



## President's Message: Come to the Scientific Paper Session!

We will gather at St John Fisher College in Pittsford for our 44th annual Scientific Paper Session on November 11<sup>th</sup>, hosted by the Biology Department. Featured presenters will be area scientists, students, and RAS members, who will share their investigations and interests about scientific topics. Join us for the program finale, the Larry King Memorial Lecture given by Dr. Jeffrey Wyatt of the University of Rochester and Seneca Park Zoo. The program is free for observers. I hope you will come!

Jutta Siefert Dudley

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## Second Call for Presentations at the Fall Paper Session

Have you been engaged in a project? Share your experiences with the community! We are eager to hear all about it! You have a great opportunity to tell us at the next RAS Scientific Paper Session through a poster or short oral report. There is still time to sign up and send in your abstract before the **deadline October 20<sup>th</sup>**. Go to <http://rasny.org> and follow the link to the presenter's reservation forms. There is a small registration fee.

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## RAS Scientific Paper Session Schedule

**Saturday, November 11  
St John Fisher College**

### Contact:

[raspapersession2017@sjfc.edu](mailto:raspapersession2017@sjfc.edu)

### Parking: Free. Use Lot A. Maps:

<https://www.sjfc.edu/media/global/documents/ParkingMap.pdf> or <http://www.myatlascoms.com/map/?id=287>

### 8:30 a.m. Presenters sign-in.

Refreshments for all attendees. Integrated Science and Health Sciences Building Atrium.

**9:30 a.m. -- 12:15 p.m. Oral presentations followed by a poster session.** Integrated Science and Health Sciences Building.

### 12:30 p.m. Lunch, optional.

Ward-Haffey Hall. **Lunch Reservation required by November 6.** Online credit card payment preferred. Go to

<https://goo.gl/forms/VrvKSMGwlBjiFPW13>.

**2:00 p.m. Larry King Memorial Lecture.** Cleary Auditorium, Kearney Building.

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## Larry King Memorial Lecture

*Saving Rainforest with a Stethoscope & Hoof Trimmers: a globally replicable model reversing poverty, improving community health, and rescuing orangutans from extinction in Borneo.*

**Presented by Dr. Jeff Wyatt.**



*Rainforest of Sukadana, Borneo*

Dr. Jeff Wyatt will share ten-year metrics from an innovative and incentivized health care model in Borneo emphasizing radical listening to implement community led solutions reversing poverty, improving public health and saving critically endangered wildlife and rainforest. The pillars of this sustainable antipoverty strategy promoting a healthy planet are replicable anywhere globally from Upstate NY to Western Borneo.

(More on next page )



*Dr. Jeffrey Wyatt with juvenile sturgeon.*

**About our Speaker**

Jeff Wyatt, DVM is Professor and Chair of Comparative Medicine at the University of Rochester School of Medicine & Dentistry, as well as the Director of Animal Health & Conservation at Seneca Park Zoo. Dr. Wyatt aspires to promote a healthy planet.

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*Organic Farm Interns in Sukadana, Borneo.*

**Jeff Wyatt’s presentation to Rochester Academy of Science – November 11, 2017**

Loss of rainforest in Borneo from logging dramatically increases every year with one exception. Tropical rainforests are the lungs of our planet as well as provide the last refuge for critically endangered animals such as Borneo orangutans. Our ([www.healthinharmony.org](http://www.healthinharmony.org)) unique approach of radical listening to logging villagers identified community-led, sustainable solutions to reverse poverty and identify alternative revenue streams to logging. The top reason for logging was to pay for expensive, remotely accessible health care. Loggers embraced capacity building opportunities including small scale livestock farming, commercial level compost production and organic farming of abandoned slash and

burn plots. Ten years after launching an incentivized community health care program providing 70% subsidy for patients living in non-logging villages as well as accepting non-cash payments such as manure & compost has resulted in an 86% reduction in logging families surrounding Gunung Palung National Park’s 225,000 forested acres. New access to affordable, high-quality health care has improved health metrics including a 68% decrease in infant mortality, 62% decrease in cough of 3 weeks duration (tuberculosis), 50% decrease in diarrheal disease, 27% decrease in fever, 16% decrease in births per mother and 26% increase in childhood immunizations. Our integrated health care and conservation model emphasizing radical listening to reverse trends in poverty transforming lives of stakeholders may be replicated around the globe from the Borneo to Rochester, NY.

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**RAS Student Grant Applications for Research Announcement**

The Academy will award up to \$500 for supplies and \$50 unrestricted funds to a top qualifying research proposal from an undergraduate college student. Partial funding of at least \$100 will be awarded to four other proposals.

Applications are due by December 18, 2017. Detailed information about the grants and the procedure for applying are found on [www.rasny.org](http://www.rasny.org). The information is annually emailed to science departments in colleges throughout western New York State.

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# Events for October, 2017

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

## LIFE SCIENCES HERBARIUM WORKSHOP

To Be Determined – watch for email notice of date and time. Contact: Elizabeth Pixley, (585) 334-0977 or [evpixley@gmail.com](mailto:evpixley@gmail.com)

## Tues: FOSSIL SECTION MEETING

7:30 p.m. Brighton Town Hall. Guest speaker, Dr. Jonathan Hendricks, the Director of Publications at the Paleontological Research Institution. Topic: *Glowing Seashells: Revealing the Neogene History of Tropical American Cone Snails Using Ultraviolet Light*. Contact: Dan Krisher, (585) 698-3147

## 6 Fri: ASTRONOMY SECTION MEETING

7:00 p.m.–10:00 p.m. RIT Gosnell Hall Room A 300. Main Topic: The Great Eclipse of August 2017. Member eclipse photos and experiences will be presented. Short talk: *Knitting to the Moon – the key role knitting played in programming the Apollo Guidance Computer* by Ted Lechman. Short talk on: "Monitor Sensors on 'Ice Cube' -the Neutrino Sensor at the South Pole", by Pouya Tanouri, RIT Student. Snacks available at 7:00 p.m. prior to meeting. Contact: Joel Schmid, 533-2097.

## 9 Mon: ASTRONOMY BOARD MEETING

7:00 p.m. University of Rochester, Bausch & Lomb Hall, 4th floor Chart Room. All ASRAS members are welcome. Contact: Joel Schmid, 533-2097.

## 13 Fri: ASTRONOMY STAR PARTY

8:00 p.m. – 10:00 p.m. Mendon Ponds Park, at Hopkins Point Road near the youth camping area. Contact: Jim Seidewand, (585) 703-9876.

## 14 Sat: LIFE SCIENCES / ANTHROPOLOGY FIELD TRIP

11:00 a.m. Ganondagan Native American Historical Site, 7000 County Road 41 Victor NY. Carpool meet 10:30 a.m. at Rt. 250 and 441 Wegmans Parking lot NE end. Contact: Karen Wolf, 670-9709 or Larry Hirsch, 429-6199.

## 17 Tues: MINERAL SECTION MEETING

7:00 p.m. Brighton Town Hall, Downstairs Meeting Room. Dr. Scott Giorgis of SUNY College Geneseo will discuss pluton formation in the Henry Mts of Utah. Join us for an educational evening, door prizes, and refreshments. Contact: Stephen Busschaert, (585) 351-7633.

## 18 Wed: RAS BOARD MEETING

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

## 21 Sat: ANTHROPOLOGY SECTION

10:00 a.m. – 4:00 p.m. RMSC. National Archeology Day. Exhibit of artifacts, natural plant dyed cloth and the Chemistry of Dying Cloth. Joint with Rochester Chapter of

the Archeological Institute of America. Contact: Karen Wolf, (585) 670-9709.

## 22 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. For cancellations or changes contact: Joel Schmid, (585) 533-2097 or see: [www.rochesterastronomy.org/calendar-of-events](http://www.rochesterastronomy.org/calendar-of-events)

## ONGOING EVENT

ASRAS will operate the telescope, or one on the sidewalk, at Strasenburgh Planetarium on mostly clear Saturday nights. Contact: Jim Seidewand, (585) 703-9876.

## UPCOMING RAS EVENTS

### Sat Nov 11: RAS FALL SCIENTIFIC PAPER SESSION

8:30 a.m. - 3:00 p.m. St John Fisher College. Oral and Poster Sessions, 9:30 a.m. -12:15 p.m. Lecture by Dr Jeff Wyatt, 2:00 p.m. See this Bulletin for details. Contact: Jutta Dudley, 585-385-2368.



This fantastic montage was taken by Joe Altieri in Springfield, Tennessee on Aug 21, 2017, capturing key moments in the sequence of events towards totality. An experience of a lifetime!

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**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).

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