



Newsletter

Of the

New York Microscopical Society

1 Prospect Village Plaza
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Clifton, New Jersey 07013-1918
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May 2010

N.Y.M.S. (973) 470-8733

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Meeting Announcement

New York Microscopical Society, 2010 Spring Lecture Series

Sunday, May 30, 2010, Lecture starts at 2:00 P.M.
NYMS Headquarters, Clifton, NJ

Micro Structures in Meteorites and their Relation to the Formation of the Solar System

By Derek Yoost

Did you ever wonder how Scientists know how the solar system formed and its age? Tonight we will look at some of the meteorites that show interesting structures under magnification and how they relate to the large scale formation of our Sun and solar system.

Most of these meteorites are about 4.5 Billion years old, and come from the very earliest stages of solar system formation. Meteorites represent the ONLY samples that we have preserved for study from that long ago time. The meteorite specimens that were used for the lecture will be at the meeting for inspection.

This PowerPoint presentation was put together using several different microscopes, lighting schemes and cameras.

I began collecting a few meteorites when I was 9 years old. I would go to Jim's Gems (A Rock Store in the 1980's) on Rt 23 in Wayne and I would buy minerals, fossils, and sometimes meteorites. Then in 1995 I purchased a Meteorite collection from a friend that started an obsession. Now the Meteorite collection has over 350 different falls and finds, specimens from large impact structures on Earth, and historical meteorite memorabilia. I do all my own meteorite prep work and curating.

Building opens at Noon. Following the meeting, NYMS members and their guests are welcome to join the speaker for Dinner at a selected, local restaurant. Please contact Roland Scal (rscale@qcc.cuny.edu; 718-631-6071) by noon on Thursday, May 27th to RSVP for dinner.

Imaging & Viewing Hydra in a Natural State



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Dues and Addresses

Please remember to mail in your Dues to Mary McCann, Membership Chair (see this page for address).

Junior (under age 18) \$10 Annually

Regular \$30

Student (age 18 or above) \$20 Annually

Supporting \$60 Annually

Corporate (includes one advertisement in NYMS News) \$175 Annually

Life \$300 (payable within the year)

To avoid missing notices:

Notify Mary and me if you have changed your address, phone or email.

The Mission of the New York Microscopical Society

is the promotion of theoretical and applied microscopy and the promotion of education and interest in all phases of microscopy.

Alternate Meeting Notifications

Please note that due to time constraints in publishing, some meeting notices may be available by calling Mel Pollinger at 201-791-9826, or by visiting the NYMS website.



From The Editor...if you have email:

Getting the newsletter by email means you receive bonus files that cannot be sent by "snail mail." Even if you continue your USPS delivery of the newsletter, NYMS needs your email address for reporting priority events and special news. Being able to contact you by email means better communication between us.

To Order Your NYMS Lapel Pins



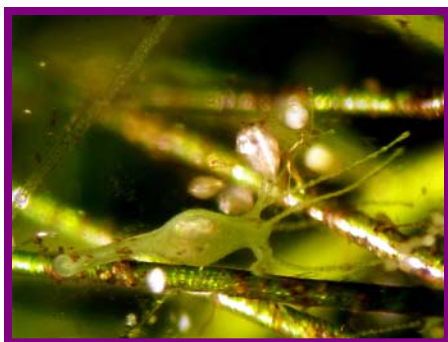
Send a check in the amount of \$12.00 per pin to
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c/o Mel Pollinger, 18-04 Hillery Street,
Fair Lawn, NJ 07410. To avoid shipping & handling charges, pins may be purchased directly at any NYMS meeting for \$10.00.

Buy and Read a Good Book on Microscopy.



Hydra (Coelenterata)

The most well-known animals from the Coelenterata family are the marine anemones, coral and jellyfish, and most of the family does make its home in the oceans of the world. There are however, a number of these animals that live in freshwater. These are much smaller and less colorful than their more popular marine relatives. Most are less than an inch tall. Hydra have a saclike body and a circle of tentacles at around the body opening. This opening is used for both taking in food and eliminating wastes. They use the tentacles for catching prey. The tentacles have special cells called nematocysts, which can either sting or stick to the prey. Hydra eat one celled animals, small crustaceans, worms, insects and other tiny animals. They are also reported to eat small fish fry in the aquarium, where they do occasionally show up. These animals can reproduce asexually by forming buds or sexually. When reproducing sexually they are usually hermaphroditic and lay a single egg. (excerpted from Natural Aquariums)



The image is that of a living Hydra vertis, from Ramapo Lake in Oakland, N.J. This one has captured, killed and ingested a tiny crustacean, seen haplessly being

digested. Other crustacea are seen swimming about, waiting to become a meal. The



hydra's body is about 3mm in length, with tentacles that can



stretch considerably more than its body length. The



image was taken at 10x magnification with an Olympus 7070 digital camera in program mode. The camera was attached via adapter, to one eyepiece of a B&L Stereozoom. The F.O. illumination and sample container are shown on page one. Mel Pollinger

VOLUNTEERS NEEDED FOR THREE NYMS EVENTS IN CENTRAL PARK!

The Society seeks volunteers to assist the public in using its portable battery-operated compound microscopes and 20x inspection microscopes during three of Central Park Conservancy's outdoor programs this summer. The only requirement is a desire to help visitors to the Park (especially children) use lenses to examine local flora or fauna close up. That's all that's expected of us! Other participants at these events will present basic information about biology and botany.

Saturday, May 15 - "On A Wing" (focusing on winged creatures), near Belvedere Castle.

Saturday, June 26 - "Family Fishing Festival" (focusing on aquatic creatures), near the Harlem Meer

Sunday, July 18 - "Discover the Glade" (focusing on botany), in The Peter Jay Sharp Children's Glade

All information about these events (with a link to NYMS's website) is or will be available on Central Park Conservancy's online calendar, <http://www.centralparknyc.org/>

To find out more about our Society's involvement with free public programs organized by the Central Park Conservancy, or to sign up to volunteer a few hours at any of them, please contact Guy De Baere (guydbaere@aol.com / 347-668-4798) and/or Jean Portell (jeandp@aol.com / 718-643-1222). Don't wait! Summer is coming, and we'll soon be introducing youngsters to microscopy *al fresco*.

NYMS Microscope Day At John Jay

The 8th Microscope Day at John Jay was a great day for learning neat technical info and jargon ('swarfs!'), trying out several exhibited instruments and schmoozing with their company reps, networking with old friends and making new ones (a few of the latter offered to help at NYMS events in Central Park this summer!), enjoying a free lunch, and generally having a fine time. (cont'd P4)

(cont'd from page 3)



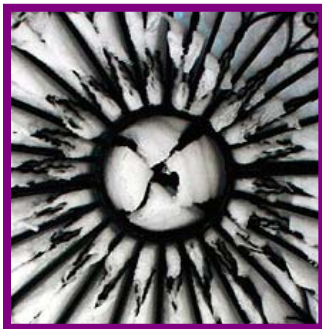
Despite getting his hand sawed off



and reattached, Pete succeeded in organizing another well-received collaboration between NYMS and John Jay College. Nice work!

By Jean D. Portell

Answer to April 2010 Mystery Photo



Dome section of a gazebo. Not one guess. Maybe these are too difficult. How about sending your mystery photo to me for inclusion in our newsletter?

Mystery Photo for April 2010



Want to take a guess? Send it to me by email or call me: pollingmel@verizon.net, (201) 791-9826

Ye Microscope

"In Commendation of ye Microscope"
Of all the Inventions none there is Surpasses
the Noble Florentine's Dioptrick Glasses
For what a better, fitter gift Could bee
in this World's Aged Luciosity.
To help our Blindnesse so as to devise
a paire of new and Artificial eyes
By whose augmenting power we now see more
than all the world Has done Before.
— Henry Powers 1664

Got something you want to sell, trade or publish in the Newsletter and/or on the website? Write, call or send an email message to:
201-791-9826 or pollingmel@verizon.net (images accepted)
or

Mel Pollinger, Editor
NYMS Newsletter
18-04 Hillery Street
Fair Lawn, NJ 07410

A Thank you to Walter W. Aschoff for his suggestion to improve page two and thereby have more room for more stuff.

A NYMS Summer Picnic is in the works for Sunday, August 29, 2010. Jan & Wiebke Hinsch are graciously opening their home to us for this event. More information will be available in the Summer edition of the newsletter.

Education Chairperson Don O'Leary is planning a "Care of the Microscope" workshop this Summer. Look for the details in the Summer edition of the Newsletter.

