



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 2018

Editor: (201) 791-9826

Volume 12 (32) Number 4

New York Microscopical Society Spring 2018 Event-Lecture Programs

Sunday April 22 at our Clifton headquarters, Jan Hinsch will address our **Members Meeting on "140 years of The New York Microscopical Society."** Doors will be open at Noon. Program starts at 2pm. ***Do not miss Jan's presentation and our open discussion!***

In 1832 Joseph Lister introduced achromatic optics to microscopy. Just 45 years later Ernst Abbe produced the first set of apochromatic lenses; the tools were in place for the beginning of a golden age of light microscopy. This is when NYMS was founded.

NYMS' antique instruments and books are treasures that allow us to look back in time and appreciate the legacy of the artisans who made the instruments and the scientists who used them. Among them, and central to my talk, is the life of Robert Tolles who was a pioneer of early high aperture immersion lenses and NYMS was one of the witnesses of his genius.

Doors will be open at Noon. Program starts at 2pm. Refreshments will be available. For additional information, please contact John Scott nyconsnfdn@aol.com; (646)339-6566, or Mel Pollinger (pollingmel@optonline.net), (201)791-9826, or by cell: (201) 314-1354 (on meeting day only)

Wednesday April 25 NYMS meets jointly with the NY-NJ Soc. for Applied Spectroscopy, in an analytical systems development laboratory near Princeton, NJ. Details TBA.

Late May: Internationally known Art Analyst Jennifer Mass, erstwhile professor at U of Delaware and the Winterthur Museum conservation science laboratory, and now with Bard College and with her consulting firm, will address us at a Manhattan venue, in late May, not on Memorial Day weekend. Details TBA.

New York Microscopical Society Board of Managers

President and Secretary 2017-18, Brooke Kamrath, bkamrath@newhaven.edu; (203) 931-2989,
Manager 2016-2019.

Vice President 2017-18, John Scott, nyconsnfdn@aol.com; (646) 339-6566, Curator, Archivist, Facilities
Assistant, Past President, Manager 2015-2018.

Treasurer 2017-18, Mel Pollinger, pollingmel@optonline.net; (201) 791-9826, Facilities, Editor,
Librarian, Manager 2017-20.

Manager 2015-2018, Lou Sorkin entsult@aol.com; (914) 939-0917.

Manager 2015-2018, Guy deBaere guydbaere@aol.com; (347) 668-4798 Outreach Program Chair

Manager 2016-2018, Jay Holmes jholmes@igc.org; (212) 769-5039, Outreach Program Assistant.

Manager 2016-2019, Peter Diaczuk pedicoplanb@gmail.com; (917) 578-3049, Past President.

Manager 2016-2019, Seymour Perlowitz perlowitzs@hotmail.com; (718) 338-6695

Manager 2016-2019, Roland Scal, rscal@gcc.cuny.edu; (718) 631-6071.

Manager 2017-2020, John A. Reffner jareffner@cs.com; (203) 358-4539 Past President.

Manager 2017-2020, John R. Reffner, Jr. jrr11p@gmail.com; (215) 527-1882.

Manager 2017-2020, Andrew J. Winter, ajwinter112@gmail.com, Education Chair.

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.

**Inter-Micro Call For Papers
Deadline Extended to April 16**

**70th Annual International Microscopy Conference
June 11 - 15, 2018 at McCrone Research Institute,
Chicago**

The deadline to submit abstracts for speaker presentations has been extended to **Monday, April 16, 2018**. Presentations will be held June 11-13. Speakers receive a \$50 registration discount. View abstract submission guidelines and register online.

Inter/Micro 2018

**70th Annual International Microscopy
Conference**

**June 11 - 15, 2018 at McCrone Research
Institute, Chicago**

Call for Papers: Speaker Presentations June 11-13: McCrone Research Institute cordially invites you to give a presentation of your microscopy research at the 70th annual Inter/Micro conference in Chicago. Join professional and amateur microscopists from around the world as they present new research on techniques and instrumentation, environmental and industrial microscopy, and chemical and forensic microscopy. Speakers receive at \$50 registration discount. The abstract submission deadline is **March 16, 2018**. View abstract submission guidelines and register online. (See email supplement for flyer)

**June 11-13: McCrone Research
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Join professional and amateur microscopists from around the world as they present new research on techniques and instrumentation, environmental and industrial microscopy, and chemical and forensic microscopy.

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***Do you have some photomicrographs for
the NYMS Newsletter Gallery?
Please send them in!***

**EAS CALL FOR PAPERS
is now OPEN!**

**Join us November 12-14, 2018
The Crowne Plaza Princeton Hotel &
Conference Center, Plainsboro, NJ**

We invite you to be part of EAS by contributing a paper for oral or poster presentations. EAS seeks contributions from scientists in ALL areas of analysis, which make it's program uniquely strong. For more details and to submit: www.eas.org/asubmit

Introducing new submission deadlines for
2018!

Oral Abstracts: March 1 - May 1

Poster* Abstracts: March 1 - September 1

**New for 2018 - Posters will be displayed electronically*

You Can Help!

If you have a suggestion for future programming, please send it! see BoM, page 2 for contact info:
John Scott, NYMS Vice President-Program
Coordinator, Curator, Archivist, Fellow,
646.339.6566

About NYMS

For about six decades the meeting place of the Society was the Museum of Natural History but that came to an end when the museum needed more space for its own events. The Society was forced to look for new quarters and after two interim domiciles we found a building for sale in Clifton, NJ, that was ideally suited to our needs. While the headquarters of the NYMS paradoxically are in New Jersey, our location is easily reached by public transportation from New York and a substantial segment of our membership are New Yorkers.

We are elated to have our own place. There is sufficient space for workshops and meetings. In the many years of the Society's existence we have accumulated a trove of prized possessions. The walls are lined with shelves of books on microscopy and about 30 antique brass microscopes are on permanent display. There is a large collection of microscope slides, specimens and up-to-date microscopes with which to examine them.

The New York Microscopical Society is a 501c3
Educational Organization originally founded in 1877,

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 (microscopes), or Mel Pollinger (Library) (see pg 2 for contact #'s)

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.

Get Involved in the your NYMS

Newsletters: Articles, images and comments are always welcome and necessary; who knows; we may learn something new and you may enjoy being a contributor. MP

Errata: 2018 Newsletter Volumes for N2 & N3 are incorrect and should read as V12 (32)

NEW YORK MICROSCOPICAL SOCIETY **BULLETINS**

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. NYMS bulletins, Journals, Yearbooks and other out-of-archive publications may be viewed at the NYMS Library 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

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. NYMS bulletins, Journals, Yearbooks and other out-of-archive publications may be viewed at the NYMS

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N.Y.M.S. SUPPLEMENT SECTION

April 2018



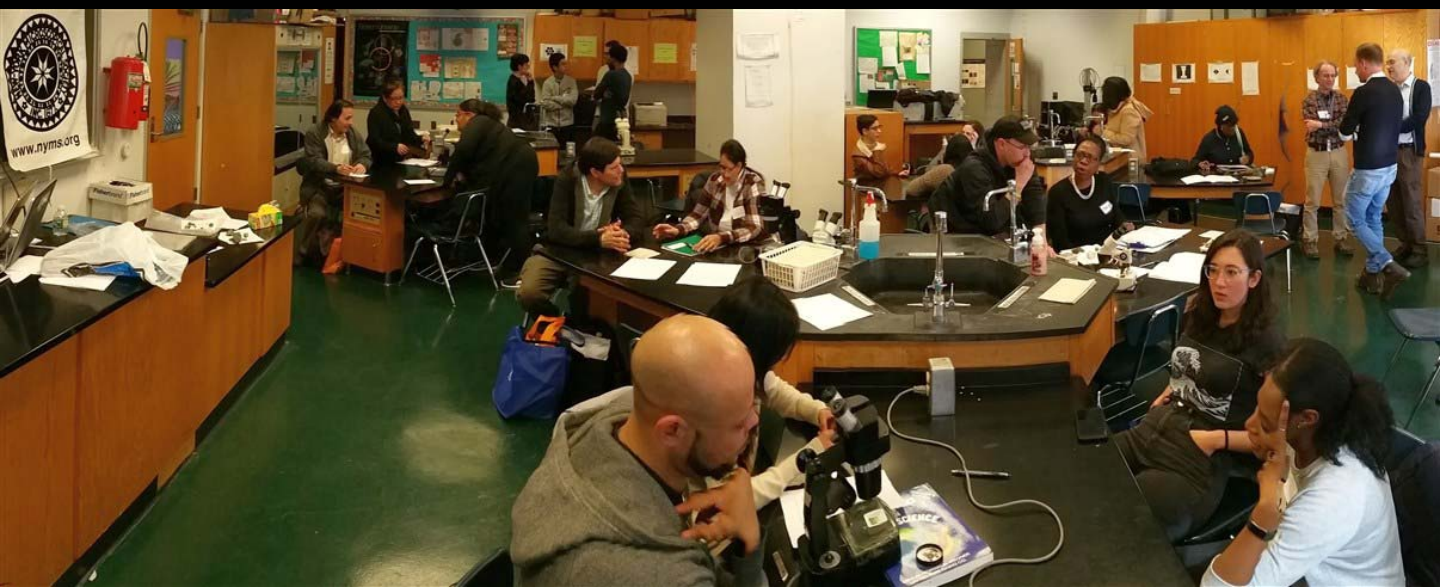
In This Section:

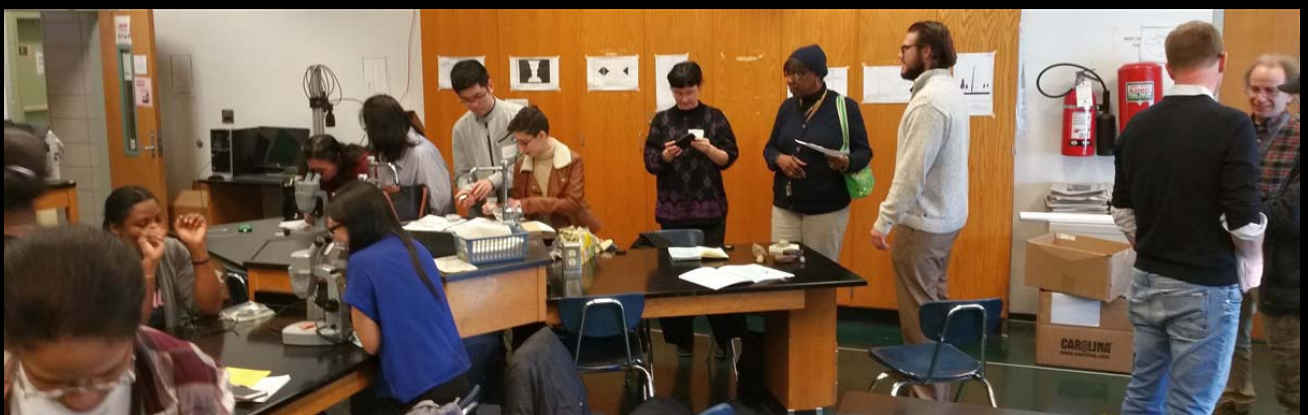
- ◇ NYMS SCONYC Team 24Mar2018
- ◇ Gravelle Lab part 3
- ◇ Cells That "Eat" other cells
- ◇ S. F. Micro Society News article
- ◇ EAS call for papers
- ◇ McCrone Inter-Micro call for papers-updated
- ◇ McCrone Inter-Micro call for papers
- ◇ McCrone Summer 2018 Micro Courses
- ◇ Historical NYMS Bulletins for sale
- ◇ Directions to NYMS
- ◇ NYMS Sales Items
- ◇ Membership Application
- ◇ Gallery page(s)

NYMS SCONYC team and guests at SCONYC, 24 March 2018, pg1

NYMS workshop program at SCONYC was a complete success. The NYMS SCONYC team consisted of John Scott, Jay Holmes, Guy deBaere, Dr. Peter Diaczuk, Xiao Shan Law, Julie Cohen and Roland Scal.

Above and photos provided by John Scott





GRAVELLE, PHILIP O.
Consultant
Fellow of New York Microscopical
Society
Fellow of Royal Photographic
Society
Recipient of Barnard Medal from
London Photo. Soc. (1923)
Died January 4, 1955

Images & Text from NYMS' Gravelle
"Facilities 1946" photo collection. Part3

NYMS Library Sampler

THE GRAVELLE LABORATORY

114 PROSPECT STREET
SOUTH ORANGE, NEW JERSEY

SPECIALIZING IN PHOTOGRAPHY THROUGH THE MICROSCOPE

And the Study of Problems Requiring the Use of Microscopes

Established in 1918 for the study of Microscopical Appearances and the production of high quality Photomicrographs. Equipped for the preparation of Technical and Industrial materials for examination and photography with various types of microscopes and suitable methods of illumination. Transmitted light, surface lighting, polarized light, dark field, Cardioid ultra-microscope, vertical illumination for metallurgical micrographs.

Philip O. Gravelle in laboratory photos for LOOK magazine.

MOLECULAR DESIGN article by Mr. Robert Farr.

Photo by Mr. Howard Somers

October 8 1948.

74



GRAVELLE LABORATORY. Processing room. Tank with temperature control and circulating system. For exact temperature development. Used for Ansco color processing. Cooled fixing bath tank. April 1946.

48



THE GRAVELLE LABORATORY. Processing room. E.K.5X7"
Projection printer. Lamp controls and timer. End of
film loading table with ferrotype plate print removal
stop.
April 1946.

49

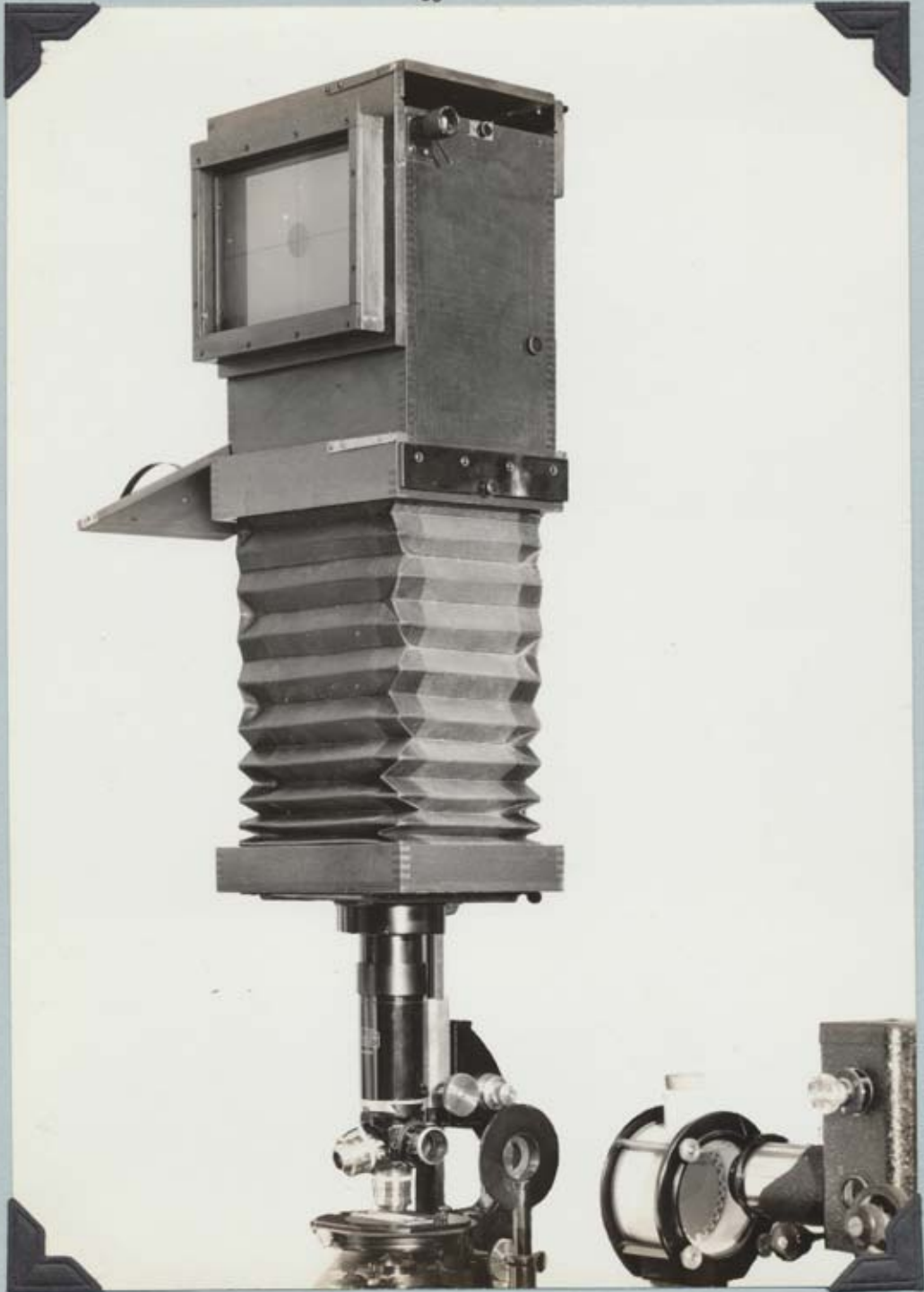


GRAVELLE LABORATORY. Zeiss "S" stand with Zeiss EpiMirror
Rheostat not shown.



THE GRAVELLE LABORATORY. Top reflecting box used on Cameras No.1 and 2. Microscope with photomicrographic stage and Epi "W" condenser. Stand No.204999. Front now fitted with light shield hood. Aluminized first surface mirror reflects the image to the front ground-glass. When mirror is released image is on the top ground-glass replaced by the film holder.

66



Philip O.Gravelle in laboratory photos for LOOK magazine

MOLECULAR DESIGN article by Mr.Robert Farr

Photo by Mr.Howard Somers.

October 8 1948.

73



----- Original Message -----

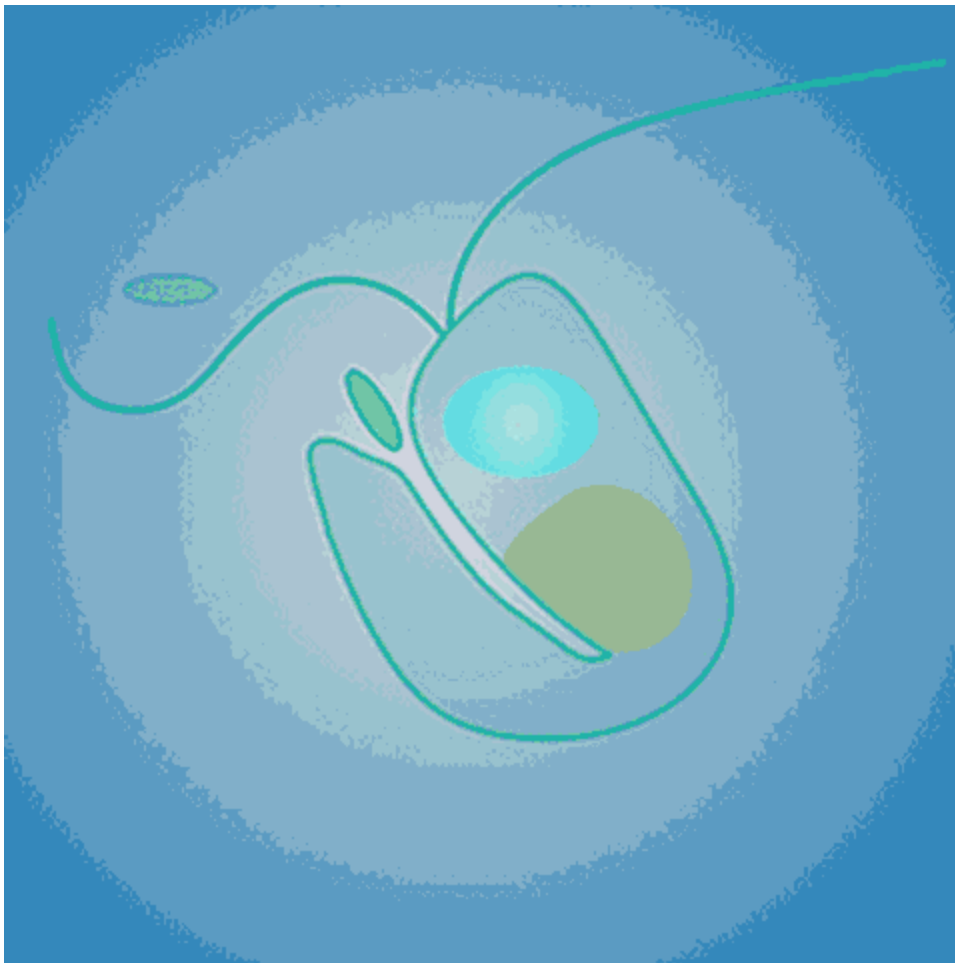
From: [Jay R Holmes](#)

Sent: Saturday, March 17, 2018 8:38 AM

Subject: NYMS member at AMNH contributes to a blog post

Sally Warring contributes a video to the blog post below.

https://www.amnh.org/explore/news-blogs/research-posts/new-model-predicts-cells-that-eat-other-cells?utm_source=tmatm&utm_medium=email&utm_campaign=newsletter&utm_term=subscriber&utm_content=version_A&sourceNumber=12091



BLOG

New Model Predicts Cells That "Eat" Other Cells

It's a cell-eat-cell world! Museum researchers have developed a computer model that can quickly identify cells capable of phagocytosis, or "eating" other cells, providing additional insight into the origins of complex life.

[Read the post](#)

MICROSCOPIC OBSERVATIONS OF FOLLICULINA

By William Gurske

Photographing Protozoa: In order to photograph living microorganisms the following set-up was used: Two No.2 -18 mm sq. cover slips are stacked and placed above and below the zone of the cells on the slide. A 24 x 40 mm cover slip with a couple drops of water is carefully placed over the cells and on top of the stacked 18mm cover slips. This arrangement allowed the use of objectives up to 40x without distorting the cells

Collection and culturing: The protozoan *Folliculina* was collected from a large marsh located in the city of Newark, California during the months of July and August 2016. This marsh is one of several marshes located in the area of Fremont and Newark that are fed by the Newark Slough located south of Dumbarton Bridge, South San Francisco Bay. (See Newark Slough, google earth maps for the marshes located in Fremont and Newark area). The marshes located in the Don Edwards Wildlife Reserve required a scientific collecting permit. (For the tide levels of the slough, see www.saltwatertides.com).



William Gurske

Pickleweed samples were collected from an area of the marsh to look for protozoa and chlorellae that might be attached to algae



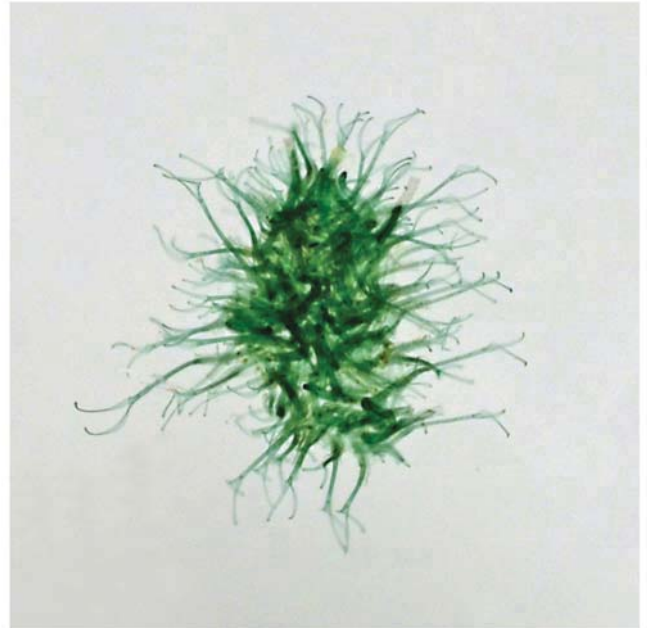
and diatoms surrounding the stems of Pickleweed.

(Photo-2, collection area)

The Pickleweed samples were placed into Pyrex crystallization dishes capable of holding 1000ml of liquid. The dishes were placed

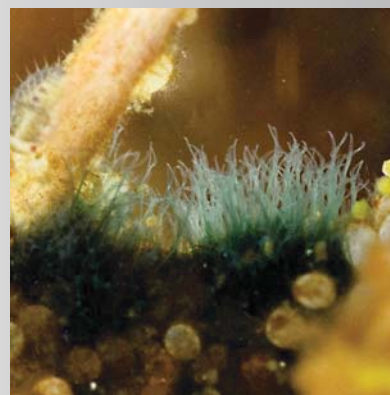
under daylight lamps attached to large laboratory stands. The samples received approximately 16 hours of light a day.

Folliculina Observations. After 2-3 days, a dark green band could be seen growing at the water-air interphase on the side of the dishes. The green band was always located at the side of the dish that received the most light. Occasionally small 1-3 mm green colonies could be seen floating next to band. Microscopic examination of the colonies revealed the protozoa *Fulliculina*.



(Photo-3, colony)

Examination with a magnifying lens revealed dark patches of *Fulliculina* on a few areas of the Pickleweed stems. *Fulliculina* cells could not be collected from the stems without damaging the cells.



(Photo-4, *Fulliculina* on Pickleweed)

Attempts to view cells from the dark green band attached to the wall of the Pyrex container with the microscope were futile. The cells strongly adhered to the glass surface and attempts to scrape the cells off and disperse them on a microscope slide

resulted in a smear of broken and smashed cells. Since the cells appear to be attracted to light and adhere strongly to glass, microscope slides were placed in the water to allow the *Fulliculina* cells to migrate and adhere to the surface glass slides.

Fresh Pickleweed samples were collected from the same site in
(Continued on page 3)

the marsh and placed in Pyrex crystallization dishes. Glass slides were attached to a wooden stir stick and were placed in the water with about 1/3 of the slide above the edge of the water surface. The overhead lighting was shifted slightly to favor migration toward the glass slides..



Photo-5, glass slides

In 2 or 3 days a dark green band of cells appeared across the slides at the surface of the water. (Photo - 5)

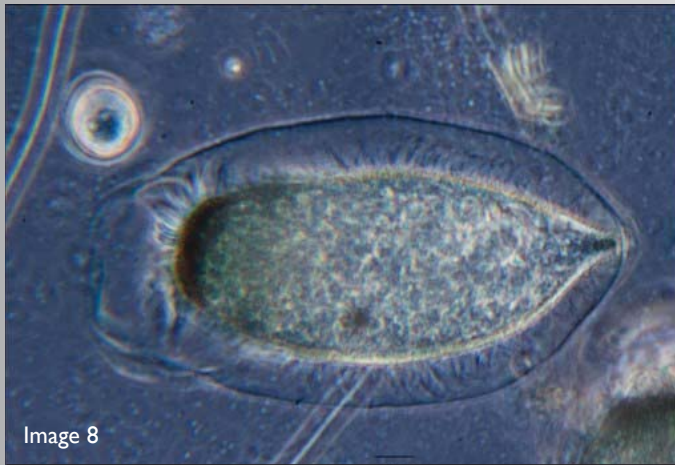


Image 8

Immature Folliculina attached to glass slide that is in the process of developing the lorica. (Photo-8,

Notes: Description of Folliculina, eol.org, (Encyclopedia of Life)

Heterotrich ciliates, with a dorsal zone of membranelles located around the margins of two extensions (wings) from the cell body. Body located in an attached and unchambered lorica, cell contractile extending out of an aperture when feeding. Often coloured green or yellow. Marine.

I have not found any information that Folliculina has been identified in the San Francisco Bay. (William Gurske)

The genus Folliculina closely resembles the genus Metafolliculina.

Editor's Note: Not all images could be incorporated due to a lack of space but the original numbering was maintained.

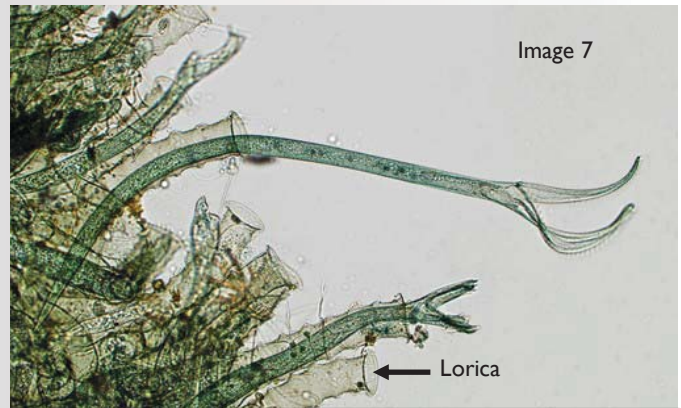


Image 7

Lorica

Mature Folliculina with developed lorica, actively feeding, and attached to a solid substrate or in a floating colony. (Photo -7)



Image 11

10 μ

The "free-swimmer" or "swarmer" stage, unattached and freely swimming across the slide. Since the cells are not attached, only a few were seen. (Photo-11)

A dark spot can be seen on the "head" of the immature Folliculina either free-swimmer or small immature Folliculina developing the lorica. As the Folliculina matures, the dark spot disappears. It appears that the dark pigmented spot could be a light sensitive area for directing the developing cells to a location near the surface of the water and to attach to plants, such as, the stems of floating pickleweed which are growing at the edge of the water.

The above article from the Micro News has been reprinted here with the permission of the editor-publisher.

Main Identity

From: "Eastern Analytical Symposium & Exposition" <newsletter@eas.org>
To: <pollingmel@optonline.net>
Sent: Thursday, March 01, 2018 10:51 AM
Subject: February Retort and Call for Papers Now Open

Submit an abstract at www.eas.org/asubmit



CALL FOR PAPERS is now OPEN!

Join us November 12-14, 2018
The Crowne Plaza Princeton Hotel & Conference Center
 Plainsboro, NJ

We invite you to be part of EAS by contributing a paper for oral or poster presentations. EAS seeks contributions from scientists in ALL areas of analysis, which make it's program uniquely strong. For more details and to submit: www.eas.org/asubmit

Introducing new submission deadlines for 2018!

Oral Abstracts: March 1 - **May 1**
Poster* Abstracts: March 1 - **September 1**

**New for 2018 - Posters will be displayed electronically*

Submit Now

February Retort is now Available

Check out the preliminary list of **short courses**, **invited sessions**, **exhibitors** and other programs being planned for Nov.

[Download a pdf file of the Retort](#)



EAS Awardees

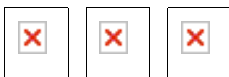
We are proud to announce the honorees of the EAS Awards in 6 areas of interest. Visit our website for the complete list of awardees and their biographies

[Awardee Bios](#)



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

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Main Identity

From: "McCrone Research Institute" <intermicro@mcri.org>
To: <pollingmel@optonline.net>
Sent: Thursday, March 01, 2018 12:28 PM
Subject: Inter/Micro 2018 Call for Papers, Awards Dinner, Workshop, Evening with Brian, and More

Presentations - Workshop - Awards Dinner

Inter/Micro 2018

**70th Annual International Microscopy Conference
 June 11 - 15, 2018 at McCrone Research Institute, Chicago**

Call for Papers: Speaker Presentations

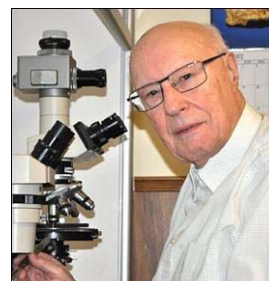
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The abstract submission deadline is **March 16, 2018**. [View abstract submission guidelines](#) and [register online](#).

SMSI Awards Dinner and Live Auction

June 13: Join Inter/Micro and the State Microscopical Society of Illinois (SMSI) as they honor Dr. Eric J. Chatfield with the 2018 August Köhler Award. Dr. Chatfield has developed a number of analytical methods for the determination of asbestos and continues to conduct research in the area of asbestos characterization. A live auction will precede dinner. [Learn more](#) and [register online](#).



Workshop: Wood Structure and Identification

June 14-15: Taught by Regis B. Miller, this two-day beginner's workshop will concentrate on the wood structure and identification of common hardwoods and softwoods. One full day will be devoted to softwoods and

the other day to hardwoods. Participants will learn to make thin sections of the radial and tangential surfaces for use with the light microscope. [Learn more](#) and [register online](#).

Evening with Brian: "The Robot and the Single Cell"

June 11: News reports of artificial intelligence (AI) and robots taking over the responsibilities of humans are common. Yet consider the living cell: although we never hear spokespeople who say so, its capacity surpasses anything that robotics can achieve. Professor Brian J. Ford will takes us through the contorted history of AI and compare it with what we know single cells can do. [Learn more](#) and [register online](#).

Exhibitor and Company Sponsorship Opportunities

Inter/Micro attracts influential scientists who look to exhibitors as sources of information on equipment, techniques, and supplies. Reserve an exhibitor booth or have your company sponsor one of several Inter/Micro 2018 events. [Learn more and register](#).

Book Your Hotel Today; Room Availability is Limited

Now is the time to reserve your hotel room for Inter/Micro 2018. Club Quarters in nearby downtown Chicago is the preferred hotel. [Learn more](#).

We look forward to seeing you in Chicago!

 [Like us on Facebook](#)



McCrone Research Institute

A Not-for-Profit Corporation

2820 South Michigan Avenue, Chicago, IL 60616-3230

Phone: 312-842-7100 Fax: 312-842-1078

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Main Identity

From: "McCrone Research Institute" <intermicro@mcricri.org>
To: <pollingmel@optonline.net>
Sent: Friday, March 23, 2018 10:02 AM
Subject: Call for Papers Deadline Extended to April 16 -- Inter/Micro 2018

Inter/Micro 2018

Call for Papers Deadline Extended to April 16

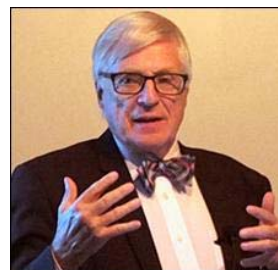
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[Learn more](#) and [register online](#).



Workshop: Wood Structure and Identification

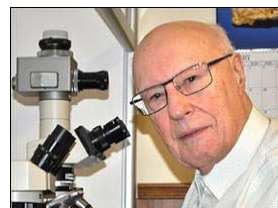
June 14-15: Taught by Regis B. Miller, this two-day beginner's workshop will concentrate on the wood structure and identification of common hardwoods and softwoods. One full day will be devoted to softwoods and the other day to hardwoods. Participants will learn to make thin sections of the radial and tangential surfaces for use with the light microscope.

[Learn more](#) and [register online](#).



SMSI Awards Dinner and Live Auction

June 13: Join Inter/Micro and the State Microscopical Society of Illinois (SMSI) as they honor Dr. Eric J. Chatfield with the 2018 August Köhler Award. Dr. Chatfield has developed a number of analytical



methods for the determination of asbestos and continues to conduct research in the area of asbestos characterization. A live auction will precede dinner.

[Learn more](#) and [register online](#).

Exhibitor and Company Sponsorship Opportunities

Inter/Micro attracts influential scientists who look to exhibitors as sources of information on equipment, techniques, and supplies. Reserve an exhibitor booth or have your company sponsor one of several Inter/Micro 2018 events. [Learn more and register](#).

Book Your Hotel Today; Room Availability is Limited

Now is the time to reserve your hotel room for Inter/Micro 2018. Club Quarters in nearby downtown Chicago is the preferred hotel. [Learn more](#).

We look forward to seeing you in Chicago!

 [Like us on Facebook](#)



McCrone Research Institute

A Not-for-Profit Corporation

2820 South Michigan Avenue, Chicago, IL 60616-3230

Phone: 312-842-7100 Fax: 312-842-1078

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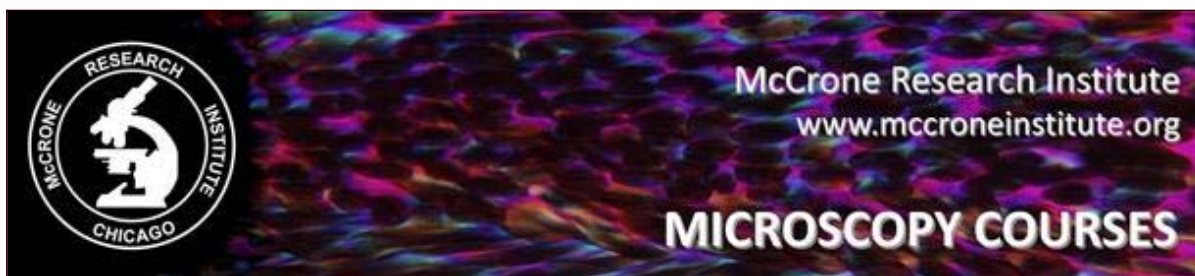
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Main Identity

From: "McCrone Research Institute" <courses@mcri.org>
To: <pollingmel@optonline.net>
Sent: Friday, March 09, 2018 4:19 PM
Subject: McCrone Chemical Microscopy Course, July 30-August 3 at Cornell University

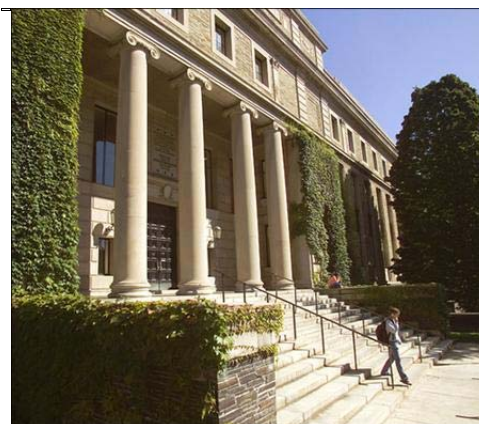


McCrone Chemical Microscopy Course

**At Cornell University, Ithaca, NY
 July 30 - August 3, 2018**

Chemical Microscopy (1202) is a graduate-level applied polarized light microscopy (PLM) course that covers all the necessary techniques of PLM for identifying and analyzing optical and chemical properties of small particles. In this hands-on course, students will learn how to:

- Perform reliable PLM operations and techniques
- Identify small particles, including organic and inorganic chemical compounds
- Characterize fibers from animal, mineral, vegetable, and man-made origins
- Perform microchemical and microcrystal tests
- Practice visual/thermal methods
- Study crystals and optical crystallography



—Baker Laboratory at Cornell University

Lectures and laboratory demonstrations using video for macro- and micro-projection will cover PLM theory, techniques, and interpretation. Each student will perform applicable exercises on the polarized light microscope.

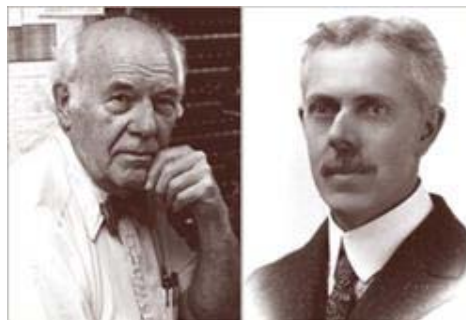
This course is taught by Dr. Gary J. Laughlin, senior research microscopist at McCrone Research Institute. [Learn more and register online](#)

Chemical Microscopy at Cornell

Émile M. Chamot, the preeminent authority in the application of the microscope to chemistry and the "father of chemical microscopy," did his senior research thesis at Cornell University with Professor George

Caldwell, the first head of the Chemistry Department. Baker Laboratory, where Chamot taught, is the birthplace of chemical microscopy in the United States.

Walter C. McCrone, founder of McCrone Research Institute in Chicago, obtained a B.S. in chemistry (1938) and a Ph.D. in chemical microscopy (1942) from Cornell. He spent two additional years doing his post-doc research with Professor Chamot.



Walter C. McCrone Émile M. Chamot

McCrone Research Institute, where McCrone developed and taught additional courses, is now a center of microscopy education and research.

Other McCrone Courses

Select a title to read the course description and register online:

[Food Microscopy \(1560\)](#) -- April 23 - 27

[Applied Polarized Light Microscopy \(PLM\) \(1201\) / Forensic Microscopy \(1204\)](#) -- May 21 - 25

[Asbestos Fiber Counting \[NIOSH 582\] \(1616\)](#) -- June 25 - 29

[Microscopy for the Conservator of Art and Artifacts \(1206\)](#) -- June 25 - 29

[Forensic Dust Analysis \(1750\)](#) -- July 9 - 13:

[Microcrystal Tests for Illicit Drugs and Diverted Pharmaceuticals \(1725\)](#) -- July 16 - 20

[Applied Polarized Light Microscopy \(PLM\) \(1201\) / Forensic Microscopy \(1204\)](#) -- July 23 - 27

[Microscopical Identification of Asbestos \(1608A\)](#) -- July 30 - August 3

[View all Microscopy Courses](#)

McCrone Microscopy Courses by Category

[Asbestos, Fungal Spore, Pollen, Dust, and Other Indoor Air Quality Courses](#)

[PLM, Forensic Microscopy, and Advanced Microscopy Courses](#)

[SEM, FT-IR, Fluorescence, Raman, Sample Prep, and Other Micromethods Courses](#)

[Specialty Microscopy and Other Courses](#)

Visit www.mccroneinstitute.org for full descriptions of all courses, secure online registration, hotel information, and more.

Since 1960, McCrone Research Institute in Chicago has offered intensive courses in microscopy that emphasize the proper use of the microscope and more

specialized microscopy, focusing on a particular technique, material, or field of application. All courses are hands-on, featuring lectures, demonstrations, and laboratory practice.



*McCrone Research Institute: 2820 S. Michigan Avenue, Chicago IL 60616-3230
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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

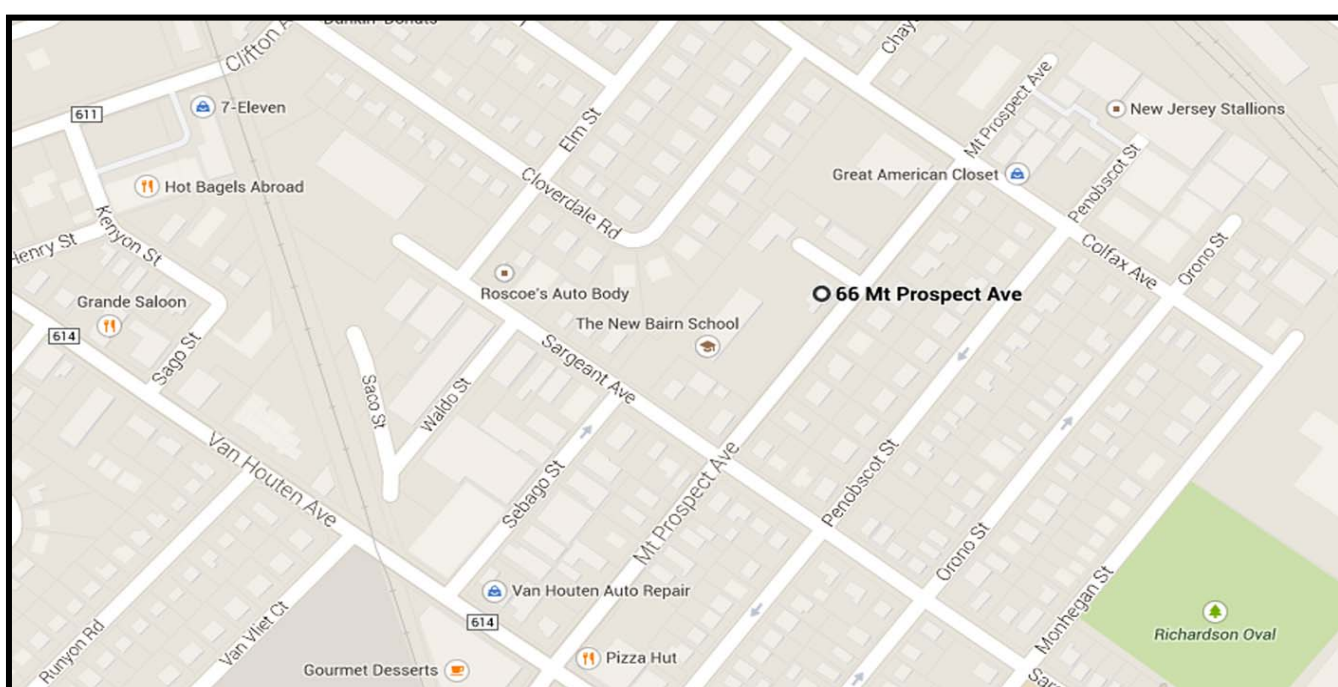
Vol. 2 New York, N. Y., April, 1944 No.1

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



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 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 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

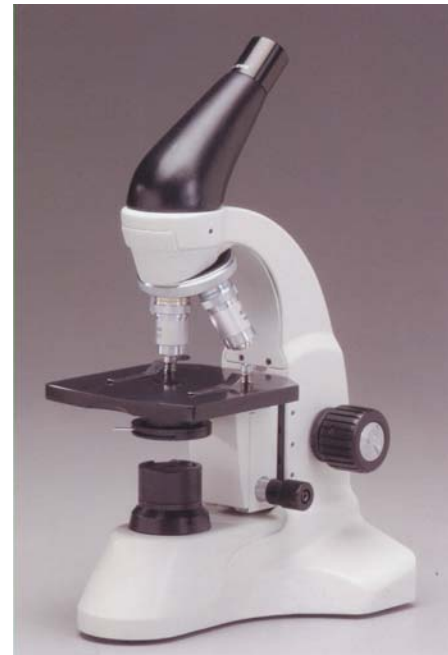


Model 131: Tungsten

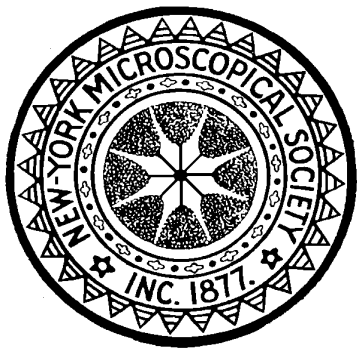
Model 131-FLU: Fluorescent



Model 185: 20x



Model 125-LED Cordless



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.

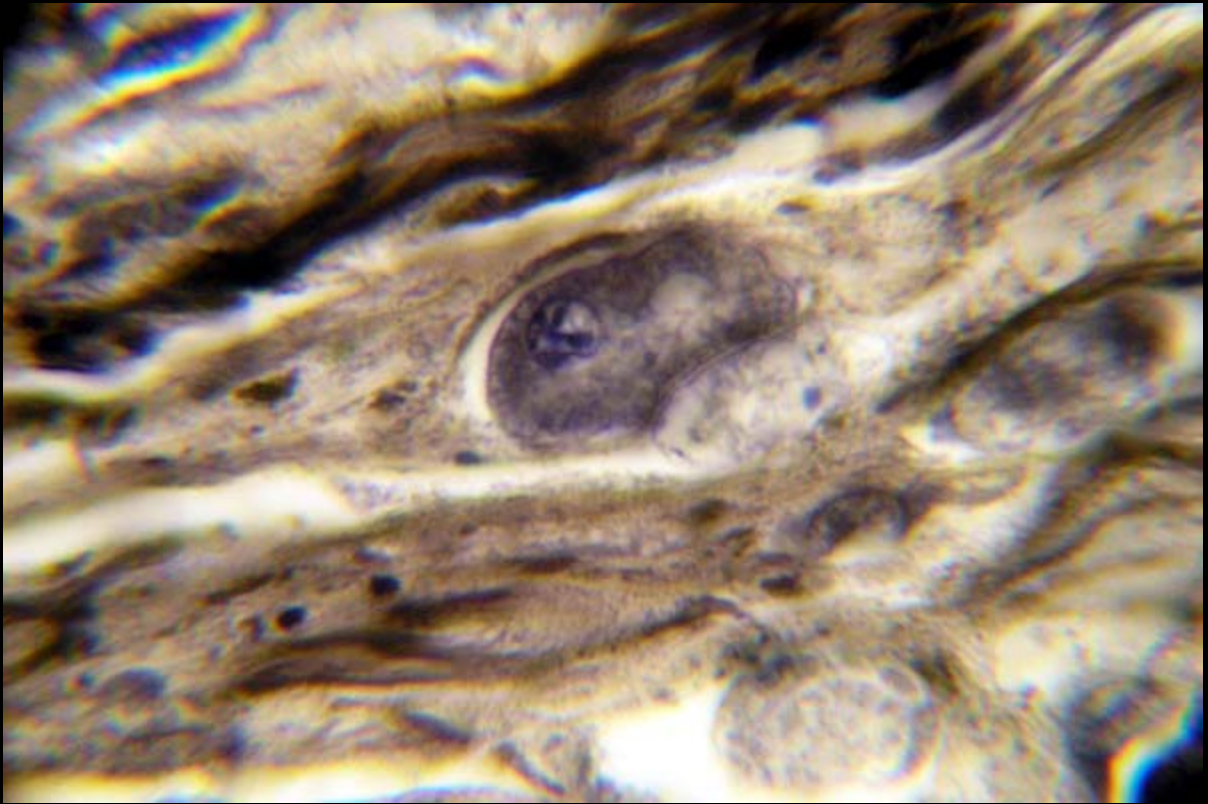
{Annual \$30, Supporting \$60, Life \$500 (payable within the year), Corporate \$175 (includes one advertisement in NYMS News), Junior \$5 (under 18 years old), Student (over 18) \$20.}

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



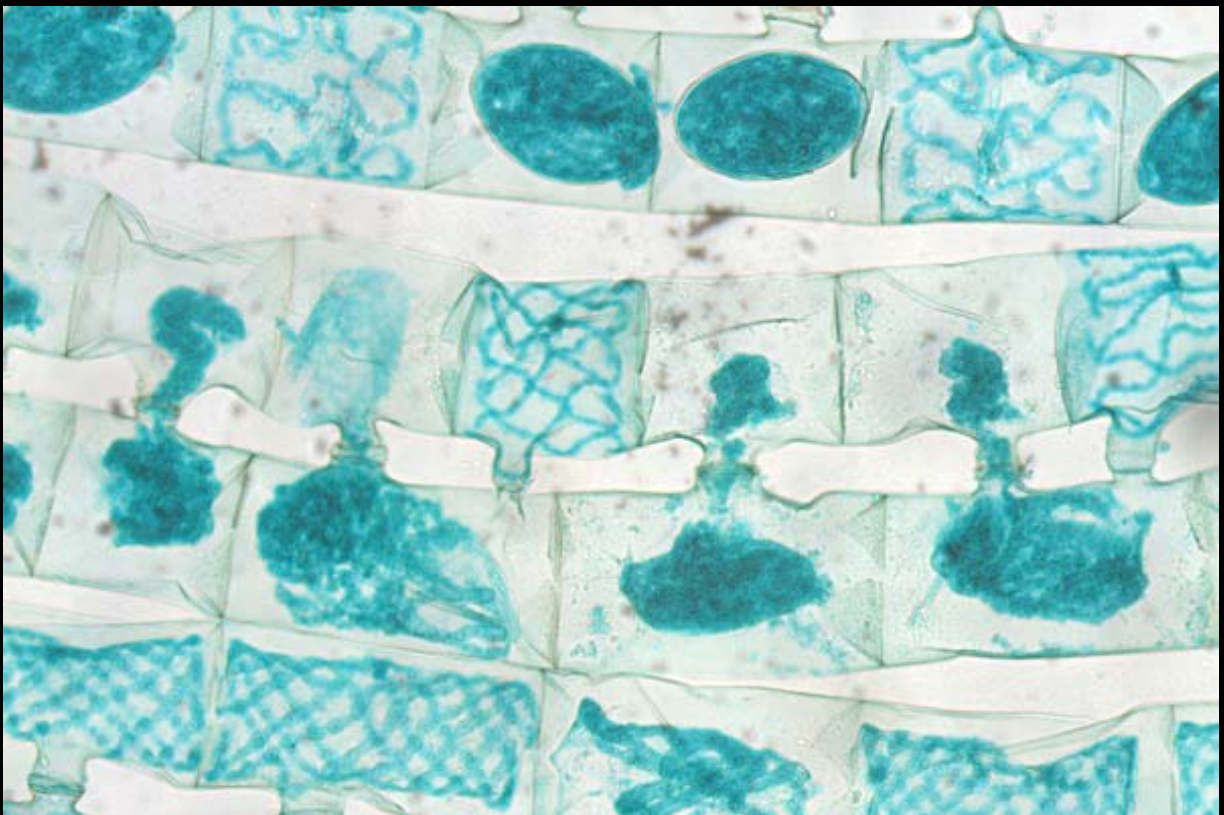
Entamoeba histolytica, prepared slide, 1000xOil(P4077214)a6x4x100
Photomicrograph by Mel Pollinger



Tapeworm Scolex, Helicon Stacked image from prepared slide, (P4017157_58)a6x4x100:
Photomicrograph by Mel Pollinger



Chironomus, Living, in pond water, Polarized-light, a6x4x100: Photomicrograph by Mel Pollinger



Spirogyra conjugation, scalariform, prepared slide, 100x, a6x4x100
Photomicrograph by Mel Pollinger