PhysPAG

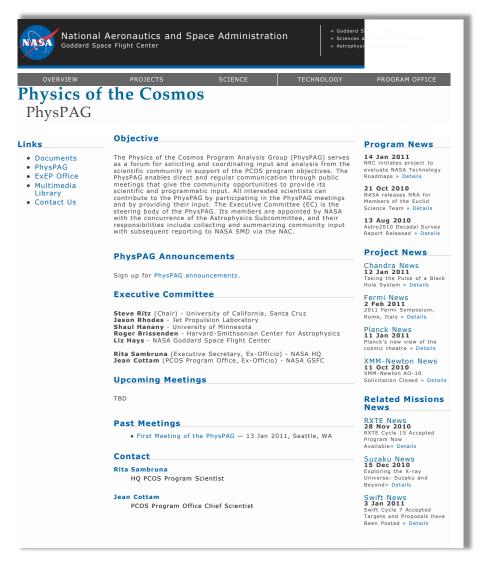
F2F2 Meeting Goals and Agenda 1 May 2011

S. Ritz

See

http://pcos.gsfc.nasa.gov/physpag.php

Includes email sign-up for news and announcements



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Executive Committee Members

- Roger Brissenden (CfA)
- Shaul Hanany (Minnesota)
- Liz Hays (GSFC)
- Guido Mueller (UFL)
- Jason Rhodes (JPL)
- Steve Ritz (UCSC), chair

Acronyms

- APS = Astrophysics Subcommittee of the NASA Advisory Committee (NAC) Science Committee
- APS = American Physical Society

Summary of January Discussions

- Define first working groups (SAGs). After discussion, recommend for approval by APS (convener in ()):
 - 1. NRC Technology Study inputs (<u>Brissenden</u>), leading to...
 - 1a. Technology Development planning for Explorer science and beyond.
 - 2. Inflation Probe (<u>Hanany</u>)
 - 3. Community Interactions/Interfaces/how people join (<u>Ritz/Rhodes</u>)
- Ask NASA to provide one POC for each
- Additional activities suggested:
 - Have a look at NRA language
 - Previous language now, ask to see draft language in late summer/early fall
 - Report our analysis to the APS, which can make recommendations
 - Hear technology development plans for PCOS missions and NASA R&T program plans.
 - See
 http://www.nasa.gov/pdf/501624main_TA08-SIOSS-DRAFT-Nov2010-A.pdf
 and http://www.nasa.gov/offices/oct/home/roadmaps/

PhysPAG Activities Since February

- Inflation Probe SAG (IPSAG) [Shaul Hanany coordinator]
 - Email sent out to community on March 10. First Telecon 21 April.
- Technology SAG [Roger Brissenden coordinator]
 - Several telecons, many emails, much work to prepare inputs to NRC study. Approximately a dozen participants.
- Updates/improvements to the website (thanks, PCOS office!)
- Approval of tasks by APS.

An Overall Goal

- PCOS is a program, not a (single) community
- Big changes, recent international developments => need to engage communities involved in PCOS science
- This meeting:
 - Status and next steps for our existing tasks
 - Additional opportunities for PhysPAG to facilitate community involvement, additional tasks planning
 - Note: NASA is planning a PCOS Newsletter our inputs requested

Agenda

- Intros, goals for the meeting, summary of APS meeting discussions Steve (15)
- News from HQ Rita (10+10)
- PCOS office activities Jean (5)
- PCOS Program Office Technology Studies Jackie Townsend (10+10)
- TechSAG Roger, discussion (10+15)
- Gamma-ray science in the coming decade discussion Liz, all (10+10)
- 10:45 BREAK (15)
- CMB Science in the coming decade and IPSAG report Shaul, all (10+10)
- Gravitational wave science in the coming decade discussion Guido, all(10+20)
- X-ray science in the coming decade discussion Pat Slane, all (10+20)
- COMMUNITY INPUTS AND COMMENTS, additional topics (20)
- Possible additional SAGs and community interactions brainstorming all (20)
- AOB (5)
- Action items summary, next meeting (10)
- 13:15 ADJOURN

Other Questions/Issues For Additional Discussion

- International Discussions
 - What and when?
 - International participation in SAGs
 - Support for US people participating in international processes (e.g., Cosmic Visions) that do not yet have NASA participation to facilitate later integration? APS issue.
- How best to position PCOS missions for DSIAC and next Decadal
 - including scope and cost
- LISA, IXO Tech Development
 - These programs have their own SWGs, but useful for PhysPAG to hear details
 - Understand support levels and timescales
 - Hear what might be missing
- Dark Energy
 - WFIRST flow of information to/from PhysPAG. Fall between cracks? APS issue.
 - Other missions (EUCLID, ...)
- Tests of GR beyond gravitational waves
- Other Technology Development (e.g., SAT)
 - See Astro2010 inputs.
 - Identify scales: from small-group activities through pathfinder missions
 - Additional areas to consider, e.g., all-sky survey/wide FOV, data handling, space qualified optical clocks for fundamental physics tests, formation flying,...