

Newsletter

Of the

New York Microscopical Society

1 Prospect Village Plaza (66F Mt. Prospect Avenue) Clifton, New Jersey 07013-1918 GPS: Latitude 40.8648N, Longitude 74.1540W



April 2017

Editor: (201) 791-9826

Volume 11 (31) Number4

New York Microscopical Society: Members Day

<u>Members & Guests: Swap/Sell</u>, or Just Enjoy the Day at NYMS in Clifton (Microscope lab and library will be available for use.) Sunday April 30, 2017, Noon to 5 pm (setup 11 am)

Here is your opportunity to sell something you no longer need, or acquire some microscopy-related item(s) you would like to have.

There will also be available for sale by NYMS various items in our basement work/storage areas. Such tours will be going on during the day. Feel free to make offers if you find something you like. All NYMS events provide opportunities for information interchange between members and also their guests.

Guests are encouraged to join the New York Microscopical_Society and enjoy our events, use our library and equipment and meet other members.

<u>Set up at 11am, doors will be open to all others at Noon</u>. Refreshments will be available. For additional information, please contact Mel Pollinger (pollingmel@optonline.net) or call (201)791-9826, between 9am & 9pm before the day of the meeting, or by cell: (201) 314-1354, between 9am & Noon (meeting day only).



Rutile Crystals in Quartz, field width 10mm; photo by Mel Pollinger

Save a Tree: Get The Extended Newsletter: By Email Only

New York Microscopical Society Board of Managers

(Officers Term 2016-2017)

President, John Scott, nyconsnfdn@aol.com; (646)339-6566, Curator, Archivist. Manager 2015-18 Vice President, Program Chair, Roland Scal, rscal@qcc.cuny.edu; (718)631-6071, Manager 2016-2019 Treasurer, Mel Pollinger, pollingmel@optonline.net; (201)791-9826, Facilities, Editor, Librarian. Mgr 2014-17 Secretary, 2015-2018 Lou Sorkin entsult@aol.com; (914)939-0917, Manager, 2015-18, Manager, 2015-2018 Guy deBaere guydbaere@aol.com; (347)668-4798 Outreach Program Manager, 2015-2018 John A. Reffner jareffner@cs.com; (203)358-4539 Past President Manager, 2014-2017 John R. Reffner, Jr. jrr11p@gmail.com; (215)527-1882 Manager, 2014-2017 Andrew J. Winter, Education Chair Manager, 2016-2019 Brooke Kammrath bkammrath@newhaven.edu; (203)931-2989, Membership Chair Manager, 2016-2019 Seymour Perlowitz perlowitzs@hotmail.com; (718)338-6695 Manager, 2016-2019 Peter Diaczuk pedicoplanb@gmail.com;; (212)237-8896, Past President For additional information contact the Editor: Mel Pollinger at (201) 791-9826, pollingmel@optonline.net

Dues and Addresses Please remember to mail in your Dues to: Mel Pollinger Treasurer, NYMS 18-04 Hillery St. Fair Lawn, NJ 07410-5207

Junior (under age 18) \$10 Annually <u>Regular</u> \$30 <u>Student (</u>age 18 or above) \$20 Annually <u>Supporting</u> \$60 Annually <u>Corporate</u> (includes one advertisement in NYMS News) \$175 Annually <u>Life</u> \$300 (payable within the year) To avoid missing notices: Notify Mel Pollinger if you have changed your address, phone or email.

Awards Given by the New York <u>Microscopical Society</u>

The New York microscopical Society takes great pleasure in recognizing and rewarding individuals who have contributed to either the activities of the society or to furthering microscopy. These awards are described in our website and in a pdf file for our email newsletter recipients. All members are eligible to nominate individuals for these various awards, and are encouraged to do so. John A. Reffner, Awards

Committee Chairperson

Awards Committee Chair: John A. Reffner Members

Jan Hinsch Peter Diaczuk Angela Klaus John R. Reffner

To Order Your NYMS Lapel Pins Send a check in the amount of \$12.00 per pin to: New York Microscopical Society 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.



Mel Pollinger, Editor 18-04 Hillery St. Fair Lawn, NJ 07410-5207



The Mission of the New York Microscopical Society is the promotion of

theoretical and applied microscopy and the promotion of 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 emailing: pollingmel@optonline.net

Please remember to pay your dues

Buy and Read a Good Book on Microscopy.

From page 1: Doors will be open at Noon. Refreshments will be available. For additional information, please contact John Scott <u>nyconsnfdn@aol.com</u>; (646)339-6566, or Mel Pollinger (pollingmel@optonline.net), (201)791-9826, or by cell: (201) 314-1354 (on meeting day only)

NYMS Outreach report

At the Brooklyn Marine Stem Education Alliance meeting attended 10 March 2017, I made the following organizational contacts, they expressed a high degree of interest of NYMS participation in their events:

The WATERFRONT ALLIANCE, Captain Margaret Flanagan, Director of Education and Outreach. They have a festival in Washington Heights - Inwood 15 July 2017, for more information see

www.waterfrontalliance.org

The New York State Marine Edicational Association (NYSMEA) Lane Rosen President. In the past, we have participated in several of their events; the upcoming one is on May 6th "It's My Estuary Day" in Kaiser Park, Coney Island. For more information see www.nysmea.org

Billion Oyster Project (BOP), founded by the Urban Assembly, the NewYork Harbor School, on Governor's Island. They are having an event June 23rd, Contact: Robina Taliaferrow. More information to follow.

City Parks Foundation, Luis Gonzalez, Program Manager, Seeds to Trees & Coastal Classroom. For more information see <u>www.CityParksFoundation.org</u> Respectfully submitted,

Guy de Baere, guydbaere@aol.com

Sent in by Richard Howey:

Gorgeous photographs revealing hidden dimensions of living plants under ultra-violet light.

http://www.boredpanda.com/i-photograph-flowers-hidden-light-

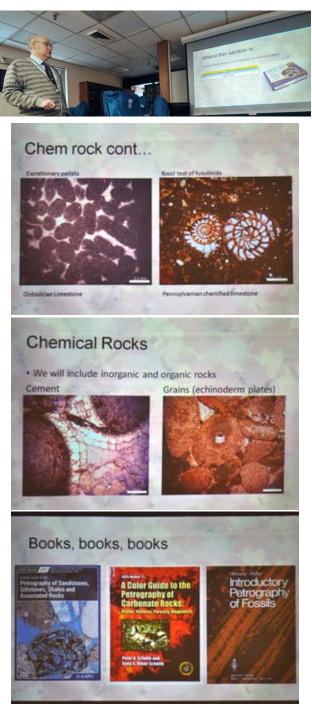
with/?utm_source=newsletter&utm_medium=link&utm _campaign=Newsletter

Mystery Photo for Apr 2017



Answer on pg 4

<u>March 2017 presentation</u>; A review, by Roland Scal, Ph.D., of the technique and its application to the study of sedimentary rocks.



Earthrise from the Lunar Orbiter https://www.youtube.com/embed/dEvOscpiNc

Upcoming events are noted on the NYMS website and the NYMS Newsletter Supplements

Visitors Always Welcome to NYMS

Although most of our lecture meetings, workshops and classes are held in the NYMS Clifton facility on the last Sunday of the month, the building may be opened for special purposes at other times, by appointment only. For such an appointment, please contact Mel Pollinger by phone at (201) 791-9826, M-F noon to 9:30pm, or by email at pollingmel@optonline.net.

From The Editor...

if you have an email address: Getting the newsletter by email means you can receive an <u>extended pdf version</u> that cannot be sent by "snail mail." Even if you only continue your USPS delivery of the newsletter, NYMS needs your email address for reporting priority events and special news. Being able to contact you quickly by email means better communication between you & NYMS= Mel

Need to use a Microscope or Book?

The various microscopes and library are presently for use on the main floor of the New York Microscopical Society building in Clifton, N.J. To arrange for a visit, please contact John Scott, or Mel Pollinger (see pg 2 for details)

Microscope Cleaning Kit: Only 4 left

A complete set of tools and accessories to keep your microscope in optimum operating condition. The kit is put together by our previous Curator/Educational Chairman, Don O'Leary, and available directly from NYMS, while they last, for only \$40.00 plus shipping & handling, or may be purchased at a meeting. Call or email Mel Pollinger for details (see page two for contact numbers).

NYMS microscope slide collections are available for study at meetings and by appointment.

Errata: On page 7 of the Feb 2017 extended Newsletter; The title section reads "Feb 22," which should have read as Jan 22. Also, the March 2017 supplement page's inadvertently unlabelled photomicrograph is of cyanocobalamin crystallizing from an aqueos solution

Art paper hornet's nest made by hornets.

ANSWER TO MYSTERY PHOTO ON PG3.

Check this site. Interesting experiment. <u>http://www.thisiscolossal.com/2016/04/rainbow-wasps/</u> Website emailed to NYMS by Jeff Glover From: <u>Richard Howey</u> Subject: Extraordinary echinoderms http://echinoblog.blogspot.com/

From: Richard Howey

Subject: Stunning deep sea life <u>http://www.huffingtonpost.com/entry/jellyfish-ufo-</u> <u>american-</u> <u>samoa_us_58b604d6e4b060480e0cb577?m33vbp</u>

epmuzddkj4i&slideshow=true#gallery/55cb7bcce4 b0f1cbf1e7092f/0

From Jeff Glover: (micro-mineral imaging) Here is the site on Facebook:

https://www.facebook.com/laurent.kbaier.3?hc_ref=SEA RCH

And / Or

https://www.facebook.com/laurent.kbaier.3/media_set?s et=a.10207853680367810.1073741827.1469517150&ty pe=3

Sent in by Richard Howey Subject: The Harbin Ice Sculpture Festival---Amazing http://rense.com/general96/icefestivalchina.pdf

NYMS Meeting Dates

Most lecture meetings of NYMS are usually held in Clifton on the last Sunday of the months of Jan., Feb., Mar., May, Sep., Oct. Exceptions and additions will be noted in the Newsletter, or by email..

Additional Historical NYMS Supplements

Email Newsletter recipients can also receive copies of NYMS Newsletter pdf back-Issues from 2007. Copies of older newsletters will be included in the supplement section as I convert them.

Attention NYMS Members

Got something to sell? Article to publish? Pictures for the newsletter? Looking to buy something? Want to use the library? Want to use a NYMS microscope? For any of the above, contact the Editor, Mel Pollinger.





Supporting Member

A Not-For-Profit Educational Organization, (nyms.org) Page 4 of 4

N.Y.M.S. SUPPLEMENT SECTION April 2017

In This Section:

- ♦ Roland Scal, March Meeting
- ♦ Estuary Day, May 6, 2017
- ♦ BioBus events flier
- **NYMSOC Ashby**
- **O Historical NYMS Bulletins**
- **Oirections to NYMS**
- **ONYMS Sales Items**
- Membership Application
- A Last pageimages

NYMS Lecture Meeting on March 26, 2017: Petrography; A review by Roland Scal, Ph.D

Why study sedimentary rocks?

- . They are the key to understanding past environments on earth
- . They hold the fossil record of life
- · They hold the majority of earth's natural resources
- They may also contain a record of the post depositional changes that have altered the rock since it formed (diagenesis)

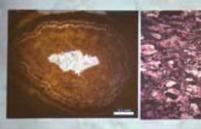
Petrography: the technique and its application to the study of sedimentary rocks

What a thin section is...

Roland Scal Dept. of Biological Sciences and Geology Queensborough Community College, Bayside, NY

Pg.1 of 4

So we may be seeing into a slice of time



We are considering



P. Stoffer, Geology Cale

What a thin section is...

. A thirty micron slice (or 0.03mm) of rock on a glass





Making a thin section: cutting a chip

· Once the rock is selected, it is sized with a trim saw





Making a thin section





Henry Clifton Sorby (1851)



Sorty with his South & Back "Sent Smaller Model" adversarie Microscope porthased 1888





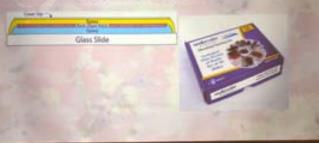
Sorby slide, Correlian of Seamer, E. Yorkshire, Upp. Jonesee





What a thin section is...

. A thirty micron slice (or 0.03mm) of rock on a glass



A well equipped lab!!!!!!!!!!!



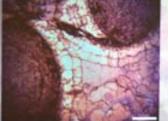


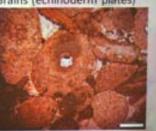
Chemical Rocks

· We will include inorganic and organic rocks

Cement

Grains (echinoderm plates)

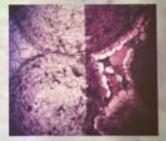


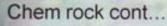


Staining and or cover slipping

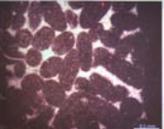
· Limestones stained with Alizarin red S and potassium ferricyanide





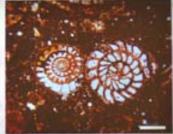


Extretionary pellets

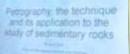


Ordovician Limestone

lossil test of fusulinida



Pennsylvanian chertified limestone

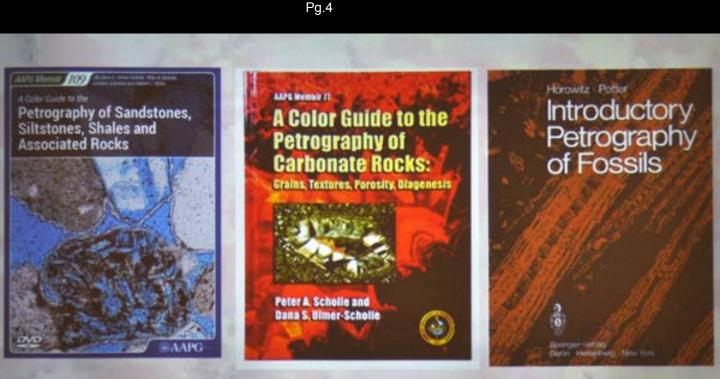






References from Internet

- www.cmc-concrete.com/petrography.html-shows a huge lab
- http://www.usu.edu/westcent/microstructure_food/Cheese.htm





It's

Estuary Day

Kaiser Park Saturday, May 6 8:00am-3:00pm

Join us at Kaiser Park!

On Saturday, May 6, 2017 from 8:00 a.m.-3:00 p.m. you are invited to a day of service, learning and celebration along the Coney Island Creek.

Schedule

8:00 a.m. Orientation and Education Stations

- Underwater Robotics
- Oyster Monitoring
- Diving Demonstrations
- Water Chemistry
- Seining
- Microscope Viewing of Plankton
- Environmental Organizations and Table Top Displays
- 9:30 a.m. Dedication and Host Talks
- 10:00 a.m. Coastal Clean Up
- 12:00 p.m. Lunch, Networking, Entertainment, More Service and Learning

For more information, please contact John Dewey High School's Lane Rosen: ros7646@aol.com (732) 766-9060

This free event is organized by the **Cultural Research Divers, BMSEA (Brooklyn Marine STEM Education Alliance)**, and **NYSMEA (NY State Marine Education Association)**, and hosted by **Making Waves**, a coalition of stewards caring for Coney Island Creek and Kaiser Park.

Partner Organizations LIST TO BE CONFIRMED

American Littoral Society **Billion Oyster Project** Brooklyn Marine STEM Education Alliance Captain Mike's Diving City Parks Foundation Education, Coastal Classroom Program Community Board 13 Coney Island Beautification Project Coney Island History Project Coney Island Explorers Coney Island Girl Scouts & Boy Scouts Cultural Research Divers Edward R Murrow HS Gotham Whale Historical Diving Society Horseshoe Crab Monitoring of NYC Parks, NRG IS 228 David A Boody JHS IS 239 Mark Twain IS 281 Joseph B Cavallaro JHS John Dewey High School Kingsboro community college. Kingsboro Early College Secondary School (6-12) Local Dockbuilders Diving Union 1556 New York State Marine Education Association NYC Eco-Schools-National Wildlife Federation NYC Department of Environmental Protection NYC Department of Education, STEM Program NYC Department of Sanitation NYC Parks PS 188, Michael E Berdy PS/IS 288 Shirley Tanyhill K-8 Rachel Carson HS of Coastal Studies South Brooklyn Steam Engineering Pipeline STEMPilot WCS New York Aquarium & NY Seascape Waterfront Alliance William H Maxwell CTE HS and more!

Catalyst is a program of Partnerships for Parks, a joint program of City Parks Foundation and the NYC Department of Parks & Recreation. Catalyst is made possible with funds provided by the New York State Department of State under Title 11 of the Environmental Protection Fund.

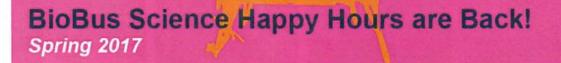












Visit biobus.org/events for more information, free registration and other programs, including weekend events throughout the spring and summer!

BioBus.org/events

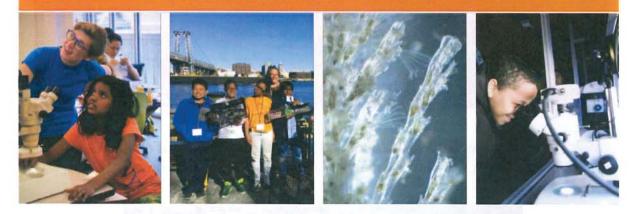
Monday, April 24, 6:30pm BioBus Science Happy Hour @ BioBase Harlem

Wednesday, May 17, 6:30pm BioBus Science Happy Hour @ Lower Eastside Girls Club

> Save the Date: Wednesday, June 28, 6:30pm *A Special BioBus Event* Details To Be Announced @ BioBase Harlem

BioBus

After School & Summer Science Spring / Summer 2017



After School - Lower East Side Wednesdays, April 19 – June 21, 3:30-5:30pm After School Classes @ Lower East Side Ecology Center

BioBus.org/LES

Summer Camp – Harlem Week 1: July 17-21 8:45am - 3:00pm Week 2: July 24-28 8:45am - 3:00pm (girls only)

BioBus.org/SummerCamp

Applications now open

Space is limited, apply today!

The members of the New York Mineralogical Club thank all their friends and colleagues in the New York Microscopial Society for their help in providing content about George E. Ashby on this special CD-ROM.

NEW YORK MICROSCOPICAL SOCIETY BULLETINS

The following original-print bulletins can be purchased by NYMS members. The bulletins are limited in number and can be purchased, while they last, at \$2.00 each, 8 copies for \$10 plus \$2.00 S&H. Also, in limited supply are original-print NYMS journals, while they last at \$5.00 each. The journals date back to 1896. The bulletins, Journals and other out-of-archive publications may be viewed at the NYMS Library in our building in Clifton, New Jersey. If interested in owning a part of NYMS history, please contact Mel Pollinger by email pollingmel@optonline.net or by daytime phone at (201) 791-9826

Vol. 1 New York, N. Y., January, 1937 No.3 COLLECTING RECENT DIATOMS By JOSEPH F. BURKE Vol. 1 New York, N. Y., February, 1937 No. -4 PREPARING RECENT DIATOMS By JOSEPH F. BURKE Vol. 1 New York, N. Y., November, 1937 No.5 MOUNTING RECENT DIATOMS By JOSEPH F. BURKE Vol. 3 New York, N. Y. June, 1951 No: 1 PREP ARA TION OF METAL FOR MICROSCOPICAL EXAMINATION by F. Gordon Foster Fellow, New York Microscopical Society Vol. 1 New York, N. Y., December, 1936 No.2 MAKING A ROCK SECTION By GEORGE E. ASHBY Vol. 1 New York, N. Y., February, 1936 No.1 THE MYCETOZOA By ROBERT HAGELSTEIN Vol. 2 New York, N. Y., April, 1944 No.1 THE HISTORY OF THE MICROSCOPE **By ROBERT HAGELSTEIN** Vol. 1 New York, N. Y., January, 1940 No.6 MOUNTING INSECTS BY THE PRESSURE METHOD, By Roy M. ALLEN



Directions to NYMS Headquarters

One Prospect Village Plaza (66F Mount Prospect Avenue) Clifton, NJ 07013 GPS: Intersection of Colfax & Mt. Prospect: Latitude 40.8656 N, Longitude 74.1531W, GPS: Our building: Latitude 40.8648 N, Longitude 74.1540 W

From George Washington Bridge:

Take Interstate Route 80 west to Exit 57A, Route 19 South. Take Route 19 to Broad Street and continue two lights to Van Houten Avenue. Turn Left. Go to second light, Mount Prospect Avenue and turn left. Building 66F is on the left side , one and a half blocks from Van Houton.

From Lincoln Tunnel:

Follow exit road to NJ route three west. Continue to Bloomfield Avenue exit. Turn right to Circle and go three quarters to Allwood Road West. Mount Prospect Avenue is a few blocks on the right (a small street) Turn right and go to first light (Van Houton) continue. Building 66F is on the left side , one and a half blocks from Van Houton.

From North:

Take Garden state Parkway South to Route 46 Clifton Exit. On 46 Make second exit to Van Houton Ave. Continue to third light Mount Prospect Avenue and turn left. Building 66F is on the left side , one and a half blocks from Van Houten.

From Route 46 coming from west:

Take Broad Street Exit in Clifton and follow Directions above from GW Bridge.

<u>From route 46 coming from East:</u> Take Paulson Avenue Exit in Clifton and follow to Second light, Clifton Ave turn right. Go to next light, Colfax, turn left, go three blocks and turn right on Mount Prospect Ave.. Building 66F is half block on right.

Public transportation from NY:

Take NJ Transit train from Penn Station to Secaucus Transfer Station. Change trains to Bergen Line to Clifton (call NJ Transit for schedules). From Clifton Station cross under tracks to first street and go left one block to Mount Prospect Street, turn right and Building 66F is one half block on Right.

If you plan to come by bus or train, please copy the links below into your browser:

http://www.njtransit.com/sf/sf_servlet.srv?hdnPageAction=TripPlannerItineraryTo http://www.njtransit.com/sf/sf_servlet.srv?hdnPageAction=BusSchedulesP2PTo http://www.njtransit.com/sf/sf_servlet.srv?hdnPageAction=TrainTo

New York Microscopical Society Items For Sale

29-Feb-2016

N.Y.M.S. Microscope Covers

Item #	Size	Member Price	List Price
MT-003	Small Microscope or Stereo, 15"W x 17"H	\$18.00	\$20.00
MT-004	Lab Microscope or Large Stereo, 20"W x 18"H	\$23.00	\$25.00
MT-005	Large Lab Scope, 22"W x 21"H	\$28.00	\$30.00
MT-009	Large Lab Scope with Camera, 9"W x 19"Deep x 23"H	\$31.00	\$33.00
MT-010	Universal Scope with Camera, 11"W x 25"Deep x 23"H	\$36.00	\$40.00
MT-012	X-large Scope	\$45.00	\$50.00
	N.Y.M.S. Microscopes (see below for im	ages)	

185	Monocular Dissecting Microscope	\$85.00	\$99.00	
131 H.S. Student Microscope		\$190.00	\$245.00	
131-FLU H.S. Student Microscope (Fluorescent)		\$200.00	\$255.00	
125-LED	H.S. Student Microscope (LED)	\$240.00	\$309.00	
Other Items				
	NYMS Glossary of Microscopical Terms	\$30.00	\$35.00	
	NYMS Patch	\$5.00	\$7.00	
	Microscope Cleaning Kit*	\$40.00	\$45.00	
	NYMS Lapel Pin	\$10.00	\$15.00	



NYMS Engraved Pen



Model 131: Tungsten Model 131-FLU: Fluorescent





\$10.00

\$40.00

\$7.00

\$20.00

Model 125-LED Cordless

Model 185: 20x

New York Microscopical Society



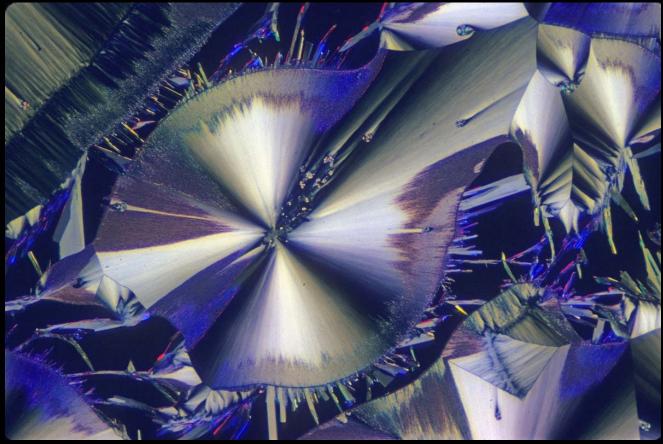
Please Print

Please send with payment directly to: New York Microscopical Society c/o Mel Pollinger, Treasurer 18-04 Hillery Street Fair Lawn, NJ 07410-5207

I hereby apply for membership in the New York Microscopical Society

		Nickname
Phone		E-Mail
Phone Would you prefer t		
On what topic are y		
Education D Librar Who referred you to Academic and Hon Degree	y □ Finance □ Curator □ F NYMS? orary Degrees: Conferring Institution	ttees? Yes No Awards Membership lousing Program Publications History Date
•		
	ntific Societies	
I have enclosed a c \$30, Supporting \$60 advertisement in NY I understand portion	nal if over 18) heck for \$ to cover 1), Life \$300(payable within 1 (MS News), Junior \$5 (under ns of the above information 1	ny application fees for membership {Annual he year), Corporate \$175(includes one 18 years old)}.Student (over 18) \$20 nay be used in NYMS publications. phone included in the NYMS Directory.
Signature		Date

Signature......Date..... NYMS Headquarters: One Prospect Village Plaza, Clifton, NJ 07013 Telephone (973) 470-8733



Insulin, 100x (P1642708)a, Polarized light photomicrograph by Mel Pollinger

