



## President's Message

Thank you for your active participation during 2018! Whether you are an elected leader or a behind-the-scenes worker, your contributions to the Section(s) and Academy are significant and appreciated. Your input helps create learning and teaching opportunities at section meetings, workshops, field trips, and the Academy's Spring Lecture and Fall Scientific Paper Session. These occasions fulfill our quest for knowledge, allow us to share our interests, and make friends. Your zest for teaching the public and engaging them in scientific activities is also noteworthy. This includes taking part in community events at Mendon Ponds Park, Science Exploration Days, the state science teachers' conference, Strassenburgh Planetarium telescope observations, RMSC Science Days, quarry open houses, and public star parties.

Best wishes for an active and happy 2019!

Jutta Siefert Dudley,  
President RAS

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## RAS Board of Directors Nominations Wanted

Each year the Academy elects Board officers and directors at the spring Annual Meeting to oversee

operations of the Academy. We are looking for members who will participate in the monthly meetings and help guide Section and Academy activities.

Each year, all officer positions are up for election, plus two directorships. The Nominations Committee of Alex Smith, Tim Tatakis, and Chris Collins, is charged with filling the slate with candidates and presenting the list at the RAS BOD meeting January 16, 2019.

Most of the current positions will have incumbent candidates running again. These will be listed in a future Bulletin. If you have not been selected by the Nominations Committee and would like to be a candidate on the ballot, you may send a request signed by ten members and a brief sketch of your qualifications to Secretary Helen Haller by February 1.

Currently, an uncontested position is Membership Chair. Here's what this person does: 1) Provides information about the Academy at public events in which we participate as hosts or guests. 2) Develops strategies to find and keep members. 3) Helps the Treasurer maintain an updated membership list. 4) Participates in Academy events and attends BOD meetings. 5) Serves for one year. Interested? Please contact

contact a nominations committee member before December ends so they can consider your request.

A ballot will be provided in the March RAS Bulletin, a month prior to the Annual Meeting, when ballots are tabulated and the results are announced.

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## PAPER SESSION SYNOPSIS

Despite threatening snow falls, we saw a good turnout of students, faculty, and academy members from across central and western NYS for our Scientific Paper Session on November 10 at SUNY Geneseo. The 113 poster presentations and 45 oral reports kept attendees engaged discussing the research shared. Productive interaction is the goal of the event and we can be proud we are continuing a program envisioned many years ago by its founders, professors Melvin Wentland and Larry King!

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Dr. Denise Battles gave students an inspirational peek into her journey through STEM, culminating with her Presidency at the college. Afterward, Dr. Richard Young presented the Larry King Memorial Lecture. He described how geologists make inferences about geological events and brought us up to date regarding a newly inferred glacial advance in western NYS.

We are indebted to our hosts at Geneseo College and extend special thanks to organizers Dr. Kazushige Yokoyama, Patty Hamilton-Rogers, Anne Baldwin, and Suzanna Rubright.

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**The Pleiades**, also known as ‘The Seven Sisters’, Messier Object 45, or in Japanese ‘Subaru’, is an open cluster located in the constellation of Taurus. The cluster is mostly dominated by hot blue and bright luminous stars that have formed within the last 100 million years and will survive for another 250 million years, after which it will disperse due to gravitational interactions with its galactic neighborhood. The faint reflection nebulosities around the brightest stars are due to unrelated dust in the interstellar medium.

Photo Credits: Siam Crown Observatory- Mike Selby, **Andy Chatman (ASRAS)** and Stefan Schmidt, at Samphran, Thailand over three nights in early November using a wide field array of 4x 300mm f/3.0 telescopes. This image comprises 1,257 2-minute subexposures using L, R, G and B filters totaling almost 42 hours. Processed using PixInsight and Photoshop.

## 2019 Rochester Academy of Science, Inc.

### Membership Form

Mail to:  
**R.A.S. c/o**  
**William L. Hallahan**  
**6658 North Avon Rd.**  
**Honeoye Falls, NY 14472**

New  
 Renewal

Name \_\_\_\_\_ E-mail \_\_\_\_\_  
 Street \_\_\_\_\_ Phone \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ - \_\_\_\_\_

For your convenience, please pay your dues to the R.A.S. and its sections with a single check. **Make check payable to: Rochester Academy of Science, Inc.**  
 CIRCLE the amount you are paying for an Academy category (shaded column) and for the Section(s) in which you wish membership.

Membership Categories <i>R.A.S. dues are a prerequisite for section membership</i>	Rochester Academy of Science	Anthropology Section	Astronomy Section	Life Sciences Section	Fossil Section	Mineral Section	Total
<b>Member</b> (Individual over age 18)	<b>\$10.00</b>	\$2.00	\$25.00	\$2.00	\$10.00	\$5.00	
<b>Family</b> (Including students to age 18)	<b>\$15.00</b>	\$3.00	\$30.00	\$3.00	\$10.00	\$6.00	
<b>Student</b> (age 18 to full-time undergrad.)	\$5.00	\$1.00	\$5.00	\$1.00	\$5.00	\$2.00	
<b>Supporting</b> (Individual or family)	\$20.00	*****	\$40.00	\$10.00	\$20.00	\$10.00	
<b>Patron</b> (Individual or family)	\$30.00	*****	\$50.00	\$20.00	\$30.00	\$20.00	
<b>Life</b> (Individual only)	\$200.00	*****	\$300.00	\$40.00	*****	*****	
<b>Gift (Thank you!)</b> Fill in amount ⇨							
Check box(es) if you are interested in volunteering ⇨ ⇨ ⇨ ⇨ ⇨							

# Events for December, 2018

For updates to events, check the Academy website, <http://www.rasny.org>, and Section websites.

## **NOT MEETING IN DECEMBER:**

Mineral Section  
RAS Board of Directors

## **2 Sun ANTHROPOLOGY OUTING**

2:00 p.m. Memorial Art Gallery of Rochester. Join us for a lecture by Dr. Thomas Garrison of Ithaca College discussing the implications of LiDAR in the study of the Maya world.

## **3 Mon: ASTRONOMY BOARD MEETING**

7:00 p.m. University of Rochester, Bausch & Lomb Hall, 4th floor Chart Room. All ASRAS members are welcome. Contact Mark Minarich: (585) 257-6042.

## **4 Tues: FOSSIL SECTION MEETING**

7:30 p.m. Brighton Town Hall. Annual Show-n-Tell and pizza party. Attendees are asked to bring their favorite finds from this year or years past. Contact: Dan Krisher, (585) 698-3147.

## **8 Sat ANTHROPOLOGY FIELD TRIP**

2:00 p.m. – 4:00 p.m. Mills Mansion, Mt. Morris, NY. Join us for a holiday celebration. Built 1832, it showcases 19th century period decorations, Native American and other artifacts from the grounds of the site. Carpool 1:30 p.m. NE corner Double Tree Inn, Jefferson Road near the 390. Contact; Karen Wolf, (585) 670-9709 or Alex Smith, (585) 750-3329.

## **9 Sun: ASTRONOMY PUBLIC OPEN HOUSE**

12:00 p.m. - 4:00 p.m. (or later, if skies are clear). Marian and Max Farash Center for Observational Astronomy, 8355 County Road 14 Ionia, NY 14475. New Moon Observing Saturday evening. For cancellations or changes contact Mark Minarich: (585) 257-6042. or see:

[www.rocheasterastronomy.org/calendar-of-events](http://www.rocheasterastronomy.org/calendar-of-events)

## **12 Wed: LIFE SCIENCES HERBARIUM WORKSHOP**

1:00 p.m. – 4:00 p.m. Basement of the Rochester Museum and Science Center (RMSC). No experience necessary. At RMSC front desk have staff person call ext. 368 in the Herbarium. If you'd like to attend, or for more information, contact herbarium curator: Elizabeth Pixley, (585) 334-0977 or [eypixley@gmail.com](mailto:eypixley@gmail.com).

## **14 Fri ASTRONOMY SECTION MEETING**

7:00 p.m.–10:00 p.m. Strassenburgh Planetarium, 657 East Ave, Rochester. Do not go to RIT. Annual holiday party, Steve Fentress's awesome planetarium show, and Outstanding Astronomer Award. Please bring a dish to pass. For more information, contact Mark Minarich: (585) 257-6042.

## **ONGOING EVENTS**

### **STRASENBURGH OBSERVATORY**

ASRAS will operate the telescope at Strassenburgh Planetarium on mostly clear Saturday nights.

Contact: Jim Seidewand (585) 703-9876.

## **ASTRONOMY STAR PARTY**

ASRAS hosts public outdoor star parties once a month on Fridays, either at Mendon Ponds Park or Northampton Park near Brockport. Notices are posted on the prior Wednesday at the ASRAS Facebook page, and [www.rocheasterastronomy.org/calendar-of-events](http://www.rocheasterastronomy.org/calendar-of-events), or, contact Jim Seidewand, (585) 703-9876.

## **EARLY JANUARY UPCOMING EVENTS**

### **4 Fri ASTRONOMY SECTION MEETING**

Richard O'Shaughnessy will continue his previous lecture on Discovering Gravity Waves (Part 2).

### **13 Sun WINTERFEST**

11:00 a.m. to 4:00 p.m. Mendon Ponds Park. Join the community at the County's Annual Winterfest at Mendon Ponds Park. Enjoy hiking, racing, geocaching, ride a wagon, watch sled dogs run, meet wild critters, a patrol dog and horse, plus much more! See: <https://www2.monroecounty.gov/parks-winterfest>  
Don't forget, we'd like your help at the Astronomy, Fossil, and Mineral booths.

Winter  
Solstice



**Rochester Academy of Science**  
**P.O. Box 92642**  
**Rochester, NY 14692-0642**  
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**CHANGING ADDRESS?**

Temporary or Permanent?

Notify whallah3@naz.edu.

A returned newsletter costs us 59¢

Please help stop this waste.

**ABOUT THE ACADEMY** - The Rochester Academy of Science, Inc. is an organization that has been promoting interest in the natural sciences since 1881, with special focus on the western New York state region. Membership is open to anyone with an interest in science. Dues are minimal for the Academy and are listed in the membership application online. Each Section also sets dues to cover Section-related publications and mailings.

For information, contact President Jutta Dudley at (585) 385-2368 or by e-mail: [pres@rasny.org](mailto:pres@rasny.org).

The Academy Internet website is

<http://www.rasny.org>

Or see us on Facebook at

<https://www.facebook.com/RochesterAcademyofScience>.

This “**BULLETIN**” is produced monthly, except July and September, by the Astronomy Section, Rochester Academy of Science. Submissions are due by the 10<sup>th</sup> of the month and may be emailed to:

[editor@rasny.org](mailto:editor@rasny.org).

**The Academy postal address is P.O. Box 92642, Rochester NY 14692-0642.**

**ROCHESTER ACADEMY OF SCIENCE CONTACTS**

(585) home //work

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