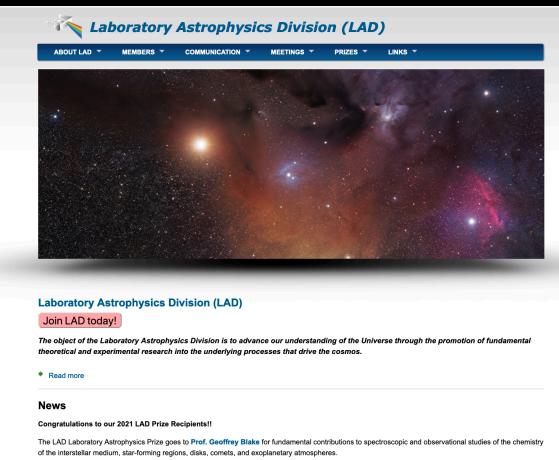
lad.aas.org



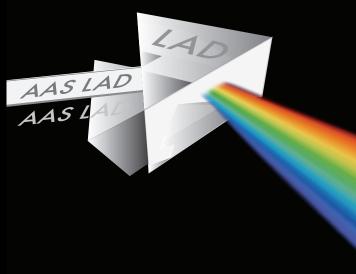
The LAD Early Career Award goes to Dr. Javier García for calculations of atomic data and implementation of relativistic reflection models to understand accreting black holes and neutron stars.

The LAD Diessertation Prize goes to Dr. Jennifer Bergner for the discovery of new, cold pathways to complex molecule formation and for creative, interdisciplinary explorations of the origins of organic molecules during planet formation.

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

LAD Business Meeting Agenda June 7, 2021

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



Chair's Report Agenda

I. Leadership

- **II. Election Results**
- **III. Annual Metrics**
- **IV. Past Year Highlights**
- V. 2022 Honors
- **VI.** The Future

LAD Exec. Committee Members

Chair: Phillip Stancil (2019-2021) Vice Chair: Murthy Gudipati (2019-2021) Past Chair: Randall Smith (2019-2021) Treasurer: Rachel Smith (2019-2022) Secretary: Christiaan Boersma (2019-2022)

Members-at-Large:

Joan Marler (atoms)



Thank you Randall Smith for your outstanding service as <u>Vice Chair, Chair, and Past</u> <u>Chair !!!,</u> 2015-2021



Thank you Mike McCarthy and Ken Nollett for your amazing service as LAD <u>Members-at-Large</u>!!! 2018-2021



American Astronomical Society

Laboratory Astrophysics Division

Presents this Certificate of Commendation

Randall K. Smith

For his leadership of the LAD Committee and services rendered to the Division during the period 2015-2021.

Presented 7 June 2021

CAR

Phillip C. Stan Chair

American Astronomical Society

Laboratory Astrophysics Division

Presents this Certificate of Commendation

Michael C. McCarthy

to

For his leadership of the LAD Committee and services rendered to the Division during the period 2018-2021.

Presented 7 June 2021

Phillip C. Stanci Chair

American Astronomical Society

Laboratory Astrophysics Division

Presents this Certificate of Commendation

Kenneth M. Nollett

to

For his leadership of the LAD Committee and services rendered to the Division during the period 2018-2021.

Presented 7 June 2021

hillip C. Stanci Chair

Chair's Agenda

- I. Leadership
- **II. Election Results**
- **III. Annual Metrics**
- **IV. Past Year Highlights**
- V. 2022 Honors
- VI. The Future

Election Nominating Committee

- Tim Lee (NASA Ames), Chair
- John Beacom (Ohio State)
- Edith Fayolle (JPL)

Election Results

Vice Chair (2021-2023): *Stefanie Milam (NASA GSFC) Ken Nollett (San Diego State)

Member-at-Large (High energy particles, 2021-2024): *Dawn Williams (U. of Alabama) James Matthews (LSU)

Member-at-Large (Molecules, 2021-2024): *Brett McGuire (MIT) James Babb (Center for Astrophysics)





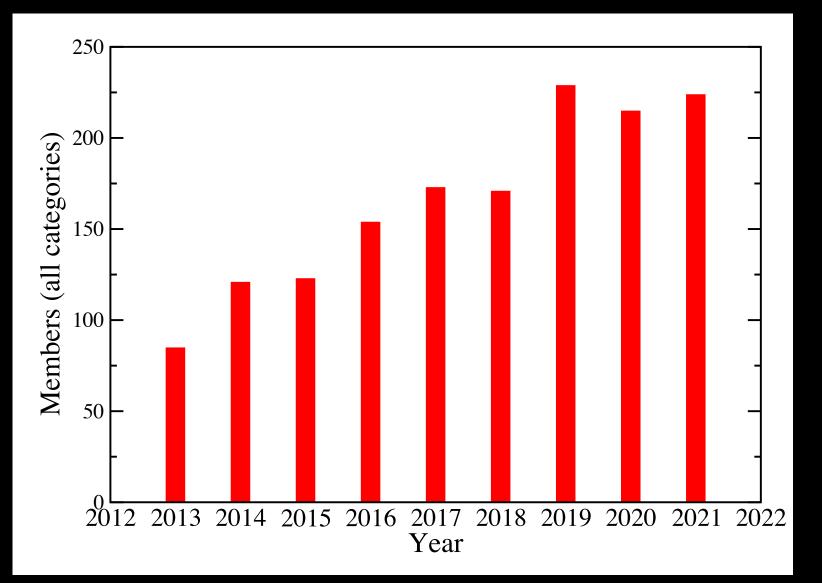


(*Elected)

Agenda

- I. Leadership
- II. Election Results
- **III. Annual Metrics**
- **IV. Past Year Highlights**
- V. 2022 Honors
- VI. The Future

Annual Metrics



Annual Metrics

Membership (as of 4 June 2021)

- 224 members in all categories.
- Increase of 9 since last year.
- 91 voted out of 213 voting members.
- 43% voted this year (15-20% typical for AAS) (46% 2020, 29% 2019, 26% 2018, 31% 2017, 36% 2015, 40% 2014).

LAD listserv

- 824 subscribers (731 in 2020).
- 112 are non-AAS-members (affiliates)

Agenda

- I. Leadership
- II. Election Results
- **III. Annual Metrics**
- **IV. Past Year Highlights**
- V. 2022 Honors
- VI. The Future

Highlights of Past Year

Laboratory Astrophysics Prize Committee

Phillip Stancil (U. Georgia), Chair Carla Fröhlich (NCSU) Sarah Hörst (Johns Hopkins) Mike Montgomery (UT Austin)

Early Career Award Committee

Randall Smith (CfA), Chair Carla Fröhlich (NCSU) Sarah Hörst (Johns Hopkins) Mike Montgomery (UT Austin) Phillip Stancil (U. Georgia)

Highlights of Past Year

Dissertation Prize Committee

Randall Smith (CfA), chair Carla Fröhlich (NCSU) Mike McCarthy (CfA) Silvia Protopapa (SWRI) Ella Sciamma-O'Brien (NASA Ames)

Highlights of Past Year LAD Honors

Laboratory Astrophysics Prize (2021)

- Geoffrey Blake (CalTech)
- Prize lecture at 2021 LAD VM (Tues. 4:10pm)

Early Career Award (2021)

- Javier García (CalTech)
- Prize lecture at 2021 LAD VM (Wed. 4:10pm).

Dissertation Prize (2021)

- Jennifer Bergner (U. Chicago)
- Prize lecture at 2021 LAD VM (Tues. 4:55pm).

Highlights of Past Year

Continued Monthly email blast of LAD-relevant papers in AAS journals (ended Dec. 2020)

LAD MAL Edith Fayolle led whitepaper effort for Planetary Science and Astrobiology Decade Survey (many current/past LAD officers were co-authors)

Continued monthly Executive Committee Zoom meetings (started by Rachel Smith)

A A PUBLISHING

This is a compilation of laboratory-astrophysics-related papers published in October in the AAS journals (the *Astrophysical Journal, ApJ Letters, ApJ Supplement Series, Astronomical Journal,* and *Research Notes of the AAS*). If your article was left off the list, please **let us know** so we can include it in next month's mailing.

[External Sender]

Polarized Line Formation in Arbitrary Strength Magnetic Fields: The Case of a Two-Level Atom with Hyperfine Structure Splitting

M. Sampoorna, K. N. Nagendra, K. Sowmya, J. O. Stenflo, and L. S. Anusha

Non-Maxwellian Velocity Distribution Functions for Coulombic Systems out of Equilibrium Brent M. Randol

Fast-to-Alfvén Mode Conversion and Ambipolar Heating in Structured Media. I. Simplified Cold Plasma Model Paul S. Cally and Elena Khomenko

Ion and Electron Dynamics in the Presence of Mirror, Electromagnetic Ion Cyclotron, and Whistler Waves

Jinsong Zhao, Tieyan Wang, Chen Shi, Daniel B. Graham, Malcolm W. Dunlop, Jiansen He, Bruce T. Tsurutani, and Dejin Wu

The Calculated Infrared Spectra of Functionalized Hexamethylenetetramine (HMT) Molecules Partha P. Bera, Scott A. Sandford, Timothy J. Lee, and Michel Nuevo

The Astrochemical Impact of Cosmic Rays in Protoclusters. II. CI-to-H₂ and COto-H₂ Conversion Factors Brandt A. L. Gaches, Stella S. R. Offner, and Thomas G. Bisbas

Turbulence versus Fire-Hose Instabilities: 3D Hybrid Expanding Box

Highlights of Past Year

LAD Annual Report submitted to AAS (8/30/20) available on our website

Improvements to LAD website by Joan Marler

- Leadership team descriptions
- List/links for virtual seminars

LAD held two invited sessions at the Winter 2021 Virtual Meeting

- New Explorations of the Moon
- New Understanding of Primitive Bodies: Comets and Kuiper Belt Objects
 and iPoster-Plus sessions

Chair's Agenda

- I. Leadership
- **II. Election Results**
- **III. Annual Metrics**
- **IV. Past Year Highlights**

V. 2022 Honors

VI. The Future

2022 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. lad.aas.org/call_for_nominations

2022 Honors

Nomination package for the Laboratory Astrophysics Prize and the Early Career Award (due 01 Jul 2021)

- 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 <u>lad.secretary@aas.org</u> by deadline

Recipient announced Jan 2022; awarded Jun 2022. Nominees not selected, considered for next 2 yrs.

2022 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 <u>lad.secretary@aas.org</u> by deadline

Recipient announced Feb 2022; awarded Jun 2022.

Nominees not selected, considered for next 2 yrs.

Chair's Agenda

- I. Leadership
- **II. Election Results**
- **III. Annual Metrics**
- **IV. Past Year Highlights**
- V. 2022 Honors
- **VI.** The Future

The Future

2022 is the LAD 10-year anniversary

- Plan special summer meeting (Pasadena)
- Reception
- Redesign logo (in discussion)

Membership

- Continue campaign to grow division
- Gifts for bringing in new members (LAD pins)
- Plan reception for Winter meeting (Salt Lake)?

Grow treasury

Raise funds to endow the prizes

Strengthen connection with other AAS units

DPS, HEAD, SPD – in progress

The Future

Reach out to relevant IAU, ACS, APS units

LAD Newsletter Start modest – last one was Feb. 2014

Should we have a LAD poster prize?

Should we provide some student travel support?

Member involvement

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