

Cosmic Origins Program Analysis Group (COPAG)

Astrophysics Subcommittee Meeting

October 22-23, 2015

Kenneth Sembach

Current COPAG Executive Committee Membership

Name	Institution	Term Expiration
Daniela Calzetti	U. Mass. Amherst	Jan 2017
Dennis Ebbets	Ball Aerospace (retired)	Jan 2017
James Green	U. Colorado	Jan 2017
Matthew Greenhouse	NASA GSFC	Jan 2018
Sally Heap	NASA GSFC	Jan 2017
Mary Beth Kaiser	Johns Hopkins U.	Oct 2017
Joseph Lazio	NASA JPL	Oct 2017
Pamela Marcum	NASA ARC	Oct 2017
Vacancy	TBD	Oct 2018
Ken Sembach - Chair	STScI	Mar 2016

10 members + ex-officio (S. Neff & D. Padgett in COR office, M. Perez & K. Sheth at HQ)

COPAG Executive Committee Member Replacements

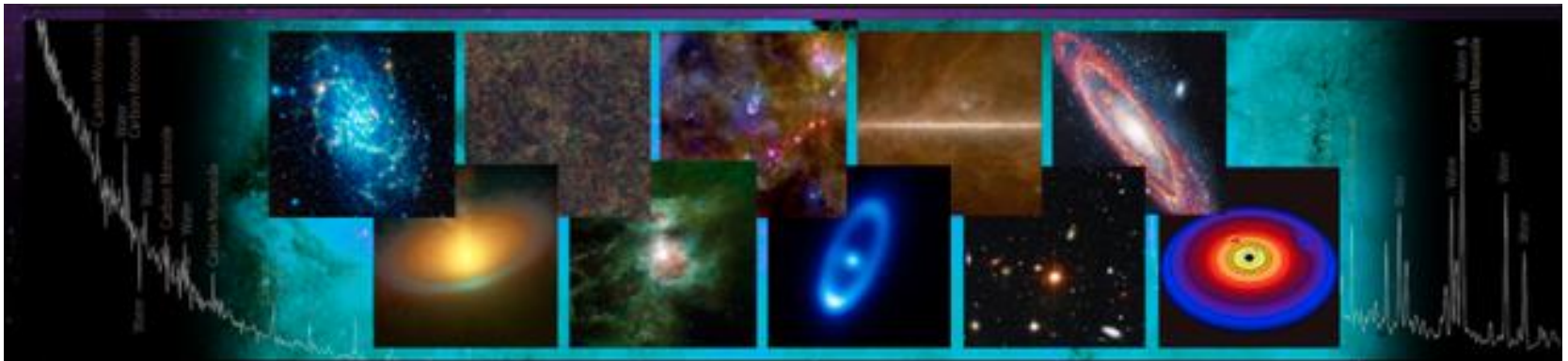
- “Dear Colleague” letter was sent to the community on July 22, with a nomination deadline of September 4.
- Members selected for these two slots must be from academic institutions, as per guidelines from NASA HQ
 - Institutional balance of committee
- Option to add a third new member slot to the EC to balance term expiration dates
- Good pool of qualified nominees, review complete
- A recommendation has been made to NASA HQ, with final decision pending

227th AAS Meeting (4-8 Jan 2016)

- January 4 activities (all times tentative)
 - 08:00 - 12:00 UV-Vis SIG (#2) and Cosmic Dawn SIG (#3) meetings
 - 12:00 - 13:00 COPAG EC (including SIG leads) lunch with Paul Hertz
 - 13:00 - 14:30 Cross-PAG plenary meeting with Paul Hertz
 - 14:30 - 17:00 Joint session COPAG + ExoPAG
 - 17:00 - 20:00 Far-IR SIG (#1) meeting
- COPAG EC will help staff Cosmic Origins table throughout the week

SIG #1: Far-Infrared Science and Technology

- COPAG Lead: Pamela Marcum
- Co-Leads: David Leisawitz (GSFC) and Paul Goldsmith (JPL)
- Since the Far-IR Surveyor Workshop (June 3-5, 2015 at Caltech):
 - Workshop report (<http://conference.ipac.caltech.edu/firsurveyor/>) delivered to COPAG and ExoPAG
 - Reviewed and commented on PAG draft reports (response to HQ white paper)
 - Prepared for change in SIG leadership (draft recommendations not yet presented)
- January 2016 AAS SIG meeting topics:
 - Planning for a Far-IR Surveyor mission
 - Coordinating with the Far-IR Surveyor STDT, pending approval
 - SPICA status



SIG #2: Ultraviolet/Visible Cosmic Origins Science and Technology Development

- COPAG Lead: Mary Beth Kaiser
- External Lead: Paul Scowen (ASU)
- Since the workshop in June, SIG #2 has been preparing a workshop report paper.
 - The start of the academic year has slowed this effort, but submission of the report is expected before the end of the calendar year.
- January 2016 AAS session topics
 - Update on reported progress with UV/optical technologies presented at the August SPIE Astronomical Technologies session
 - Discussion about the growing numbers of Cubesat and Smallsat opportunities and their possible utility for UV/optical astronomy
 - Discussion of compelling science possible with Probes and Explorers, and possibly further discussion of UV/optical science with HabEx



Announcement:

**Finding the UV-Visible Path
Forward: A Community Workshop
to Plan the Future of
UV/Visible Space Astrophysics**

Dates: June 25-26, 2015

Location: Goddard Space
Flight Center,
Greenbelt, MD

More information:

asd.gsfc.nasa.gov/conferences/uvvis/


Contact:

Paul.Scowen@asu.edu

Susan.G.Neff@nasa.gov



SIG #3: Cosmic Dawn Science

- COPAG Lead: Joe Lazio
- SIG #3 membership is open to all
 - Send email to Joseph.Lazio@jpl.nasa.gov
- Website established
 - <http://cd-sig.jpl.nasa.gov/>
- Initial discussions with high energy community (HEAD meeting), but no formal coordination yet
- Session at January 2016 AAS 

“When and how did the first galaxies form out of cold clumps of hydrogen gas and start to shine – when was our ‘cosmic dawn’?”

New Worlds, New Horizons



Title	Presenter
Molecular Gas at Cosmic Dawn	Jacqueline Hodge
The UV Luminosity Function of Galaxies in the Epoch of Reionization	TBC
Gamma-ray Bursts and the First Stars	Valerie Connaughton
Evolution of the Intergalactic Medium	Judd Bowman
Neutral Hydrogen Intensity Mapping	Aaron Parsons
Probing the Cosmic Dawn with the JWST	Massimo Stiavelli / Mia Bovill

SAG #8: Cosmic Origins Science Enabled by the WFIRST-AFTA Data Archive



- COPAG Lead: Sally Heap
- Overview provided at March and July 2015 ApS meetings
- Current report posted on COPAG website at http://cor.gsfc.nasa.gov/sags/COPAG_SAG8_Report_16Jul2015.pdf
- Seeking concurrence of the Subcommittee to accept the SAG #8 report and to formally close this SAG
- Upon approval, a final iteration will be made to clean up known typos before posting the final version of the report.