

SPD Member's Meeting
Room 5 Dena'ina Center
Tuesday June 12 6:00pm – 10:30pm

Meeting started at 6:08pm:

Chair David Alexander introduced Kevin Marvel (AAS executive officer)

Kevin Marvel:

- Impressed by your attendance.
- Main activity of the society: Publish journals: ApJ, AJ, went through transition to IOP from Univ. of Chicago press. Run AAS meetings, support division meetings, happy to have joint meetings with the SPD. Start new topical conference series, driven by proposals approved by the president. Next year will be the first, encourage topical proposals on heliophysics. Takes all the financial risks for organizing the conference. Put in a proposal next year will be in the 2014 round. Public policy: support division representatives to come to Washington to promote decadal survey.
- Introduce David Helfand, the new president of AAS,

David Helfand (AAS President):

- Look forward to reading your decadal survey.
- Here to learn from your division, learn what AAS can do to provide you with more value. Hope you have a productive meeting.

Ed Deluca: what is the statistics of this meeting?

Kevin Marvel: Over 1200 registered attendees for this meeting, which is very good. The success is due to the fact that people are not only interested in the science program, but are also interested in the outdoor activities. We are comfortably in the black for this meeting. Very happy with the outcome.

David Alexander (chair's report):

- Election results: Welcome incoming members: Leon Golub as the new vice chair, Yuhong continues as the secretary for the second term, Tom Berger, and Terry Kucera as the new committee members. Thank you to all who stand for election. Thank you to outgoing members: Todd Hoeksma, Kathy Reeves, and Marc DeRosa leaving the committee. Thank you to outgoing vice chair Shadia, who now becomes a committee member.
- Announcements of Awards: Hale Prize is awarded to Don Reames of the NASA Goddard Space Flight Center. The Harvey Prize is awarded to Dibyendu Nandi of the Indian Institute of Science Education and Research, Kolkata. Popular writing awards: two scientist awards, one journalist award. In the Journalist category: Ron Cowen for his article "Spots suggest sun's doldrums likely to continue" in the March 26, 2011 issue of Science News (pp 5-6). The citation reads: This review by Mr. Cowen of an ongoing scientific debate about possible underlying causes of fluctuations in solar cycles is accurate and informative while remaining succinct and educational. In the scientist category, we have two winning articles: one is the article by J. Kelly Smith, David L. Smith & William L. Joyner, "Solar Radio Astronomy" in the February 2011 issue of Sky and Telescope (pp 66-71). The citation reads: This article about solar radio astronomy makes an often overlooked sub-field of solar physics look as sharp and cutting-edge as ever. Drs. Smith, Smith and Joyner, three amateur radio astronomers, give an enlightening and captivating review of this field, completed by a do-it-yourself guide for prospective amateur radio astronomers. The other winning article is by Daniel N. Baker & James L.

Green, "The Perfect Solar Superstorm", in the February 2011 issue of Sky and Telescope (pp 28-34). The citation reads: Drs. Baker and Green wrote an excellent introduction to extreme space weather and its possible impacts on our society, providing a clear and instructive overview of the National Academy of Sciences report on severe space weather events to the general public.

– Award presented to Dan Baker.

Report by Gordon Emslie on studentship awards:

- 33 years of studentship awards, 3 solar cycles, started 1979.
- This year 11 new studentship awards, provided by 3-4 sources of funding. The recent NSF grant through NMSU doubled our source of funding for studentship awards.
- There are a growing number of international recipients.
- Generally each student only gets this once.
- The NSF grant also funds student travel to other meetings.

Dana Longcope: how many applications?

Answer: This year 15 applied, 80% receive the awards.

Report by Todd on Metcalf award:

- This award is for recent Ph.D. recipients, supporting their travel to meetings
- Supported two meetings this year, let meeting organizers select the recipients. One meeting supported this year is the SDO4/Hinode/IRIS meeting, 3 awardees: Sven Bingert, Silvina Guidoni, and Laurel Rachmeler. The other meeting is the IAU meeting in Beijing: 2 awardees: Ben Brown and Juan Martinez Sykora.
- Nandy has donated his Harvey award to Metcalf award

Treasurer's report by David McKenzie:

- 2011: Dues collected ~ \$9000, up from ~\$5000 previous year
- Donation \$2365, stayed flat
- In 2011, the value of the SPD's portfolio decreased by ~ \$11,000, but made money all back in the first quarter of this year. Las cruces meeting: outstanding in not losing money, \$28,000 net income.
- 2011 studentship awards: 5 students supported by the SPD funds, 5 students supported by the NSF fund.
- 2012 studentship awards: 5 students supported by the SPD funds, 6 students supported by the NSF fund.
- We are going further into the black.
- Nandy has donated his Harvey prize to the Metcalf fund.
- Our SPD general fund is currently at a little over \$130,000

Ron: Why increase in revenue?

McKenzie: Membership did not go up, the increase in revenue is mostly due to the increase in dues.

Secretary's report by Yuhong Fan:

- Overall seeing a decrease in membership (total -51 from last year), mostly in the emeritus category.
- Solar News subscribers: total 1570, an increase of 34 from last year.
- About 30% of the eligible members voted in this year's SPD election. Need to do better.

Michael Knoelker: concerned with the emeritus loss, they have made tremendous contribution, we should not lose these people. We need to follow up.

Hathaway: Emeritus don't have funds to come to the meeting. Can we give funds to support their travel?

Hoeksema: We do already give emeritus student rate.

Vice Chair's report by Shadia Habbal:

- Worked closely with Lee-Anne Wilson in organizing the scientific program of the Anchorage meeting. Emphasizing solar stellar connection, selected for the two Parker lectures, Yvonne Elsworth (University of Birmingham): "How to observe (rather than model) the interiors of Stars", and Jeffrey Hall (Lowell Observatory): "Solar Twins and Stellar Maunder Minimum".
- Poll the SPD committee about whether to have parallel sessions, since we have 2 times over subscription for oral talks. As a result of the vote of the SPD committee, decided to try parallel sessions. We have about 100 oral talks with 10 pushed to posters. This is something we need to consider for the future. I encourage people to discuss this. We will have a meeting survey, about how to deal with over subscription.
- Two speakers with strong solar connections: Fran Baganel and Ellen Zweibel, were chosen invited speakers from the AAS side.

DeLuca: the 2:1 oversubscription of oral talks is acceptable in my point view.

Knoelker: Posters are relic of the past, we need to be able to present dynamic material, screen instead of paper. We need to think about different technological approach.

DeLuca: Hinode 5 had screen posters, non trivial cost, require real effort for moving and displaying the posters. But was very well received. There were 6 screens. 150 posters rotated on the screens.

Ron Moore: was fine with having 100 oral talks, but was not happy about parallel sessions in solar interior, and parallel sessions in CME and flares.

Ignacio reporting on EPO activity:

- Took over as chair from Zoe Frank last year. Amy Winebarger joined the committee replacing Emily Drobnos.
- Last year our expenses were not very large. All these expenses were incurred during the SPD meeting at Las Cruces, New Mexico. At the Las Cruces meeting we had an SPD student reception (as for every SPD meetings). We also had a public lecture, and public science events.
- Start to prepare for activities at the 2017 eclipse. Shadia is leading the effort.

David Alexander: On the budget, we have approved \$2000 (maximum) for the EPO committee each year.

Discussions on future meetings:

David Alexander: SPD 2017 meeting will be late August with HEAD.

David McKenzie: SPD 2013 meeting will be held at Montana State University, the week of July 8th. We have the whole week scheduled. Tentatively planning for a 3.5 day meeting. One question for you is whether a 3.5 days meeting is enough for a stand-alone meeting. Will announce in solar news. We will see how the parallel sessions at this meeting go to decide on the structure of the next meeting.

Need input on whether to have parallel sessions or a longer meeting. We will send out a survey. In the mean time you can email to McKenzie.

Craig DeForest: Given choice between an extra day of meeting or parallel sessions, would rather have another day of meeting.

Jim Klimchuck on possible future joint meetings with AGU:

- The idea is to have a SPD meeting every 3 years with the SPA session of the AGU.
- Poll the community about this, all responses are positive, but had only 75 responses. Submitted news article to SPA newsletter of AGU, asking whether they would be willing to attend, 150 responded, 85% positive. Strong response from the geophysics community. Talked about this with the SPD committee, the committee is behind it.

David Alexander: We need to solicit for meeting proposals on joint SPA and SPD meeting.

Jim Klimchuck: Some people commented too many meetings. But Geophysics community is very positive about this. Would this ruin our normal stand alone meeting? Envision most sessions at such a meeting are not going to be joint sessions, but stand alone sessions. Help to form closer bonds and more interactions.

David Alexander on planning of public policy congressional visit to promote the decadal survey:

- We have already selected a team for this congressional visit.
- We discussed about whether to continue such visit every year. We allocated \$3500 to support future visit each year. Would like to form a subcommittee on public policy.
- When is decadal survey coming out?

Dan Baker: apologize for not getting it out on 31 March as promised. Sent out for review only 7 of March, got excellent responses, 50 substantial required revisions, fully intending to have the material out by 1 of July.

Dana Longcope on Solar observatory council:

- Express gratitude to Steve Keil who will be stepping down as NSO director
- Search committee members for new NSO director: Len Fisk, Sprio Antiochos, Dick Fisher, Shadia Habbal, Louise Harra, Jack Harvey, KD Leka, Dana Longcope, Janet Luhmann, Mark Rast, Kim Streander.
- Please contact good candidates to send in application, Oct. 1 is the deadline.

Emslie: what is the level of publicity and openness of the search?

Dana: totally confidential about who are applying, only the committee members know who the applicants are.

Pevtsov: Important to have input from scientific staff of NSO to the search.

Observatory reports:

BBSO report by Phillip Goode:

- BBSO engineers and resident scientists
- NST main features
- Adaptive optics system
- IR imaging Magnetograph (IRIM): work horse instrument, calibrated IRIM VMG in FeI 1564.85, LoS Magnetogram in 10830
- Upgrade IRIM to NIR Imaging Spectropolarimeter in collaboration with KIS and UH
- FISS – Fast Imaging Solar Spectrograph, a collaboration between BBSO and Korean Solar Community.
- Cryogenic IR Spectrograph (CYRA): in its construction phase, a collaboration with NSO, HAO and UH.
- Visible Imaging Spectrometer
- Data on line on BBSO web site, intend to also put data on the SDO site.

NSO report by Steve Keil:

- There has been tremendous cooperation between ground-based observatories, a lot of this is pushed by ATST.
- During Venus transit: we had nice outreach activity. All telescopes have experiments going on. Looked at absorption lines in Venus atmosphere.
- ATST management change: T Rimmele- ATST director; J. McMullin- Project Manager; Tom Berger: Project Scientist (starting July 15, 2012); Simon Craig - Senior Systems Engineer. Going to construction phase of the telescope. All major systems under contract.
- A big problem: Conservation District Use Permit - contested case continues: hearings officer dismissed, report stricken from record, new hearings officer appointed. Report due mid July, 2012. Site construction plans to start in August 2012.
- Have integrated SOLIS and GONG as the NSO Integrated Synoptic Program (NISP). The air force is providing money to support GONG and the H_{alpha} observations.
- NISP spectral coverage: Near IR and Visible. All data are available online.
- What's new since last SPD:
 - o Akamai Workshops and Akamai Interns
 - o NSO director search
 - o NSF/AST Portfolio Review
 - o HQ relocation, Boulder is chosen as new site for NSO, moving 2014-2016 time frame
 - o Dunn Solar Telescope – experiment with service mode Jan/Feb 2013.
 - o McMath-Pierce Solar Telescope – divest or close facility FY15/FY16 time frame (may need to move up to FY13/FY14 time frame due to budget issues)
 - o FTS Spectrometer moving from Kitt Peak to Old Dominion University.
 - o Drastic budget reduction for FY13: 9.1 M – 8 M (12.1% cut)
- NSO operating budget vs. inflation since 1999 (graph)
- Impacts:
 - o Operational impact: early closure of McMP, Reduced support at DST.
 - o Increased difficulty of establishing new NSO site & ATST operational ramp-up
 - o Loss of 9 positions

HAO report by Michael Thompson:

- Organizational changes: new sectional structure and section heads
- HAO mission

- MLSO: our major facility, undergoing major program of new instrumentation including CoMP, K-coronagraph. Data from CoMP available, have demonstrated their value. K-coronagraph to replace MK4; Launched new data interface, with CoMP data;
- COSMO: 3 major instruments. (1) K-coronagraph: successful PDR August 2011, in building phase, deployment to MLSO next summer. (2) ChroMag: prototype under construction using base funds, first light through prototype at Mesa Lab dome summer 2012. (3) Large Coronagraph: prototype instrument CoMP now deployed at MLSO and serving daily observations to the community. Signed letter of intent to collaborate on maturing design of large coronagraph with colleagues in China.
- Databases: MLSO data and images; CSAC data base.
- Community models: so far mostly focusing on upper atmosphere models.
- Training of early-career researchers:
 - o Summer programs: NCAR's SOARS program; REU program led by LASP.
 - o Visitor program: support postdocs and long-term and short-term visitors.
- HAO public outreach: Sun-Earth connection exhibits at the Mesa Lab.

NASA report by Jeff Newmark:

- Fleet of spacecrafts for Heliophysics
- Number of new launches coming up next 5 years: RBSP, IRIS, MMS, ORBITER, Solar Probe Plus
- Budget: roughly flat.
- Heliophysics budget features: What changed: Covers increased launch vehicle costs; Modest investment in Sounding Rocket Sustainer Motor Design activity. What's the same: Fully funds missions in development: RBSP, IRIS, MMS, SOC, SPP; Continues support for 16 operating missions (Voyager, Wind, ACE, TIMED, RHESSI, STEREO, THEMIS/ARTEMIS, AIM, IBEX, SDO; Partnerships: Geotail, SOHO, Cluster, Hinode; MO: TWINS, CINDI); Maintains Supporting Research and Suborbital Program
- Heliophysics FY12 and FY13 Planned Accomplishments
- Explorer 2011 program: in phase A selection, hope to select at least 1 full Explorer.
- News on grants: ROSES 2011 SHP selection: 30 proposals out of 175 were selected, totalling~\$4.9M. LCAS+ITD ~\$1.7M. ROSES 2011 SH HGIP selection: 12 proposals out of 91 were selected for funding, totaling~ \$1.3M for FY12. ROSES 2012 SHP Program proposals have been received, 231 proposals, anticipate ~ \$6M in new first-year funding, ~ \$40 M requested in FY13, < 1:6.6 acceptance ratio. Peer review ongoing.
- Various documents of Strategic Planning
- Personnel change at NASA SMD Heliophysics division: Heliophysics director Richard Fisher retired, new director appointed: Barbara Giles.

David Alexander: Question about NASA funding involving China collaborations.

Jeff Newmark: Complicated. Cannot have bilateral collaboration with China. We can hire Chinese graduate students here, once they are here. Can have multilateral collaboration, e.g. going to IAU. Have no idea on how NASA participation on analysis of COSMO data would work. Cannot fund proposals which have China collaboration if they are the only collaborators.

Meeting adjourned 10:30pm