

LAD celebrates
10th year anniversary
in 2022

LAD has a new Logo!



LABORATORY ASTROPHYSICS DIVISION



Laboratory Astrophysics Division (LAD)

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MEMBERS ▾

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Laboratory Astrophysics Division (LAD)

Join LAD today!

The object of the Laboratory Astrophysics Division is to advance our understanding of the Universe through the promotion of fundamental theoretical and experimental research into the underlying processes that drive the cosmos.

Read more

News

Congratulations to our 2022 LAD Prize Recipients

The LAD Laboratory Astrophysics Prize goes to [Dr. Evelynne Roueff](#) in recognition of an outstanding career devoted to the theoretical investigation of the spectroscopic and collisional properties of molecules in astronomical environments.

The LAD Early Career Award goes to [Professor Kyle Crabtree](#) recognition of his use of high-resolution spectroscopy to study reactive molecules of astrophysical interest.

The LAD Dissertation Prize goes to [Dr. Steve Bromley](#) for groundbreaking laboratory measurements on the spectra of Au I and Au II generated critical data for our understanding of heavy metal formation in neutron star mergers.

Send questions, comments or updates regarding this web site to: ladwebmaster@aas.org

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Advance our understanding of the cosmos through
promotion of fundamental theoretical & experimental
research into underlying physics driving the cosmos.

LAD Business Meeting Agenda

June 13, 2022



- I. Chair's Report**
- II. Treasurer's Report**
- III. By Laws Discussion**
- IV. Open Mic**
- V. Adjourn**

Chair's Report Agenda

- I. Leadership**
- II. 2022 LAD Elections
- III. Annual Metrics
- IV. Past Year Highlights
- V. 2023 Honors Nominations
- VI. The Future



LAD Executive Committee June 2022

Chair Murthy Gudipati (2021-2023)
Vice Chair Stefanie Milam (2021-2023)
Past Chair Phillip Stancil (2021-2023)
Treasurer Christiaan Boersma (2019-2025)
Secretary Rachel Smith (2019-2025)



Christiaan
Boersma



Edith
Fayolle



Carla
Fröhlich



Murthy
Gudipati



Michael
Hahn



Joan
Marler

Members-at-Large:

2019-2022 (outgoing)

Michael Hahn (plasmas)
Silvia Protopapa (planetary)

2020-2023

Carla Fröhlich (nuclear)
Edith Fayolle (dust/ice)
Joan Marler (atoms)

2021-2024

Brett McGuire (molecules)
Dawn Williams (particles)

2022-2025 (incoming)

Ami DuBois (plasma)
Carrie Anderson (planetary)



Brett
McGuire



Stefanie
Milam



Silvia
Protopapa



Rachel
Smith



Phillip
Stancil



Dawn
Williams



LAD 2022 election results are out



Outgoing LAD Executive Committee Members

Thank you



**Silvia Protopapa (Planetary)
and Michael Hahn (Plasma)**
for your excellent service to the
as the LAD Members-at-Large
2019-2022

Michael Hahn Certificate of Commendation



Silvia Protopapa Certificate of Commendation

THE
Laboratory Astrophysics Division
of the
American Astronomical Society

Presents this
Certificate of Commendation


to

Silvia Protopapa

*For her services rendered to the Division
as Member-at-Large during the period 2019-2022.*

Presented 13 June 2022




Murthy S. Gudipati
Chair



Chair's Agenda

- I. Leadership
- II. **2022 LAD Elections**
- III. Annual Metrics
- IV. Past Year Highlights
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Election Nominating Committee

- **Will Grundy (NAU & Lowell Observatory), Chair**
- **Paul Bellan (Caltech)**
- **Caitlin Ahrens (NASA GSFC)**



Election Results

Member-at-Large (Plasma, 2022-2025):

***Ami DuBois (Naval Research Laboratory)**

Jim Schroeder (Wheaton College)

Mario Manuel (General Atomics)



Member-at-Large (Planetary, 2022-2025):

***Carrie Anderson (NASA GSFC)**

Jennifer Hanley (Lowell Observatory)



(*Elected)

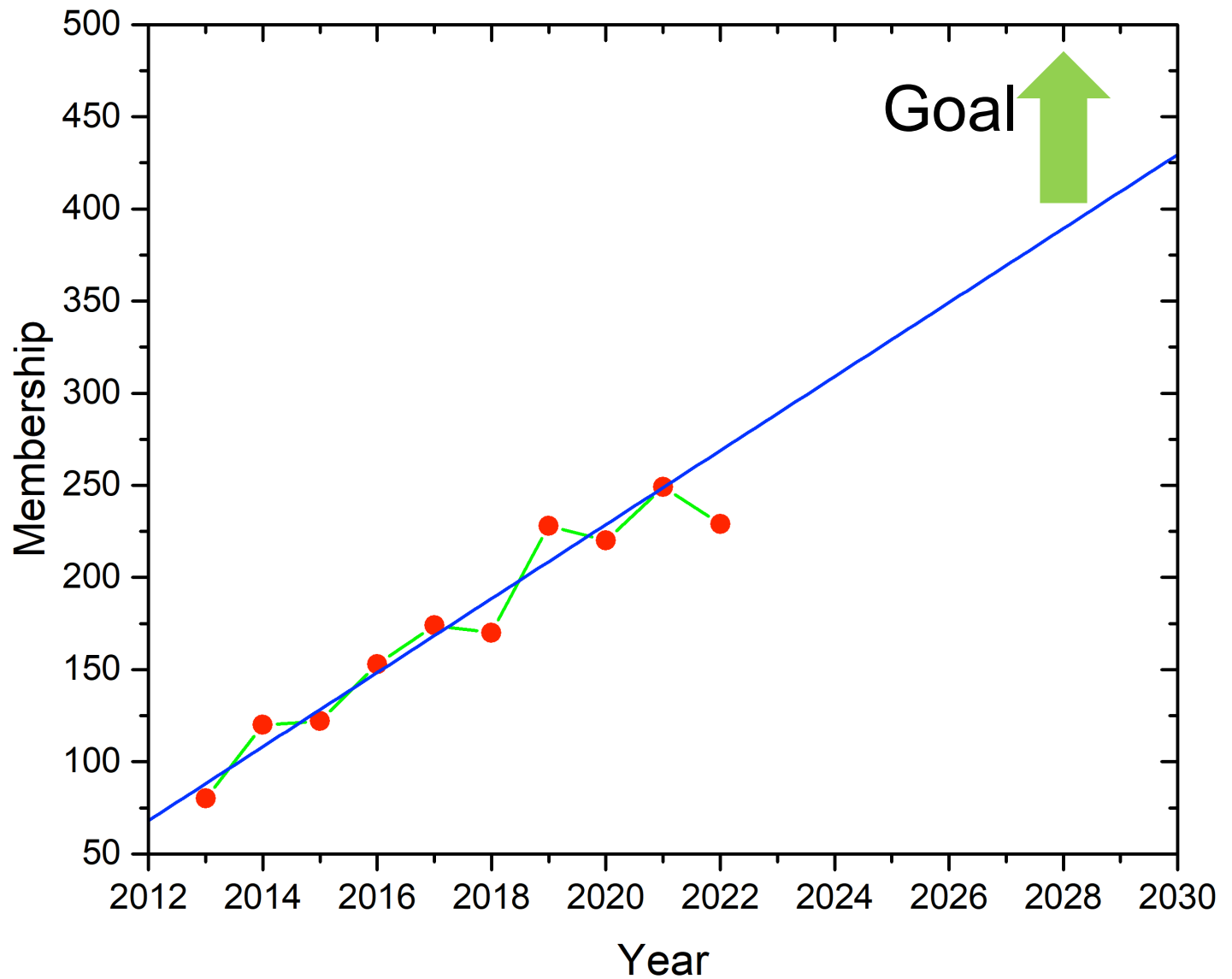


Agenda

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Annual Metrics



Annual Metrics

Membership (as of June 8, 2021)

- 229 members in all categories.
- Increase of 4 since last year.
- 73 voted out of 215 voting members.
- 34% voted this year (43% 2021, 46% 2020, 29% 2019, 26% 2018, 31% 2017, 36% 2015, 40% 2014).



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Highlights of Past Year

Laboratory Astrophysics Prize Committee

Phillip Stancil (U. Georgia), Chair

Javier Garcia (Caltech)

Rob Garrod (University of Virginia)

Roberto Mancini (University of Nevada at Reno)

Joan Marler (Clemson University)

Matthew Richter (UC Davis)

Early Career Award Committee

Phillip Stancil (U. Georgia), Chair

Javier Garcia (Caltech)

Rob Garrod (University of Virginia)

Roberto Mancini (University of Nevada at Reno)

Joan Marler (Clemson University)

Geoffrey Blake (Caltech)



Highlights of Past Year

Dissertation Prize Committee

Murthy Gudipati (JPL), chair

Geoffrey Blake (Caltech)

Matthew Richter (UC Davis)

Roberto Mancini (University of Nevada at Reno)

Javier Garcia (Caltech)



Highlights of Past Year

LAD Honors - 2022

Laboratory Astrophysics Prize (2022)

- Evelyne Roueff (Observatoire de Paris)
- Prize lecture at 2022-AAS/LAD Hybrid Meeting (Tuesday 6/14/22, 10:00 am - 10:45 am)

Early Career Award (2022)

- Kyle Crabtree (UC Davis)
- Prize lecture at 2022-AAS/LAD Hybrid Meeting (Tuesday 6/16/22, 10:00 am - 10:30 am)

Dissertation Prize (2022)

- Steve Bromley (Auburn University)
- Prize lecture at 2022-AAS/LAD Hybrid Meeting (Tuesday 6/13/22, 10:00 am - 10:30 am)



LAD Community Services

- **Unified Astronomy Thesaurus (UAT)**

LAD worked together with the curators of the Unified Astronomy Thesaurus (UAT) to solicit and synthesize community feedback in order to update and expand the list of Labastro-related keywords in the UAT. The UAT is used to assign keywords to journal articles in the Astrophysical Journals, among others. A first update was made for summer 2022, with future revisions planned as well. **Lead: Brett McGuire (MaL Molecules)**

- **Planetary science and astrobiology decadal survey (2022-2032)**

Many recommendations by LAD have been included into the planetary sciences and astrobiology decadal. **Lead: Edith Fayolle (MaL dust/ice)**

- **Response to NASA RFI regarding SPD-41 (modifications will be announced in 2023):**

LAD responded to the NASA RFI for SPD-41 with the feedback from LAD community. NASA is modifying their Scientific Information Policy (SPD-41) on how and when data and information resulting from NASA research grants and missions should be made public.

Lead: Edith Fayolle (MaL dust/ice)

- **Proposed Congressional Budget (cuts) to NIST calibration and database work:**

LAD Chair along with the signatures of LAD community members has send a letter to the congress to continue funding NIST calibration and database work. The NIST databases are the world's "gold standard" for atomic & molecular data, used by academics and industry. The NIST time and frequency standards are used throughout astronomy and there is no obvious replacement. **Lead: Phillip Stancil (AAS/LAD Past Chair)**



Highlights of Past Year

- Continued Monthly email blast of LAD-relevant papers in AAS journals (ended Dec. 2020)
- Continued monthly Executive Committee Zoom meetings (started by Rachel Smith)
- New LAD Logo inaugurated – Thanks to the Logo-Committee members working hard to finalize the futuristic LAD Logo!
- LAD Annual Report submitted to AAS (8/31/21) available on LAD website
- Improvements to LAD website by Joan Marler (MaL)
- LAD achieves, information, current events, etc.
- LAD continued its presence at the AAS Winter Virtual Meetings



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Call for 2023 Honors

Laboratory Astrophysics Prize

- For significant contribution over extended time.

Early Career Award

- For significant contribution early in career.
- No more than 10 years past Ph.D. or equivalent.

Dissertation Prize

- For outstanding doctoral dissertation (or the equivalent) in laboratory astrophysics.
- No more than 3 years past Ph.D. or equivalent.

Cash award, citation, & invited talk at LAD meeting.



www.lad.aas.org/call_for_nominations

2023 Honors

Nomination package for the Laboratory Astrophysics Prize and the Early Career Award (due 01 Jul 2022)

- **5-page narrative description** (including figures & bibliography)
- **CV**
- **Publication list**
- **Nomination letter**
- **One sentence proposed citation**
- **2 letters of support**
- **Self-nominations accepted**
- **Send to lad.secretary@nsl.gov by deadline**

**Recipient announced Jan 2023; awarded Jun 2023.
Nominees not selected, considered for next 2 yrs.**



2023 Honors

Nomination package for the Dissertation Prize (due 31 Dec 2022)

- **3-page summary of the thesis** (including figures & bibliography)
- **CV**
- **Publication list**
- **Nomination letter**
- **One sentence proposed citation**
- **2 letters of recommendation**
- **A statement from the nominee's university**
(Ph.D. or equivalent degree has been awarded)
- **Self-nominations accepted**
- **Send to lad.secretary@aas.org by deadline**

Recipient announced Feb 2023; awarded Jun 2023.
Nominees not selected, considered for next 2 yrs.



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The Future

2022 is the LAD 10-year anniversary

- LAD is still a Lad, but it needs to grow to be an adult!
- We need your support and active involvement.
- LAD wants to hear from you – how to better serve the astrophysics and planetary sciences community!

Membership

- LAD's goal is to reach 500 mark in 4-6 years from now.
- We have incentives for becoming a regular member of LAD (e.g., enabling collaborations, community services, early career mentoring, etc.)

Grow Treasury

- Raise funds to endow the prizes, travel funds, etc.
- Become a member and donate (tax deductible).

Strengthen connection with other AAS units

- DPS, HEAD, SPD – in progress



The Future

National and International Affiliates:

Reach out to IAU, EPSC, ACS - Astrochemistry, APS units etc.

LAD Newsletter

Does it help to put efforts in sending out a newsletter (last one was Feb. 2014) in addition to LAD Listserver?

Should we have a LAD poster prize?

If yes, how do we finance them? What would be the prize money? How many prizes? One or three?

Should we provide some student travel support?

If yes, how do we finance it? How many and how much per student? Undergrad and postgraduate students only or including PhD students?

Member involvement

- Committees (Nominating, Honors)
- LAD committee on ethics, DEI ??
- Suggestions and Feedback



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Laboratory Astrophysics Division

Financial Summary

Christiaan Boersma, ARC, LAD
Treasurer
Kelly Clark, AAS CFO



Financial Summary: CY2021

- CY2020 beginning balance: **\$33,950**

(\$)	Q1 2021	Q2 2021	Q3 2021*	Q4 2021
Revenues	1,010	2,690	3,020	4,623
Expenses	-	2,628	3,878	5,254
Net	1,010	61	859	631

- CY2021 balance: **\$33,319**

Item	(\$)
Individual Dues	3,898
Contributions	725
Mailing	83
Prize Awards	1,500
Prize Certificates	1,121
Logo	2,500
Transfer	50

Financial Summary: CY2022 (*incomplete*)

- CY2022 beginning balance: **\$33,391**

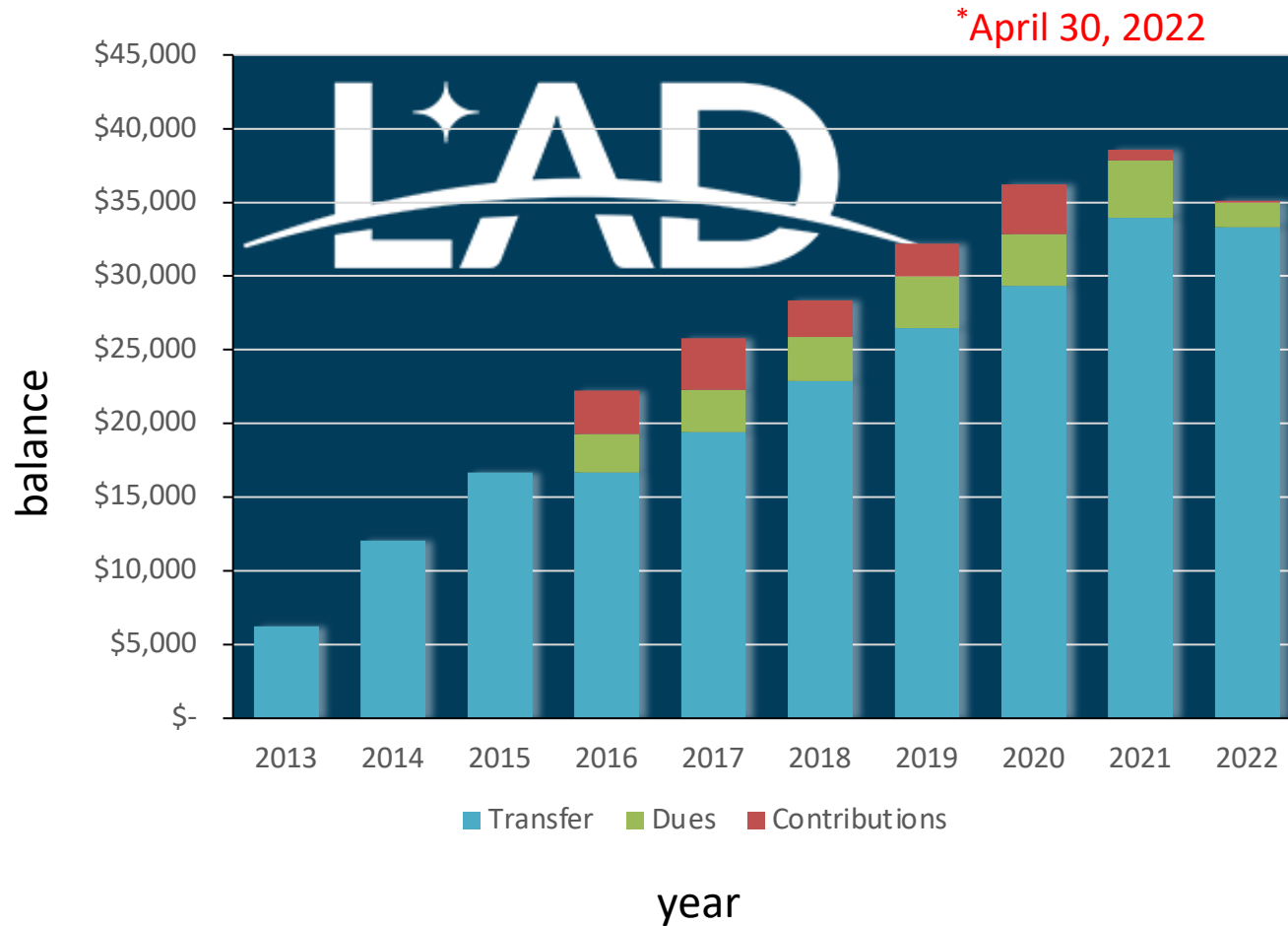
(\$)	Q1 2022*	Q2 2022	Q3 2022	Q4 2022
Revenues	1,167			
Expenses	712			
Net	455			

- CY2022 balance*: **\$33,774**

Item	(\$)
Individual Dues	1,057
Contributions	110
Pins	712
Mailing	-
Prize Awards	-
Prize Certificates	-

* April 31, 2022

Progression of Year-end Revenues and Contributions



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By Laws and Policies

- LAD Bylaws have been updated and ratified during AAS/LAD joint meeting, June 8, 2021.
- We are discussing how to extend eligibility for nominations for individuals, who had to take personal time off from their research career.
- Any thoughts or suggestions?

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