



# Cleveland Astronomical Society

www.clevelandastronomicalsociety.org

Board Members	September 2019 Newsletter	2019-20 Speakers
<p><u>President</u> Len Muni</p> <p><u>Vice President</u> Jay Reynolds</p> <p><u>Secretary</u> Matt Young</p> <p><u>Treasurer</u> Suzie Dills</p> <p><u>Program Chair</u> Jeanne Bishop</p> <p><u>Program Committee</u> Jim Comiensi Joe DeRocher Gary Kader</p> <p><u>Webmaster/ Historian</u> Gary Bergstrom</p> <p><u>Past President</u> Bob Sledz</p> <p><u>Board Members</u> Tom Benson Pearl Debreczeni Joanne Denko Joe Hamlin John Kirszenberg Geoffrey Landis Nora Mishey Rick Rickards Jane Riedel Ingrid Sledz Rick Zappala</p>	<p>September 5, 2019 Meeting</p> <p>Dear Members and Friends of CAS,</p> <p>Welcome to the 98<sup>th</sup> Year of the Cleveland Astronomical Society Lecture Series.</p> <p><b>Our Programs:</b> Cleveland Astronomical Society programs are free and open to the public.</p> <p>Meetings are held the first Thursday of the month from September to May. We meet at the Leonard Krieger CanalWay Center in the Cleveland Metroparks Ohio &amp; Erie Canal Reservation. We have the facility from 6 to 9 p.m. with the following timetable:</p> <ul style="list-style-type: none"> <li>• Our meeting starts at 7:00 p.m.</li> <li>• Followed by the speaker and Q&amp;A session</li> <li>• No reservations are needed and light refreshments will be served prior to the meeting—cookies, coffee, tea</li> </ul> <p>Our program committee is headed by Dr. Jeanne Bishop. They have put together an exciting lineup of speakers for this year.</p> <p><b>Here are the details of our September program:</b> Sept. 5, 2019 Professor Sultana N. Nahar The Ohio State University Professor Nahar will share findings of “The Iron Project: Discovering our Sun through its Iron Abundance.”</p> <p><b>Membership</b> You are encouraged to become a member of the Cleveland Astronomical Society. Membership dues are used to continue the work of the CAS. The work of the CAS cannot continue without a strong membership base. In addition, donations are always welcome. All donations and dues are tax deductible. Please consider becoming a CAS member. Attached is the membership registration form which you may mail or bring to any meeting.</p>	<p><b>September</b> “How Iron is Helping Us Understand the Sun and Black Holes” <b>Prof. Sultana N. Nahar</b></p> <p><u>October</u> “The Thermodynamics of the Big Bang” Dr. Ed. Meyer and Dr. Nate Bianco</p> <p><u>November</u> “A Planetary Defense Primer” Rob Landis</p> <p><u>December</u> “The Moon Rocks of 50 Years Ago” Doug Fowler</p> <p><u>January</u> “Interesting Details of the Apollo Lunar Program” Panel of CAS speakers</p> <p><u>February</u> “The Violent Lives of Cluster Galaxies” Dr. Chris Mihos</p>

**Outreach Program**

Our Teacher, Student, Friend & Family Outreach Program will continue again. We feel this is a very worthwhile academic/social evening out for interested friends, family, teachers and students. We encourage everyone to invite family, friends, and neighbors to a meeting. Teachers are encouraged to invite interested students.

**Our Affiliated Programs**

The CAS works in cooperation with, the Burrell Memorial Observatory Open House program series at Baldwin Wallace University. Gary Kader is the director of that program, as well as the Burrell Observatory and is one of our C.A.S. board members. All of these programs will take place on the Main Stage Theater in the Kleist Center for Art and Drama. These open house programs are free but these are ticketed events. Tickets are free and can be obtained on line at [www.bw.edu/tickets](http://www.bw.edu/tickets) , in person at the Kleist Center box office Monday-Friday, 12:00-5:00, or by phone at (440) 826-2240.

C.A.S. is also a co-sponsor of the Cleveland Museum of Natural History's Frontiers of Astronomy Lecture series. This is a free and open to the public lecture series which is held at the museum in the Murch Auditorium. On clear evenings, the Museum's Ralph Mueller Observatory is open afterwards.

**Adjunct Instructor needed at BW**

BW is looking for an adjunct instructor to teach an intro astronomy course on Wednesday nights (6:16pm to 8:45pm). Basic requirement is an advanced degree in a physical science. Contact Gary Kader at [gkader@bw.edu](mailto:gkader@bw.edu) if interested.

In addition to our speakers, you can count on the latest updates on the world of astronomy, as well updates on other local astronomy organizations and their programs.

Thank you for all your help and support over the years. Hope you can attend our September 5, program!

Sincerely,  
Len Muni  
President

March  
"Star Formation  
and Star  
Clusters: Where  
are Most Stars  
Born?"  
Dr. Don  
Terndrup

April  
"The Physics of  
Neutron Stars"  
Dr. Veronica  
Dexheimer

May  
"Titan's Visible  
Surface  
Features: only  
500 Million  
Years"  
Dr. Chuck Wood

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ANNUAL MEMBERSHIP AND SUPPORTING SPONSORSHIP

Return the form with your tax deductible dues made out to Cleveland Astronomical Society, c/o Suzie Dills, 32331 Lake Road, Avon Lake, OH 44012.

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PHONE \_\_\_\_\_ E-MAIL \_\_\_\_\_ NEWSLETTER REQUEST:  e-mail  mail  both

GENERAL MEMBERSHIP:

Family: \$35  Individual: \$25  Student: \$10

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SUPPORTING SPONSORSHIP:

Individuals:

Gold: \$100  Silver: \$75  Bronze: \$50  other

CORPORATE SPONSORSHIP:

\$500  \$250  \$100  other

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All donations are tax deductible with 501(c)(3) designations.