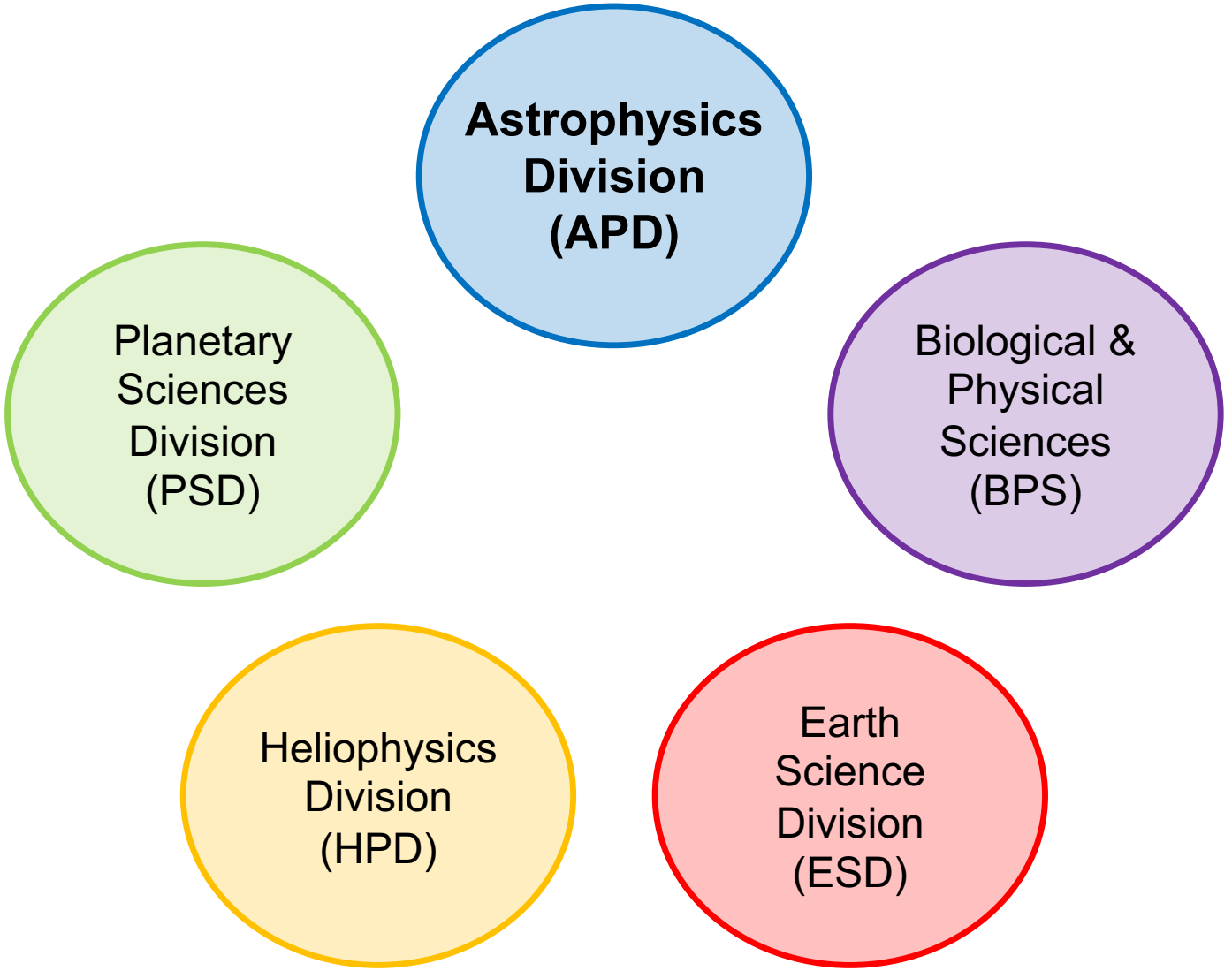
NASA Headquarters Update

ExoPAG #27 | January 7, 2023

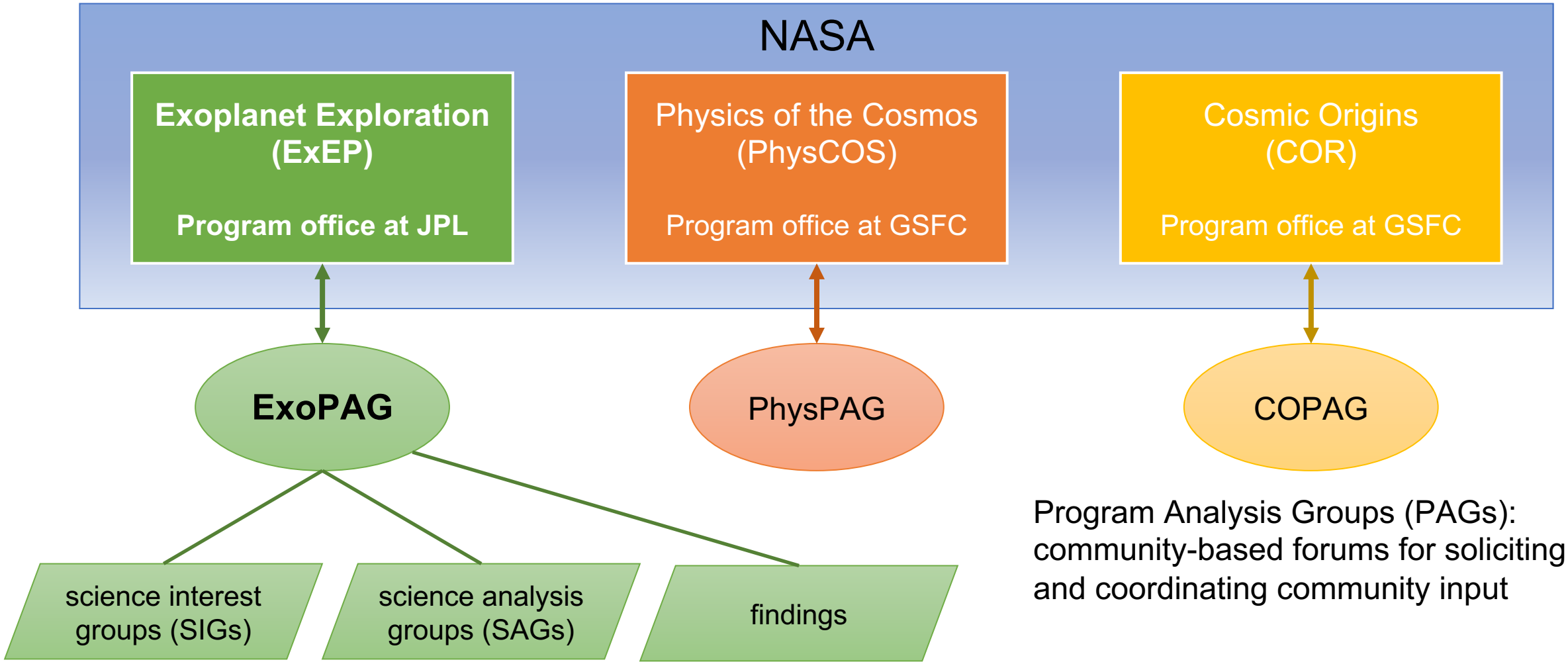
Hannah Jang-Condell (hannah.jang-condell@nasa.gov)
Exoplanet Exploration Deputy Program Scientist, ExoPAG Executive Secretary
Astrophysics Division, Science Mission Directorate

An Overview of NASA and the ExoPAG

NASA Science Mission Directorate (SMD)



NASA Astrophysics Division (APD) Focused Programs



Program Analysis Groups (PAGs): community-based forums for soliciting and coordinating community input

More about the ExoPAG: https://exoplanets.nasa.gov/exep/exopag/overview

ExoPAG Executive Committee

https://exoplanets.nasa.gov/exep/exopag/overview

- The ExoPAG is led by a Chairperson appointed from the exoplanet community to serve a 3-year term.
- The ExoPAG Chair is supported by a 10-12-member Executive Committee (EC)
  - EC members are selected to reflect a cross-section of the exoplanet exploration stakeholder community;
  - EC members are solicited annually and appointed to rotating 3-year terms.
- Together, the ExoPAG Chair and EC comprise a steering group that is responsible for keeping the community informed of ongoing activities and opportunities within the ExoPAG, capturing and organizing community input, and overseeing ExoPAG analyses.
- Service on the EC provides an excellent opportunity to:
  - Initiate a Science Analysis/Interest Group.
  - Review and contribute to the ExEP Science and Technology Development Gap Lists.
  - Contribute to APD's efforts to increase diversity, equity, and inclusion at NASA and in the community.
  - Interact with excellent colleagues.
  - Inspire the next generation.
  - Have an impact within our community.

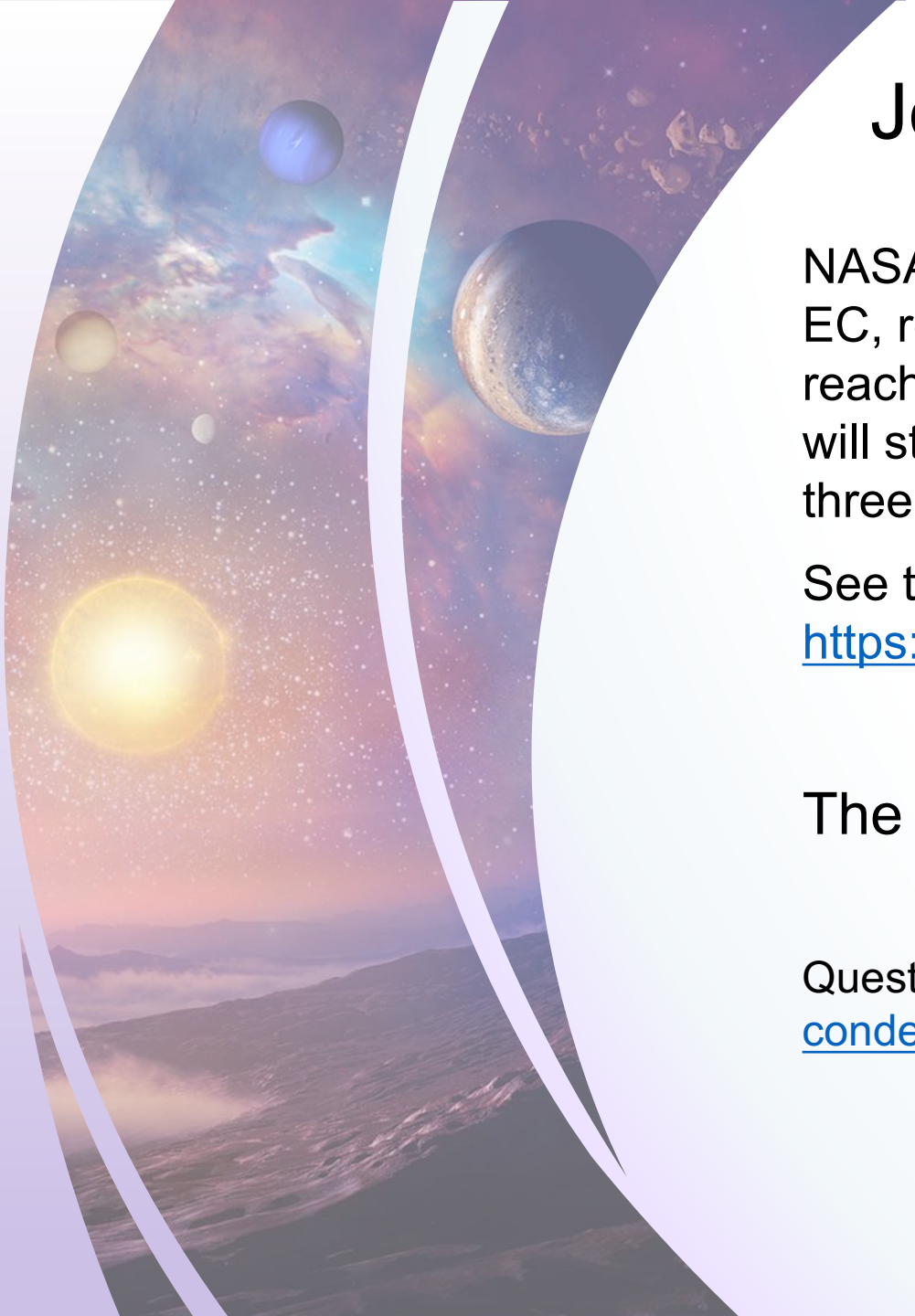
The ExoPAG Executive Committee

Name	Home Institution
Ilaria Pascucci (Chair)	Univ. Arizona
Michael Meyer (past chair)	Univ. of Michigan
Natasha Batalha*	NASA ARC
Jacob Bean*	Univ. of Chicago
Michael Bottom	Univ. Hawaii
Ofer Cohen	Univ. Mass. Lowell
Knicole Colón	NASA GSFC
John Debes*	STScI
Diana Dragomir	Univ. of New Mexico
Erin May	JHU Applied Physics Lab
Bertrand Mennesson	JPL
Laura Schaefer*	Stanford Univ.
John Wisniewski	Univ. of Oklahoma

*indicates EC member rolling off in 2023

Programmatic Support:

- Hannah Jang-Condell, NASA HQ Executive Secretary, NASA POC
- Doris Daou, NASA HQ – Planetary Science Division Liaison
- Richard Eckman, NASA HQ – Earth Science Division Liaison
- Galen Fowler, NASA HQ – Heliophysics Division Liaison
- Exoplanet Exploration Program Office, JPL - Logistics



Join the ExoPAG EC!

NASA anticipates making new appointments to the ExoPAG EC, replacing current members of the committee who have reached the end of their appointments. New appointments will start in the Spring of 2023 and will be for a period of three years.

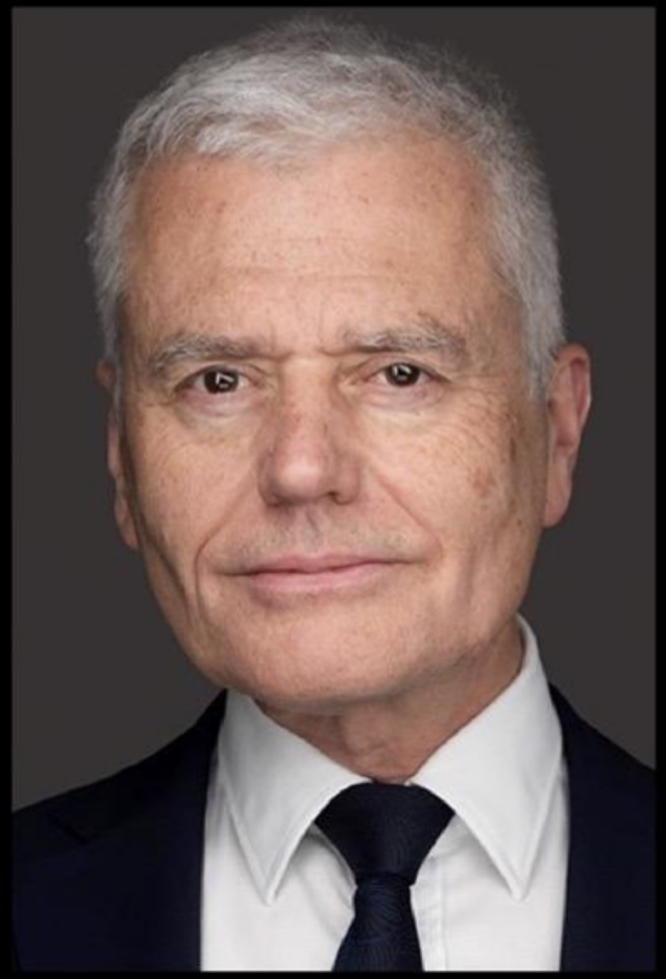
See the recruitment letter for more details: https://exoplanets.nasa.gov/internal_resources/2540/

The deadline for nominations is **February 3, 2023**

Questions? Contact Hannah Jang-Condell (hannah.jang-condell@nasa.gov)

NASA HQ Update

Introducing: Mark Clampin



- As of August 2022, Mark is the Director of Astrophysics at NASA
- Mark's background includes
  - Director of Sciences and Exploration at NASA Goddard
  - Director of the Astrophysics Division at NASA Goddard
  - JWST Observatory Project Scientist
  - Hubble ACS Detector Scientist and Group Lead at Space Telescope Science Institute
  - Technology development of telescope instruments including adaptive optics systems, coronagraphs and detectors
  - Research focused on the formation and evolution of planetary systems

NASA HQ Personnel

Douglas Hudgins
ExEP Program Scientist

Hannah Jang-Condell
ExEP Associate Program Scientist
ExoPAG Executive Secretary

Joshua Pepper
ExEP Deputy Program Scientist

Lucien Cox
ExEP Program Executive

Job Opening: Senior Scientist for Astrobiology

At NASA Headquarters, Washington D.C.

NASA leads the world in Astrobiology research and exploration and is preparing for the discovery of life elsewhere by nurturing multidisciplinary research, developing exciting space missions to explore habitable worlds, and by cooperating with partners nationally and internationally for the benefit of humankind. Astrobiology is a scientific discipline devoted to the study of life in the universe - its origin, evolution, future, and distribution.

This appointment will be for a period of up to 6 years under the NASA Excepted Hiring Authority (NEX) and is open only to U.S. Citizens.

The incumbent serves as the Agency's Senior Leader in Astrobiology leading efforts from NASA Headquarters to ensure significant progress is made in Astrobiology. This position will ensure coordination and collaboration across SMD Divisions and between research programs and mission planning.

https://www.linkedin.com/jobs/search/?currentJobId=3393498186&keywords=Senior%20Scientist%20for%20Astrobiology%20

Applications due January 31, 2023

NASA Astrophysics Statement of Principles

Purpose of this Statement of Principles:

The purpose of the Statement of Principles is to help NASA Astrophysics carry out community best practices to create an inclusive work environment. This document is not intended to nor can be a legal document, but rather a tool in the toolbox to shape crucial conversations around problematic actions.

Applicability:

- NASA Astrophysics personnel at NASA Headquarters (HQ) as well as NASA Astrophysics' Program Offices (POs) and associated support personnel, regardless of employer.
- Those who participate in meetings sponsored by NASA Astrophysics, such as conferences, workshops, panels, and Program Analysis Group (PAG) meetings.

https://science.nasa.gov/astrophysics/documents

All activities organized or sponsored by NASA Astrophysics, such as meetings and panels, should adopt a code of conduct.

In addition, there are best practices that are described in the following 5 areas:

1) Professional Conduct
2) Communication
3) Training
4) Maintaining a Safe Space
5) Reporting

ExoPAG Code of Conduct

https://exoplanets.nasa.gov/internal_resources/2534/

Attendees of ExoPAG 27 are expected to abide by the following Code of Conduct.

The organizers are committed to making this meeting productive and enjoyable for everyone, regardless of gender, sexual orientation, disability, physical appearance, body size, race, nationality or religion. We will not tolerate harassment or bullying of participants in any form. Please follow these guidelines:

- Behave professionally. Harassment, bullying, and sexist, racist, or exclusionary comments or jokes are not appropriate. Harassment includes sustained disruption of talks or other events, inappropriate physical contact, sexual attention or innuendo, deliberate intimidation, stalking, and photography or recording of an individual without consent. It also includes offensive comments related to gender, sexual orientation, disability, physical appearance, body size, race or religion.
- All communication should be appropriate for a professional audience including people of many different backgrounds. Sexual language and imagery is not appropriate.
- Be kind to others. Do not insult or put down other attendees. Critique ideas, not people.
- If participants wish to share photos or contents of talks/slides of any attendee or speaker on social media, we ask that they first get permission.

Participants asked to stop any inappropriate behavior are expected to comply immediately. Attendees violating these rules will be asked to leave the event at the sole discretion of the organizers.

Any participant who wishes to report a violation of this policy is asked to speak, in confidence, to Hannah Jang-Condell (hannah.jang-condell@nasa.gov) or Ilaria Pascucci (pascucci@arizona.edu)

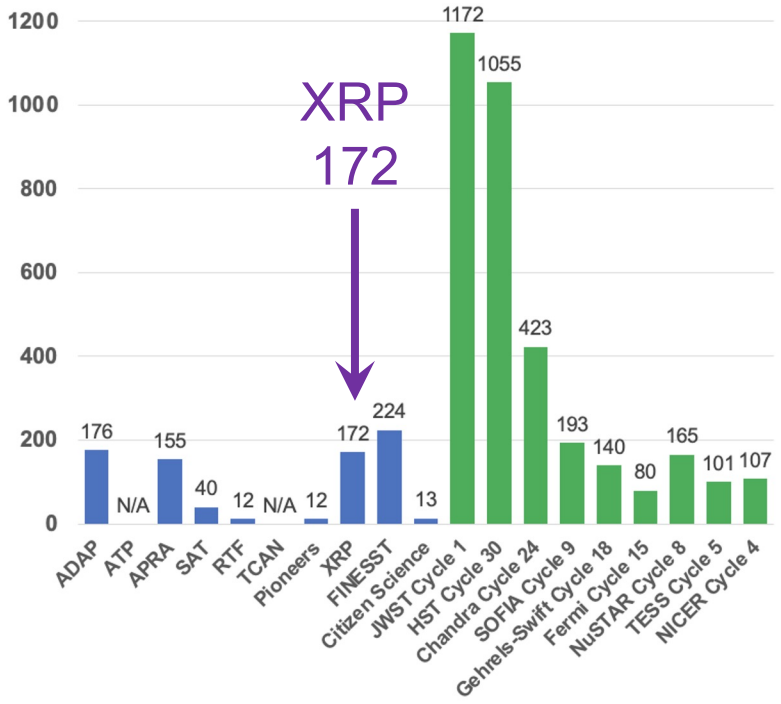
This code of conduct is based on the "London Code of Conduct", as originally designed for the conference "Accurate Astrophysics. Correct Cosmology", held in London in July 2015. The London Code of Conduct was adapted with permission by Andrew Pontzen and Hiranya Peiris from a document by Software Carpentry, which itself derives from original Creative Commons documents by PyCon and Geek Feminism. It is released under a CC-Zero licence for reuse. To help track people's improvements and best practice, please retain this acknowledgement, and log your re-use or modification of this policy.

Research Program Update

Astrophysics R&A Selection Rates

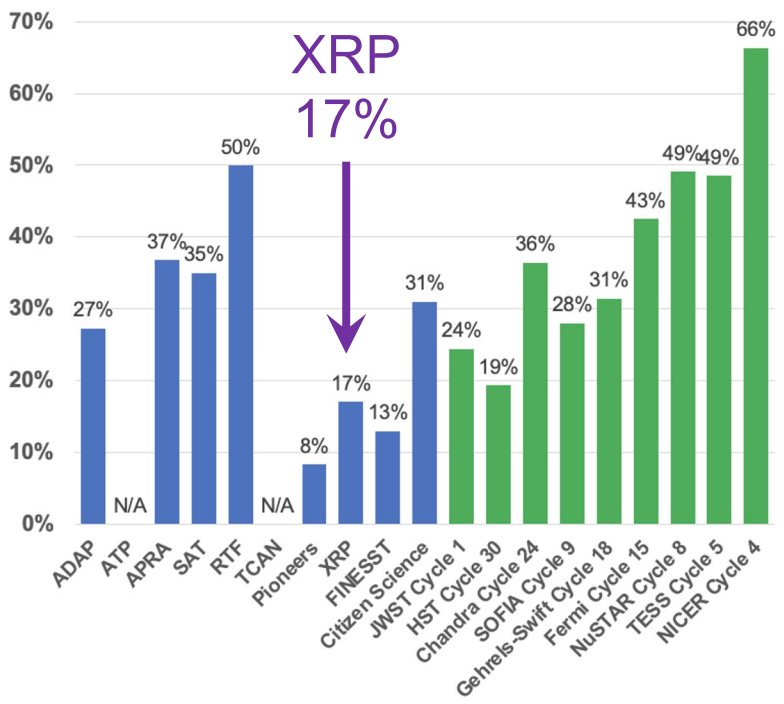
January 2022-2023

Number of Proposals



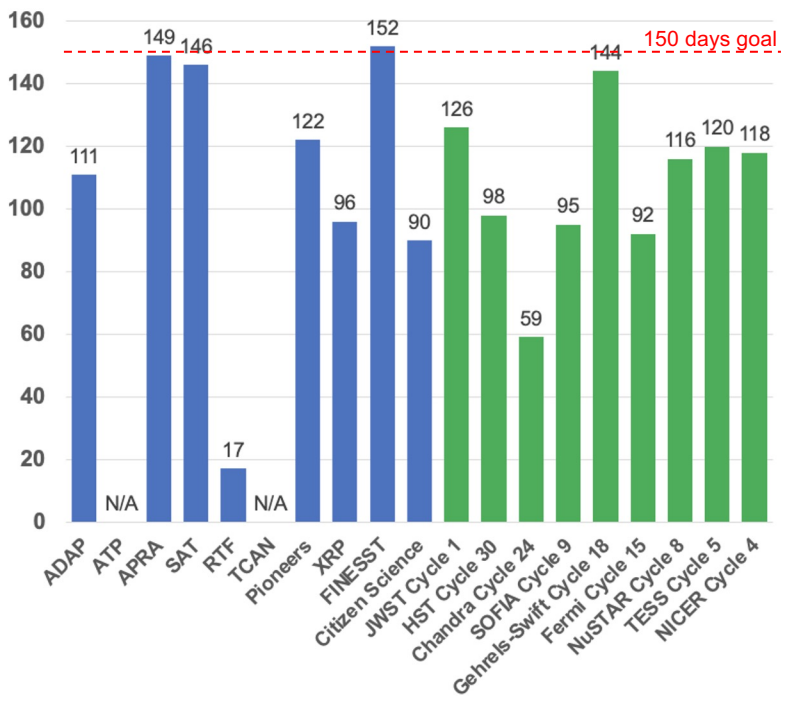
R&A: 804 proposals
GO/GI: 3,436 proposals
Total: 4,240 proposals

Selection Rates



R&A: 22% (19% last year)
GO/GI: 28%
Average: 27%

PI Notification (Days)

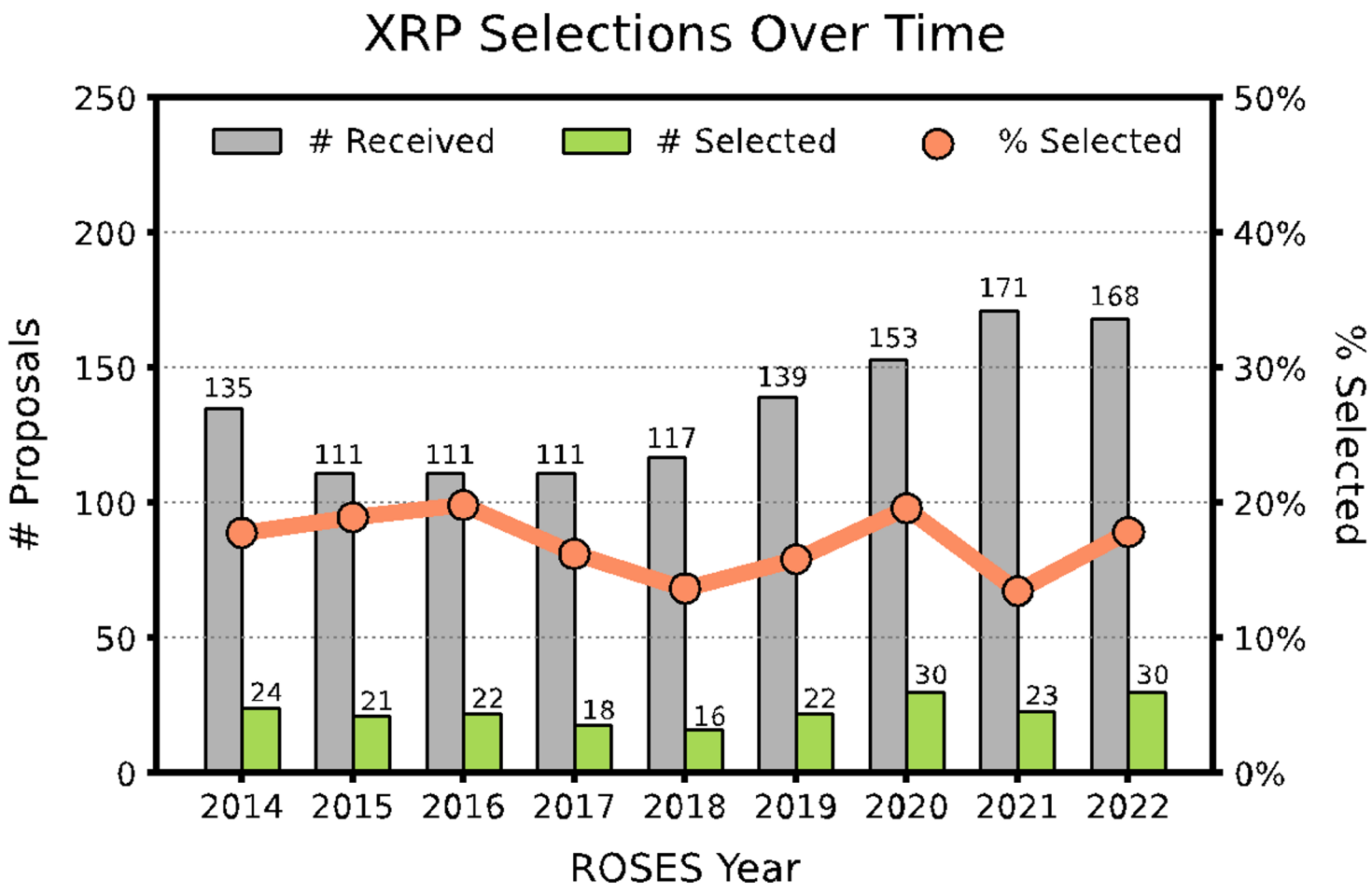


80% of PI notification:
R&A: 125 days
GO/GI: 109 days

* Only programs with selections made and PIs notified

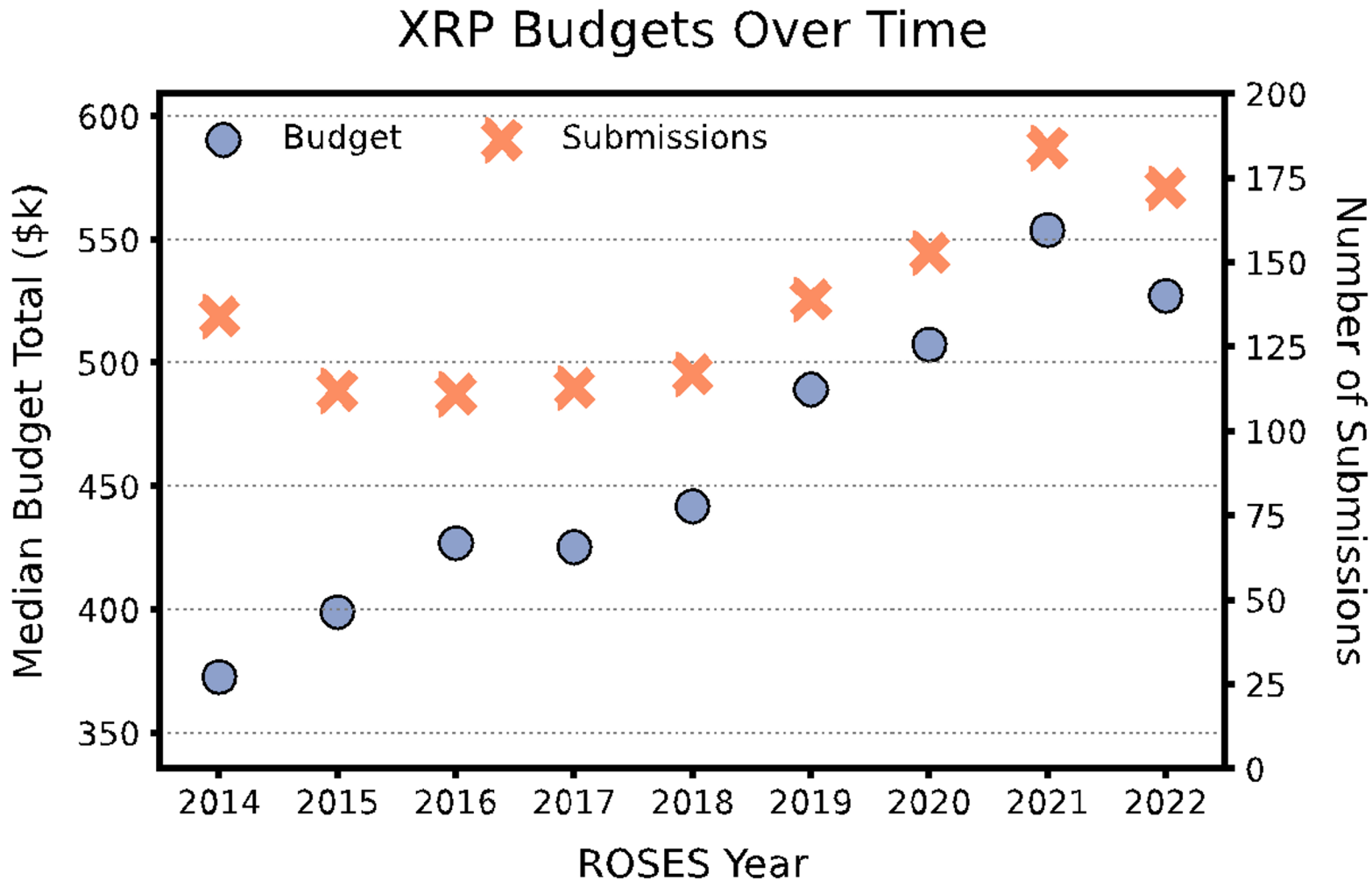
Exoplanets Research Program (XRP) Updates

- Beginning with ROSES-2020, exoplanet research elements from ADAP, ATP, & APRA-Lab Astro have been moved into XRP. Exoplanet technology development remains in APRA
- Beginning with ROSES-2021, XRP proposals are reviewed with Dual-Anonymous Peer Review (DAPR)
- XRP submissions down slightly from last year – other R&A programs in Astro are also seeing decreases this year



Exoplanets Research Program Budgets

Budgets of XRP proposals have growing faster than total XRP funding



ROSES-22 Astrophysics Research Program Elements

Supporting Research and Technologies			
Astrophysics Research & Analysis	APRA	IP	
Strategic Astrophysics Technology	SAT	IP	
Theoretical and Computational Astro Networks	TCAN	IP	
Nancy Grace Roman Technology Fellowships	RTF		
Astrophysics Decadal Survey Precursor Science	ADSPS	IP	DAPR
Data Analysis			
Astrophysics Data Analysis	ADAP		DAPR
Fermi, Swift, NuSTAR, NICER, TESS	GO/GI		DAPR
Mission Science and Instrumentation			
Astrophysics Pioneers (suborbital science)	Pioneers		
Suborbital payloads solicited through APRA	APRA	IP	DAPR
LISA Preparatory Science	LPS	IP	
Roman Research and Opportunities	Roman	IP	DAPR
XRISM Guest Scientist	XGS		DAPR
Supporting Research and Technologies			
Exoplanets Research Program	XRP		DAPR
Topical Workshops, Symposia and Conferences	TWSC		
Citizen Science Seed Funding Program	CSSFP		
Graduate Student Research Awards	FINESST		

Solicited Separately			
JWST, Hubble, Chandra, SOFIA GO/GI/Archive/Theory programs	GO/GI		DAPR
NASA Hubble Fellowship Program	NHFP		
NASA Postdoctoral Program	NPP		DAPR
Support for XMM-Newton U.S. PIs (selected by ESA)	XMM GO		
Not Solicited in ROSES-22 but solicited again in ROSES-23			
Astrophysics Theory Program, every other year	TCAN	IP	DAPR

IP: Proposals require an Inclusion Plan for creating and sustaining a positive and inclusive working environment.

Assessment of IP not part of adjectival rating / does not inform selection of proposals. However funding only released after a satisfactory Inclusion Plan is accepted.

Inclusion Plan pilot program will continue in ROSES-23 (to be released Feb 2023) but likely not expand till later.

DAPR: Proposals evaluated using dual-anonymous peer reviews.

New ROSES-22 Opportunities

D.14 Roman Mission Research and Support Participation Opportunities

- NOIs requested by January 20, 2023
- Proposal due date March 21, 2023

D.16 Astrophysics Decadal Survey Precursor Science

- Mandatory NOIs due January 20, 2023
- Proposals due March 24, 2023

D.18 Extreme Precision Radial Velocity Foundation Science

- Step-1 proposals due February 16, 2023
- Step-2 proposals due April 26, 2023


National Aeronautics and Space Administration
Exoplanet Missions
[1] NASA/ESA Partnership
[2] NASA/ESA/CSA Partnership
[3] CNES/ESA
[4] ESA/Swiss Space Office
[5] NSF Partnership (NN-EXPLORE)
Roman
Habitable Worlds Observatory
JWST[2]
TESS
Kepler/K2 [retired]
Spitzer [retired]
ARIEL (CASE[1])
PLATO
CHEOPS[4]
Hubble[1]
Gaia
Pandora
SPARCS
CoRoT[3] [retired]
CUTE
ASTERIA [retired]
NASA Missions
ESA Partner Missions
NASA Cube/Small Satellites
Ground Telescopes with NASA Participation
W. M. Keck Observatory
Large Binocular Telescope
WIYN[5]
SMARTS 1.5m[5]
MINERVA-Australis[5]
www.nasa.gov

Mark Clampin at JPAG & NASA Town Hall

Hear about:

- Mission updates
- Astro 2020 updates
- Future Flagship Observatories
- Great Observatories Maturation Program (GOMAP)
- Much, much more!

Joint Program Analysis Group: Sunday, Jan 8, 3-5pm, Rm 305

NASA Town Hall: Monday, Jan 9, 12:45pm, Ballroom 6E

NASA @ AAS

Sunday

- ExoPAG Day 2, 9am-12:30pm
- JPAG, 3pm

Monday

- PhysPAG, 9am
- COPAG, 9am
- NASA-NSF Ground-based Support for Exoplanets, 9am
- NASA Town Hall, 12:45pm
- GOMAP Splinter Session, 2pm
- JWST Town Hall, 6pm

Tuesday

- NASA TOPS Initiative, 12:45pm
- UVSTIG Splinter: “Science and Technology Tradespace for the Habitable Worlds Observatory: Working Towards a Design Reference Architecture,” 1:30pm
- ExoExplorers, 2pm

Get involved

Keep Connected with NASA

NSPIRES mailing list – information about NASA solicitations

https://nspires.nasaprs.com/

Cosmic Origins mailing list, Exoplanet Exploration mailing list, Physics of the Cosmos mailing list – information about NASA missions and science

https://cor.gsfc.nasa.gov/cornews-mailing-list.php

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

https://pcos.gsfc.nasa.gov/pcosnews-mailing-list.php

NASA Astrophysics Federal Advisory Committees

Astrophysics Advisory Committee (APAC)
https://science.nasa.gov/researchers/nac/science-advisory-committees/apac

NASEM Committee on Astronomy and Astrophysics (CAA)
http://sites.nationalacademies.org/bpa/bpa_048755

Astronomy and Astrophysics Advisory Committee (AAAC)
https://www.nsf.gov/mps/ast/aaac.jsp

Sign up to be a panel reviewer:

https://science.nasa.gov/researchers/volunteer-review-panels

Why Volunteer to Serve on a NASA Peer Review Panel?

Personal professional development:

- See how the whole review process works
- Learn what constitutes excellent proposals
- Network with your professional colleagues and NASA scientific staff

Institutional achievement:

- Improve at competing for NASA money
- Increase knowledge of NASA's research and technology programs

Investment in the future:

- Help select the most transformative science
- Ensure that all proposals receive a fair and competent review

All reviewers receive an honorarium from NASA

Sign up to be a panel reviewer:

https://science.nasa.gov/researchers/volunteer-review-panels

or contact a NASA program officer (for contact info, see https://science.nasa.gov/researchers/sara/program-officers-list)

Questions?