



## President's Message



Please join your Academy colleagues for the **RAS Annual Meeting and the Spring Lecture April 4<sup>th</sup>** at the Brighton Town Hall at 7:15 p.m. Our meeting will include the election of new board members and the induction of a new Fellow to the Academy.

Following the business meeting we turn to our guest speaker Dr. Omer Gokcumen for his presentation on "The Genomic Ghosts of Our Ancestors." Details about the lecture and the background of the speaker can be found in the March Bulletin on [www.rasny.org](http://www.rasny.org) by clicking the Publications and Collections tab on the drop-down menu. The public is invited to attend this free lecture. Stay for refreshments afterwards and enjoy further discussions with your colleagues and our guest speaker.

*Jutta Siefert Dudley, Ph. D., FRAS*

**REMEMBER TO VOTE!**



**VOTE**

## Notice

**All-Academy Annual Business Meeting**

**7:15 p.m., Thursday, April 4, 2019**

**Brighton Town Hall Auditorium**

**2300 Elmwood Avenue, Rochester, NY. 14618**

**Agenda: Election and Fellow Induction**

## Annual Spring Lecture, April 4, 2019

Rochester Academy of Science  
**Spring Lecture**

**presented by Dr. Omer Gokcumen**

Head of SUNY Buffalo Evolutionary &  
Anthropological Genomics Lab

***Genomic Ghosts of Our  
Ancestors***



*Image courtesy of SUNY Buffalo*

**Brighton Town Hall Auditorium**

**2300 Elmwood Avenue, Rochester, NY 14618**

**7:15 p.m. □ Thursday, April 4 □ Free**

## Rochester Academy of Science Treasurer's Report of March 1, 2019

The Rochester Academy of Science has three categories of funds: The General Fund, the Endowment Funds and the Expendable Funds. The General Fund receives membership dues, monthly interest from the Life Fund (endowment) and the Memorial Fund (endowment). Expenses from the General Fund are outlined in the budget below. This financial report does not include income and expenses of the individual sections.

**General Fund Budget:** Summary for 2019 (this is where membership dues go):

Section & Board Meetings: Room rental	1000.00
<i>Bulletin</i> : printing, mailing, labor	2350.00
Events: Spring Lecture & Fall Paper Session:	200.00
General Office Expenses (PO Box permit)	380.00
Liability Insurance	636.00
Website	60.00
Total	<u>4626.00</u>

**Endowment Funds:** The Endowment funds are not spent but generate interest, which is entered as income into the three Expendable Funds. They are reported to the IRS as restricted assets.

**Fairchild Fund** Interest from this fund is deposited in the Publications Fund.

**Life Fund** Contains dues paid by those who joined at the Life Membership level.

**Jensen Fund** Interest from this fund is deposited in the Grants Fund.

**Speakers Fund** Interest from this fund is deposited in the Lecture Fund.

**Grace Murray Fund** Interest from this fund is deposited in the Grants Fund.

**Memorial Fund** This fund contains memorial gifts to honor named members.

**Grants Program Endowment** Interest from this fund is deposited in the Grants Fund.

**Babette Coleman Bequest** The interest from this fund is deposited in the Paper Session Fund to support the expenses of the Fall Scientific Paper Session.

The present balance of the Endowment Funds: as of December 31, 2018

Fairchild	10741.00
Life	10800.00
Jensen	8275.00
Speakers	6550.00
Grace Murray	8250.00
Grants Program Endowment	8050.00
Paper Session Endowment	1000.00
Babette Coleman Bequest	4958.86
Memorial	650.00

**Expendable Funds:** (reported to the IRS as unrestricted assets)

**Publications Fund:** This fund receives the interest from the Fairchild Fund as well as individual gifts. Since 1995 this fund has been totally self-supporting and does not receive funds from membership dues or from the General Fund. Money in this fund is used to publish the Proceedings and Academy booklets.

**Undergraduate Student Research Grants Fund:** This fund receives the interest from the Grace Murray Fund, the Jensen Fund, the Grants Endowment Fund and stock dividends (the T.F. and A.A. Murray Fund) as well as gifts from individuals or from sections of the Academy. Since 1995 this fund has been totally self-supporting in that it has not received any funds from membership dues or from the General Fund. Money in this fund is used to award annual research grants to undergraduate college students.

**Lecture Fund:** This fund receives the interest from the Speakers Fund as well as individual gifts. Since 1995 this fund has been totally self-supporting in that it has not received any funds from membership dues or from the General Fund. Money in this fund is used to pay the expenses and honoraria for invited speakers who give lectures at Academy events (at the Fall Scientific Paper Session and the Spring Lecture).

**Paper Session Fund** This fund receives funds from the endowment but primarily from registration fees at the paper session. It is used to pay for refreshments at the annual fall scientific paper session.

**Assets and Liabilities:**

The assets of the Rochester Academy include money held by each of the five sections, as well as the RAS funds in the Pittsford Federal Credit Union (checking, savings) plus investments held by Morgan Stanley/Smith Barney (which pay about 3%; this interest is deposited into the Expendable Funds accounts). The RAS owns stock in ConocoPhillips and Phillips 66 and the dividends received are deposited into the Grants Fund. In addition, the RAS has investment money in the UBS Putnam Diversified Income Trust, which was a bequest from the Babette Coleman estate. The RAS has no liabilities.

# Events for April 2019

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

## NO MINERAL SECTION MEETING THIS MONTH.

See you at the Mineralogical Symposium between April 11th and 14th at the Radisson Hotel, 175 Jefferson Rd.

## 2 Tues: FOSSIL SECTION MEETING

7:30 p.m. Brighton Town Hall, downstairs meeting room. The Greenland Ice Sheet contains enough ice to raise sea level by 7 meters (23 feet), and there is evidence that most of it melted during a very warm period 400,000 years ago. RAS Student Grant winner Maya Prabhakar will speak on her research examining the reduced proportion of the heavy oxygen isotope in fossil planktonic foraminifera to identify the occurrence and timing of this event. Contact: Dan Krisher, [DLKFossil@gmail.com](mailto:DLKFossil@gmail.com).

## 4 Thurs: RAS ANNUAL MEETING & SPRING LECTURE

7:15 p.m. Brighton Town Hall Auditorium, 2300 Elmwood Avenue. 7:15 p.m.: Business meeting. Election of RAS Officers. 7:30 p.m. Omer Gokcumen will speak on "The Genomic Ghosts of Our Ancestors." See page 1 for further details.

## 5 Fri: ASTRONOMY SECTION MEETING

7:30 p.m.–10:00 p.m. RIT Carlson Center for Imaging Science, CAR-1125. Lot F. Main Speaker: Donald Spector (HWSC) – "The Physics of Star Trek, Part II". Snacks available at 7:00 p.m. prior to meeting. Contact: Mark Minarich: (585) 257-6042.

## 6 Sat: ASTRONOMY MEMBER OBSERVING – MESSIER MARATHON

7:45 p.m. +. Rescheduled from March. Marian and Max Farash Center for Observational Astronomy, 8355 County Road 14 Ionia, NY 14475. For weather related cancellations or changes contact Mark Minarich: (585) 257-6042 or see [www.rochesterastronomy.org/calendar-of-events](http://www.rochesterastronomy.org/calendar-of-events).

## 8 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.

## 10 Wed: LIFE SCIENCES HERBARIUM WORKSHOP

1–4 pm. Life Sciences section will hold a workshop at the RAS Herbarium, located in the basement of the Rochester Museum and Science Center (RMSC). We will continue sorting contents of boxes, so they can be incorporated into the herbarium cabinets. No experience needed! If you plan to attend, please send an RSVP to Elizabeth Pixley. For more information, contact Elizabeth Pixley, herbarium curator (585) 334-0977 or [evpixley@gmail.com](mailto:evpixley@gmail.com).

## 11 Thurs: ROCHESTER MINERALOGICAL SYMPOSIUM FREE LECTURE

8:00 p.m. Radisson Hotel. 175 Jefferson Rd, near RIT. John Rakovan will present "Crystal Growth, A Primer." All Academy members welcome. You must check in at registration table to verify you are a RAS member so you can attend the Lecture, Exhibit Room and Dealer Floor. See exquisite museum quality minerals! It's like going to the Smithsonian! The Symposium continues until Sunday, April 14. If interested in attending, registration information is found on [www.rasny.org](http://www.rasny.org).

## 11 Thurs: ANTHROPOLOGY MEETING

7:30 p.m. Memorial Art Gallery. We will join the Archaeological Institute of America (AIA) for their Lecture. Speaker: Dr. Warren Reiss, University of Maine. Topic: "The Ship That Held Up Wall Street: The Archaeological Investigation of a Colonial Ship Discovered in Manhattan". Contact: Alex Smith 750-3329.

## 14 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. Events include observatory training, facilities improvement and star party in the evening – skies permitting. For weather related cancellations or changes contact Mark Minarich: (585) 257-6042 or see [www.rochesterastronomy.org/calendar-of-events](http://www.rochesterastronomy.org/calendar-of-events).

## 17 Wed: RAS BOD MEETING

7:00 p.m. Brighton Town Hall, Stage Conference Room

## 19 Fri: ASTRONOMY WINTER LECTURE

7:30 p.m.–10:00 p.m. RIT GOS-A300. S or U Parking Lot. Member Short Talks. Rescheduled from March. Mark Minarich: "My experience with Rx Astronomy Glasses". Don Chamberlain: Trip to Tycho Brahe Museum in Denmark. Lori Englund: Eclipse experience. Contact: Mark Minarich: (585) 257-6042.

## ONGOING EVENTS

### STRASENBURGH OBSERVATORY

ASRAS will operate the telescope at Strasenburgh 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.rochesterastronomy.org/calendar-of-events](http://www.rochesterastronomy.org/calendar-of-events), or, contact Jim Seidewand, (585) 703-9876.

## OUTSIDE RAS EVENTS

### 31 MAY-2 JUNE ALLEGANY NATURE PILGRIMAGE

Enjoy a weekend in Allegany State Park with nature enthusiasts of all ages. "Big Tent" programs on Friday and Saturday evenings. Classes, walks and field trips offer activities and topics that will engage you in star gazing, owl prowls, sketching, bird banding, plant and animal observations, wilderness survival, geologic history, and so much more. In its 61th year, the program is sponsored by several nature clubs in western NY and our local Burroughs Audubon Nature Club. Act now to register cabin or tent site at: <http://www.alleganynaturepilgrimage.com/>.

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*Crocuses Herald the Coming of Spring in Rochester*

**Rochester Academy of Science**  
**P.O. Box 92642**  
**Rochester, NY 14692-0642**  
Return Service Requested

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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.**

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