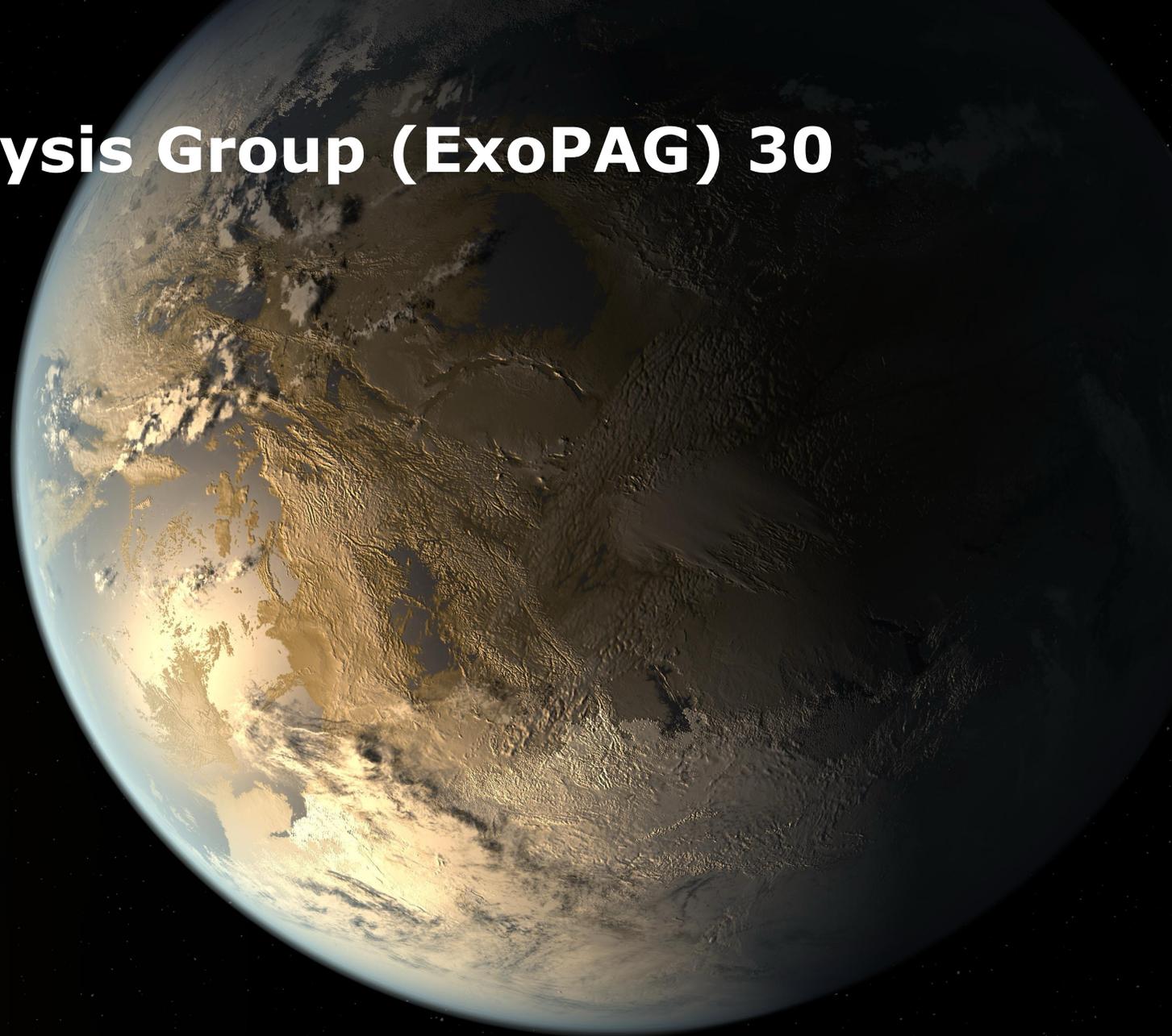


# Exoplanet Program Analysis Group (ExoPAG) 30

Ilaria Pascucci (U. Arizona)  
Chair, ExoPAG Executive Committee

May 5<sup>th</sup>, 2024



# What is the ExoPAG?

The ExoPAG is an interdisciplinary community-driven forum which provides inputs to NASA's Exoplanet Exploration Program

Exoplanet Exploration  
(ExEP)  
Program office at JPL



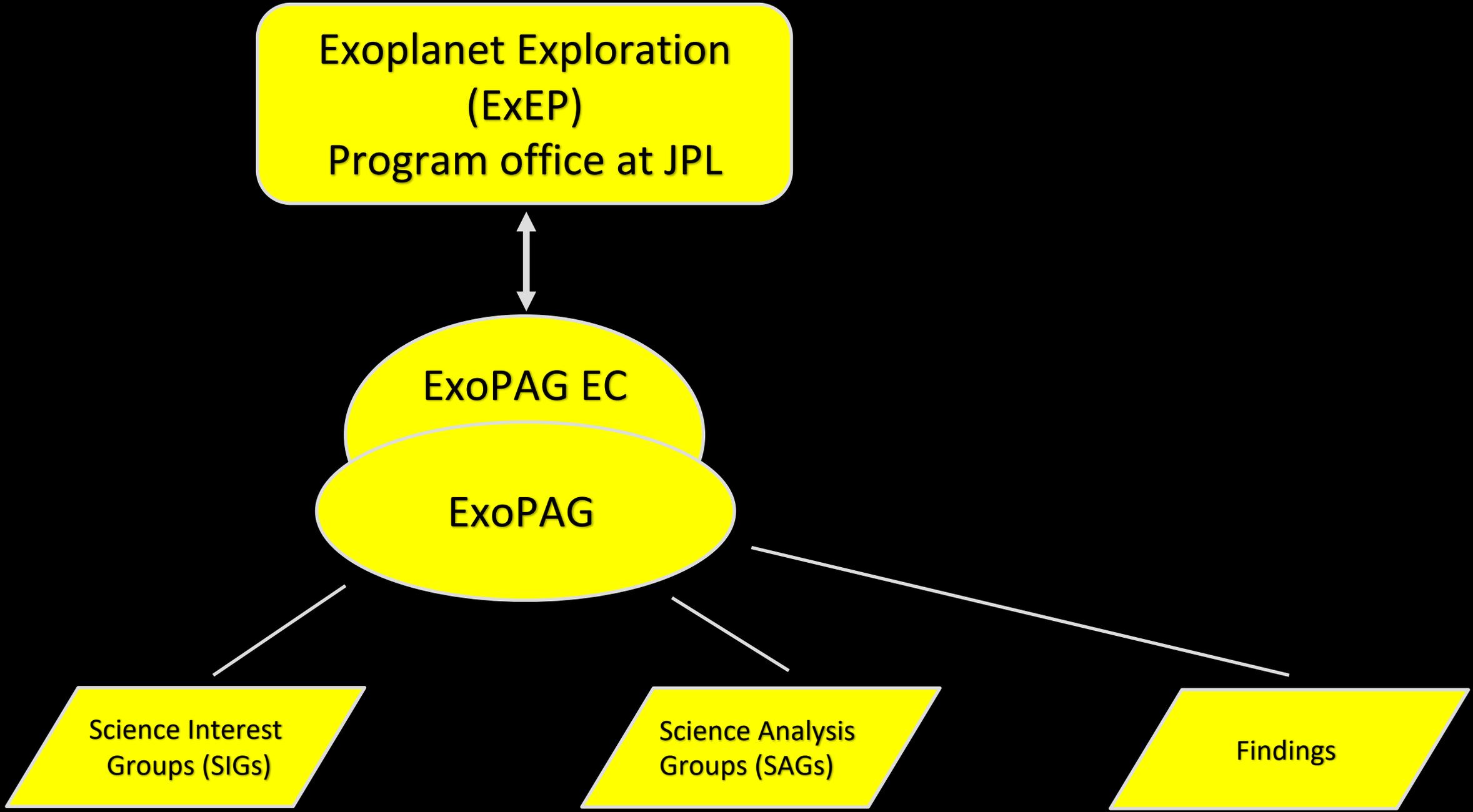
ExoPAG EC

ExoPAG

Science Interest  
Groups (SIGs)

Science Analysis  
Groups (SAGs)

Findings



# ExoPAG Science Interest Groups

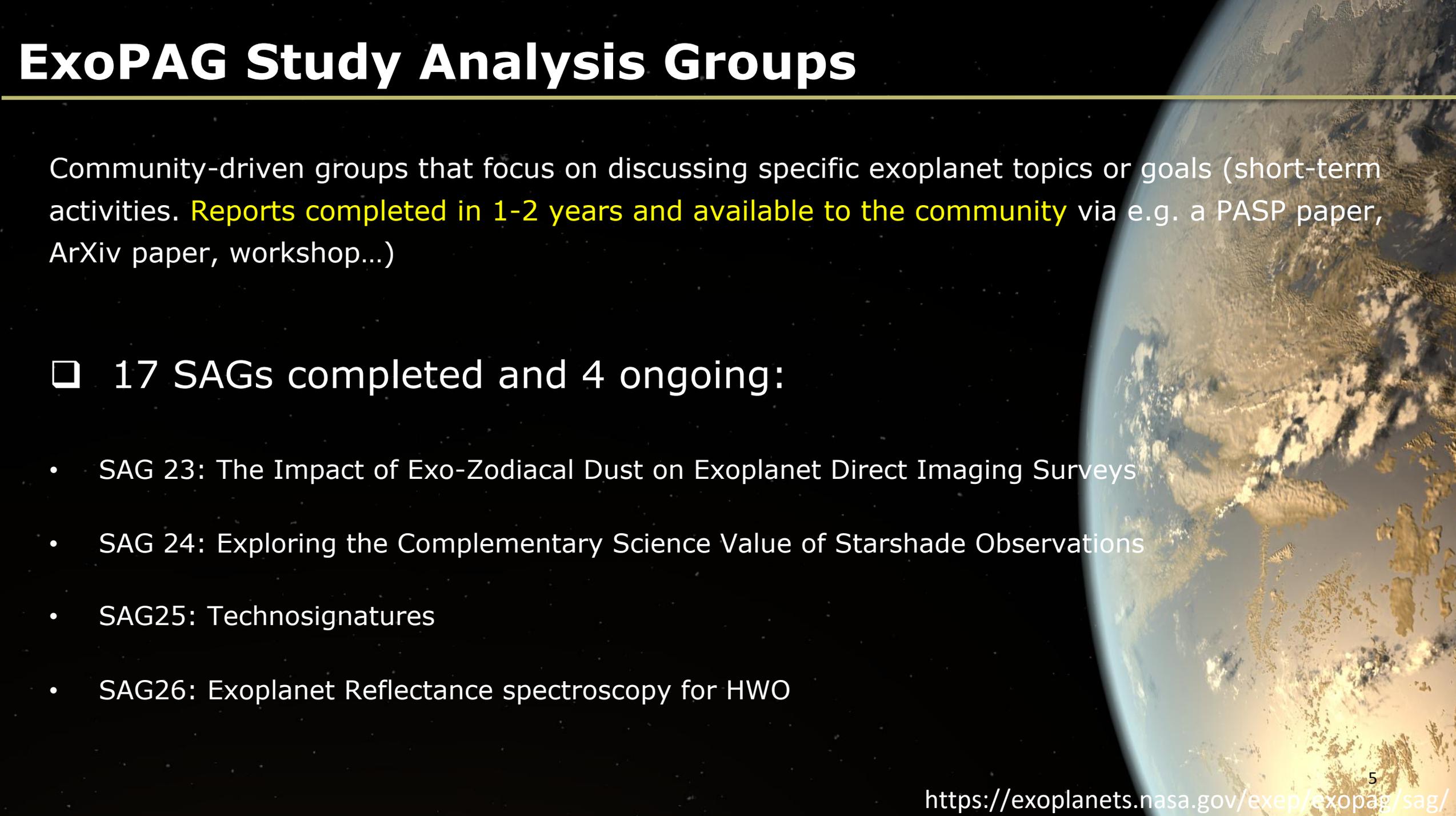
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Community-driven groups that focus on discussing specific exoplanet topics or goals  
(long-term activities, several years)

## □ Ongoing SIGs:

- SIG2 “Exoplanets Demographics” (Chairs: Fernandes & Johnson)
- SIG3 “Exoplanets Solar System Synergies” (Chairs: Meadows & Mandt)

# ExoPAG Study Analysis Groups



Community-driven groups that focus on discussing specific exoplanet topics or goals (short-term activities. **Reports completed in 1-2 years and available to the community** via e.g. a PASP paper, ArXiv paper, workshop...)

## □ 17 SAGs completed and 4 ongoing:

- SAG 23: The Impact of Exo-Zodiacal Dust on Exoplanet Direct Imaging Surveys
- SAG 24: Exploring the Complementary Science Value of Starshade Observations
- SAG25: Technosignatures
- SAG26: Exoplanet Reflectance spectroscopy for HWO

# ExoPAG findings

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- ❑ Findings are analysis carried out by the community and **forwarded to the Astrophysics Division leadership as input** [they are not recommendations]
- ❑ Ideas for new findings solicited from community (e.g. ExoPAG email and at Business Meetings) and discussed at community forum (e.g. Summer ExoPAG)
- ❑ Findings with community support are reviewed by ExoPAG EC and top 1-3 findings put forward to ExoPAG for a vote (more than 2/3 support needed to “pass”). Ideas not adopted (or selected for vote) can be kept and re-discussed in future
- ❑ Approved findings are listed here:  
<https://exoplanets.nasa.gov/exep/exopag/exopagFoundingDocuments/exopag-findings/>

# The ExoPAG Executive Committee and its Members

The Executive Committee organizes community input, oversees ExoPAG analyses, and reports ExoPAG findings and inputs to the Astrophysics Division Director



I. Pascucci



T. Beatty



I. Crossfield



C. Dong



D. Dragomir



K. Follette



J. Girard



S. Johnson



E. May



B. Mennesson



S. Peacock



M. Rice



L. Zhao

Thanks to all EC members for their service!

# ExoPAG EC Liaisons and ExEP Support



H. Jang-Condell  
Astrophysics



J. Wisniewski  
Astrophysics



M. Ansdell  
Planetary



R. Eckman  
Earth Science



Toka for G. Fowler  
Heliophysics



G. Blackwood



D. Gelino



D. Ardila



K. Stapelfeldt



E. Mamajek



J. Gregory



J. Blumberg

# Selected ExoPAG EC activities

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- ❑ Organize monthly ExoPAG EC + semi-annual ExoPAG meetings, cross-PAG meetings, **report to the Astrophysics and the Planetary Science Advisory Committee**
- ❑ Review and provide inputs to the Exoplanet Program Science Gap List
- ❑ Contribute to cross-PAG SIGs (Science Interest Group) and SAGs (Science Analysis Group)
- ❑ Contribute to ExoPAG SIGs and SAGs
- ❑ Sponsor the **ExoExplorers** Program which supports the professional development of early career scientists

# Ways to stay informed and participate

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- ❑ Subscribe to the [exopagannounce@jpl.nasa.gov](mailto:exopagannounce@jpl.nasa.gov)

<https://exoplanets.nasa.gov/exep/exopag/announcementList/>

- ❑ Participate to the semi-annual in-person meetings

- ❑ Propose to start a Science Interest Group (SIG) or a Study Analysis Group (SAG)

- ❑ Propose findings and suggestions

[https://exoplanets.nasa.gov/exep/exopag/exopagFoundingDocuments/exopag\\_findings/](https://exoplanets.nasa.gov/exep/exopag/exopagFoundingDocuments/exopag_findings/)

# ExoPAG 30 meeting

**Goal:** engage different communities in the search for the Life in the Solar System and Beyond

**Objective:** identify common scientific gaps and interdisciplinary opportunities for advancement

May 5, 2024

Session 1 (Chair: Ilaria Pascucci)		Speaker	Time (EDT)	Duration	End
	Welcome + ExoPAG goals and overview of activities	Ilaria Pascucci (ExoPAG Chair, U. Arizona)	9:30 AM	0:10	9:40 AM
	NASA Headquarters Exoplanet Exploration Program Focus on interdisciplinary opportunities	Hannah Jang-Condell & John Wisniewski (ExEP, NASA HQ)	9:40 AM	0:20	10:00 AM
	Exoplanet Exploration Program (ExEP) Office	Dawn Gelino (ExEPO, JPL/Caltech)	10:00 AM	0:15	10:15 AM
	ExEP Science w focus on Science Gap List to search for life on extrasolar planets	Eric Mamajek (ExEPO, JPL/Caltech)	10:15 AM	0:20	10:35 AM
	<b>BREAK (20 min)</b>		10:35 AM	0:20	10:55 AM
	SIG3- Exoplanet / Solar System Synergies	Vikki Meadows (ExoPAG SIG 3 co-chair, U. Washington)	10:55 AM	0:20	11:15 AM
	VEXAG: the potential for past habitability on Venus and science gaps	Noam Izenberg (VEXAG chair, APL)	11:15 AM	0:20	11:35 AM
	MEPAG Mars Exploration Analysis group: searching for life on Mars - science gaps	Victoria Hamilton (MEPAG chair, SWRI)	11:35 AM	0:20	11:55 AM

Session 2 (Chair: Sarah Peacock)		Speaker	Time (EDT)	Duration	End
	NExSS overview and WGs focusing on the search for life beyond Earth	Ofer Cohen (NExSS co-lead, UMass Lowell)	1:55 PM	0:30	2:25 PM
	Cross AG IDEA working group	Jessica Noviello (UMBC)	2:25 PM	0:20	2:45 PM
	OPAG goals in relation to habitability in the outer Solar System	Morgan Cable (OPAG Steering Committee, JPL/Caltech)	2:45 PM	0:20	3:05 PM
	Cross-AG Ocean Worlds Working Group (OWWG)	Cynthia Phillips (JPL/Caltech) and Michael Bland (USGS, Astrogeology Science Center)	3:05 PM	0:20	3:25 PM
	The search for Life in the Solar System	Lori Glaze (Director, Planetary Science Division, NASA HQ)	3:25 PM	0:30	3:55 PM

Lightning Talks

Ziyu Huang, Boston University Post Doctoral  
 Anna Ulises, University of Washington Grad Student  
 Finnegan Keller, Brown University Undergrad  
 Garrett Levine, Yale University Grad Student  
 Eleonora Alei, NPP Fellow, NASA GSFC, Post Doc  
 Miles Currie, University of Washington Grad  
 Laura Chin, Boston University Grad Student  
 Shang-Min Tsai, UC Riverside Post Doc

# ExoPAG 30: agenda

[https://exoplanets.nasa.gov/exep/exopag/exopag30/exopag30\\_overview/](https://exoplanets.nasa.gov/exep/exopag/exopag30/exopag30_overview/)

Two Sessions with talks from different analysis groups. Each session is followed by Interdisciplinary Exchange time. Talk by Dr. Lori Glaze (Director, Planetary Science Division). Lightning talks

# ExoPAG 30: Business meeting

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1. Summary of common science gaps and cross-divisional opportunities
2. New SIGs/SAGs, findings
3. Solicitation of new suggestions and findings (Lead: Gary Blackwood)

# ExoPAG Attendees Survey

<https://forms.gle/EenXVqyyWFBWLXSf8>

ExoPAG

**Group Photo!**

**Just before the lunch break**

**The meeting website w/ agenda** <https://go.nasa.gov/3TO3czT>

**Every resource used during the meeting can be found here.** Includes the agenda, link to Webex remote connection, link to Q&A session, link to ExoPAG Slack, Code of Conduct, venue info, and registered participants. When presentations are cleared for public release, they will be posted on the site as well

**ExoPAG Slack Space** <https://bit.ly/exopag30slackinvite2>

**Slack will be the main source of communication for all meeting attendees**

**Q&A Participation** <https://bit.ly/exopag30QA>

In-person participants may ask questions verbally using the microphones in the room. Both remote and in-person participants may also use the online NASA Q&A session to submit a question which will be moderated and addressed by the session chairs and speakers. All online submissions will be anonymous. Participants may also upvote a question asked by another individual

**Google Drive** <https://bit.ly/exopag30google>

Preliminary versions of *most* talks will be available at the start of the meeting in this google folder



**Webex Remote Participation** <https://bit.ly/exopag30webex>

Meeting ID: 2822 412 2945

Passcode: exoplanets

Audio connection (US): 844-575-9329 Enter Meeting ID then #

Find your local number: <https://bit.ly/webexglobal>

**Policies and Conduct** <https://go.nasa.gov/3JHiwJP>

Including ExoPAG code of conduct, NASA APD statement of principles and AbSciCon meeting policies

**ExoPAG attendees are expected to abide by the ExoPAG code of conduct, NASA Statement of Principles, and the AbSciCon Policies**

**ExoPAG Suggestions** <https://bit.ly/exopagsuggestions>

The purpose of this form is for the science community to provide input to the ExoPAG executive council (EC). Community members may propose suggestions for the ExoPAG that will be dispositioned by the EC and can subsequently be discussed by the full ExoPAG

**ExoPAG Findings** <https://bit.ly/exopagfindings>

The purpose of this form is to propose findings that can be discussed and voted on by the full ExoPAG. Findings that are voted on are provided to NASA Headquarters via a written memo from the ExoPAG Executive Committee (EC)

# ExoPAG 30 Logistics Guide



Thanks to Jennifer Gregory and Jennifer Blumberg  
for their help in organizing the meeting!