

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

NON-PROFIT ORG.
U.S. POSTAGE
PAID
ROCHESTER, N.Y.
PERMIT NO. 220

Rochester Academy of Science
BULLETIN



"An organization of people in the Natural Sciences"

March, 2010 - Vol. 64, #3

March, 2010 - Vol. 64, #3, Page 4

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 membership chairman Stephen Busschaert, 54 Keswick Rd., Rochester, NY 14609; by telephone 288-5683; or by e-mail <sbusschaert@msn.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>

ROCHESTER ACADEMY OF SCIENCE OFFICERS

		Phone		
		(585)	home	work
Stanley Spector	President	461-1272		
Charles Hiler	Vice President	924-7496		
Open	Secretary			
William Hallahan	Treasurer	624-1628	389-2552	
Harry deLahunta	Membership	350-8526	924-4110	
Matthew P. Sinacola	Past President	426-0815		
Karen Wolf	Anthropology	670-9709	273-4500	
Lori Englund	Astronomy	334-5744	242-3226	
Karen Wolf	Life Sciences	670-9709	273-4500	
John Handley	Fossil	802-8567	265-8900	
William W. Pinch	Mineral	248-3333		
Elizabeth Pixley	Herbarium	334-0977		
Jutta Dudley	Publications	385-2368		
Bob Crumrine	Bulletin	425-7448	265-5292	
William Hallahan	Student Grants	624-1628	389-2552	
Paul Dudley	Web Site Coordinator	385-2368		
Demaris Verzulli	Director '12	(315) 524-5242		
Frank Bov	Director '12	385-1518	422-9910	
Jutta Dudley	Director '11	385-2368		
Helen D. Haller	Director '11	387-9570		
Kym Pocius	Director '10	(cell) 802-8566		
Jeff Gutterman	Director '10	392-8299	359-6054	

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

2010 RAS SPRING LECTURE

The Annual RAS Spring Lecture will be held Friday, April 30, 7:30 PM in the Main Auditorium of Brighton Town Hall, 2300 Elmwood Avenue. The lecture will be given by RAS Fellow, Dr. Steven Chamberlain on the interesting color-change specimens of the mineral Diaspore that he has been studying. Dr. Chamberalin recently published an article in a recent issue of the Mineral Section's newsletter on this mineral, and it is available at this link: <<http://www.rasny.org/mineral/Turkish%20Diaspore.pdf>>. More information will follow in the April Bulletin.

Paul Dudley, Editor
RocKester News, RAS Mineral Section

* * *

REPORT FROM THE GRANT COMMITTEE

Requests for proposals for the Rochester Academy of Science Undergraduate Student Science Research Grants went out to all area colleges schools in September, 2009. Fourteen proposals were received. The purpose of these grants is to pay for consumable supplies and basic research expenses. Money for

these grants is provided by interest from the Grants Fund created with a gift from Grace Murray.

The following awards were made:

The largest award went to Jessica G. Greger Shum at Hobart & William Smith Colleges for her proposal "Novel synthesis of 3,4-diaryl-3-pyrrolin-2-ones and staurosporinone." The grant of \$450 will be sent to her advisor, Dr. Erin Pelkey in the Chemistry Department at Hobart & William Smith Colleges. Jessica's research expects to improve methods for preparing biologically active 3,4-disubstituted-3-pyrrolin-2-ones; these chemicals have potential as anticancer agents.

David Koplin, a student at the University of Rochester was awarded partial support for his proposal, "Defining contacts between proteins required for anti-viral defense." The Biochemistry & Biophysics Department at the University of Rochester received a grant of \$350 sent to his advisor Dr. Harold Smith. David's research will investigate proteins that are part of anti-viral defense mechanisms.

Michelle Scotland, a student at Nazareth College was awarded partial support for her proposal, "Fate of dipicolinic acid released

from *Bacillus subtilis* during spore germination." The Chemistry Department at Nazareth College received a grant of \$300 sent to her advisor Dr. Alicia Carroll. Michelle will investigate the role of dipicolinic acid released from spores and how it is used by the bacterium. This grant includes the generous donation of \$100 to the grants fund by Karen Wolf.

Kelin Wheaton, a student at Keuka College was awarded partial support for his proposal, "Does a reduction in heat shock protein expression increase ubiquitin proteasome system activity in *Caenorhabditis elegans*?" The Biology Department at Keuka College received a grant of \$175 sent to his advisor Dr. Joan Magnusen. Kelin will investigate the interaction between heat shock proteins and the ubiquitin proteasome system and protein regulation with possible implications to understanding neurodegenerative diseases such as Alzheimer's, Parkinson's and Huntington's.

James Gordon, IV, a student at Niagara University was awarded partial support for his proposal, "Expression and purification of protein phosphatase 2A for inhibition by cantharidin analogs." The Chemistry Department at Niagara University

received a grant of \$175 sent to his advisor Dr. Christopher Stoj. James will investigate the role of cantharidin compounds as possible anticancer agents.

Kyle Biegasiewicz, a student at Niagara University was awarded partial support for his proposal, “Utilization of a novel cubane-based ligand in asymmetric catalysis.” The Chemistry Department at Niagara University received a grant of \$100 sent to his advisor Dr. Ronny Priefer. Kyle’s project will investigate the role of cubane as a regulator of

catalysis.
William Hallahan,
Treasurer RAS
* * *

CHECK THE DATE

Please check the date next to the mailing address of your Bulletin. If it’s still 2009, please use the renewal form below to renew.

2010 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 R.A.S. category 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
Member (Individual over age 18)	\$10.00	\$2.00	\$17.00	\$2.00	\$5.00	\$5.00	
Family (Including students to age 18)	\$15.00	\$3.00	\$22.00	\$3.00	\$6.00	\$6.00	
Student (K to full-time undergrad.)	\$5.00	\$1.00	\$5.00	\$1.00	\$2.00	\$2.00	
Supporting (Individual or family)	\$20.00		\$30.00				
Patron (Individual or family)	\$30.00		\$50.00				
Life (Individual only)	\$200.00		\$300.00	\$40.00			
Donations (Thank you!) Gift							
Community Outreach Fund							

☐ ⇐ Check here if you are interested in serving on the R.A.S. Board of Directors

EVENTS for March, 2010

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

MARCH EVENTS

Tues 02 – FOSSIL GENERAL MEETING

7:30 PM in the Downstairs Meeting Room of the Brighton Town Hall, 2300 Elmwood Avenue. "People and geology of the Govi Altai region of southern Mongolia with a focus on Silurian-Devonian strata and fossils," Professor D. Jeffrey Over, SUNY Geneseo. Visitors are welcome. Please contact John Handley at fossil@rasny.org or 585-802-8567 for more information.

Thurs 04 ANTHROPOLOGY LECTURE

7:30 pm, Memorial Art Gallery. We will join the AIA for their Lecture by Dr. Martha E. Morgan college of Liberal Arts, RIT. “The multivocality of Maghribi metallurgy: Reconstructing the meaning of metals in Islamic North Africa” For more information contact Karen Wolf, 670-9709.

Fri 05 ASTRONOMY GENERAL MEETING

7:30 PM, RIT Gosnell Hall A-300 Lecture Hall. The main speaker will be Dr. Alice Quillen, internationally known astronomer at UR. For more information, contact Lori Englund at 334-5744, or lenglund@frontiernet.net or visit www.rochesterastronomy.org.

Fri 12 ASTRONOMY WINTER LECTURE

7:30 PM, RIT Gosnell Hall A-300 Lecture Hall. ASRAS member Uwe Unrath will speak on “The Lifecycle of Stars”. For more information, contact Lori Englund at 334-5744, or lenglund@frontiernet.net or visit www.rochesterastronomy.org.

Mon 15 RAS NEWSLETTER DEADLINE

Deadline for events and articles the April, 2010 issue. To submit articles, contact the editor at editor@rasny.org.

Tues 16 MINERAL GENERAL MEETING

7:30 PM. at Brighton Town Hall, 2300 Elmwood Ave., in the Downstairs Meeting Room. Daniel Robertson, member and MCC Professor, Chemistry & Geosciences Dept., will speak on **Green Minerals**. For more information, call Nancy McCann at 395-1713 or mineralvp@rasny.org or check the Mineral Section Web page www.rasny.org/mineral.

Wed 17 RMSC SHULTZ LECTURE

7:30 PM Rochester Museum and Science Center
Karl Gebhardt, Ph.D.: Walk Softly When Exploring the Dark Side of the Universe: Black Holes, Dark Matter, and Dark Energy. Admission charge. Order tickets at (585) 697-1942.

Wed 24 RAS BOARD MEETING

7:00 PM Brighton Town Hall 2300 Elmwood Ave. in the downstairs conference room. Everyone is welcome.

Wed 24 LIFE SCIENCES HERBARIUM

10:00AM – 2:00 PM Life Sciences section will hold a workshop at the RAS Herbarium, located in the basement of the Rochester Museum and Science Center (RMSC). If you plan to attend the workshop, please send an RSVP to Elizabeth Pixley. Then, at RMSC, go to the front desk and ask staff person there to call ext. 368, the phone in the Herbarium. For more information, contact Elizabeth Pixley, herbarium curator (334-0977 or epixley@rochester.rr.com).

APRIL EVENTS

Thurs 29 BURROUGHS AUDUBON NATURE CLUB LECTURE & DINNER

7:00 PM, BANC invites you to a buffet dinner followed by talk by Michael Grenier about his experiences as a volunteer at the Byron paleontological (Ice Age) site. For details see <http://bancny.org/2010%20Annual%20Banquet.pdf>

Fri 30 RAS SPRING LECTURE

Save the date; see notice above.