

**LWS MOWG  
Report to the HPS**

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# LWS MOWG Status

- Last in-person meeting in October 2006
- Telecon held on 7 June 2007; results reported in this briefing
- Planning to meet again in early September 2007
- Expect a few membership changes due to moves, etc.

Name		Affiliation
Joe Mazur,	chair	The Aerospace Corporation
Spiro Antiochos		NRL
Sarbani Basu		Yale University
Paul Bellaire		NSF
Joseph Davila		GSFC
Tamas Gambosi		University of Michigan
Michael Golightly		AFRL
Don Hassler		SWRI, Boulder
Jeff Kuhn		University of Hawaii
Judith Lean		NRL
Tony Manucci		JPL
Glenn Mason		JHU/APL
Terry Onsager		NOAA
James Spann		MSFC
Harlan Spence		Boston University

# Highlights From LWS Lead Program Scientist

- **Recent successful launches**
  - Hinode, STEREO; THEMIS; AIM; Twins-A
  - important for LWS because the program's systems science approach uses all such relevant mission data
- **Upcoming LWS workshop**
  - "From the Sun Towards the Earth"
  - 10-13 September 2007 in Boulder, CO
  - [www.imsal.com/LWS2007](http://www.imsal.com/LWS2007)
  - First Heliophysics Summer School to produce graduate level heliophysics text books
  - [http://www.vsp.ucar.edu/Helio\\_info.html](http://www.vsp.ucar.edu/Helio_info.html)
  - 3 D STEREO planetarium show
- **Details of SMEX AO**
- **New senior advisor for R&A (Dr. Yvonne Pendelton)**
- **NASA is the new chair for the ILWS (2007-2008)**

# Highlights From LWS Lead Program Scientist

- **Mission status:**
  - SDO I&T continuing, instrument deliveries summer/fall 2007
  - RBSP Phase-A will be complete in February 2008
  - Geospace MoO Phase-A reports due September 2007
  - Formed joint science & technology definition team for LWS Solar Sentinels & ESA Solar Orbiter
    - report due September 2007
    - missions discussed at bilateral NASA/ESA meeting 4-6 June
- **TR&T**
  - FY07 proposals selected: 42 (1/3.5); included 1 strategic capability
  - new proposals due October 2007, selection for FY08, March 08
  - steering committee report received. Will be posted on the [lws-trt.gsfc.nasa.gov](http://lws-trt.gsfc.nasa.gov) in late June 2007
- **Briefed the schedule for the next roadmap (2007-2008)**

# Review of October 2006 MOWG Findings

Finding	Relevant quote from the finding	Current status
Role of LWS program in ESMD	“the MOWG recommends that a dialogue between SMD and ESMD be established to enable participants in the LWS program and its managers to better understand the concepts for lunar operations in the Exploration strategy”	<ul style="list-style-type: none"> <li>•dialogue with office of NASA Chief Engineer (Chris Scolese)</li> <li>•internal NASA document on space radiation (L. Guhathakurta &amp; R. Fisher)</li> </ul>
LWS TR&T funding	“the MOWG therefore believes that continued strong support and future augmentation of this program will significantly advance the LWS goals”	<ul style="list-style-type: none"> <li>•secured funding for a new focus topic from Planetary Division</li> <li>•steering report is just complete</li> </ul>
Impact of loss of NPOESS solar & space environment sensors	“the MOWG recommends that NASA explore with its interagency partners the actions necessary to restore these critical observations”	<ul style="list-style-type: none"> <li>•provided inputs to National Space Weather Program via the Committee on Space Weather</li> </ul>
IT-storm probes	“the MOWG strongly recommends that LWS form a dedicated and responsive task force of community members to understand the implications of delaying ITSP”	<ul style="list-style-type: none"> <li>•delayed until now due to changes in NASA personnel</li> <li>•grass-roots effort led by J. Clemmons</li> <li>•upcoming SMEX AO is an opportunity for IT community</li> </ul>
Solar probe technology risk reduction	the MOWG “encourage(s) the continuation of these risk mitigation activities”	<ul style="list-style-type: none"> <li>•minimal level of effort continues</li> <li>•no scale model of heat shield in current scope</li> </ul>
Updating the LWS science architecture plan	“the MOWG finds that the science architecture plan for LWS needs to be updated”	<ul style="list-style-type: none"> <li>•plan will be revisited</li> </ul>

# Remarks on the Draft Heliophysics Science Data Management Policy

- **The following are remarks from our telecon; some MOWG members have been in touch with Chuck and Aaron directly**
  - Document is consistent with what we have previously heard from NASA about a new data policy
  - Encouraged that the document states the importance of NASA data centers (SDAC; NSSDC; SPDF)
  - Discussed virtual observatories and related metrics: by what means will the community know how well the VxO's are working?
- **Some specific questions:**
  - Who will review the function of the resident archives (voluntary reviews or data policy committee? - answer: community feedback instead of a formal community review)
  - Will there be a standard template for project data management plans & mission archive plans (the policy document refers to things the plans “should” include but are they required?)

# Backups

## Heliophysics Mission Data Lifecycle

Event	Launch	End of Prime	End of New Data	End of Mission	Final Archiving
Data Actions	Data system production	Reduction, PI serving, product improvement		Final data file prep., PI Serving	Serving; PI help  Preserving Serving
Archive Status		Active Archive (mission-based; others possible in all phases)			Resident Archive  Permanent Archive
Data Mgmt Document	PDMP Prep. and approval	PDMP use; MAP preparation and use in the Extended mission			RA plan  Archive Plan (MOU)
General Serving		Virtual Observatories and Services			
Manage- ment	Mission (Program/Project)		Mission (Prog./Proj.) (with Senior Review)		NSSDC