)
  - Total first year funding (STR): $300K (down from $659K in FY02)
Reviewers

The return rate of reviews solicited for STR proposals is (by far!) the lowest in ATM (~50%), and probably in GEO as well.

My goal was one request for 12 month period per reviewer.

Shameful performance!
Faculty Development in the Space Sciences

- Lanzerotti Report calls for “bridged positions”
- Draft “Announcement of Opportunity” forwarded by ATM Director Jarvis Moyers to GEO Assistant Director Margaret Leinen for review and comment
- AST Director Wayne Van Citters calls for white paper on decline in faculty positions in solar physics [see S. Keil & M. Giampapa for details/input]
- Next steps to be determined
- Stay tuned for breaking news…
Summary

- Budget was up *more* than the UARS average
- Number of proposals was *way* up
- Success rate was *way* down
- I am cautiously optimistic that the next few years will be good ones
- UARS & ATM are open to the “parity” argument
- STR Program Director Applications due 18 July
- So long, it’s been fun…
- …and don’t even *think* about sending me any proposals to review!