



DPS Members Meeting 2020

28 October 2020



Division for Planetary Sciences

of the **AMERICAN ASTRONOMICAL SOCIETY**



Call Meeting to Order

Amanda Hendrix

DPS Chair



Chair Opening Remarks

- Agenda:
 - Officer reports
 - Publications reports
 - DPS Workforce/Membership Survey
 - Nominating Subcommittee Voting
 - Prize Subcommittee updates
 - 2020 SOC report
 - 2021 Meeting plans – Providence
 - Open floor for questions, concerns – **please enter questions/concerns in Zoom chat & Slack; we'll try to call on you to ask your question orally**
 - Group Zoom photo!
- Shortened DPS Members meeting this year to accommodate virtual schedule
 - Some reports are in backup material
 - Presentations will be posted on DPS website
- Left time at the end for your comments and questions, but feel free to contact or any of the DPS committee members for more discussion after the meeting





Interested in being involved in the DPS?

We have openings on DPS Subcommittees!

- Professional Culture & Climate Subcommittee (PCCS)
 - Contact Serina Diniega (Serina.Diniega@jpl.nasa.gov)
 - *Please also see iPoster 502.01*
- DPS Environmental Affairs Subcommittee (DPSEAS)
 - Contact Anne Virkki (Anne.Virkki@ucf.edu)
- Publications Subcommittee (PubSubComm)
 - Contact Ross Beyer (rbeyer@seti.org)




Professional Culture and Climate Subcommittee (PCCS)

- See our **iPoster 502.01** by Rathbun et al. for Accomplishments & Recommendations of the PCCS
- We're also looking for new members, see call on iPoster

Making Planetary Science more Inclusive: Accomplishments and Recommendations from the PCCS
Julie A. Rathbun¹, Serina Diniega², Shawn M. Brooks³, Ingrid Daubar⁴, Sarah M. Hörst⁵, Jennifer Platek⁶, Edgard G. Rivera-Valentín⁶, Rebecca N. Schindhelm⁷, Alejandro Soto⁸, Matthew Tiscareno⁹, Cristina Thomas¹⁰

¹Planetary Science Institute, ²Jet Propulsion Laboratory, California Institute of Technology, ³Brown University, ⁴Johns Hopkins University, ⁵Central Connecticut State University, ⁶Lunar and Planetary Institute, ⁷Ball Aerospace (rschindh@ball.com), ⁸Southwest Research Institute, ⁹SETI Institute, ¹⁰Northern Arizona University




What is the PCCS?	2020 Recommendations	2020 Accomplishments	What can you do?
<p>The PCCS is charged with promoting "community values and cultural norms" through mechanisms that enable inclusion guided by the diversity challenges within each community and ongoing inclusion efforts. Several of our recommendations have led to improvements including having a plenary lecture during the annual meeting on diversity and</p> <p>OPEN</p>	<p>1. The PCCS applauds the DPS leadership for taking the lead on creating and funding a community-wide workforce survey and a white paper on that survey for the Decadal Survey. We encourage the leaders of the survey to write down lessons learned from that experience, that can be used to improve the next workforce survey. In particular, we recommend that any future survey be reviewed by a group of scientists with diverse backgrounds and including someone with a strong IDEA (Inclusivity, Diversity, equity, and accessibility) lens before the survey is distributed. The PCCS could be one source of relevant expertise and diversity for these reviews.</p> <p>2. The PCCS applauds the DPS leadership for creating a new partnership between the DPS and the National Society of Black Physicists (NSBP), which includes funds to be used to encourage members of underrepresented racial and ethnic minority groups to enter (or remain in) planetary science. This partnership is particularly important in light of the results of the DPS members survey in which "Support Diversity in the community" was the 4th highest ranked response to "Which of these do you think should be top priorities of the DPS over the next five years?" (which had 15 possible responses).</p> <p>• We recommend that DPS leadership expand this partnership to other relevant professional societies with significant outreach to URM communities, including (but not necessarily limited to) SACNAS (Society for Advancement of Chicanos/Hispanics and Native Americans in Science) and AISES (American Indian Science and Engineering Society).</p> <p>• We recommend that the DPS, with their partners, and in consultation with the PCCS define a contact person within each groups' hierarchy for communication about the partnership. Use these contact</p> <p>OPEN</p>	<p>1. Assisted with DPS' Covid-19 resources</p> <p>2. Developed a reading list to help DPS members educate themselves on DEIA (Diversity, Equity, Inclusivity, and Accessibility)</p> <p>3. Assisted DPS committee craft their statement in support of the Black Community</p> <p>4. Created list of Actionable steps to make our community more inclusive</p> <p>5. Spearheaded the DPS Workforce survey</p> <p>6. Served on EDI working group steering committee</p> <p>7. Leading EDI white papers for decadal survey</p> <p>8. Created an ePoster for the cancelled LPSC meeting</p> <p>9. Shared thoughts on mid-career prize and pushed for it to include a plenary talk</p> <p>10. Developed timeline from the DPS meeting</p> <p>OPEN</p>	<ul style="list-style-type: none">• Enthusiastically attend Bystander Intervention, Implicit Bias, and other EDI training• Fill out demographic information requested by professional organizations and the NASA NSPIRES system• Fill out post-meeting surveys with experiences, including views of how the meeting was inclusive/accessible (or not)• Pay attention to whom you work with. Who is missing from your collaborations?• Pay attention to all axes of underrepresentation in planetary exploration: besides gender, consider race, disability, sexuality, etc.• Note who is included and who isn't in your research groups and conference <p>OPEN</p>

Join Us!

We are looking for new members!

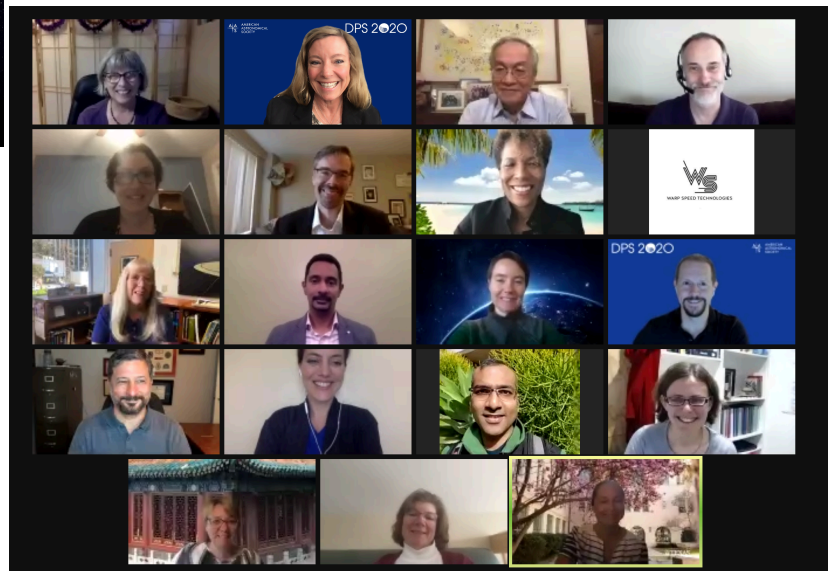
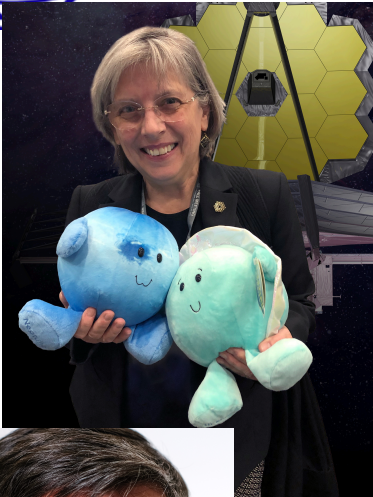
Are you interested in making the planetary science community more diverse and inclusive? If so, please contact dipccs@gmail.com by Oct 30 to volunteer to be part of the DPS Professional Culture and Climate subcommittee (PCCS). A list of our charge, duties, and expectations can be found at: <https://dps.aas.org/leadership/climate>. You also

OPEN





Congratulations to the 2020 DPS Prize Winners!





Division for Planetary Sciences

of the **AMERICAN ASTRONOMICAL SOCIETY**



Nominating Subcommittee

Matthew Knight



DPS Nominating Subcommittee

Purpose: Responsible for presenting to the DPS secretary a list of candidates for DPS officers and committee

Duties: Several telecons in December-March each year to identify potential candidates, emails/calls with potential candidates as needed, notify DPS secretary of final list of candidates

Duration: 3 years (serve as Chair in final year)

Current committee:

- Matthew Knight [Chair], assistant professor at U.S. Naval Academy; comets
- Desirée Cotto-Figueroa, associate professor at U. of Puerto Rico at Humacao; asteroids

Now: Nominate candidates to run for the subcommittee!



Nominating Subcommittee: Procedure for Nominations

- Please nominate someone by writing the name (& institution) of the individual in the Zoom chat window
 - Each nomination must be seconded (in the Zoom chat window)
 - Each nominee must be present at the meeting and agree to run
 - Must be a DPS member to be on the Nominating Subcommittee
-
- ***Later in the member's meeting: Vote for one candidate via a Google form.*** Link will be provided when time to vote.



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Secretary Report

Anne Verbiscer

October 28, 2020

DPS 2020 Virtual Members Meeting



In Memoriam

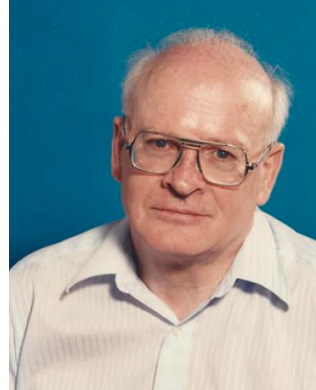
Nadine Barlow



Jeffrey Bell



Lyle Broadfoot



Margaret Burbidge



William Cassidy



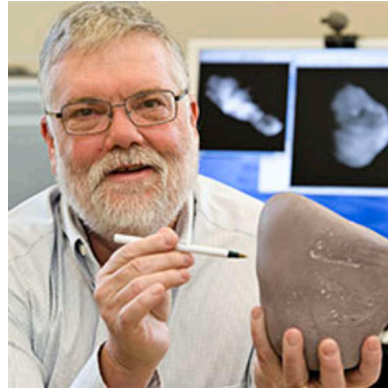
David Criswell



Franck Hersant



H. Jay Melosh



Michael Mishchenko



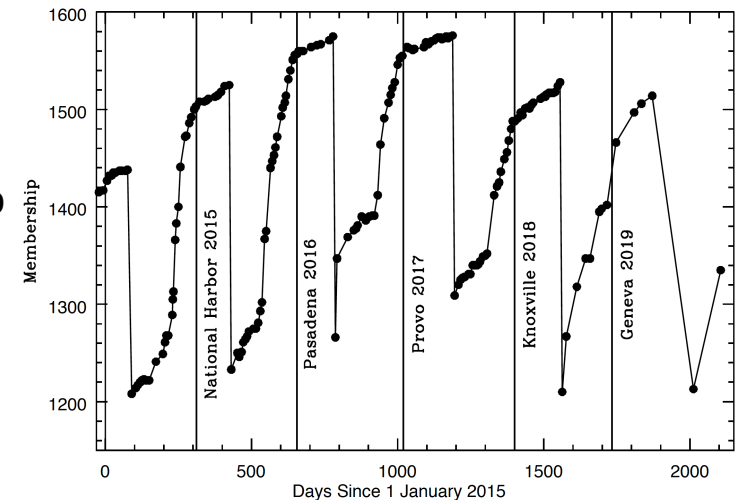
Adam Showman





Membership

- Current active membership: **1335** – 67 fewer than last year at the same time. Non-US fraction 14%
- **Renew your membership and pay your dues before 31 Dec. 2020 to avoid being dropped from the membership in February.**
 - Pay your 2021 membership dues online at <https://my.aas.org/services>
 - Remember that your AAS membership benefits include 15% off the author charges for one paper published in an AAS Journal such as *The Planetary Science Journal*



Elections

Remember to vote !!

568 people voted this year! **45%** of our membership, compared to 41% last year.

Thank you for voting and thank you to all candidates for volunteering to serve the DPS in leadership roles.

Newsletters

44 issues so far this year. Thank you to DPS Webmaster Katie Gosmeyer for posting on the DPS website.

For obituaries, please send the full text when it is ready for distribution to the DPS Membership. Thank you.



DPS Incoming Officers, Committee Members, Subcommittee Chairs

Amy Mainzer
DPS Chair



Diana Blaney
DPS Vice Chair



Maria Womack
DPS Secretary



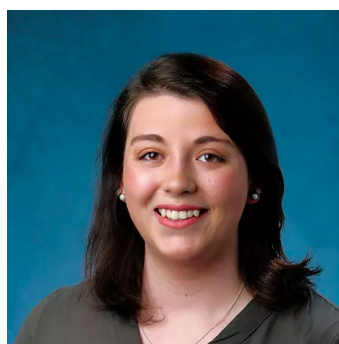
Jessie Christiansen
DPS Committee



Kelsi Singer
DPS Committee



Maya Yanez
DPS Com. Student Rep.



Serina Diniega
PCCS Co-Chair



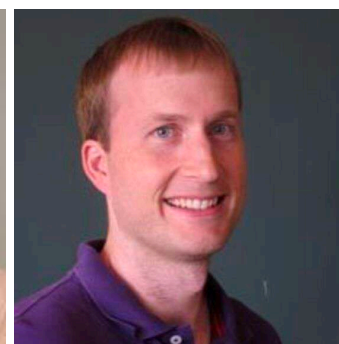
Shawn Brooks
PCCS Co-Chair



Maitrayee Bose
Prof. Dev. Subcomm.



Matthew Knight
Nom. Subcomm.



Catherine Neish
Pub. Subcomm.





DPS Outgoing Officers, Committee Members, and Subcommittee Chairs

Amanda Hendrix
DPS Chair -> Past Chair



Linda Spilker
DPS Past Chair



Anne Verbiscer
DPS Secretary



Dale Cruikshank
DPS Historian



Michele Bannister
DPS Committee



David Morrison
DPS Committee



Julie Rathbun
PCCS Chair



Carrie Nugent
Nom. Subcomm.



Candace Gray
Prof. Dev. Subcomm.



Ross Beyer
Pub. Subcomm.





My Final Report as DPS Secretary

- I started as DPS Secretary at the Tucson meeting in 2014, so this year's Members meeting in 2020 marks the end of my tenure.
- I owe a huge debt of gratitude to my predecessor, Athena Coustenis, who gave me an indispensable “cookbook” of how to do this job.
- I also acknowledge the other DPS Secretaries (John Spencer, Linda French, et. al.) for providing exceptional examples of how to take meeting notes, etc. It's only been through following their exemplary service that I've been able to fill this role for the past 6 years.
- I thank also the DPS Leadership, past and present, for support during my tenure.
- Finally, I thank and welcome Maria Womack, the incoming DPS Secretary. I know the DPS is in excellent hands with Maria as the next Secretary.



Division for Planetary Sciences

of the **AMERICAN ASTRONOMICAL SOCIETY**

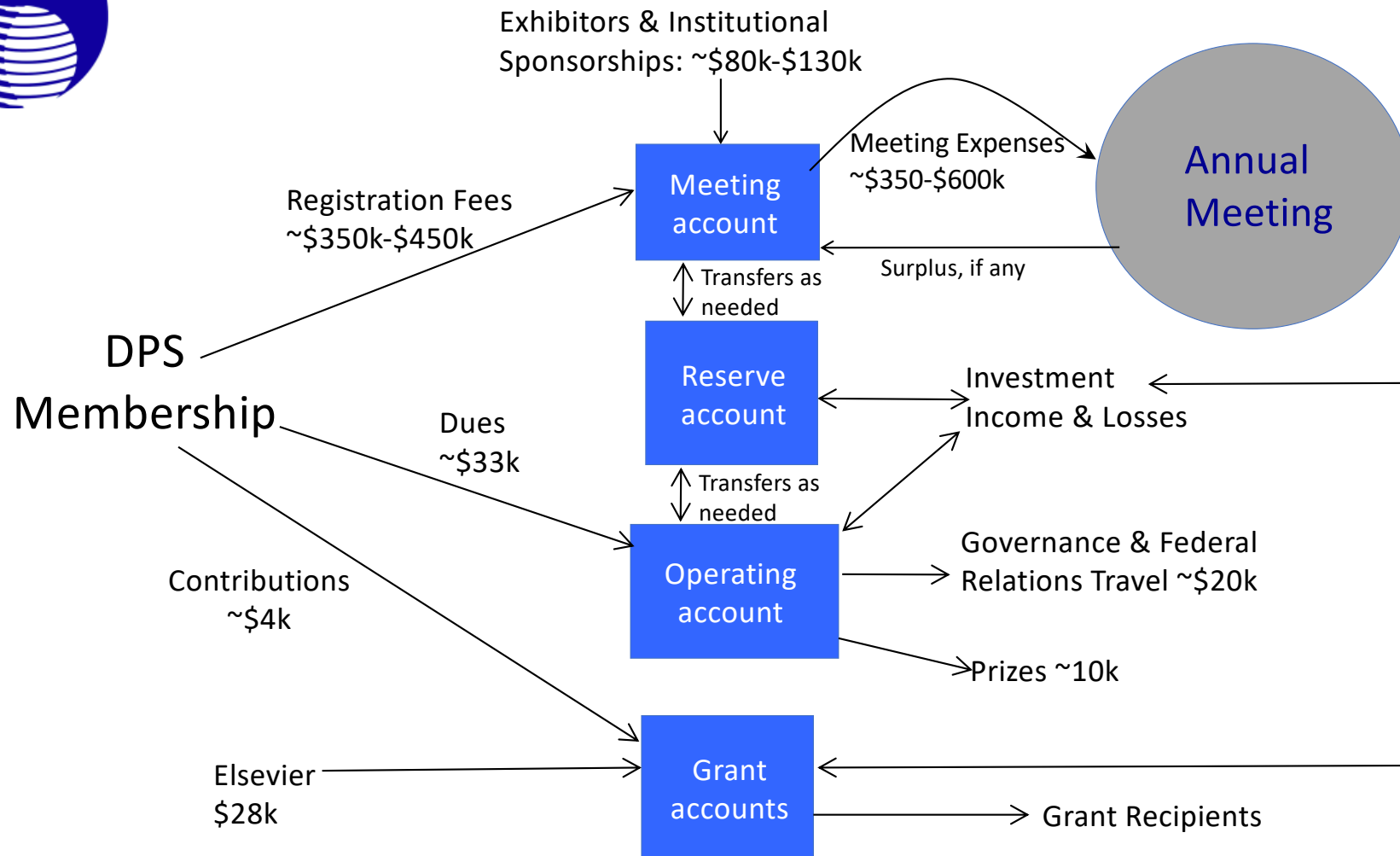


Treasurer Report

Tony Roman



DPS Annual Cash Flow





Accounts	10/25/20 Balance
Assets	
Cash and Bank Accounts	
Annual Meeting	3,168.67
Hartmann Grant	216,337.78
Kuiper & Urey Prizes	-555.26
Masursky Prize	7,141.39
Minoritized Communities Grant	15,000.00
Niebur Grant	57,862.24
Operating	222,137.80
Reserve	821,738.45
Sagan Prize	8,503.78
Total Cash and Bank Accounts	1,351,334.85
Total Assets	1,351,334.85
Liabilities & Equity	
Liabilities	
Credit Cards	
VISA	2,770.73
Total Credit Cards	2,770.73
Total Liabilities	2,770.73



Hartmann Student Travel Grant

Amy Mainzer

- Out of 11 student & postdoc applications, all 11 were funded a total of \$2405
- Representing 4 countries (Brazil, Canada, U.S., Switzerland) and 10 institutions; 9 students and 2 postdocs:
 - U Maryland, Embry Riddle, U Alabama, Observatorio Nacional, UC Santa Cruz, UCF, U Colorado, NAU, U Western Ontario, U of Bern
- We greatly appreciate the generosity of William Hartmann and donors to this fund



2020 DPS Dependent Care Grants

Mark Gurwell, Candace Gray, Maitrayee Bose

- The DPS's Susan Niebur Professional Development Fund provides financial assistance to qualifying members in order to facilitate their meeting participation.
- For the 2020 Meeting, we received 3 applications, 1 of which was later rescinded by the applicant. Both remaining applications approved, for up to \$250.
- 1 for a postdoc, 1 for a graduate student
- Both applications were for funds to offset care expenses for a young child.



DPS Education and Outreach Mini-Grants

Sanlyn Buxner

- Small grants to facilitate EPO activities
- 3 have awarded 3 grants in this first cycle
 - Heidi Wu Title: Boise State University – Support of Virtual Lectures
 - Larry Lebofsky – Planetary Science Institute – Meteorite Kits for Public Engagement
 - Malena Rice – Yale University – Astrobites Videos of Scientists
- Each awardee will be featured on the DPS website and asked to present a talk or poster at the next DPS meeting they attend, an additional abstract slot reserved for education and outreach in addition to science talks/posters at DPS meetings.



New Travel Fund for Underrepresented Minority Communities in Science

Amy Mainzer

- New fund to support travel/participation in DPS and National Society of Black Physicists meetings
- 6 students were funded from 5 institutions
 - Embry Riddle, Howard U, U of South Florida, UCLA, Georgia Institute of Technology
- Current fund assets: \$15,000; \$495 for this year's travelers covered through additional donation
- We are hoping to grow this fund! Please consider contributing.



For More Information

DPS.Treasurer@aaas.org



Division for Planetary Sciences

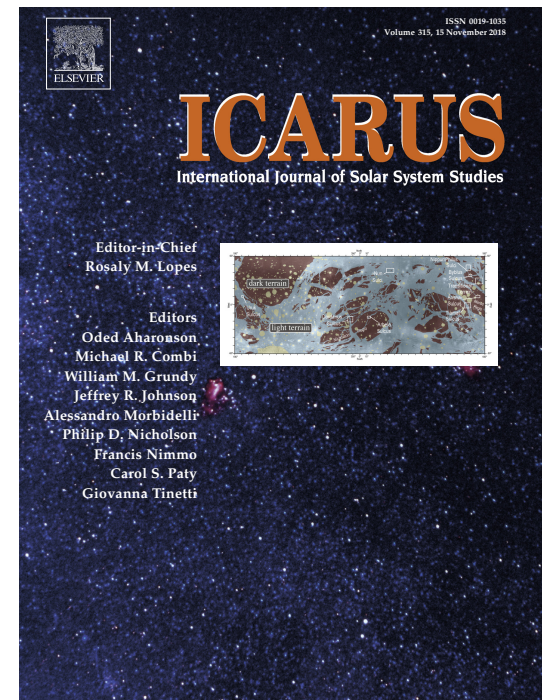
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Icarus Editor's Report

Rosaly Lopes

Tessa de Roo, Eva Scalzo





Editors

Editorial Role	Editor	Affiliation	Country
Editor-in-Chief	Dr. Rosaly Lopes	NASA Jet Propulsion Laboratory	United States
Editor	Professor Oded Aharonson	Weizmann Institute of Science	Israel
Editor	Dr. Debra Buczkowski	Johns Hopkins University	United States
Editor	Professor Michael Combi	University of Michigan	United States
Editor	Dr. William Grundy	Lowell Observatory	United States
Editor	Dr. Brandon Johnson	Purdue University, Department of Earth, Atmospheric, and Planetary Sciences	United States
Editor	Dr. Juan M. Lora	Yale University	United States
Editor	Dr. Alessandro Morbidelli	Côte d'Azur Observatory	France
Editor	Dr. Philip Nicholson	Cornell University	United States
Editor	Dr. Carol Paty	University of Oregon	United States
Editor	Dr. Elizabeth B. Rampe	NASA Johnson Space Center	United States
Editor	Dr. Darrell Strobel	Johns Hopkins University	United States



Published Special Content (2016-2020 YTD)

Articles	Special Item Group Name	Compilation Year	Volume Issue
34	SI: Titan's Surface & Atmosphere	2016-03-15	270C
29	SI: Lunar Reconnaissance Orbiter	2016-04-30	273C
12	SI: Planetary Rings	2016-08-24	279C
29	Special Issue: MicroMars to MegaMars	2016-09-01	280C
22	SI: Lunar Reconnaissance Orbiter	2016-11-29	283C
26	The Pluto System	2017-02-24	287C
9	SI: Lunar Reconnaissance Orbiter	2017-09-13	298C
19	SI: Asteroids and Space Debris	2018-02-12	304C
17	Mars Polar Science VI	2018-05-04	308C
13	SI: The geologic mapping of Ceres	2018-12-05	316C – Top Cited
1	SI: Lunar Reconnaissance Orbiter	2018-12-19	317C
18	SI: Composition of Ceres	2018-12-10	318C
16	SI: Occator Crater on Ceres	2019-02-13	320C – Top Cited
1	SI: Mars Polar Science	2019-02-25	322C
8	SI: Tunguska	2019-04-24	327C – Top Downloaded
11	Trans-Neptunian Solar System	2019-12-11	334C
11	SI: Late Mars Climate	2020-04-10	342C
20	Cassini Mission Science Results	2020-06-16	344C

Last Updated: 13 Sep 2020



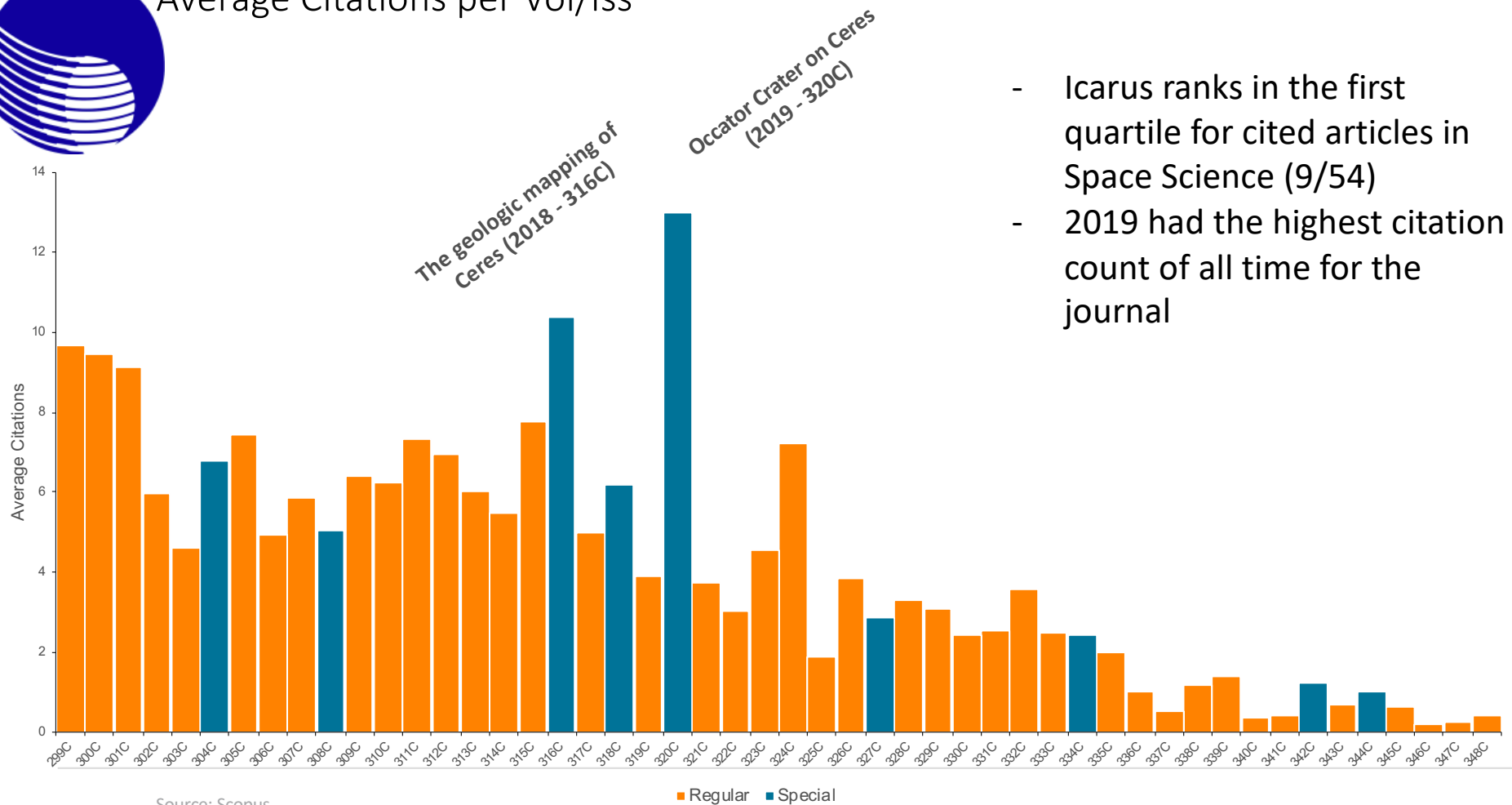
Special Issues in Special Issue Database

Special Issue Title	Stage	Targeted Volume	Volume Date	Expected Publication Year
From MarsExpress to ExoMars	In press	V353	1 January 2021	2020
Pluto System, Kuiper Belt, and Kuiper Belt Objects	Finalizing	V356	1 March 2021	2021
Juno	Proposed	TBD	TBD	2022
Ice Giants	Proposed	TBD	TBD	2022

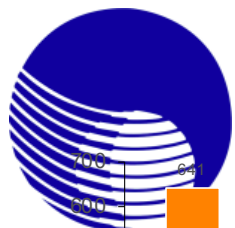
Last Updated: None



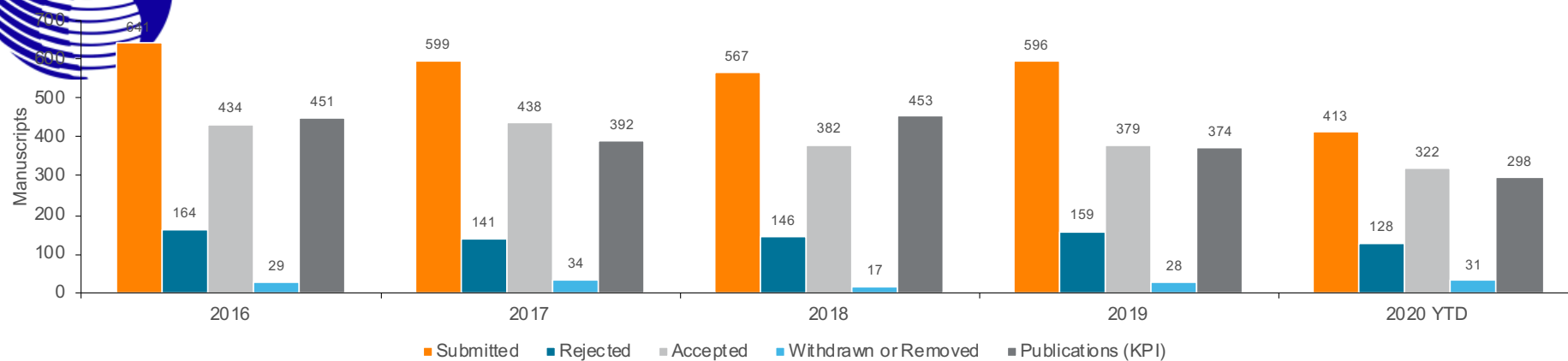
Average Citations per Vol/Iss



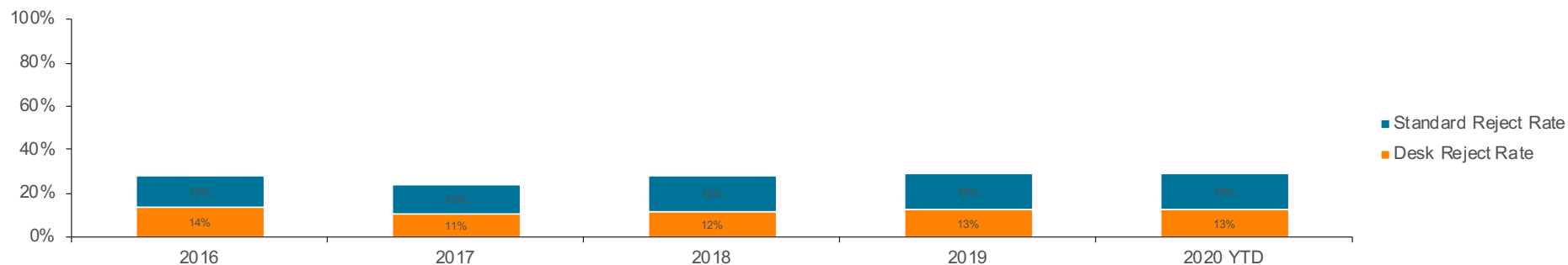
- Icarus ranks in the first quartile for cited articles in Space Science (9/54)
- 2019 had the highest citation count of all time for the journal



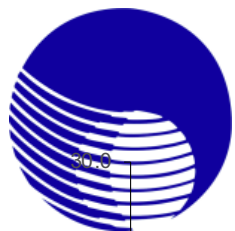
Submitted Manuscripts & Editorial Outcomes



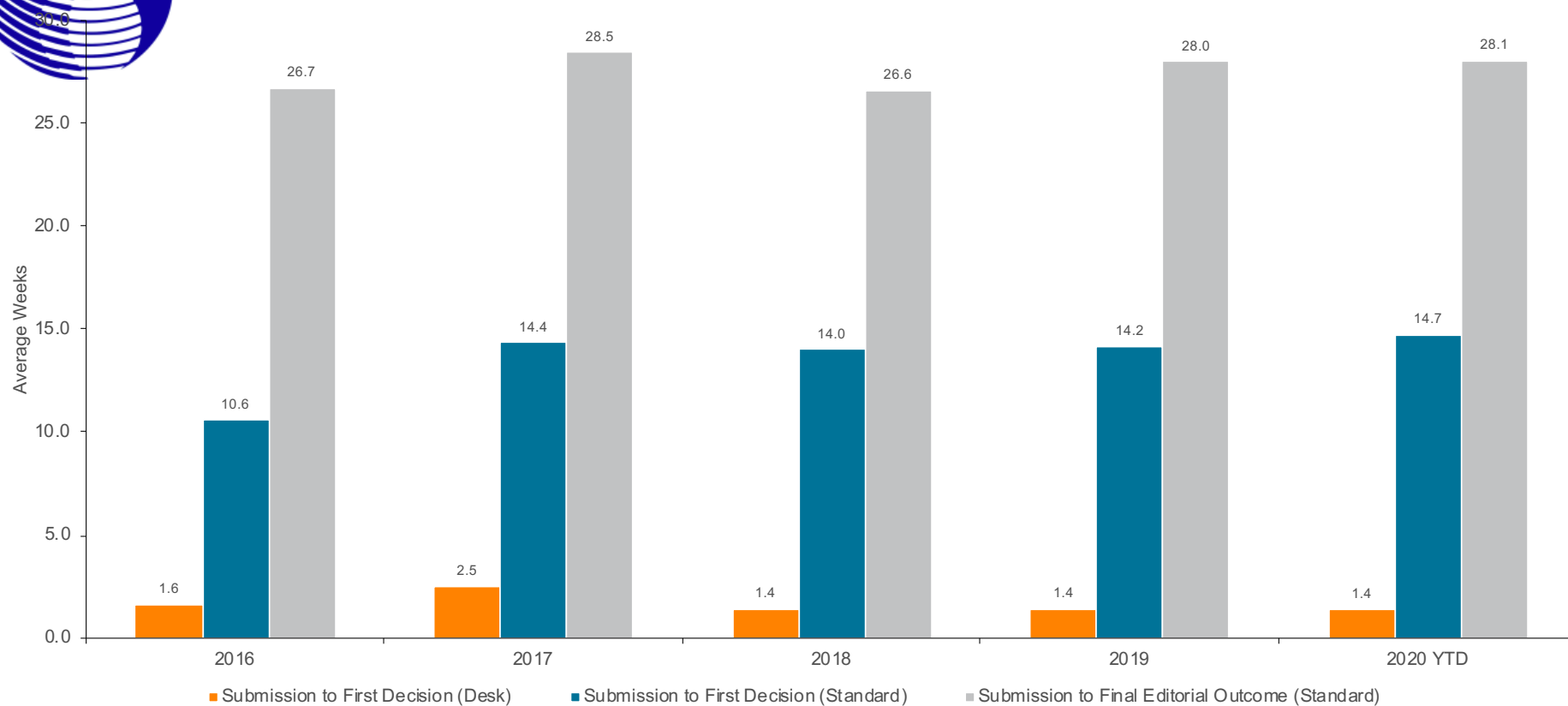
Rejection Rate



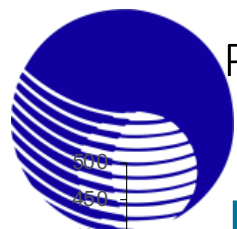
Last Updated: 18 Oct 2020



Average Editorial Speed for Accepted and Rejected Articles

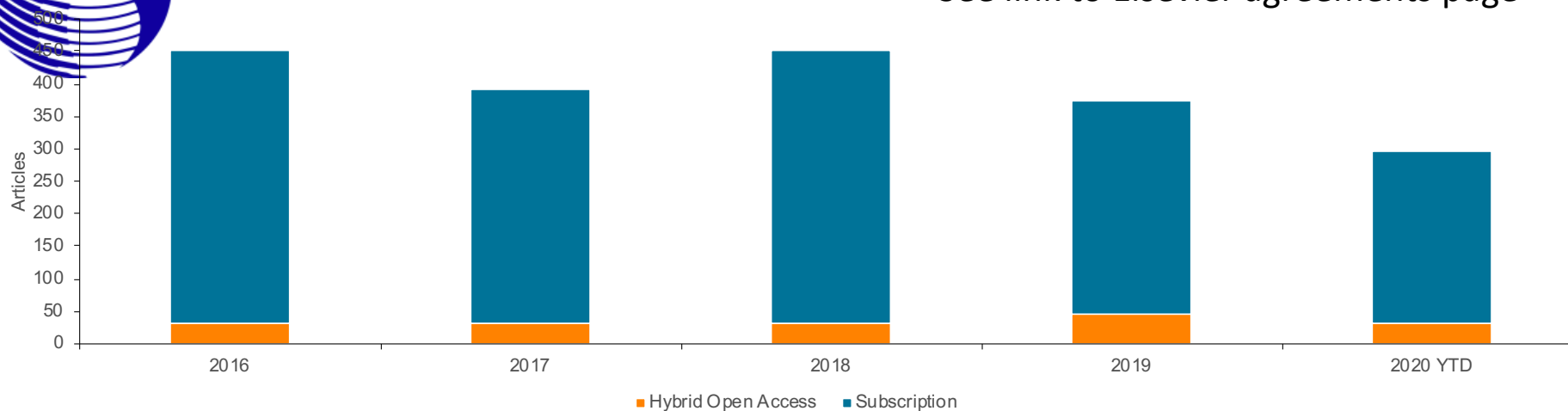


Last Updated: 18 Oct 2020



Published Articles by Access Type

Maximum open access fee \$2680
See link to Elsevier agreements page



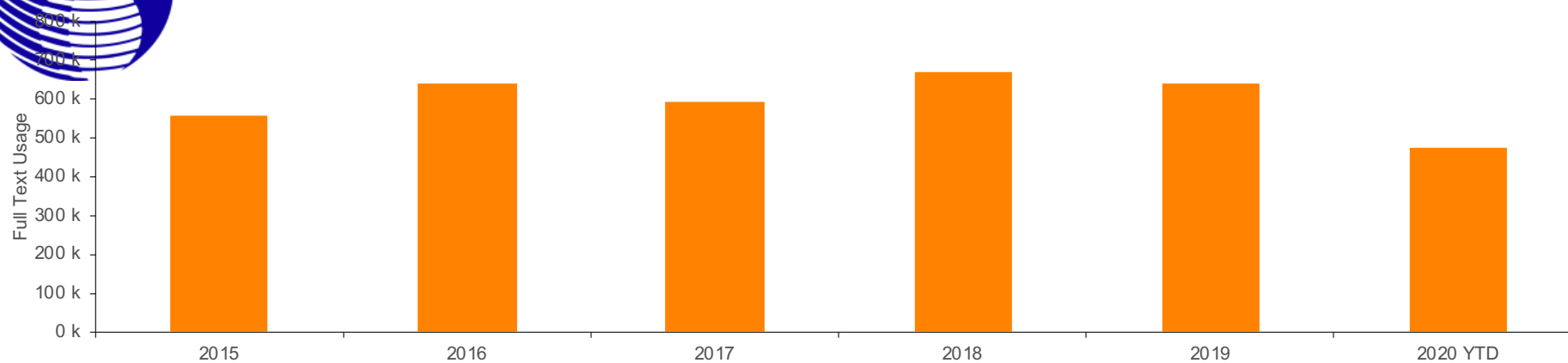
Access Type	KPI Articles	2016	2017	2018	2019	2020 YTD
Hybrid Open Access	Y	33	32	32	47	31
Subscription	N	13	7	11	11	10
Subscription	Y	418	360	421	327	267
Total		464	399	464	385	308



JOURNAL
Source: Journal Citation Reports (Regd.) (Clarivate Analytics)



Full Text Usage per Platform per Year (Science Direct)



Type	2015	2016	2017	2018	2019	2020 YTD
ScienceDirect	558,951	641,474	596,195	672,320	644,228	473,826



Division for Planetary Sciences

of the **AMERICAN ASTRONOMICAL SOCIETY**



Planetary Science Journal (PSJ) report

Faith Vilas



THE PLANETARY SCIENCE JOURNAL



AAS Journals



Faith Vilas, Editor

Science Editors:

Brian Jackson
Ed Rivera-Valentin
Maria Womack





THE PLANETARY SCIENCE JOURNAL



Manuscripts submitted to PSJ: 205

Pending on 1 Oct 2019: 1

Accepted for Publication: 84

Declined/Rejected: 12

Withdrawn: 3

Editorial: 1

In Process on 19 Oct 2020: 105

DAR Opt In:

Before 4/01/2020: 40%

After 4/01/2020: 85%

Overall: 75%

Median Time From Submission to First Decision:

40 Days





THE PLANETARY SCIENCE JOURNAL



Three issues in Vol.1 – 2020

Increase to 6 issue for Vol. 2, 2021

5 Focus Issues planned:

Cometary Symposium in Celebration of Mike A'Hearn

Tony Farnham

Lunar Mission Concepts and High-Priority Landing Sites

Barbara Cohen & Maria Banks

Planetary Decadal Mission Concept Studies

Julie Castillo-Rogez &
Martha Gilmore

The TRAPPIST Habitable Atmosphere Intercomparison (THAI).
Collection of model intercomparison papers for GCM, EBM
and 1D models applied to THAI

Thomas Fauchez

Ocean Worlds: Motivations for a Multi-Decadal Exploration Program

Shannon MacKenzie
& Samuel Bell





Division for Planetary Sciences

of the **AMERICAN ASTRONOMICAL SOCIETY**



DPS Membership Survey Results

Amanda Hendrix



2020 DPS Workforce Survey Results

DPS Members Meeting

28 October 2020

The results presented here represent a subsection of results from the Survey; the full report from AIP will be posted later in 2020.

See also DPS iPosters by Edgard Rivera-Valentin (502.07) and
Hendrix & Rathbun (502.02)



The 2020 DPS Planetary Workforce Survey

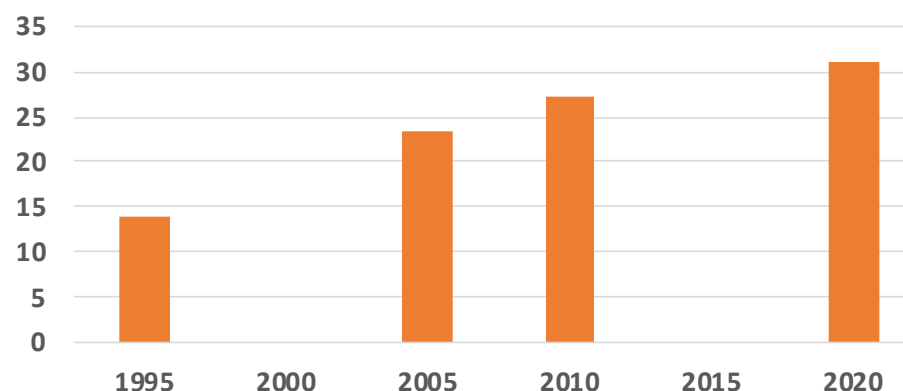
- The 2020 DPS survey was sent to 4,965 members of the planetary science community on April 16th, 2020.
- Two additional follow-up survey invitations were sent on April 22nd and April 28th.
- We received 2,367 responses (48% response rate).
- **895** (38%) of those respondents were members of the DPS.
- In 2010, DPS survey sent to 1290 people, 510 responded



Demographics – Gender Identity

The number of members who identify as women has risen by 15% in the last 10 years

DPS Members: % who identify as women



(from 2010 presentation)

Demographics - Age and Gender

	Age					Gender	
	<30	31-40	41-50	51-60	>60	% Male	% Female
1995	11	26	25	24	13	86.1	13.9
2005	13	27	25	21	14	76.5	23.5
2010	13	26	22	22	17	72.9	27.1

Percentage of respondents.

The overall number of female members has doubled in the past 15 years

Gender Identity of Members of the Division for Planetary Sciences

Women	31%
Men	66%
Another gender identity	1%
Prefer not to respond	2%

Among all respondents: 36% women, 60% male

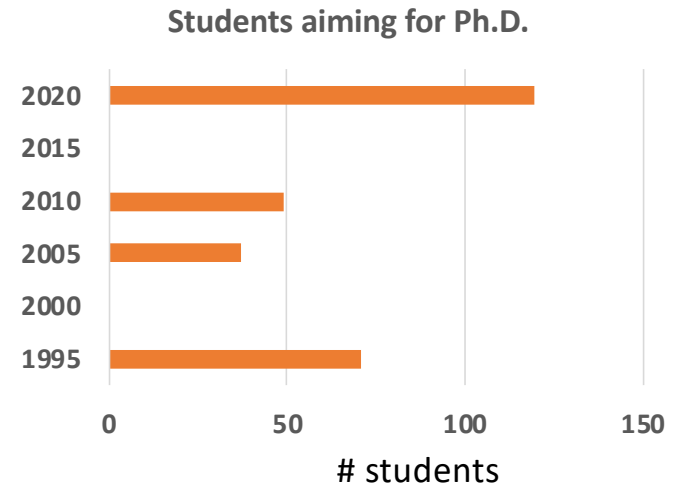


Education - Goals

If still a student, what is your current degree goal? (number of respondents)

	1995	2005	2010
Doctorate	71	37	49
Masters	4	0	3
Bachelors	0	0	2

2020
119
5



(from 2020 survey)

Out of the 895 DPS respondents, 124 (14%) were students at the time of the survey. Almost all of these students intended to pursue a Doctorate or PhD (96%) at some point in their academic career, and only a small percentage (4%) intended to pursue a Master's as their highest degree. For non-students in the survey, the highest earned degree was overwhelmingly a Doctorate or PhD.



DPS Priorities

(28) Which of these do you think should be top priorities of the DPS over the next five years? *Please check up to four.*

(from 2010 survey)

23. How would you rank the following as priorities of the DPS over the next 5 years?

433 people answered the question; 77 people skipped the question

In order of priority:

1. [9.23] Organize annual meeting - 411 responses
2. [7.24] Influence government policy - 387 responses
3. [5.91] Job service (register, interview booths) – 379 responses
4. [5.43] Encourage career development, mentoring – 407 responses
5. [5.39] Public information – 388 responses
6. [5.31] Dissemination of results in the press – 398 responses
7. [5.25] Sponsor/co-sponsor other topical meetings – 380 responses
8. [4.94] Education university to postdoc – 390 responses
9. [4.19] Education K-12 – 381 responses
10. [3.72] Supporting diversity in the community – 396 respondents

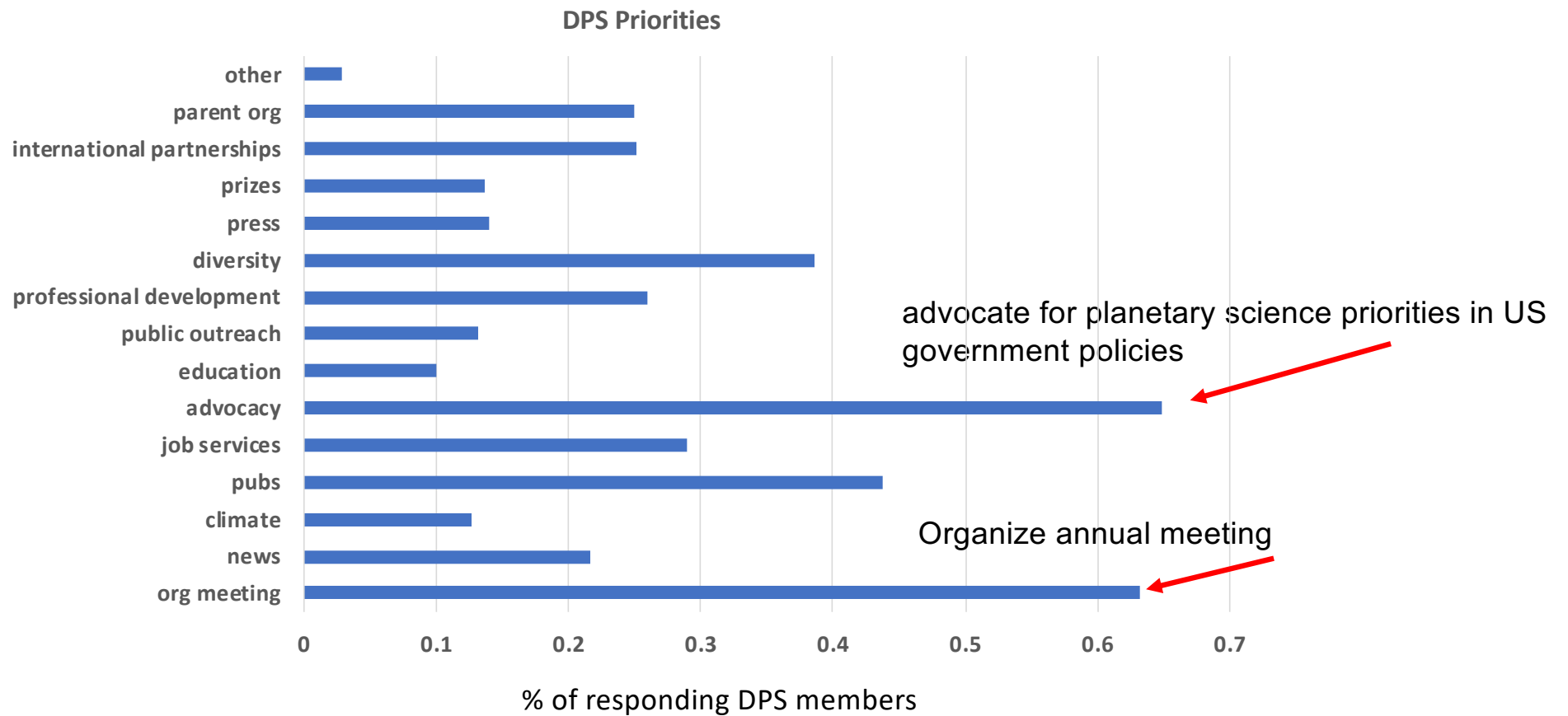
581 responses

566 responses

Priority for the Division for Planetary Sciences	Percentage of Member Support
Advocate for planetary science priorities in US government policies	65%
Organize annual meeting	63%
Support publications for communication within the scientific community	44%
Support diversity in the community	40%
Provide job services	30%
Encourage professional development	26%
Enhance partnerships with the international planetary science community	25%
Represent planetary science to AAS	25%
Distribute community news	22%
Disseminate results in the press	14%
Award prizes to those who excel in our field	14%
Access and mitigate the DPS impact on the terrestrial climate	13%
Provide public outreach materials for members	13%
Furnish education opportunities	10%

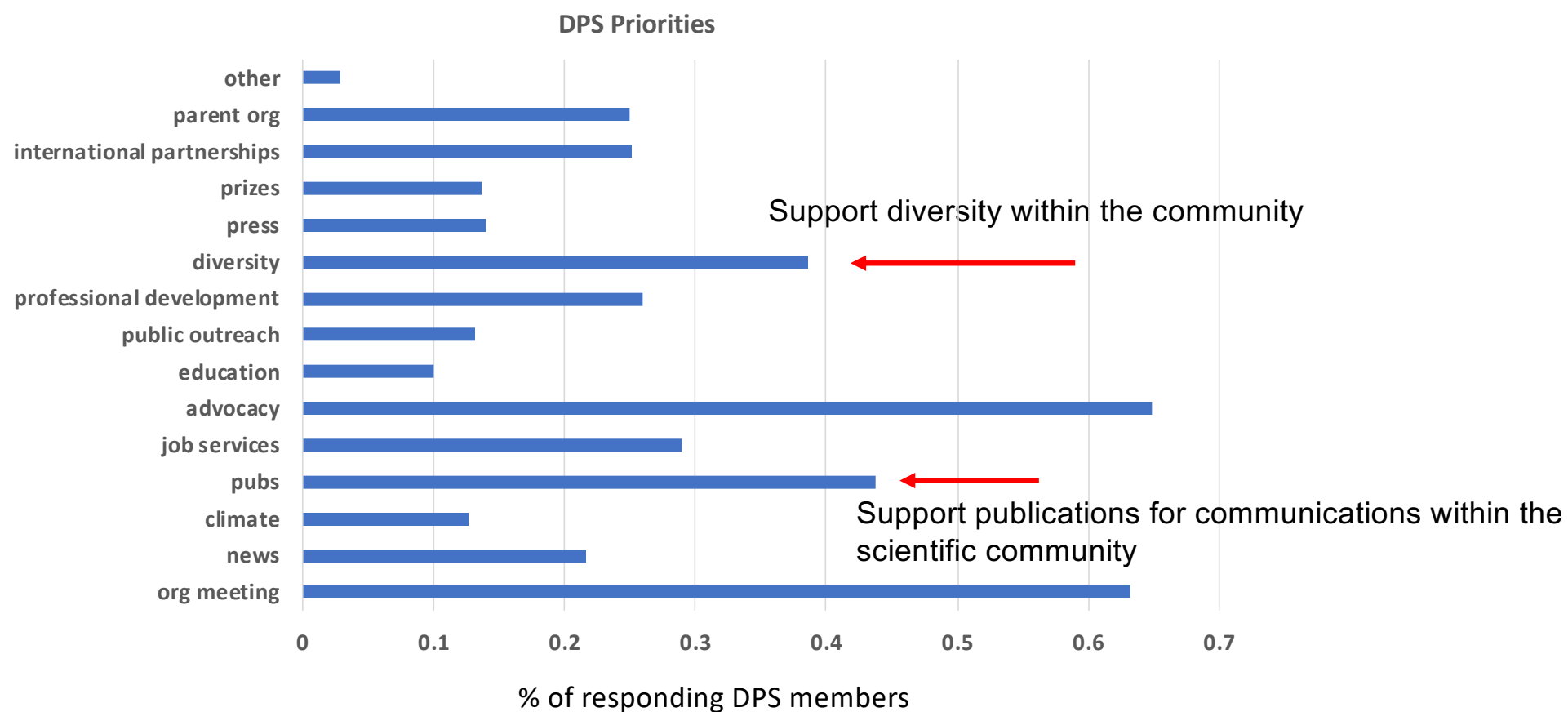


DPS Priorities





DPS Priorities





Nominating Subcommittee Voting



Division for Planetary Sciences

of the **AMERICAN ASTRONOMICAL SOCIETY**



DPS Prize SubCommittee Report

Linda Spilker, Past Chair



The DPS Claudia J. Alexander Prize

- For excellence and achievements by a mid-career scientist
 - 8-25 years post terminal degree
- This new DPS Prize recognizes a mid-career scientist who has made and continues to make outstanding contributions that have significantly advanced our knowledge of planetary systems, including our solar system. These contributions can be experimental, observational, and/or theoretical in nature and achieved in the laboratory, office, and by observations with ground-based and space-based instruments and telescopes.





Prize Subcommittee Report

- The DPS sponsors five prizes:
- The [Gerard P. Kuiper Prize](#) honors outstanding contributions to the field of planetary science.
- The [Claudia J. Alexander Prize](#) recognizes excellence and achievements by a mid-career scientist.
- The [Harold C. Urey Prize](#) recognizes outstanding achievement in planetary research by a young scientist.
- The [Harold Masursky Award](#) acknowledges outstanding service to planetary science and exploration.
- The [Carl Sagan Medal](#) recognizes and honors outstanding communication by an active planetary scientist to the general public.
- The [Jonathan Eberhart Planetary Sciences Journalism Award](#) recognizes and stimulates distinguished popular writing on planetary sciences.
- The prize subcommittee, chaired by the past-chair, recommends candidates to the Committee, the Committee selects the prize recipients.
- <https://dps.aas.org/prizes/nomination-form>
- **All DPS members are encouraged to submit prize nominations in 2021!**



Eligible Nominations Remaining

- Nominations are considered for three years or for the duration of the candidate's eligibility.
 - Nominations can be resubmitted after three years.
 - Some DPS prize categories *currently have only a handful of nominations*
 - The [Gerard P. Kuiper Prize](#): 5
 - The [Claudia J. Alexander Prize](#): 0
 - The [Harold C. Urey Prize](#): 12
 - The [Harold Masursky Award](#): 1
 - The [Carl Sagan Medal](#): 4
 - <https://dps.aas.org/prizes/nomination-form>
-
- All DPS members are encouraged to submit prize nominations in 2021!



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2020 Virtual Meeting Update

Lucy Lim (SOC Chair)



Many thanks to our wonderful SOC Members:

- Fran Bagenal
- Ron Ballouz
- Shawn Brooks
- Sanlyn Buxner
- Leigh Fletcher
- Jennifer Hanley
- James Tuttle Keane
- Emily Kramer
- Seth Jacobson
- Shannon MacKenzie
- Laura Mayorga
- John E. Moores
- Rosemary Pike
- Cynthia Phillips
- Noemi Pinilla-Alonso
- Ken Rumstay
- Alejandro Soto
- Federica Spoto
- OJ Tucker
- Ian Wong
- Laura Woodney
- Leslie Young



Goals of the Virtual Meeting Format

- Accommodate multiple time zones
- Avoid “zoom fatigue”; adapt to shorter attention spans for online content
- Make the meeting accessible
 - Recognize that people may not be able to rearrange family/academic/etc. responsibilities for the week as they might have before the pandemic

Strategies:

- Short “meeting days” focused on interaction, exchange of ideas
- Any noninteractive content should be recorded to be accessible on an asynchronous basis
 - Author-provided captioning and/or transcripts of videos were supported and encouraged
- Robust text-based forum to encourage asynchronous interactions
- The basic format was road-tested by the DDA meeting early in the summer (huge debt of thanks to Kat Volk, Seth Jacobson, and the DDA organizers); main challenge for the DPS was to scale up
- Include a VOC to organize peripheral activities for community building – basically everything outside the plenary and parallel science sessions
 - thanks, Amanda and the VOC!!



Meeting Statistics

- 521 contributed abstracts as of 2020-08-13
 - 311 oral, 210 iPoster
 - includes 16 Workforce abstracts and 28 Decadal Whitepaper abstracts
 - Does not include 21 plenary talks in 5 plenary sessions
 - 477 contributed science+education/community engagement presentations were organized into 75 parallel sessions
 - Everyone was given the presentation type they asked for as there were no resource-based limits on the number of oral presentations
- 868 registrations as of 2020-10-27



Thank you to the Virtual Organizing Committee (VOC)!

Joseph A'Hearn
Michele Bannister
Carver Bierson
Sanlyn Buxner
Matija Cuk
Ana Carolina de Souza Feliciano
Katie Gosmeyer
Candace Gray
Matthew Hedman
Timothy Holt
Brian Jackson
Steven Kreyche
Tom McCord
David Morrison

Shantanu Naidu
Cathy Olkin
Jani Radebaugh
Kurt Retherford
Tony Roman
Kelsi Singer
Jason Soderblom
Joe Spitale
Matthew Tiscareno
Anne Verbiscer
Anne Virkki
Padma Yanamandra-Fisher



Thank you to AAS Meeting Staff!

- Elizabeth Scuderi
- Jasmine Lathon-Gordon
- Debbie Kovalsky
- Zuzana Kelyman
- Sherrie Brown
- Crystal Tinch
- Warpspeed crew





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2021 DPS Meeting Update

Jason Soderblom(LOC)

Jennifer Hanley (SOC)



Providence, RI

October 3–8, 2021



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bostonlogan

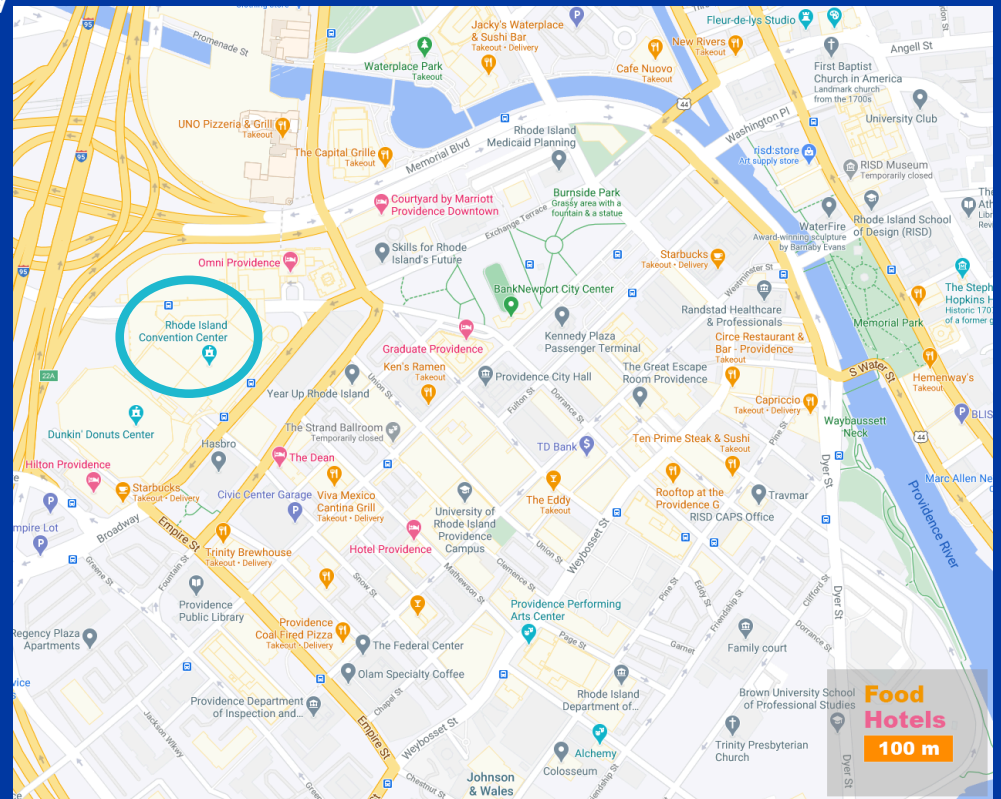
Green Airport

~1 hr by
train, car, or bus

~10 min by
car or bus



Rhode Island Convention Center





Future DPS Meetings

- 2022 DPS Meeting, October 2nd – 7th
 - London, Ontario
 - LOC: Catherine Neish
 - SOC: John Moores
- 2023 DPS Meeting: Oct 1-6
 - San Antonio, TX
 - LOC: Kurt Retherford
- 2024 DPS Meeting: Oct 6-11
 - Boise, ID
 - LOC: Brian Jackson
- 2025?
- 2026 DPS Meeting: Oct 25-30
 - Spokane, WA
 - LOC: Jason Barnes



Announcement of Nomination Subcommittee Member

And the winner is..... Sondy Springmann (LPL/Univ. Arizona)

drum roll





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Outgoing Chair Remarks

Amanda Hendrix



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Incoming Chair Remarks

Amy Mainzer



Open Floor for Community Comment

- And group Zoom photo!



Backup Slides



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Publications Subcommittee Report

Ross Beyer



Publications Subcommittee

- New Chair: Catherine Neish

Seeking new members: please send statement and 2-page CV to Ross Beyer (rbeyer@seti.org).



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Press Officer's Report

Shantanu Naidu



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Education Officer's Report

Sanlyn Buxner



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Webmaster's Report

Katie Gosmeyer



DPS Website Updates

- AAS member site transitioned members.aas.org -> my.aas.org. Broken links on dps.aas.org? Email DPS.Webmaster@aas.org
- DPS Photo Gallery: photos.aas.org/DPS
 - For contribution instructions, email DPS.Webmaster@aas.org
- New bylaws: dps.aas.org/bylaws
- Searchable Planetary Science REU and Graduate School databases: dps.aas.org/education
 - Curated by David Klassen
 - Updates to your entry? Please email DPS.EdUpdate@aas.org



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Federal Relation Subcommittee's Report

Kurt Retherford



Federal Relations Subcommittee



- NASA's FY2020 Planetary Sciences Budget is strong at \$2.71B
- **FRS Hill Visit right before Covid-shutdown, March 4&5, 2020**
- AAS Bahcall Public Policy fellow Kelsie Krafton (previous fellow Ashley Wilkins was hired onto a key subcommittee staff!)
- DPS Committee Hill Visit not planned this year
- AAS-led Congressional Visit Days virtually on 15-17 Sept., usually includes DPS folks
- <https://aas.org/policy/advocacy-resources>



Communicating with Congress is crucial

We're happy to help plan your own Hill visit dps.frschair@aas.org, dpsfrs@aas.org



<https://dps.aas.org/public-policy/how-to-get-involved>

Decadal Surveys

The National Academy of Sciences' decadal surveys are scientific community-based and recommend **ranked, consensus scientific priorities** for the coming decade.

The decadal surveys' overriding priority has been a **balanced program...**

- across discipline and mission size
- between competed and strategic programs
- between facilities and grants

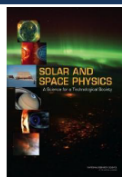
...to **optimize return on taxpayer investment.**



Astronomy and Astrophysics (Ongoing)



Planetary Science (Starts 7/2020)



Solar and Space Physics (Midterm)

Missions and Facilities

Small and Mid-Scale

Completed | Investigator-led | Focused Science



NASA Dragonfly mission to Titan



NASA Juno mission to Jupiter



NASA Psyche mission to asteroid Psyche



NASA OSIRIS-REx asteroid sample return

Flagship

Directed | Broad Science | Community Instruments

NASA Europa Clipper



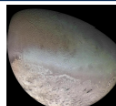
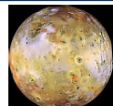
NASA Mars 2020 Rover



LSST Large Synoptic Survey Telescope NSF

Competed Grants

- Awards are based on the **scientific merit** and **breadth of impact** of proposed research.
- NASA, NSF, and DOE fund **students and researchers in all fifty states** across the **academic, industry, government, and nonprofit sectors.**
- Current selection rates for Planetary Science Division (PSD) R&A Programs are ~20%. **In order to increase grant selection rates to a sustainable 33% requires an additional \$200 million to NASA's PSD budget for Planetary R&A.**



Left: Missions to **Io** (left), **Triton** (right), and **Venus** (center) have been chosen for further study by NASA's Discovery competed mission program

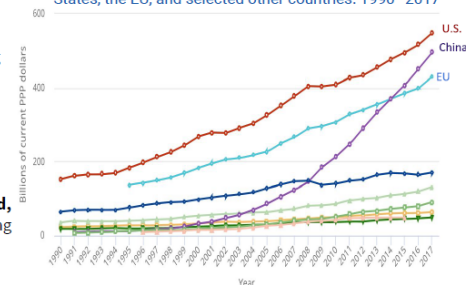


Robust Investments Needed for Scientific Research

Curiosity-driven research is vital to innovation and economic growth in the U.S. . Other countries are accelerating their investments in Research and Development (R&D) activities; China is surpassing the U.S. investment this year. The U.S. has maintained a generally flat R&D expenditure relative to our GDP (3%) over the last three decades.

To ensure that the U.S. remains a global leader in innovation, **we ask that Congress fund sustained, robust growth for the science agencies**, including the NASA Science Mission Directorate (SMD), NSF, and the DOE Office of Science (SC).

Gross domestic expenditures on R&D, by the United States, the EU, and selected other countries: 1990–2017



2020 NSB Science & Engineering Indicators

2021 Appropriations Request

The FY21 funding AAS requests will allow NASA, NSF, and DOE to support a **balanced, coordinated, and world-leading planetary sciences program** that advances **top community priorities.**

Account	FY19 Actual	FY20 Actual	FY21		
			PBR	House	AAS Ask
NASA	\$21.5	\$22.6	\$25.2	\$22.6	\$26.5
SMD	\$6.9	\$7.1	\$6.3	\$7.1	\$7.5
- PSD	\$2.8	\$2.7	\$2.7	\$2.7	\$2.9
NSF	\$8.1	\$8.3	\$7.7	\$8.6	\$9.0
DOE (SC)	\$6.6	\$7.0	\$5.8	\$7.1	\$7.4

All values are given in billions of USD.



Above: Planetary scientists open an untouched sample from the Apollo mission at Johnson Space Center (NASA/James Blair)

- Supports an appropriation that enables an FY24 **Europa Clipper** launch without delay, completion of **James Webb Space Telescope**, and continues to support **Planetary Defense Coordination Office** activities, including **Arecibo Observatory**
- Seeks an **historic increase for NSF** to jumpstart the U.S. scientific enterprise and long-term economic security, enabling investments like **mid-scale instrumentation**
- Advocates for strong **Research & Analysis** grant funding (>\$350 million) and following the balanced **cadence of Small and Mid-scale missions** called for in the Planetary Sciences Decadal Survey



Federal Budget Status

- <https://www.aip.org/fyi/federal-science-budget-tracker>
- Senate Appropriations is in work now
- Likely a continuing resolution from FY20 until after elections

FY21 NASA Science Appropriations, Detailed Table (\$ millions, COVID-19 response and recovery funds excluded)										
Account	FY19 Operating Plan	FY20 Enacted	FY21 Request	Change 20-21	House	Change 20-21	Senate	Change 20-21	Final	Change 20-21
Science Mission Directorate	6,887	7,139	6,307	-12%	7,098	-1%				
Planetary Science	2,747	2,713	2,660	-2%	2,713	0%				
Europa Clipper	545	593	404	-32%	404	-32%				
Mars Rover 2020	503	319	162	-49%	162	-49%				
Lunar Discovery and Exploration	188	**300	452	51%	410	37%				
Double Asteroid Redirection Test	98	72	66	-8%	**66	-8%				
Near Earth Object Observations	52	-	84	-	-	-				



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Professional Development Subcommittee's Report

Candace Gray

Candace Gray, Chair

2020 subcommittee: Candace Gray, Kelsi
Singer, Mark Gurwell, Maitrayee Bose, Audrey
Martin, Maggie McAdams, Jennifer Hanley, Tom
Nordheim, and Maya Yanez



Succession Planning

- Longest serving members: Kelsi S.
- Moving to senior + vice + junior co-chair + model
 - Senior co-chair: Candace Gray (candaceg@nmsu.edu)
 - Vice co-chair: Maitrayee Bose
 - Junior co-chair: Maggie McAdams
- Members rolling off: Candace Gray but will stay on as Senior co-chair
- New members Tom Nordheim, Maitrayee Bose

Need new DPS Committee liaison, and social media subcommittee members from college/university



2 DPS20 Meeting Events

Sunday Oct 25 16:00 – 17:0 pm EDT = Student & Early Career Reception

- Zoom and Gathertown
- Lead: Maya Yanez
- Format: introduction on how to navigate virtual meeting (Zoom), planet tables for ice breaker questions (Gathertown), Sun table with senior scientists
- Sponsored by SwRI

Monday Oct 26 17:30-18:30 p.m. EDT = *Women in Planetary Science Discussion Hour*

- Zoom and Gathertown
- Lead: Kelsi Singer
- Topics: Will be determined based on participants suggestions
- Sponsored by AURA



3 DPS21 Proposed Events

AAS DPS Student / Postdoc Reception

- Appetizers & soft drinks;
- 157 registered in 2018 (2019 was EPSC/DPS)
- Lead: Maya Yanez and Maggie McAdams
- Same format as 2019 (“Sun” table for senior scientists to lead students/postdocs to opening reception).

Women in Planetary Science Lunch

- 150 registered, expect ~110 for 2021
- Lead: Kelsi Singer
- Topics: ?

Prof Dev. workshop

- Topic currently unknown
- Expect ~ 30 - 50 participants (estimating from previous years)
- Lead: currently unknown



2020 DPS Dependent Care Grants

Lead: Mark Gurwell

- 2 applicants, but one later rescinded request.
- Granted to \$250; total outlay \leq \$2800 (typical DPS Grants outlay in past was \$2000)
- 1 selection (1 man)
- 1 postdoc
- Request was for childcare for young children



2021 Subcommittee Requests

~\$3K = Prof. Dev. subcommittee budget

Dependent grants: \$2K from S. Niebur Fund

- Catering & A/V for student/postdoc reception and Women in Planetary Sci. lunch
- Tech support: blog, archive for past workshops