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Rochester Academy of Science
BULLETIN

“An organization of people in the Natural Sciences”

March, 2011 - Vol. 65, #3

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ABOUT THE **ACADEMY** - The Rochester Academy Of Science, Inc. is an organization which 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. Each Section also sets dues to cover Section-related publications and mailings.



For applications and/or more information contact Jutta Dudley, 140 Railroad Mills Road, Pittsford, NY 14534; by telephone 385-2368; or by e-mail <JuttaSD@aol.com>.

The *Academy* Internet web page is <http://www.rasny.org>

The *Astronomy Section* Information phone number is (585) 987-5330. The *Astronomy Section* Internet web page is <http://rochesterastronomy.org>

This “**BULLETIN**” is produced monthly, *except July and September*, by the *Astronomy Section, Rochester Academy of Science*. The editor is Bob Crumrine, 3 Timway Court, Fairport, NY 14450 Phone (585) 265-5292 (days) and (585) 425-7448 (evenings), e-mail <editor@rasny.org>

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The Academy Postal address is P.O. Box 92642, Rochester, NY 14692

2011 RAS SPRING LECTURE

The Annual RAS Spring Lecture will be held Monday, April 18 at 7:00 PM at Rochester Institute of Technology (RIT), building 9, room 2580, the ‘Xerox Auditorium’. The lecture will be given by Dr. Andrew M.T. Moore of RIT entitled “**From the Euphrates to the Adriatic: Investigating the Origins and Spread of Farming**”. The development of farming in Western Asia and its spread to new lands was one of the most significant events in the entire history of humankind because it made possible the modern world. The lecture reviews the results of excavations Moore has conducted that illuminate the origins of farming in Western Asia and the spread of this new way of life to southern Europe.

Moore outlines the results of the excavations and then explains how new research in the last decade on materials recovered from the site, using state of the art methods, is expanding our understanding of the inception of farming and its environmental context.

Dean Moore holds a doctorate from Oxford University, England. Moore has taught archaeology in the departments of anthropology at the University of Arizona and

Yale University. At Yale he also served as Associate Dean in the Graduate School of Arts and Sciences. Moore came to RIT in 1999 to become Dean of the College of Liberal Arts. Currently, Moore is Dean of Graduate Studies where he oversees 90 graduate programs enrolling 2,900 students. He was recently elected First Vice President of the Archaeological Institute of America, the leading international archaeological society in the U.S.A.

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ROCHESTER MINERALOGICAL SYMPOSIUM

April 14-17, 2011

Radisson Rochester Airport Hotel, 175 Jefferson Road, Rochester, NY 14623

More information will appear in the next issue of this Bulletin.

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MINERALOGICAL SYMPOSIUM RECEIVES AWARD

The Rochester Mineralogical Symposium has been honored by being selected to receive the Carnegie Mineralogical Award for 2010. The Carnegie award is given by the Carnegie Museum of Natural History in Pittsburgh,

Pennsylvania to honor outstanding contributions in mineralogical preservation, conservation and education, and is the most prestigious award in the field of specimen mineralogy. The RMS was officially recognized and presented with a bronze medallion, a certificate of recognition, and a cash award of \$2,500 during the awards ceremony at the Tucson Gem and Mineral Show in February.

The Symposium will use the cash award to further its mission of promoting specimen mineralogy. This will be the 24th time this award has been given. The fact that the RMS has been awarded the Carnegie award is further proof of the exceptional quality of this event. We are indeed, very fortunate to have an event like this in Rochester.

* * *

ANNUAL ELECTION OF OFFICERS AND DIRECTORS

At the next general meeting, April 18, the RAS will elect a new slate of officers for a 1 year term and two of six directors for a 3-year term. As in past years, the Nominating Committee has been unable to find candidates for all positions. Interested parties can contact any Board member. By way of introduction and to assist

you with your choice, the nominating committee submits biographies of the non-incumbent candidates for your review.

A sample ballot can be found below.

* * *

NEW RAS BOARD CANDIDATES

Director, Douglas Kostyk: Education: Bachelor degree in Engineering Physics from Stevens Institute of Technology, Hoboken NJ. Master degree in Physics from Tufts University, Graduate School of Arts and Science, Sommerville, MA.

Experience: I have worked on Semiconductor lasers for Infrared Spectroscopy at Spectra Physics. This involved bulk crystal growth and epitaxial crystal growth to create the diode lasers. I created

and studied superlattices with magnetic semiconductor layers as thin as one molecule, discovering a new magnetic phase transition when the crystal is reduced to two dimensions.

I worked on the development of temperature control algorithms and thermal management in digital printing at Heidelberg Druckmaschinen, and Kodak. I also worked on microscopy to develop process control techniques for surface coatings used in this printing.

I am a member of the Astronomy and Mineral sections of RAS. I am interested in astronomy and geology. I enjoy hiking and climbing volcanoes and canyons to see geology in action. I was a member of the Conservation Commission of the Zoning Board in Hudson, NH, before moving to

Victor NY. I am currently a firefighter in the Fishers Fire Department.

Director, Lee Tutt:

Lee Tutt is a Senior Research Scientist at Eastman Kodak. He earned a PhD in Inorganic Chemistry from UCLA and a BS from Caltech. Lee holds more than 80 US Patents and has published extensively on chemistry and laser interactions. Recent work has included low temperature zinc oxide transistor deposition with novel architectures.

Lee has been an active member of Mineral, Fossil, and Life Science Sections since 1997. He has also served on the Fossil Section Board.

EVENTS for March, 2011

(For updates to events, check the Academy web site, <http://www.rasny.org>, or appropriate Section web site.)

MARCH EVENTS

Tues 01 FOSSIL GENERAL MEETING

7:30 PM Brighton Town Hall. Bill Korth of the Rochester Institute of Vertebrate Paleontology will give a presentation on the Taphonomy of a few Miocene vertebrate sites in Kansas. Visitors welcome. Please contact John Handley at fossil@rasny.org or call John at 585-802-8567 for more information.

Fri 04 ASTRONOMY GENERAL MEETING

7:30 PM, RIT Gosnell Hall A-300 Lecture Hall. Martin Huarte-Espinosa, UR, Dept. of Physics and Astronomy will speak about “Galaxy Lunch”. For more information contact Lori Englund at 334-5744 or visit www.rochesterastronomy.org.

Thurs 10 RAS BULLETIN DEADLINE

Deadline for April, 2011 issue. Please mail input to editor@rasny.org

Thurs 10 ANTHROPOLOGY MEETING

We will be attending the Archaeological Institute of America Lecture on Thursday, March 10th. For additional

information, please contact Karen Wolf at 670-9709. If you attend, please introduce yourself to Karen Wolf behind the reception table.

Tues 15 MINERAL GENERAL MEETING

7:30 PM Downstairs Meeting Room, Brighton Town Hall, 2300 Elmwood Ave. Program to be announced. Door prizes & refreshments. Visitors welcome. Check <http://www.rasny.org/mineral> for updates or contact Stephen Busschaert at mineralvp@rasny.org.

Wed 16 HERBARIUM

1:00 PM – 4:00 PM. Life Sciences section will hold a workshop at the RAS Herbarium, located in the basement of the Rochester Museum and Science Center (RMSC). No experience needed! Plan to come and help with this valuable collection – and see some interesting plants! At RMSC, go to the front desk and ask staff person there to call ext. 368, the phone in the Herbarium. If you plan to attend, please send an RSVP to Elizabeth Pixley, [herbarium curator \(334-0977 or \[epixley@rochester.rr.com\]\(mailto:epixley@rochester.rr.com\)\)](mailto:herbarium.curator@rochester.rr.com).

Wed 16 RAS BOARD MEETING

7:00 PM Brighton Town Hall,

Stage Conference Meeting Room.

MARCH NON-RAS EVENTS

Thurs 10 ARCHAEOLOGICAL INSTITUTE OF AMERICA LECTURE

7:30 PM Memorial Art Gallery, 500 University Ave. Prof. John Steele of Brown University will speak on the topic “Anu-Belshunu, Astronomer and Scribe of Uruk, now Iraq”. Prof. Steele is former Professor of Astronomy at Durham University UK, and a specialist in Babylonian astronomy. For more information, please visit <http://www.archaeological.org/events/1606>.

Wed 30 RMSC SHULTZ LECTURE

7:30 PM, Rochester Museum and Science Center, 657 East Avenue. Dr. Todd Krauss of the University of Rochester will speak on the topic of “Nanoscience and Nanotechnology: Why Size Matters.” For more information please visit <http://www.rmhc.org/Experiences/FamilyPrograms/ScienceOnTheEdge/>.

ROCHESTER ACADEMY OF SCIENCE

BALLOT FOR JUNE 2011 – MAY 2012 OFFICERS

Please vote for each office. Note there are THREE Directors’ slots to fill.

OFFICE	NAME	✓	WRITE-IN CANDIDATE
President:	Jutta Dudley		
Vice President:	Open		
Membership:	Open		
Treasurer:	William Hallahan		
Secretary:	Eric Drum		
Member, Board of Directors, 1-year term	Helen Haller		
Member, Board of Directors, 3-year term	Douglas Kostyk		
	Lee Tutt		

Completed ballots can be mailed to the RAS post office box, or delivered in person at RAS before April 18th