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
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 (Brissenden), leading to…  
    • 1a. Technology Development planning for Explorer science and beyond.  
  – 2. Inflation Probe (Hanany)  
  – 3. Community Interactions/Interfaces/how people join (Ritz/Rhodes)
• 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.  
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,…