



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



October 2018

Editor: (201) 791-9826

Volume 12 (32) Number 7



New York
Microscopical
Society

Microscopical Explorations Day at the American Museum of Natural History

New York Microscopical Society October Event: Microscopical Explorations Day at the AMNH

This will be a two part day.

Part 1: As part of the American Museum of Natural History's Urban Advantage programing, the Museum will host Family Science day for the families of students whose schools are participating in Urban Advantage. The New York Microscopical Society will collaborate by providing some of the volunteer support for facilitating a Microscopical Observations experience. We will have visible light dissection, compound, and projection microscopes, and a variety of natural specimen objects to examine closely. Our objects will include plankton, insects, fossils, plants, and more.

Part 2: From 4:00-5:30 NYMS will be the sole host of the Microscopical Observation experience, and the doors will be open to all museum visitors and NYMS members.

Date:
Sunday, October 14, 2018

Time:
1:00-4:00 - NYMS members volunteer to help with microscopical observations for Urban Advantage program families
4:00-5:30 - NYMS members host and enjoy microscopical observation

Location:
American Museum of Natural History
Rose Center Classroom 2, Second Floor

Enter through the Main Security Entrance below the main stairs
on Central Park West. See Map on page 2.



See Page 3 for maps

New York Microscopical Society Board of Managers

President and Secretary, 2018-2019, Brooke Kammrath, bkammrath@newhaven.edu; (203) 931-2989;
Manager 2016-2019, Membership Chair

Vice President, 2018-2019, John Scott, nyconsnfdn@aol.com; (646)339-6566;
Manager 2016-19, Program Chair, Curator, archivist, facilities assistant

Treasurer, 2018-2019 Mel Pollinger, pollingmel@optonline.net; (201)791-9826;
Manager 2017-2020, Newsletter Editor, Librarian, Facilities, Membership

Manager, 2017-2020 Lou Sorkin entsult@aol.com; (914)939-0917, Webmaster Pro tem

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Manager, 2016-2019 Peter Diaczuk pedicoplanb@gmail.com; (212)237-8896, Past President

Manager, 2016-2019 Jay Holmes, jholmes@igc.org; (212)769-5039, Outreach program assistant

Manager, 2018-2021 Julie Cohen, julcoh3@gmail.com; (516) 608-1875

Manager, 2018-2021 Sally Warring, sallywarring@gmail.com; (917) 755-4110

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

Regular \$30

Student (age 18 or above) \$20

Annually

Supporting \$60 Annually

Corporate (includes one
advertisement in NYMS News)

\$175 Annually

Life \$500 (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 Microscopical Society 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

John R. Reffner



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

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.



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 emailing:
pollingmel@optonline.net

Please remember to pay your dues

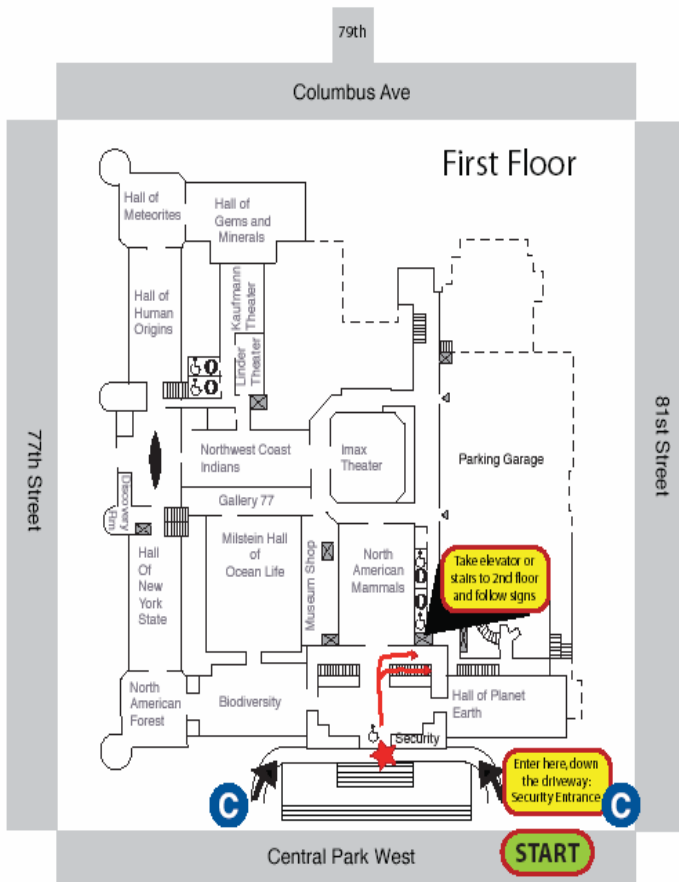
Buy and Read a Good Book on Microscopy.



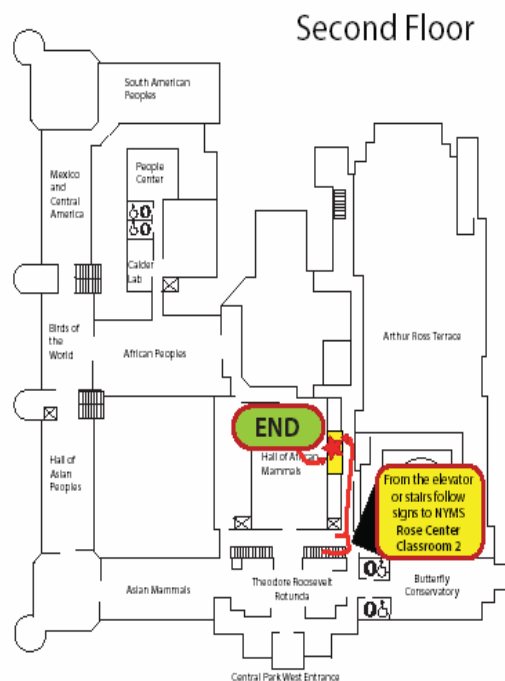
New York
Microscopical
Society



AMERICAN MUSEUM OF NATURAL HISTORY



Enter the Museum through the **Security Entrance** located beneath the main stairs on **Central Park West between 77th and 81st Streets**. Take the elevator or the stairs to the second floor and follow the signs.



Meeting Details:

Date: Sunday, October 14, 2018

Time: 1:00 to 4:00 (helping UA event), 4:00-5:30 NYMS event

Location: Rose Center Classroom 2, Second Floor

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 in the months of Jan., Feb., Mar., May, Sep. & Oct. 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 **extended pdf version** 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)

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

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.

Upcoming NYMS events are noted on the NYMS website and in the NYMS Newsletters both printed and email versions.

Career Development Opportunities at EASWORKSHOPS

Monday, November 12, 2018, 1:00 PM to 3:00 PM

Title: Effective Communication Skills for Professionals in Chemistry Presenter: Donald

Truss, Executive Recruiter *Learn This Valuable Perspective of The Interview Decision Making Process* Come and learn the secrets to making the interviewer comfortable and capable of understanding you. Learn how the proper use of patience and timing will increase the probability of receiving an offer of employment. During this interactive session, we will discuss how to understand what the interviewer is feeling during the interview, and how you can guide his or her feelings in a way that improves communication. Don't miss this opportunity to get an insiders view of the effective processes involved between interviewer and interviewee. Come with an open mind and be prepared to be surprised! Don't miss this event where you can expand your network, make new friends, share knowledge with your peers, and hear highly relevant and beneficial insights and perspectives from an expert in the employment marketplace.

Tuesday, November 13, 2018, 1:00 PM to 3:00 PM Title: **The Importance of an Impressive Social Profile, Whether You are Looking for Your Next Career Move or Not.** Presenter: Suzanne M. Stingo, SMS Social Media Strategies

Whether you are looking for your next career move or looking to connect with more business counterparts, LinkedIn is where your profile needs to shine! This workshop will help you get your profile be the BEST version of YOU it can be! Be an "All Star" on LinkedIn and learn how to use the platform in all stages of your career!

Eastern Analytical Symposium & Exposition | 732-449-2280. Our workshops include topics to help develop your professional skills, as well as to hone other skills critical for career success. These **workshops are open to all registered attendees; advanced registration is requested.**





N.Y.M.S. NEWSLETTER

SUPPLEMENT

October 2018

Crustacea: Copepoda:

Cyclops

sp. female with egg sacs.

March 8, 2010, freshwater lake

Image by A.W. Thomas

(Reprinted)

Jay Holmes Micro Article

EAS Notifications for Nov 2018

NYMS Membership Application

NYMS Items for Sale

Directions to NYMS in Clifton, NJ

NYMS Gallery

Micro in the Metropolis

For a chance to enjoy a look at the small things around us, join the River Project at their annual “Release of the Fishes” event. Part of the festivities will be a plankton station where you will have a chance to use some microscopes to observe some fresh plankton from the Hudson River.

The event will also include a chance to see many larger organisms from the Hudson. It is a wonderful event for all ages. The River Project is on Pier 40 and has many large tanks where they host fish and crustaceans that they have collected from the River over the Summer. You will get a chance to see the fish from striped bass to sea horses and the large oyster tank. The fish are transferred to smaller containers and then young participants help carry them to the river to be returned for the winter.

The plankton station includes a chance to look at diatoms, small crustaceans and sometime marine worms. Join this event to take a look at the micro side of the metropolis.

- Jay Holmes



Main Identity

From: "Eastern Analytical Symposium & Exposition" <newsletter@eas.org>
To: <pollingmel@optonline.net>
Sent: Tuesday, September 25, 2018 4:10 PM
Subject: Chromatography Short Courses at EAS - There's Something for Everyone!



More CHROMATOGRAPHY at EAS

Check out these Short Courses & Technical Program

You won't want to miss these Chromatography Short Courses

Modern Size Exclusion Chromatography of Synthetic Polymers and Biopolymers

Monday, November 12, 8:30am - 5:00pm

Instructors: Howard Barth, Analytical Chemistry Consultants Ltd. and Brian Bidlingmeyer, Analytical Acumen, LLC

This one-day course covers the fundamentals and practice of size exclusion chromatography (SEC) of synthetic polymers and biopolymers with emphasis on the separation mechanism, average molecular weights and distribution, column calibration approaches, SEC methods development of organosoluble and water-soluble polymers, detection systems including viscometry and light scattering, and applications. Attendees will have an opportunity to discuss specific problems related to polymer characterization in general or SEC methods development or column calibration.

[Click here for more details](#)

Practical Gas Chromatography

Sunday, November 11 - Monday, November 12, 8:30am - 5:00pm

Instructors: Eugene Barry, University of Massachusetts and Thomas Brettell, Cedar Crest College

This two-day course presents the fundamentals of gas chromatography with an emphasis on practical applications for users and method developers. Topics to be covered include theoretical considerations, use of computer searches for literature references and methods of analysis, modern instrumentation, including inlet, column, and detector technology, and the applications of these to effective qualitative and quantitative analysis. The theoretical portion of the course will focus on using the fundamental understanding of the chromatographic process (limited number of equations and comparisons to extractions and distillations) to assist in obtaining a desired separation quality and run time. Modern instrumentation including split, splitless, on-column, and programmed-temperature inlets and electronic pressure control will be discussed. The proper selection of capillary columns to solve practical problems will be described, although the utility of modern packed columns will be briefly discussed. An emphasis will also be placed on detectors, including TCD, FID, ECD and GC/MS. Finally all this will be applied to practical problems in qualitative and quantitative analysis.

[Click here for more details](#)

Troubleshooting Chromatographic Systems

Tuesday, November 13 - Wednesday, November 14, 8:30am - 5:00pm

Instructors: Merlin Bicking, ACCTA, Inc. and Douglas Raynie, South Dakota State University

This two day short course provides guidance on identifying the causes of many chromatography problems, and offers tips for finding solutions and preventing future problems. Basic LC and GC components will be discussed, and helpful hints will be provided on how to avoid certain problems while maximizing the overall analytical efficiency in the laboratory. Students will learn about general troubleshooting strategies, instrument design issues, common symptoms, and common solutions to common symptoms. This seminar provides practical technical information that is not available from any other single source. [Click here for more details](#)

Returning Popular Chromatography Courses:

click on title to link to course description

- [*Getting the most from GC and GC/MS*](#) (11/11)
- [*Supercritical Fluid Chromatography \(SFC\): A Powerful and Greener Tool for Analytical and Preparative Separations*](#)(11/11-11/12)
- [*How Liquid Chromatography Works: Separation Principles Explained in Chromatograms*](#) (11/14)
- [*LC/MS: Theory, Instruments, and Applications*](#) (11/11-11/12)
- [*LC/MS Method Development for Small Molecule Pharmaceuticals*](#) (11/12-11/13)



Register Now



All Short Course take place at the Crowne Plaza Princeton Conference Center. You must register as a "Symposium & Exposition Conferee" or a "Full-Time Student Conferee" in order to take a short course.

Technical Program

these oral sessions:

Hear the latest chromatography topics at

- EAS Award for Outstanding Achievements in Separation Sciences, Honoring Christopher Pohl, Thermo Fisher Scientific (11/12 AM)
- The Current and Future Role of HILIC in the Separation World (11/13 PM)
- Modern Applications of Supercritical Fluid Chromatography (11/14 AM)
- Recent Advances and Applications of Multidimensional Chromatography (11/13 AM)
- New Developments in GC Analysis Capabilities (11/13 AM)
- Modern Advances in Gas Chromatography (11/13 PM)

Visit our website for a complete list of our [*short courses*](#) and [*technical program*](#) and all the other exciting happenings at EAS!

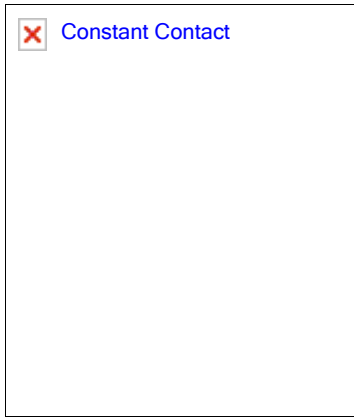
www.EAS.org

EAS, PO Box 185, Spring Lake, NJ 07762

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Main Identity

From: "Eastern Analytical Symposium & Exposition" <newsletter@eas.org>
To: <pollingmel@optonline.net>
Sent: Tuesday, October 02, 2018 4:10 PM
Subject: Special Lectures & Networking Opportunities included with your Registration; Oct. 15 is the Deadline for Reduced Rates

Register before Oct. 15th for Reduced Rates



Upcoming Special Lectures

The theme for EAS 2018 is *Analytical Solutions to the World's Problems* with a focus on *Going Green*. Our 2018 technical program has been strengthened by including these three special lectures. We invite all registered attendees to join us to hear these experts and network while enjoying refreshments. [Click here to register for EAS](#)

KEYNOTE SPEAKER

On Nov. 12, at 4:15pm, **Dr. John Warner**, founder of the Warner Babcock Institute for Green Chemistry, will speak on: *Green Chemistry: The Missing Elements*. A complimentary reception will be held immediately following the lecture.

[Click here for John Warner's bio](#)



PLENARY LECTURE

On Nov. 14 at 11:45am, our plenary lecture will be delivered by this year's winner of the EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, **Prof. Linda P. McGown**, Rensselaer Polytechnic Institute. Prof. McGown presentation is on "Aptamers: A Case Study in Chemical vs. Biological Evolution." Light refreshments will be served.

[Click here for Linda McGown's bio](#)



BREAKFAST LECTURE*

Dr. Mark Schure, Theoretical Separation Science Laboratory, will give a breakfast lecture on *"Making the Case for Multi-dimensional Liquid Chromatography in the Search for Biomarkers,"* on Nov. 13 at 7:30am. Light breakfast will be provided.

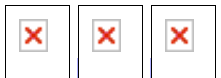
*Please note Symposium & Exposition Conferee or Full-Time Student Conferee registration required to attend the Breakfast Lecture



[Click here for Mark Schure's bio](#)

Eastern Analytical Symposium & Exposition | 732-449-2280 | askeas@eas.org | EAS.org

STAY CONNECTED

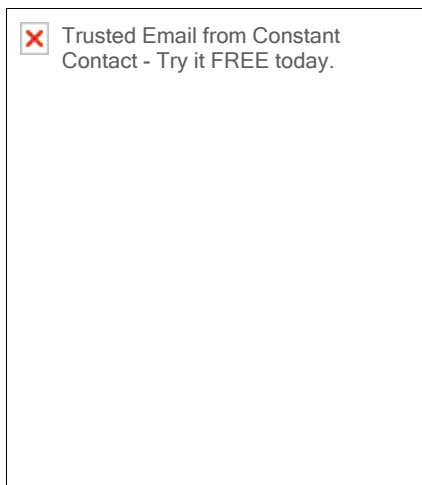


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Main Identity

From: "Eastern Analytical Symposium & Exposition" <newsletter@eas.org>
To: <pollingmel@optonline.net>
Sent: Tuesday, October 09, 2018 4:04 PM
Subject: Pharmaceutical Development Short Courses at EAS



Check out the PHARMA
 Short Courses & Tech Program being offered
 November 11-14 in Plainsboro, NJ!

NEW Short Courses focusing on Pharmaceuticals

Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, and Bioanalysis

Sunday, November 11, 8:30am - 5:00pm

Instructors: John Kellie, GlaxoSmithKline and Wenying Jian, Janssen R&D

Intact and top-down protein analysis by mass spectrometry (MS) is poised to play an increasing role in pharmaceutical industry in the areas of drug discovery (proteomics, target characterization), development & manufacturing (antibody characterization, quality attributes, mass analysis), and pre-clinical / clinical study support (biomarkers & biotherapeutic monitoring for in-life studies). This course will provide a background in sample processing, analysis by MS, and data interpretation and analysis for the many applications of intact protein MS in pharmaceutical industry.

Click here for more details [Click here for more details](#)

Process Analytical Technology: Out of the lab and into the Line

Sunday, November 11, 8:30am-5:00pm

Instructor: James Rydzak, Specere Consulting

Process analytical technology (PAT) is a tool for product development, scale up and manufacturing of any chemical product. In this course, you will learn about the benefits of in-process monitoring, how to justify and plan the analysis implementation. Different process analytical tools will be discussed how to implement them and how to choose between them for your application. How to use PAT to save time and money, improve your green scores in development and manufacturing become proficient at PAT will be discussed. Various applications, from various industries will be used to explain concepts and provide examples of implementation. [Click here for more details](#)

Physical Characterization and Methods of Analysis of Pharmaceutical Solids: Essential Knowledge

Sunday, November 11, 8:30am-5:00pm

Instructors: Stephen R. Byrn, Purdue University & Xiaoming (Sean) Chen, Antares Pharma

Physical characterization and methods of analysis of pharmaceutical solids are essential for drug research and development. Solid characteristics such as polymorphism, formation of hydrate and solvate, and crystallinity have profound impact on the quality attributes of drug substances and drug products such as solubility, dissolution, bioavailability, processability, and stability. Characterization of those solid state properties is critical for selection and manufacture of desirable solid forms for development. This short course presents some essential knowledge for pharmaceutical solids. It also introduces methods of analysis of the solid state such as X-Ray powder diffraction, differential scanning calorimetry, thermogravimetric analysis, microscopy, infrared spectroscopy, Raman spectroscopy, and solid state NMR. Applications of those techniques in the final form selection of drug substances and mixture analysis of drug products are discussed. [Click here for more details](#)

Stability Studies: The Tools, Methods and Predictions During Each Stage of Pharmaceutical Development

Tuesday, November 13, 8:30am-5:00pm

Instructors: *Kenneth C. Waterman, FreeThink Technologies & Peter Bonk, Reaction Analytics*

First, we will look at the nature of stability measurements and the meaning of shelf-life. We will emphasize the needs at each stage of pharmaceutical development. Accelerated models used to accurately predict stability appropriate for various storage conditions will be discussed, along with how to calculate error bars when using these types of predictions. The discussions will include in-use stability and justification for acceptability after shipping excursions. [Click here for more details.](#)

We will also offer these popular Pharmaceutical short courses:
click on course title for more details

- [**Keeping Your Analytical Procedures in Compliance with the FDA: A Validation, Documentation, and Investigation**](#) (Nov. 14)
- [**Lifecycle Approach to Analytical Methods: Incorporating QbD Concepts into Method Development, Validation, Verification**](#) (Nov. 11)
- [**Evaluation of Trace/Ultratrace Impurities in Pharmaceuticals**](#) (11/12)
- [**Analytical Sampling and Sample Preparation**](#) (11/12)
- [**Practical LC/MS Method Development for Small Molecule Pharmaceuticals**](#) (Nov. 12-13)



[Click here](#) for our full line up of two- and one-day courses.

All Short Course take place at the Crowne Plaza Princeton-Conference Center in Plainsboro, NJ.

You must register as a Symposium & Exposition Conferee or Full-Time Student Conferee in order to take a short course.
Register before **Oct. 15 for discounted pricing.**

Technical Program

these oral sessions

Hear the latest pharmaceutical topics at

- Stability Indicating Method Development and Forced Degradation Experimental Approaches (11/12 AM)
- The Role of Chirality in the Pharmaceutical Industry (11/12 PM)
- Impact of New Regulatory Expectations to Drug Development in Pharmaceutical Industry (11/12 PM)
- Analytical Solutions to Challenges in Impurity Testing (11/13 AM)
- PAT: Having Eyes in the Process (11/13 AM)
- Enabling Real Time Release Testing with PAT (11/13 PM)
- Pharmaceutical Drug Product Quality (11/13 PM)
- Challenges in Pharmaceutical Analysis: Formulations and Method Transfer (11/14 AM)
- Ensuring Quality of Pharmaceutical Products (11/14 PM)
- Proteomics and Protein Bioanalysis (11/14 PM)

Visit our website for complete list of our [***short courses***](#) and [***technical program***](#)
and all the other exciting happenings at EAS!
www.EAS.org

[Register](#) by Oct. 15th for reduced rates.

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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

PREPARATION 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

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 images)

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	\$7.00	\$10.00
Rotifer Book by Howard Taylor	\$20.00	\$40.00
*When available		



Model 131: Tungsten

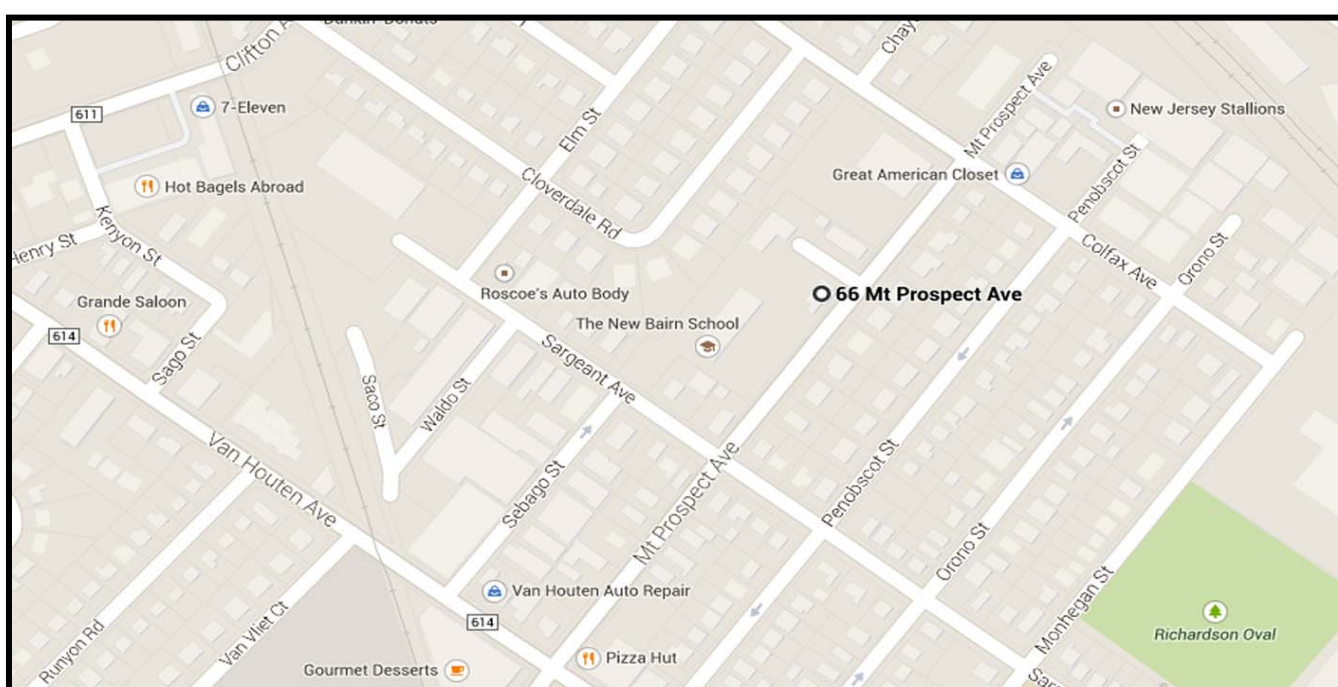
Model 131-FLU: Fluorescent



Model 185: 20x



Model 125-LED Cordless



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 Houten 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 Houton.

From Route 46 coming from west:

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

From route 46 coming from East: 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:

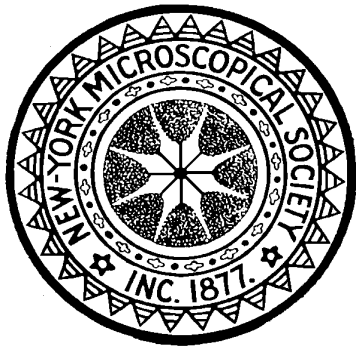
Take NJ Transit train from Penn Station to Secaucus Transfer Station. Change trains to Bergen Line to Clifton (call NJ Transit for schedules). From Clifton Station cross under tracks to first street and go left one block to Mount Prospect Street, turn right and Building 66F is one half block on Right.

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

Please send with payment directly to:

New York Microscopical Society
c/o Mel Pollinger, Treasurer
18-04 Hillery Street
Fair Lawn, NJ 07410-5207

Please Print

I hereby apply for membership in the New York Microscopical Society

Name: (Dr., Ms., Mr., Mrs.).....Nickname:.....

Home Address:.....

Phone: (home or mobile).....Fax:Email:.....

Work Information: Company Name.....Work Address:.....

Work Phone:Email:.....

Would you prefer to receive NYMS mail at home? ☐ at work? ☐ by email (*best way*)? ☐

Principal work or interest in microscopy:.....

Would you like information about NYMS committees? Yes ☐ No ☐ Awards ☐ Membership ☐

Education ☐ Library ☐ Finance ☐ Curator ☐ Housing ☐ Program ☐ Publications ☐ History ☐

Academic and Honorary Degrees:

Degree	Conferring Institution	Date
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Scientific Publications.....

Membership in Scientific Societies.....

Date of birth (optional if over 18)

I have enclosed a check for \$..... to cover my application fees for membership.

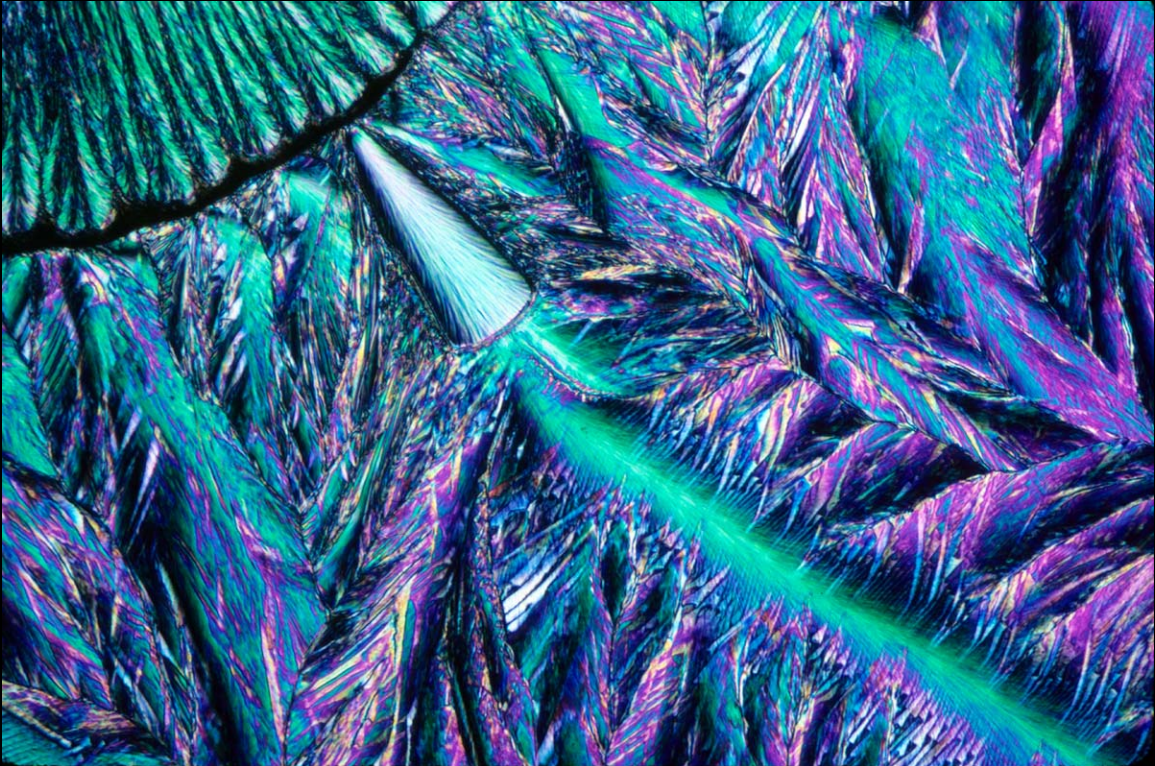
{Annual \$30, Supporting \$60, Life \$500 (payable within the year), Corporate \$175 (includes one advertisement in NYMS News), Junior \$5 (under 18 years old), Student (over 18) \$20.}

I understand portions of the above information may be used in NYMS publications.

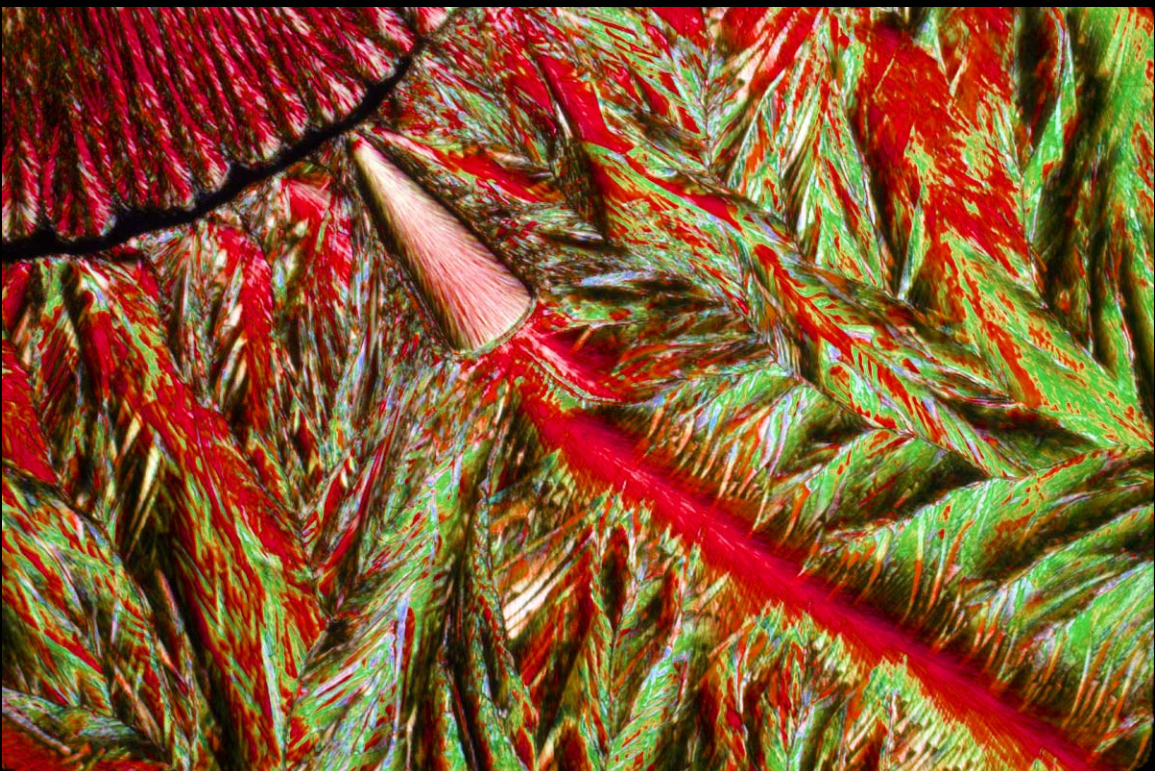
I would prefer my home ☐ work ☐ address/phone included in the NYMS Directory

Signature.....Date.....

NYMS Headquarters: One Prospect Village Plaza (66 Mount Prospect Avenue), Clifton, NJ 07013



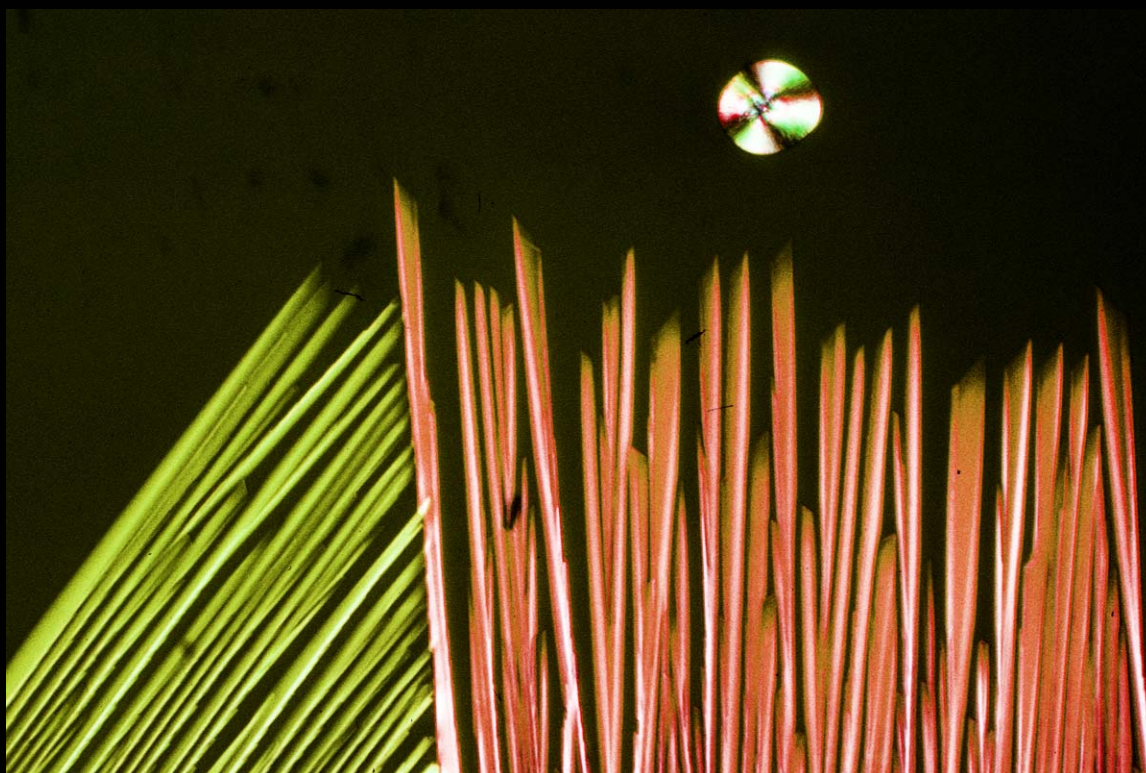
Bibenzyl, 50x from melt (P1061207)b6x4x200
Preparation and polarixed-light photomicrograph by Mel Pollinger



Bibenzyl, 50x from melt (P1061207)a6x4x200
Preparation and polarixed-light photomicrograph by Mel Pollinger



Butylated Hydroxy Toluol from melt (BHT), 50x (P1053126)a6x4x200
Preparation and polarixed-light photomicrograph by Mel Pollinger



Butylated Hydroxy Toluol from melt (BHT), 50x (P1053133)a6x4x200
Preparation and polarixed-light photomicrograph by Mel Pollinger