Exoplanet Program Analysis Group (ExoPAG) 23

Michael Meyer (U. Michigan)
Chair, ExoPAG Executive Committee

January 5-6, 2021

Credit: NASA
Exoplanet Program Analysis Group (ExoPAG)
https://exoplanets.nasa.gov/exwp/exopag/overview

- The Exoplanet Exploration Program Analysis Group (ExoPAG) is a community-based, interdisciplinary forum for soliciting and coordinating community analysis and input in support of Exoplanet Exploration objectives, and of their implications for architecture planning and activity prioritization for future exploration.

- The ExoPAG reports findings of analyses to the NASA Astrophysics Division Director.
The Exoplanet Program Analysis Group (ExoPAG)

- The ExoPAG could be tasked to carry out one or more of the following:
  - Articulate and prioritize the key scientific drivers for Exoplanet Exploration research;
  - Evaluate the expected capabilities of potential ExEP missions for achieving the science goal of the program;
  - Evaluate ExEP goals, objectives, investigations, and required measurements on the basis of the widest possible community outreach;
  - Articulate and prioritize focus areas for needed mission technologies; and
  - Provide findings on related activities that support the program, such as ground-based observing, theory and modeling programs, laboratory astrophysics, suborbital investigations, data archiving, and community engagement.
**The Exoplanet Program Analysis Group (ExoPAG)**

- The ExoPAG enables direct regular communication between NASA and the community through public meetings that give the community opportunities to provide scientific and programmatic input.

- The ExoPAG consists of all members of the community who participate in these open meetings.
### ExoPAG Executive Committee

<table>
<thead>
<tr>
<th>Member</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Michael Meyer (Chair)</td>
<td>University of Michigan</td>
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<tr>
<td>Tom Barclay</td>
<td>University of Maryland</td>
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<tr>
<td>Natasha Batalha</td>
<td>NASA-Ames</td>
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<tr>
<td>Jacob Bean</td>
<td>The University of Chicago</td>
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<tr>
<td>Jessie Christiansen</td>
<td>NExSci/Caltech</td>
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<tr>
<td>Rebecca Jensen-Clem</td>
<td>UC-Santa Cruz</td>
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<tr>
<td>John Debes</td>
<td>Space Telescope Science Institute</td>
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<tr>
<td>Tiffany Kataria</td>
<td>JPL/Caltech</td>
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<tr>
<td>Josh Pepper</td>
<td>Lehigh University</td>
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<tr>
<td>Dmitry Savransky</td>
<td>Cornell</td>
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<tr>
<td>Laura Schaefer</td>
<td>Stanford University</td>
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<tr>
<td>Vikki Meadows (Past Chair)</td>
<td>University of Washington</td>
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<tr>
<td>Douglas Hudgins (Astrophysics)</td>
<td>NASA HQ</td>
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<tr>
<td><strong>Hannah Jang-Condell (ExEP DS)</strong></td>
<td>NASA HQ</td>
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<tr>
<td>Doris Daou (Planetary Liaison)</td>
<td>NASA HQ</td>
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<tr>
<td>Richard Eckman (Earth Liaison)</td>
<td>NASA HQ</td>
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<tr>
<td>Gaylan Fowler (Heliophys Liaison)</td>
<td>NASA HQ</td>
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**Our newest members!**

**Call for new members is out!**
Consider volunteering for the ExoPAG EC!

- Propose a Mini-Science Symposium.
- Initiate a Science Analysis/Interest Group.
- Your analysis can lead to findings passed to HQ.
- Review the ExEP Science Gap List.
- Put forward ideas for the ExEP Tech Gap List.
- Help APD focus on increasing DEI.
- Interact with excellent colleagues.
- Inspire the next generation.
- Have an impact within our community.

Call for new members is out!

Credit: NASA
ExoPAG Recent Activities (since ExoPAG22)

  (https://exoplanets.nasa.gov/internal_resources/1547/)
- Participated in NExSS/P/AG roundtable in October.
- Present to PSAC in August and November.
- Launch of Exoplanet Explorers!
- Presented to APAC (full day on “State of Profession” & URMs).
- Community forum held to prepare for ExoPAG23.
- New APD Cross PAG activities:
  - AAS Special Session on Barriers to URM Participation in APD Space Science.
  - Discuss new cross PAG SAG on URM in APD Space Science.
  - Review of APD Biannual Tech Gap Review at AAS in January
## Current Status of SAGs and SIGs

<table>
<thead>
<tr>
<th>Close Year</th>
<th>SAG or SIG</th>
<th>Title</th>
<th>Lead</th>
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<tbody>
<tr>
<td>2020</td>
<td>SAG 19</td>
<td>Exoplanet imaging signal detection theory and rigorous contrast metrics (closeout expected soon)</td>
<td>Mawet &amp; Jensen-Clem</td>
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<td>SIG 2</td>
<td>Exoplanet Demographics (on-going)</td>
<td>Christiansen &amp; Meyer</td>
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<td>SIG 3</td>
<td>Exoplanet Solar System Synergies (on-going).</td>
<td>Meadows &amp; Mandt</td>
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<td>SAG 21</td>
<td>Stellar Contamination on Transit Spectra (on-going)</td>
<td>Rackham &amp; Espinoza (Barclay)</td>
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<td>SAG 22</td>
<td>Exoplanet Host Properties (on-going)</td>
<td>Pepper, Stark, &amp; Hinkel</td>
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Credit: NASA
ExoPAG 22 Final Sessions: Wednesday 2:15-close EST.

- Updates on SIGs and SAGs (2:15-3:30 pm EST).
- Followed by Regular ExoPAG Business meeting.
- Feel free to share announcements for the community.
- Review of progress on actions.
- Share new ideas for ExoPAG priorities and activities!

https://tinyurl.com/y2x2e3c3

- Review proposed finding
  (as discussed at December 15 Community Forum):

https://tinyurl.com/y6l8anlb
Upcoming Events of interest to ExoPAG

• Friday, January 8: 1-3 pm EST NASA Cross-PAG Session.
  – Update from Paul Hertz (Director, Astrophysics Division).
  – Overview of APD biennial technology review 2021.

• AAS Meeting Events January 11-15
  – NASA Cross-PAG session on barriers to participation in NASA space science by Minority Serving Institutions, January 11, 6:50 pm EST.
  – NASA Town Hall, January 12, 1:40 pm EST.
  – And many more...