



RAS Scientific Paper Session

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

Contact:

raspapersession2017@sjfc.edu

Parking: Free. Use Lot A. Maps:

<https://www.sjfc.edu/media/global/documents/ParkingMap.pdf> or
<http://www.myatlascms.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.** Int. Science &
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/VrvKSMGwl
BjiFPW13](https://goo.gl/forms/VrvKSMGwlBjiFPW13).

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



Orangutan mother and youngster at home in Borneo.

Photo credit: Orangutan Conservancy. www.orangutan.com

Larry King Memorial Lecture Presented by Dr. Jeff Wyatt:

Saving Rainforest with a Stethoscope & Hoof Trimmers

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.

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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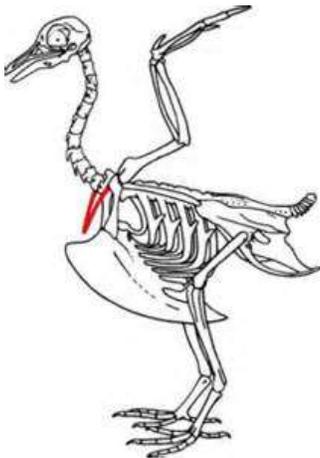
A Thanksgiving Phylogeny

By J.S. Dudley

Eating a bird for Thanksgiving dinner? Be thankful the catastrophic events at the end of the Cretaceous resulted in saurischian dinosaur descendants inheriting the earth (along with our mammalian ancestors).



Look carefully at the bones of your turkey and compare them to those in the bird family tree. You can have fun doing this and learn about bird phylogeny at <http://www.hhmi.org/biointeractive/comparative-anatomy-domestic-chicken>.



Millions of years of evolution, the breeding talent of humans, and a good cook led to the tasty treat displayed at your table. Enjoy!

Happy Thanksgiving!



Pelican Nebula IC 5070 in Cygnus near Deneb. Some people think it looks like a pelican. This image was taken by ASRAS/RAS member James Canning in summer 2017 at the Farash Observatory using an 8 in. Celestron C8 telescope, with an effective focal length of 1300mm. Camera was a ZWO ASI1600MM COOL with a monochrome sensor. This image was built up from 41 ten minute exposures over two days. See the pelican?



M106 is known as the Sunflower Galaxy because the texture of the arms resembles the rows of seeds in a sunflower. Located in Canes Venatici (the Hunting Dogs) Constellation. Taken by ASRAS/RAS member James Canning at the Farash Observatory in autumn 2015 using a SkyWatcher 120MM ED refractor telescope and a Canon 1100D unmodified camera. This image was built up using 25 five minute exposures.

Events for November, 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 eypixley@gmail.com

3 Fri: ASTRONOMY SECTION MEETING

7:00 p.m.–10:00 p.m. RIT Gosnell Hall Room A 300. Election of new board of directors. Main Speaker: Dr. Adam Frank of U of R. specializes in Computational Astrophysics and Star Formation. He is a popular speaker and an “Evangelist of Science”.

Also, short talk: “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.

6 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.

7 Tues: FOSSIL SECTION MEETING

7:30 p.m. Brighton Town Hall. Ashley Pollock will speak on “Precambrian Life and Extinction Events”. Contact: Dan Krisher, (585) 698-3147.

10 Fri: ASTRONOMY STAR PARTY

8:00 p.m. – 9:30 p.m. Northampton Park, Brockport at the Ski Lodge parking lot off Hubbell Rd. Weather permitting. Final Star Party of 2017. Contact: Jim Seidewand, (585) 703-9876.

11 Sat: RAS FALL SCIENTIFIC

PAPER SESSION & LECTURE

8:30 a.m.–2 p.m. St. John Fisher College. See page 1 for schedule. Contact: Jutta Dudley, 385-2368.

12 Sun: ASTRONOMY PUBLIC OPEN HOUSE / YOUNG ASTRONOMERS

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

15 Wed: RAS BOARD MEETING

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

21 Tues: MINERAL SECTION MEETING

7:00 p.m. Brighton Town Hall, Downstairs Meeting Room. Mike Walter will present “Herkimer Diamonds, Everywhere?” Learn

about the traditional Herkimer quartz crystal sites as well as others in NYS and Canada. He’ll show fine specimens and uncommon materials from those sites. You will enjoy his stories from 45 years of collecting in the field! Everyone is welcome. Refreshments and door prizes. Contact: Stephen Busschaert at vpmineral@rasny.org.

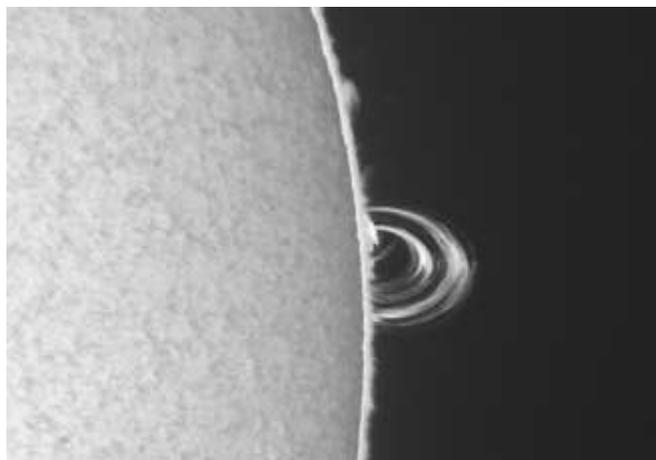
ONGOING EVENT

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

DECEMBER UPCOMING EVENT

Fri 1 ASTRONOMY SECTION MEETING AND HOLIDAY PARTY

6:30 p.m. – 10 p.m. Strassenburgh Planetarium. Setup at 6:00 p.m. Do not go to RIT! Contact: Joel Schmid, 533-2097.



Sunspot AR2673 responsible for the intense aurora and communication blackouts, had just rotated over the western limb of the Sun when this video image captured the large plasma loop held aloft by the magnetic field of AR2673. Sun was near minimum activity. Taken by ASRAS Facilities Manager Bob McGovern on Sept. 10, 2017 with the 100mm hydrogen-alpha instrument (656.3nm) at the Farash Solar Observatory in Ionia, NY.

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

The Academy Internet website is

<http://www.rasny.org>

Or see us on Facebook at

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

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editor@rasny.org.

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