

# Global Agenda

- I. Chair's Report**
- II. Treasurer's Report**
- III. NASA LAW Report**



## ***Laboratory Astrophysics Division (LAD)***

ABOUT LAD ▼

GOVERNANCE ▼

MEMBERS ▼

COMMUNICATION ▼

MEETINGS ▼

PRIZES ▼

LINKS ▼

**lad.aas.org**



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

# 2012 – LAD founded. AAS Kavli prize lecture and first LAD plenary speaker is given by Ewine van Dishoeck

MONDAY SESSIONS AND EVENTS

## MONDAY, 11 JUNE 2012

### Invited Session 100 Welcome Address by UAA Chancellor Tom Case

#### AAS Welcomes New Division

Monday, 8:00 am - 8:30 AM, Ballroom B, Dena'ina Center

During the welcome remarks just prior to the Kavli Lecture, the AAS will welcome its newest specialist division, Laboratory Astrophysics Division, as a formal part of the Society. President Debra Elmegreen will present a certificate commemorating this historic occasion to members of the Working Group who helped motivate the formation of the division.

**100.00C Chair**  
**Debra M. Elmegreen<sup>1</sup>**  
<sup>1</sup>*Vassar College.*

### Invited Session 101 Kavli Prize: Laboratory Astrophysics as Key to Understanding the Universe

Monday, 8:30 am - 9:20 am, Ballroom B, Dena'ina Center



#### About The Kavli Foundation

The Kavli Foundation is dedicated to advancing science for the benefit of humanity, promoting public understanding of scientific research, and supporting scientists and their work. The Foundation's mission is implemented through an international program of research institutes in the fields of astrophysics, nanoscience, neuroscience and theoretical physics, and through the support of conferences, symposia, endowed professorships and other activities. The Foundation is also a founding partner of the biennial Kavli Prizes, which recognize scientists for their seminal advances in three research areas: astrophysics, nanoscience and neuroscience. Based in Southern California, the Foundation was founded by its Chairman, philanthropist and entrepreneur Fred Kavli. Fred Kavli is the founder, former chairman and former chief executive officer of Kavlico Corp. He led the company to prominence to become one of the world's largest suppliers of sensors for aeronautics, automotive and industrial applications before he sold it in 2000 and established The Kavli Foundation.

**101.00C Chair**  
**Debra M. Elmegreen<sup>1</sup>**  
<sup>1</sup>*Vassar College.*



The Kavli Lecture Prize is awarded by the American Astronomical Society to Ewine F. van Dishoeck for her outstanding research in observational, laboratory, and theoretical astrochemistry, her unflagging efforts to raise awareness of the importance of astrochemistry in the astronomical, physical, and chemical communities, and her development of an outstanding department at the University of Leiden in the field of molecular astronomy.

**101.01 Laboratory Astrophysics as Key to Understanding  
the Universe**  
**Ewine F. van Dishoeck<sup>1</sup>**  
<sup>1</sup>*Sterrewacht Leiden, Netherlands.*

THE  KAVLI PRIZE

THE KAVLI PRIZE IN  
ASTROPHYSICS 2018

*The Norwegian Academy of Science and Letters has decided to award  
the Kavli Prize in Astrophysics for 2018 to*

EWINE VAN DISHOECK

*Leiden University,  
The Netherlands*

*“for her combined contributions to observational, theoretical, and laboratory astrochemistry, elucidating the life cycle of interstellar clouds and the formation of stars and planets.”*

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

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# LAD Committee Members

**Chair:** Randall Smith (2017-2019)  
**Vice Chair:** Phillip Stancil (2017-2019)  
**Past Chair:** Farid Salama (2017-2019)  
**Treasurer:** Roberto Macini (2016-2019)  
**Secretary:** Daniel Savin (2016-2019)

## **Members-at-Large:**

### **•2015-2018**

Jan Cami (molecules)  
Oswald Siegmund (particles)

### **• 2016-2019**

Crystal Brogan (dust)  
Stefanie Milam (planetary)  
John Raymond (plasmas)

### **•2017-2020**

Artymis Spyrou (nuclear)  
Ella Sciamma-O'Brien (ices)

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# **Election Nominating Committee**

**Carolyn Kuranz (U. Michigan), Chair**

**Jan Cami (U. Western Ontario)**

**Moshe Gai (U. Connecticut)**

## Election Results

**26% voting members cast ballots (39 of 150)  
(15-20% typical for AAS elections).**

**Members-at-Large (Nuclear/Particles, 2018-2021):**

**\*Kenneth M. Nollett (San Diego State U.)**

**Johan Frenje (MIT)**

**Members-at-Large (Molecules, 2018-2021):**

**\*Michael C. McCarthy (Harvard-Smithsonian)**

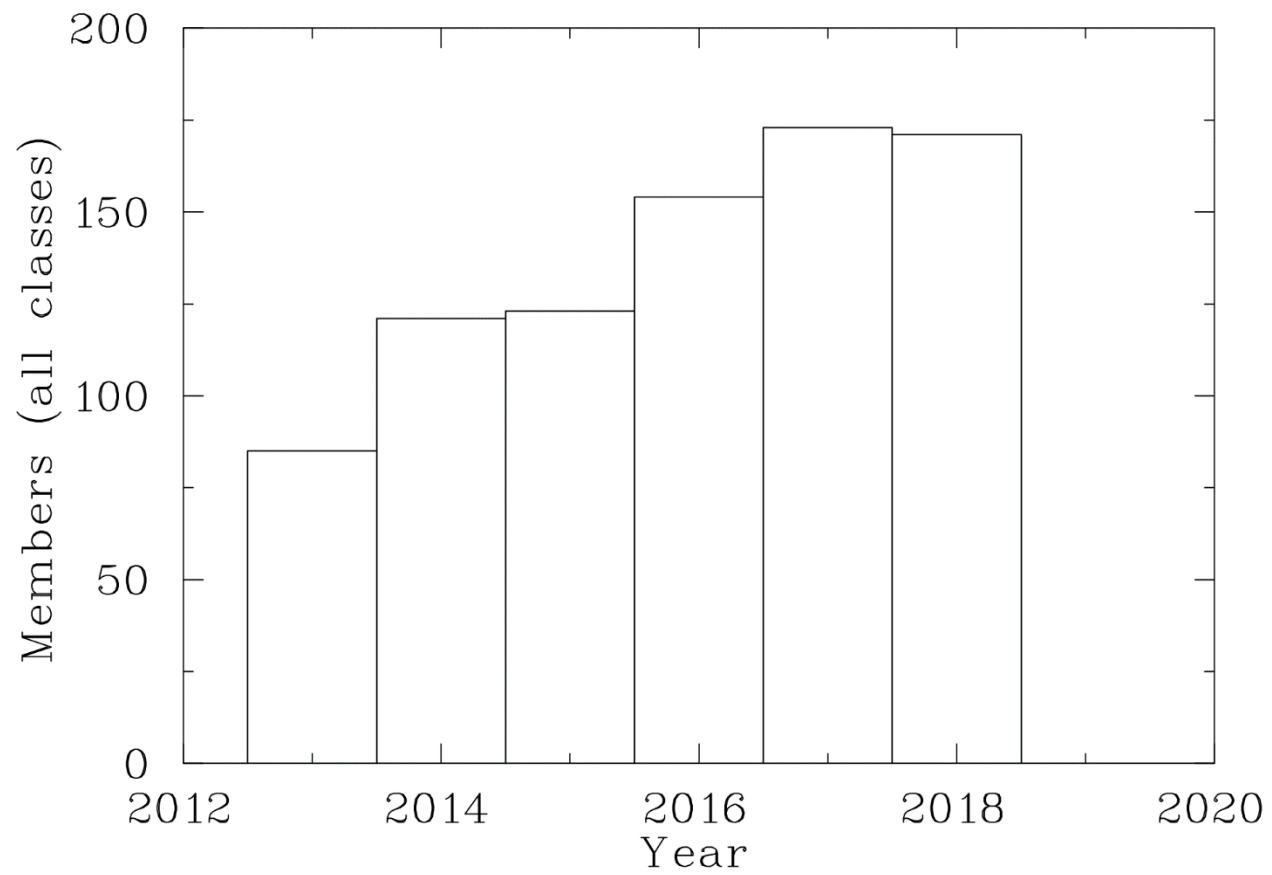
**Brett A. McGuire (Nat'l Radio Astronomy Observatory)**

**(\*Elected)**

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# Annual Metrics



# Annual Metrics

## Membership (as of 30 May 2017)

- 171 members in all categories.
- Decrease of 2 since last year.
- 39 voted out of 150 voting members.
- 26% voted this year  
(26% 2018, 31% 2017, 36% 2015, 40% 2014).

## LAD listserv

- 559 subscribers.
- Growth of 35 since last year.

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# Highlights of Past Year

## Lab Astro Prize & Early Career Award Committee

**Farid Salama (NASA ARC), Chair**

**Eric Blackman (U. Rochester)**

**Jeff Blackmon (LSU)**

**James Lawler (U. Wisconsin)**

**Phillip Stancil (U. Georgia), ex officio**

## Dissertation Prize Committee

**Farid Salama (NASA ARC), Chair**

**Eric Blackman (U. Rochester)**

**James Lawler (U. Wisconsin)**

**Randall Smith (SAO), ex officio**

# Highlights of Past Year

## Prizes and Awards

### Laboratory Astrophysics Prize (2018)

- Michael Wiescher (U. Notre Dame)
- Prize lecture at 2018 LAD meeting.

### Early Career Award (2018)

- No awardee.
- Insufficient number of nominees!

### Dissertation Prize (2018)

- Clayton Myers (Princeton U./Sandia Nat'l Lab).
- Prize lecture at 2018 LAD meeting.



# Highlights of Past Year

## LAD special session at AAS winter meeting

- Water, water, everywhere (~60 attendees)



# Highlights of Past Year

## Lab astro at other AAS division meetings

- DPS – Talks embedded in regular sessions.
- HEAD – Special session (Smith).
- SPD – Talks embedded in regular sessions.

**LAD was presented at various meetings and workshops during the year (LAW, DAMOP, others)**

## Kavli Prize

Ewine van Dishoeck awarded 2018 Prize for astrophysics. She is the President-elect of the IAU. And she was the first LAD plenary speaker in 2012.

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# 2018 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.

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

**[lad.aas.org/call\\_for\\_nominations](http://lad.aas.org/call_for_nominations)**

# 2018 Honors

## Nomination package for the Laboratory Astrophysics Prize and the Early Career Award (due 01 Jul 2018)

- **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 [ladsec@aaas.org](mailto:ladsec@aaas.org) by deadline**

**Recipient announced Jan 2018; awarded Jun 2018.**

**Nominees not selected considered for next 2 years.**

# 2018 Honors

## Nomination package for the Dissertation Prize (due 31 Dec 2018)

- 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)
- Send to [ladsec@aes.org](mailto:ladsec@aes.org) by deadline

**Recipient announced Feb 2018; awarded Jun 2018.**

**Nominees not selected considered for next 2 years.**

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# The Future

## Membership

- 4<sup>th</sup> of five year campaign to grow division.
- Gift for bringing in new members.

## Grow treasury

- Fund raise for prizes.

## Strengthen connection with other AAS units

- DPS, HEAD, SPD.

## Reach out to relevant IAU, ACS, APS units



# The Future

## **Member involvement**

- Committees (Nominating, Honors).
- Suggestions and Feedback.

## **Lab Astro session at IAU General Assembly 2018**

- Organized by Farid Salama.

## **Lab Astro session at HEAD meeting 2019**

- Organized by Randall Smith.

## **Lab Astro IAU symposium in 2019**

- Organized by Farid Salama.