



# 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

May-June 2019

Editor: (201) 791-9826

Volume 33 Number 2

Our New York Microscopical Society's 2018-19 Program recently featured Howard Radzyner in our Clifton headquarters, talking about Vishniac's career in science photography and moving pictures. Now Howard will present Roman Vishniac the *artist photographer* and scientist.

Friday, May 17, 2019, 7:00 PM  
Salmagundi Art Club of New York, Upper Gallery  
SACNY, 47 Fifth Avenue, New York, NY

All are welcome, reservations required. SACNY Members free, non-members \$15:

<https://www.eventbrite.com/e/the-photography-of-roman-vishniac-tickets-55006566120>

Roman Vishniac (1897-1990) created a broad scope of photographs, working from Berlin, Paris and New York. His best known works document pre-Holocaust Eastern Europe Jewry. Those and more of Vishniac's early to mid 20th century images exemplify 20th century Modern Art, although Vishniac's career flowered in other contexts.

Art world and cultural heritage interest in Vishniac rekindled after 1970, at first through the efforts of Cornell Capa. More recently the International Center for Photography's 2013-2015 major travelling retrospective "Roman Vishniac Rediscovered" exhibition and its excellent catalog sampled Vishniac's entire artistic and scientific legacy.

Join erudite and expressive photographer-scholar-speaker Howard J Radzyner at the Salmagundi Art Club for an illustrated exposition of Roman Vishniac!

Before and after Radzyner's presentation, enjoy the Salmagundi Art Club's cozy cash Bar, open downstairs from 5:00 PM, and the Club's adjacent Dining Room (elegant setting, good kitchen and menu) open 5:30, kitchen closes 8:45. The Salmagundi Club closes at 10.

Call (212) 255-7740 well ahead for dinner reservations, and mention Roman Vishniac!

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The above reported by John Scott, NYMS V.P. & Education Chair

# New York Microscopical Society Board of Managers

**President and Secretary, 2018-2019, Brooke Kamrath, [bkamrath@newhaven.edu](mailto:bkamrath@newhaven.edu); (203) 931-2989;**  
**Manager 2016-2019, Membership Chair**

**Vice President, 2018-2019, John Scott, [nyconsnfdn@aol.com](mailto:nyconsnfdn@aol.com); (646)339-6566;**  
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**Treasurer, 2018-2019 Mel Pollinger, [pollingmel@optonline.net](mailto:pollingmel@optonline.net); (201)791-9826;**  
**Manager 2017-2020, Newsletter Editor, Librarian, Facilities, Membership**

**Manager, 2017-2020 Lou Sorokin [entsult@aol.com](mailto:entsult@aol.com); (914)939-0917, Webmaster Pro tem**

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

**Manager, 2016-2019 Roland Scal [rscale@qcc.cuny.edu](mailto:rscale@qcc.cuny.edu); (718)631-6071**

**Manager, 2017-2020 Andrew J. Winter [andrew.winter@co.middlesex.nj.us](mailto:andrew.winter@co.middlesex.nj.us); (732)816-3793, Education Chair**

**Manager, 2016-2019 Seymour Perlowitz [perlowitzs@hotmail.com](mailto:perlowitzs@hotmail.com); (718)338-6695**

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

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

**Manager, 2018-2021 Julie Cohen, [julcoh3@gmail.com](mailto:julcoh3@gmail.com); (516) 608-1875**

**Manager, 2018-2021 Sally Warring, [sallywarring@gmail.com](mailto: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

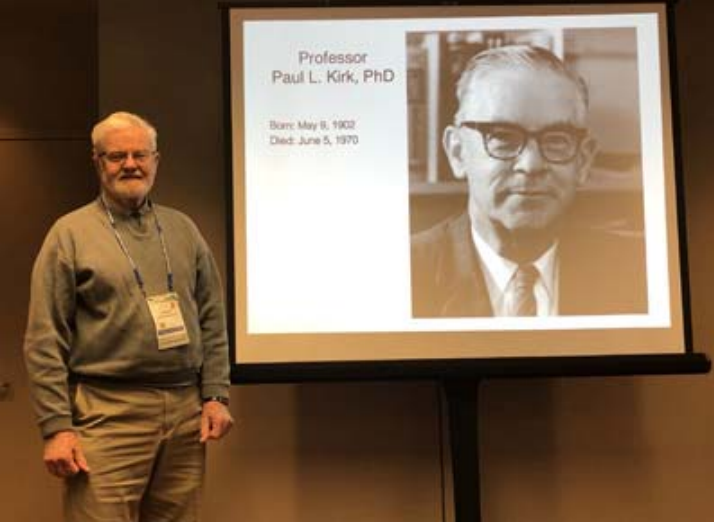
Please note that due to time constraints in publishing, some meeting notices may be available by calling Mel Pollinger at 201-791-9826, or emailing: [pollingmel@optonline.net](mailto:pollingmel@optonline.net)

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**Please remember to pay your dues**

**Buy and Read a Good Book on Microscopy.**

A few photos taken by Dr. Brooke Kamrath, Ph. D. during the Award Presentations at EAS in November 2018



## 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](mailto: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 contact 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.



**Dr. Adar will be receiving the ERNST ABBE Award at the EAS 2019.**

**Dr. Fran Adar, received her BS (1966), MS (1968) and Ph.D. (1972) in Physics from the University of Pennsylvania and her Post-doctoral Fellow and Assistant Professor – Johnson Foundation, Department of Biophysics, University of Pennsylvania (1972-1978). She joined Jobin Yvon/HORIBA Scientific in 1978 and is working as a Raman Applications Scientist/Manager/Principle Scientist.**

*(from the EAS February 2019 Retort)*

### Education

#### **The New York Microscopical Society Offers Courses and Workshops in all Phases of Light Microscopy:**

**Use of the Microscope:** Theory and techniques in light microscopy.

**Polarized Light Microscopy:** an advanced course for those who have completed "The Use of the Microscope" or are experienced in microscopy and familiar with the theory of its use.

Workshops include Care of the Microscope: Cleaning and adjustment of mechanical parts and optics, use of tools and cleaning fluids for both.

#### **Lectures & Outreach**

In addition to the courses and workshops, there is our Spring and Fall Lecture series which continue throughout each year. These lectures are usually in the form of presentations by noted professional and enthusiasts from a variety of fields in microscopy-related science and technology and are mostly held in our Clifton, N.J. headquarters.

Our various Outreach programs bring the science and fun of microscopy to teachers and students. The Outreach programs are held at off-site locations, such as Central Park, The Brooklyn Museum, etc.



# NEW YORK MICROSCOPICAL SOCIETY NEWSLETTER SUPPLEMENT SECTION

May 2019



◇ A Stacking Microscope,  
by Christian. Autotte, Montreal, Canada

◇ NYMS Historical Bulletins

◇ “Meet The Fishes” June event

◇ EAS, Short Course Schedule

◇ McCrone, Call for Papers

◇ Directions to NYMS, Clifton, NJ

◇ NYMS Items for Sale

◇ NYMS Membership Application

◇ NYMS Newsletter Gallery May 2019

Fireworks Photo by Mel Pollinger

# A STACKING MICROSCOPE

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**By : Christian Autotte, Montréal, Canada**

For many years now, I've been working with Stackshot from Cognisys. It's a motorised, programmable, and computer controllable focusing rail used for very precise focus stacking. The rail is capable of moving one micron at a time, which makes it capable of stacking in the realm of photomicrography.

Not too long ago I met someone who gave me an idea for a new project. He worked for a metallurgical company and had modified a microscope with the addition of a Stackshot rail to do automated focus stacking of tiny defects in machined parts. Right then and there I made the decision to emulate his idea.

One of my acquaintances owns a company that buy and sells used microscopes. Going through his warehouse, I spotted a bare bone Olympus; it had no eyepiece, no lens, and no lighting equipment. It did have revolving turret for four lenses and a decent condenser.

The first order of business was to dismantle everything and degrease it. As usual with a microscope that had been sitting idle for a long time, the lubricant had frozen to a solid pack. WD-40 and a lot of elbow grease restored all the parts to their usual mobility.

Then the measurements started. I needed to fix the Stackshot to the lower base of the microscope and the specimen plate/condenser to the moving part of the rail. The first problem to arise right from the start was the length of my focusing rail: it was too long by at least two inches. I thought of cutting it, but lacking the proper tools decided to abandon that idea very quickly.

A few emails to Cognisys brought a response from one of its founders, John DeSweeus, who informed me that it was economically unwise to modify my existing rail. Instead, he suggested making a new custom-made unit for \$300. I quickly accepted his offer as it also meant that my other rail would remain available for regular work.

The new rail came back within a week (excellent service!) and it fitted perfectly. Two holes were drilled and tapped in the "U" shaped harm of the microscope to mount the rail in position. I had to cut the bottom part of the focusing assembly of the condenser to make it fit, but it makes no difference in its operation. The stage and condenser assembly, which was previously attached to the microscope's arm, was then fixed to the moving part of the focusing rail and allowed to move up and down to play its intended role.

With the stage displaced, the microscope lenses were no longer aligned with the condenser. Fortunately, I was able to dismantle the ocular and its tube and add two inches of aluminum square tubing to realign lens and condenser. As an added benefit, I drilled and tapped two holes in that extension to mount a pair of articulated arms that can hold a macro twin-flashes (either Canon or Olympus) to light opaque subjects. In the process, I also eliminated the micro-focusing assembly, which was useless since fine adjustments would be made with the focusing rail itself.

With this microscope focusing is done by moving the tube holding ocular and lenses. Unfortunately, mounting a camera on such a tube can cause it to creep down and change the focus. Drill and tap were again brought into use: I added a new tightening screw just below the coarse focus control; once tighten, it presses against the rack and pinion that moves the tube and keeps it in place, the remaining focusing being done by the rail.

So far, most of the subjects that were shot with my new microscope were lit from above. They included butterfly wings, mouth parts and eyes of horseflies, thick forams, and various feathers. In some cases, the number of shots that had to

be stacked went well over a hundred. That's when the ability to work in tethering and control the rail by computer becomes invaluable.

The standard working procedure is then as followed. First, take a few shots to establish composition and proper exposure. Then, using Zerene Stacker through its computer interface, determine the first and last exposure with the number of shots necessary to make a stack where everything will be in focus; as mentioned, Stackshot can move by as little as one micron between shots. When working with a flash, a delay can be set between shots to allow for the flash to recharge. When everything is set, hit "start", make sure everything works perfectly, and go have a drink: tea, coffee, or a beer, as the case may be... Zerene Stacker starts stacking pictures as soon as the first ones are made and will have completed the work in about 30 to 45 minutes.

Since then, a microscope mirror was added to make it possible to use the condenser for more standard microscopic illumination.



© Christian Autotte

The old Olympus with a modified Stackshot



© Christian Autotte

A pair of "twin flash" on articulated arms



© Christian Autotte

The stacking microscope in action, controlled by Zerene Stacker through a laptop computer



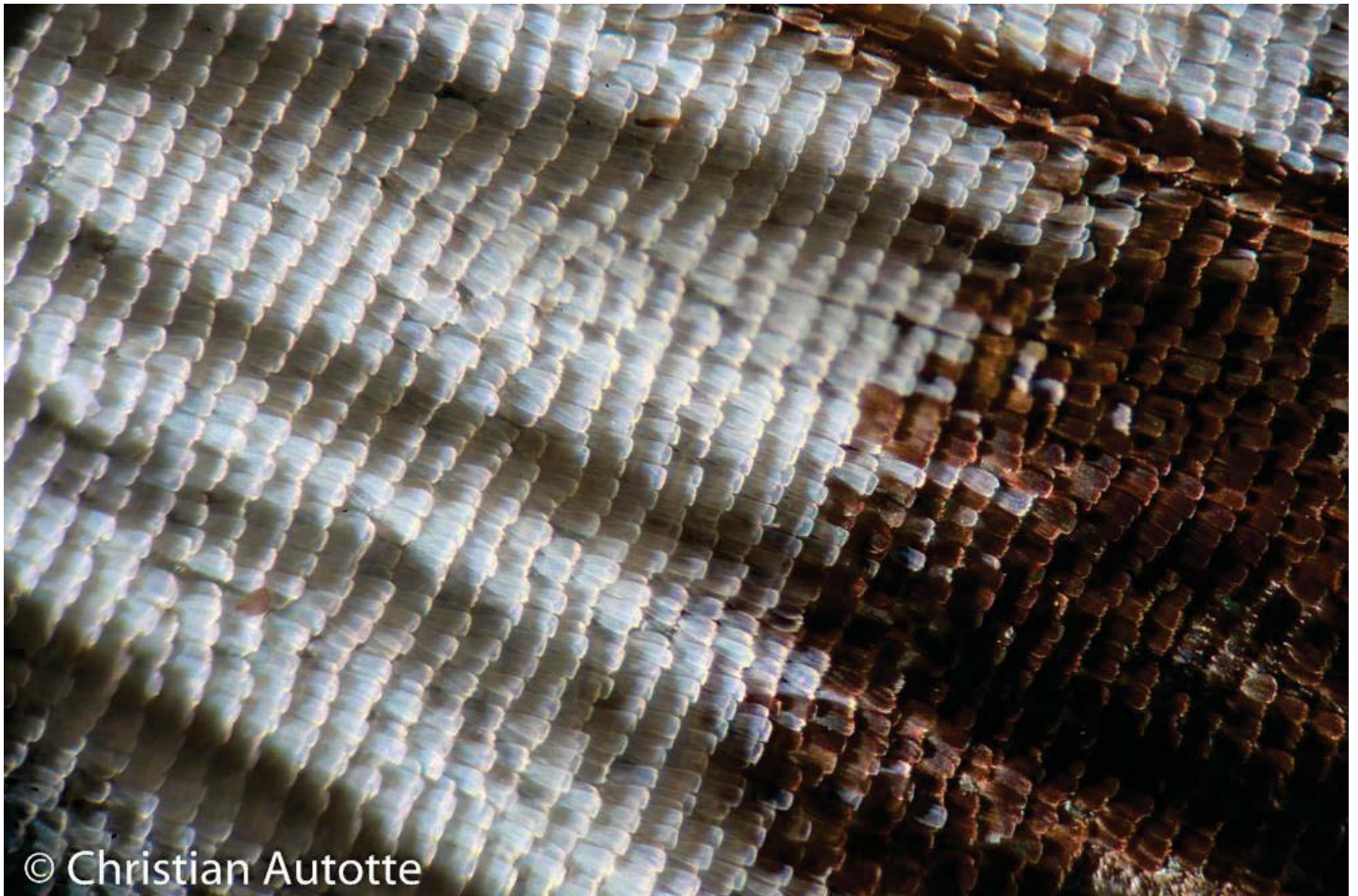
© Christian Autotte

Details showing the rail with the stage and condenser



© Christian Autotte

An extra screw added under the coarse focus to lock it in place



© Christian Autotte

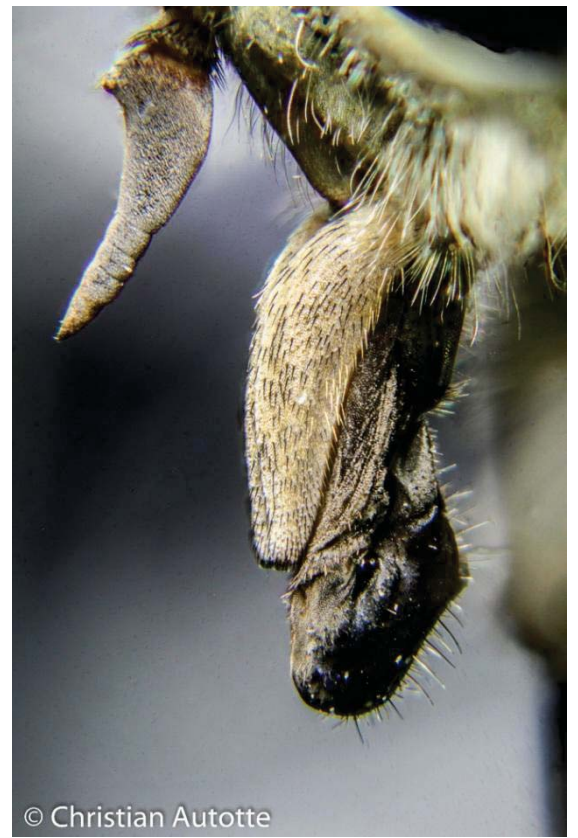
White admiral butterfly wing (stack of about 20 shots)





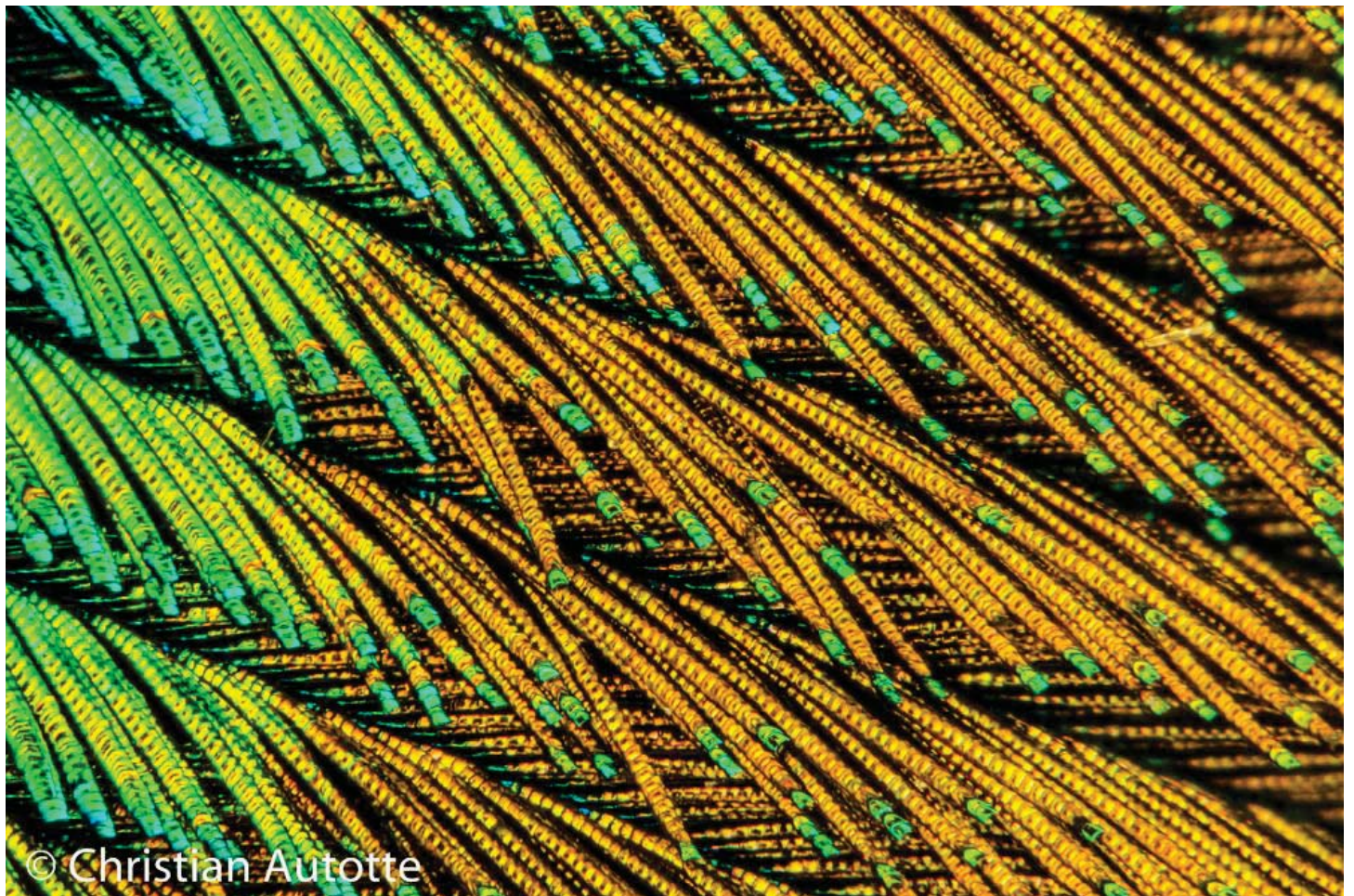
© Christian Autotte

Forams (stack of 25 shots)



© Christian Autotte

Mouthparts of Horsefly (stack of 18 pictures)



© Christian Autotte

Peacock feather (stack of 150 shots)

Comments to the author Christian Autotte welcomed, email: [cautotte.9001 AT videotron DOT ca](mailto:cautotte.9001@videotron.ca)

Published in the April 2019 issue of *Micscape* magazine.

[www.micscape.org](http://www.micscape.org)

Republished in the Newsletter of the New York Microscopical Society May 2019 with permission of the author, Christian Autotte.

## **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](mailto: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

**NYMS Note:** This is a wonderful family event, one of their hands-on stations is an opportunity for a close look at smaller Hudson River creatures through microscopes.

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**THE RIVER PROJECT**  
invites you to  
**MEET THE FISHES**  
of New York Harbor

Fishes, crabs, snails, and other animals are arriving at the Wetlab for "summer school!"

The Wetlab • Pier 40 at Hudson River Park  
West Street & Houston Street  
Tuesday, June 4 • 4-7pm

**FREE EVENT!**  
raffle • prizes • refreshments!

Info & RSVP: [info@riverprojectnyc.org](mailto:info@riverprojectnyc.org)

Guests will have the chance to splash with the fishes, crabs, turtles and other animals and participate in hands-on activities.

Refreshments and snacks will be served and wonderful prizes from our generous sponsors will be raffled!

For more information email [info@riverprojectnyc.org](mailto:info@riverprojectnyc.org)

### **Volunteer**

If you are interested in volunteering before or during the event, please email Siddhartha Hayes at [siddhartha@riverprojectnyc.org](mailto:siddhartha@riverprojectnyc.org)

# EAS 2019 Short Course Schedule



2019 Short Courses will be offered from **Sunday**, November 17 through **Wednesday**, November 20, 2019 from 8:30am – 5:00pm at the [Crowne Plaza Princeton – Conference Center](#) in Plainsboro, NJ.

EAS short courses are designed to help the practicing analyst develop new skills and enhance knowledge. Taught by experts, the short courses emphasize practical knowledge of a variety of important topics to help one keep current with best practices and new techniques. Whether you want to learn of a new analytical technology, understand new regulations, explore a new analytical field, or just brush up a new concept in your area of expertise, there is a course for you.

EAS's one-day and two-day short courses emphasize:

- A wide range of topics
- Interactive discussions
- Case studies for illustration
- Practical and problem solving tips

Located in the heart of the greater Northeast, EAS short courses are a convenient way to gain knowledge in the comfortable setting of a major conference at a reasonable price. Registration for the meeting is required.

## **EAS Pricing for 2019 Short Courses:**

Registration rates prior to **Oct. 15th** are \$575 for a one-day course and \$850 for a two-day course; note: pricing for courses is ***in addition to*** the Full Conferee registration.

Registration rates **after Oct. 15th** are \$775 for a one-day course and \$1,175 for a two-day course; note: pricing for courses is ***in addition to*** the Full Conferee registration fee.

**NEW for 2019!** EAS will be offering short course student rates of \$70.00 for full-time students (proof of ID required); plus full-time student registration fee of \$30.00 Stay tuned for more details.

## ***2019 List of Short Courses***

<b># of Days</b>	<b>Course Names</b> <i>Click on course title for description</i>	<b>Instructors</b>
2-day	<u>Modern Mass Spectrometry: Fundamentals to Frontiers</u> <b>(NEW)</b>	Athula Attygalle, Stevens Institute of Technology
2-day	<u>Practical LC-MS Method Development for Small Molecule Pharmaceuticals</u>	Perry Wang, LC-MS Technical Expert
2-day	<u>Modern HPLC/UPLC For Practicing Scientists Part 1 &amp;/or 2: Fundamentals, Best Practices and Applications</u>	Michael W. Dong, MWD Consulting
2-day	<u>Quality-by-Design (QbD): A New Paradigm for the Analytical Laboratory Part 1 &amp;/or 2</u>	Zenaida Otero Gephardt, Rowan University
2-day	<u>Systematic LC and GC Troubleshooting</u>	Merlin K.L. Bicking, ACCTA, Inc. Douglas E. Raynie, SD State University
2-day	<u>LC/MS: Theory, Instruments, and Applications</u>	Guodong Chen, Bristol-Myers Squibb Ragu Ramanathan, Pfizer
2-day	<u>How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting</u>	Brian Bidlingmeyer, Analytical Acumen Inc. Stanley Deming, Statistical Designs
2-day	<u>Chemometrics without Equations Part 1 &amp;/or 2</u>	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector
1-day	<u>High-Performance TLC, Planar Chromatography Beyond the Ordinary!</u> <b>(NEW)</b>	Eike Reich, HPTLC Association Maged Sharaf, HPTLC Association

1-day	<u>Faster HPLC Method Development and Optimization of Polar and Nonpolar Analyte Mixtures (NEW)</u>	Joseph Pesek, San Jose State University Maria Matyska-Pesek, San Jose State University
1-day	<u>A Systematic Way to Prepare Your Laboratory for Pre-Approval Inspections (PAIs) and Compliance Audit</u>	Kim Huynh-Ba, Pharmalytik Consulting
1-day	<u>The Chromatographic and Spectroscopic Tools of an Analytical Chemist for Measuring Polycyclic Aromatic Compounds in Complex Samples (NEW)</u>	Andres Campiglia, University of Central Florida Walter Brent Wilson, National Institute of Standards and Technology
1-day	<u>Raman Microscopy Imaging (NEW)</u>	Carlos Morillo, JASCO Inc.
1-day	<u>Polymers: An Introduction and Characterization Techniques (NEW)</u>	Diep Nguyen, Illinois Institute of Technology
1-day	<u>Effective Utilization of PDA and MS Data in LC &amp; SFC Method Development (NEW)</u>	Joseph Turpin, S-Matrix Corporation
1-day	<u>Process Analytical Technology and Quality by Design Integration for Effectiveness in the Analytical Lab (NEW)</u>	Zenaida Otero Gephardt, Rowan University
1-day	<u>Headspace-Gas Chromatography Fundamentals, Method Development and Method Transfer (NEW)</u>	Matthew Klee, XO Associates LLC
1-day	<u>Mass Spectrometry Fundamentals for Operators (NEW)</u>	Matthew Klee, XO Associates LLC
1-day	<u>HPLC and UPLC Troubleshooting</u>	Imad Haidar Ahmad, Merck & Co.
1-day	<u>Practical NMR Spectroscopy</u>	Damodaran Achary, University of Pittsburgh
1-day	<u>Analytical Sampling and Sample Preparation</u>	Douglas E. Raynie, SD State University

1-day	<u>How Liquid Chromatography Works: Separation Principles Explained in Chromatograms</u>	Martin Gilar, Waters
1-day	<u>Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, and Bioanalysis</u>	John Kellie, GlaxoSmithKline Wenying Jian, Janssen R&D
1-day	<u>Physical Characterization and Methods of Analysis of Pharmaceutical Solids: Essential Knowledge</u>	Stephen Byrn, University of Purdue Sean Chen, Antares Pharma
1-day	<u>Modern Portable Analytical Spectroscopy</u>	Richard Crocombe, Crocombe Spectroscopic Consulting Pauline Leary, Federal Resources
1-day	<u>Supercritical Fluid Chromatography (SFC): A Powerful and Greener Tool for Analytical and Preparative Separations</u>	Yingru Zhang, Bristol-Myers Squibb Mike Hicks, Merck & Co.
1-day	<u>Introduction to Chemometrics Without Equations</u>	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector
1-day	<u>Multivariate Image Analysis Without Equations</u>	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector
1-day	<u>Modern Size Exclusion Chromatography of Synthetic Polymers and Biopolymers</u>	Howard Barth, Analytical Chemistry Consultants, Ltd Brian Bidlingmeyer, Analytical Acumen Inc.
1-day	<u>Life Cycle Management of Analytical Validation for Pharmaceutical Products</u>	Kim Huynh-Ba, Pharmalytik Consulting
1-day	<u>Getting the most from GC and GC/MS</u>	Gregory Slack, PharmAssist Nicholas Snow, Seton Hall University



1-day	<u>Interpretation of Mass Spectra with Practical Solutions to Problems</u>	Mike Lee, Milestone Development
1-day	<u>Life Cycle Approach to Analytical Methods for Drug Products, Incorporating QbD Concepts</u>	Gregory Martin, Complectors Consulting



2820 South Michigan Avenue  
Chicago IL 60616



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## Inter/Micro 2019

Call for Papers 2019 -  
Abstract  
Submission Guidelines

Schedule of Events

Workshop: Fungal Spore  
Identification from the Air

State Microscopical Society of  
Illinois Awards Dinner and  
Live Auction

An Evening with Brian:  
"Poo Bare"

Hotels

Transportation  
and Directions

Exhibitors and  
Company Sponsors

About Inter/Micro

Past Inter/Micro Conferences



## Call for Papers 2019 - Abstract Submission Guidelines

**Inter/Micro 2019 • June 10 – 14, 2019 • McCrone Research Institute, Chicago**

McCrone Research Institute cordially invites you to participate in Inter/Micro 2019 by giving a presentation of your research paper in any of the subjects listed below. Research presentations will be held 9:00 a.m. – 5:00 p.m., June 10 – 12, 2019 at McCrone Research Institute. A two-day workshop will be held on June 13 – 14, 2019.

The deadline to submit abstracts is March 15, 2019.

Papers are being solicited in the following subjects:

- Photomicrography and scientific digital imaging
- Microscopes (confocal, fluorescence, scanning tunneling, polarizing, etc.)
- White powder and bioterrorism threats
- Resources, books, atlases, databases
- Historical topics
- Criminalistics, forensic microscopy and trace evidence (fibers, explosives, paint, glass, drugs, inks, etc.)
- Art conservation and authentication
- Pharmaceuticals
- Environmental and hazardous dusts, aerobiology (asbestos, mold, fungal spores, indoor air quality)
- Geographical sourcing
- Teaching microscopy/education
- Microscopy tricks of the trade
- Micro-analytical methods: SEM/EDS, TEM, FTIR, Raman
- Industrial microscopy, crystallography, mineralogy


Please follow these three easy steps for submitting an abstract of your presentation:

1. Limit abstract length to 200 words.
2. Include title, author name(s), company or institute name(s), address, telephone, fax, and email address.
3. Submit your abstract as a Word document (no PDFs, please) to [intermicro@mcri.org](mailto:intermicro@mcri.org).

Inter/Micro  
McCrone Research Institute  
2820 S. Michigan Avenue  
Chicago, IL 60616-3230

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

Please call or email us for more information on abstract submissions and conference registration. Authors

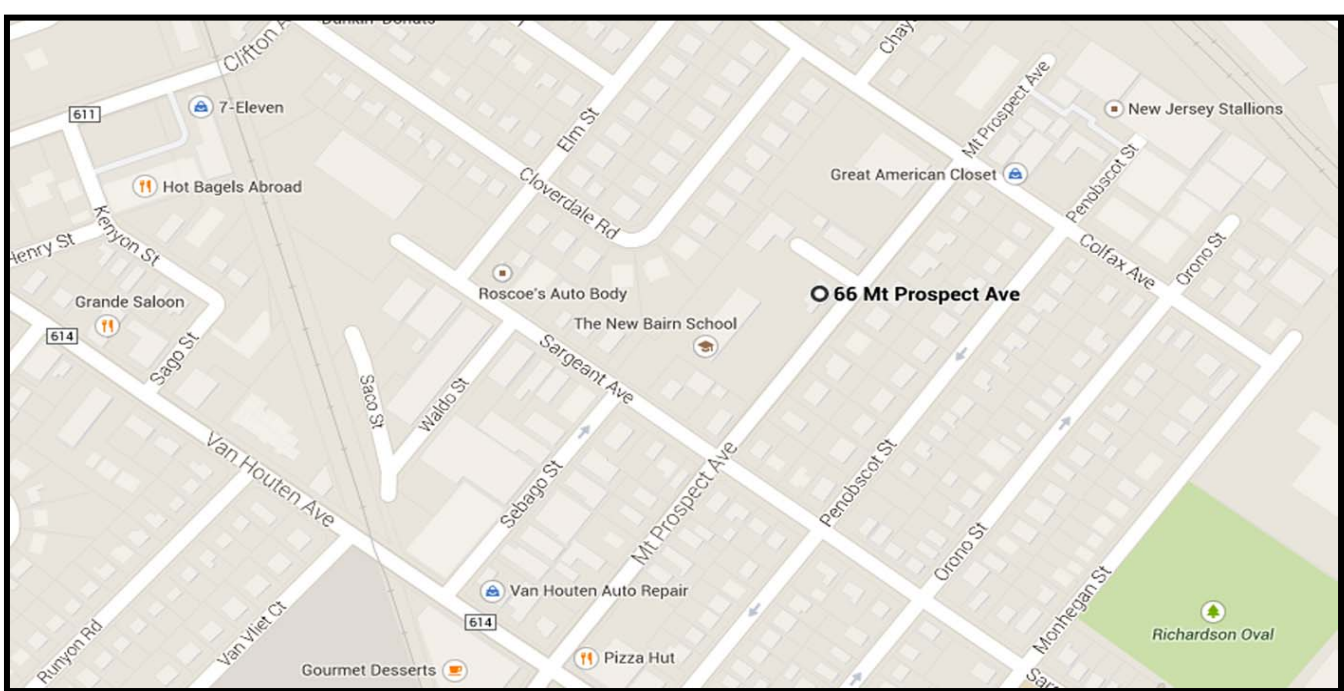


will be notified if their abstract is accepted or rejected. A computer for PowerPoint presentations and an overhead projector will be available for speaker presentations. Speakers should prepare for a 20-minute talk and 2 – 3 minutes for questions.

Inter/Micro is an internationally recognized conference that attracts microscopists from all areas of light and electron microscopy. Research presentations given during the first three days cover techniques and instrumentation, environmental and industrial microscopy, and forensic and chemical microscopy.

[Sign up for our mailing list to receive information about Inter/Micro, our microscopy courses, publications and other events](#)

We look forward to seeing you in Chicago!



## **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=TripPlannerItineraryTo)

[http://www.njtransit.com/sf/sf\\_servlet.srv?hdnPageAction=BusSchedulesP2PTo](http://www.njtransit.com/sf/sf_servlet.srv?hdnPageAction=BusSchedulesP2PTo)

[http://www.njtransit.com/sf/sf\\_servlet.srv?hdnPageAction=TrainTo](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

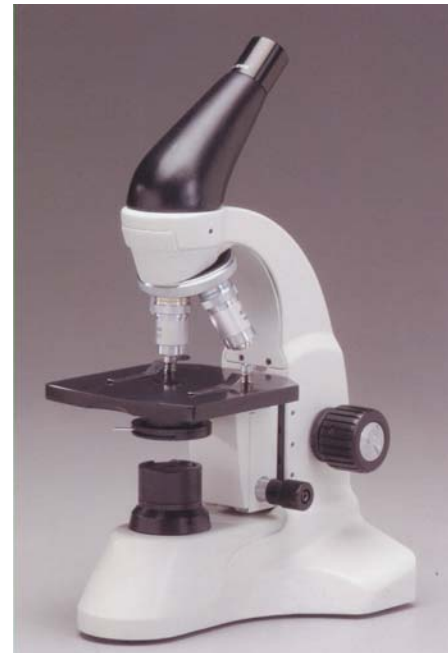
\*When available



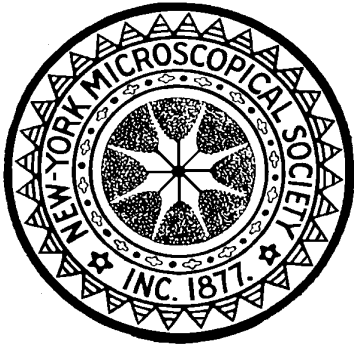
Model 131  
Model 131: Tungsten  
Model 131-FLU: Fluorescent



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

**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**

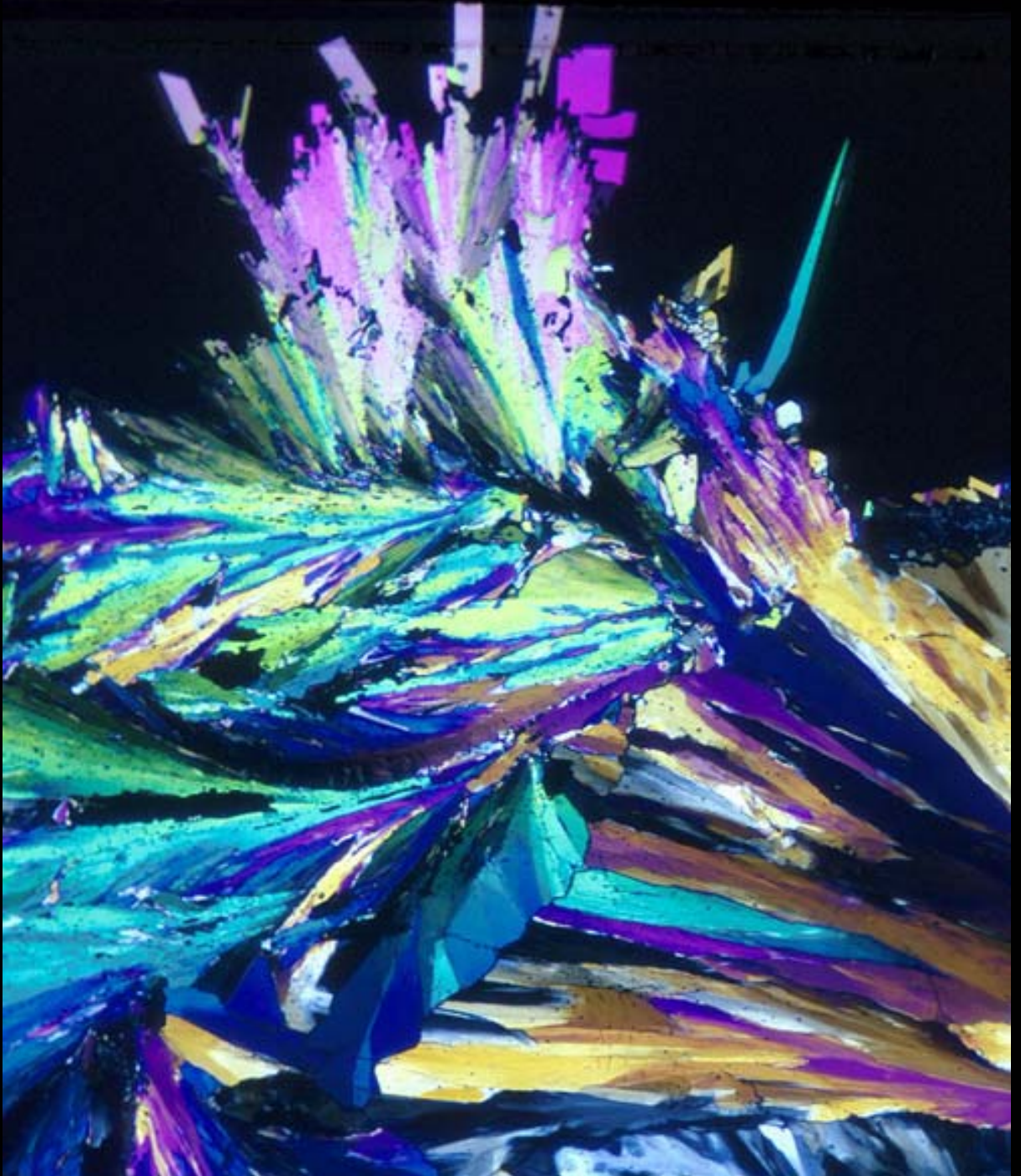
Polarized-light photomicrographs of some chemical crystallizations. Preparations and imaging by Mel Pollinger



Aspirin50xP1250910



Benzidine50xP1141612

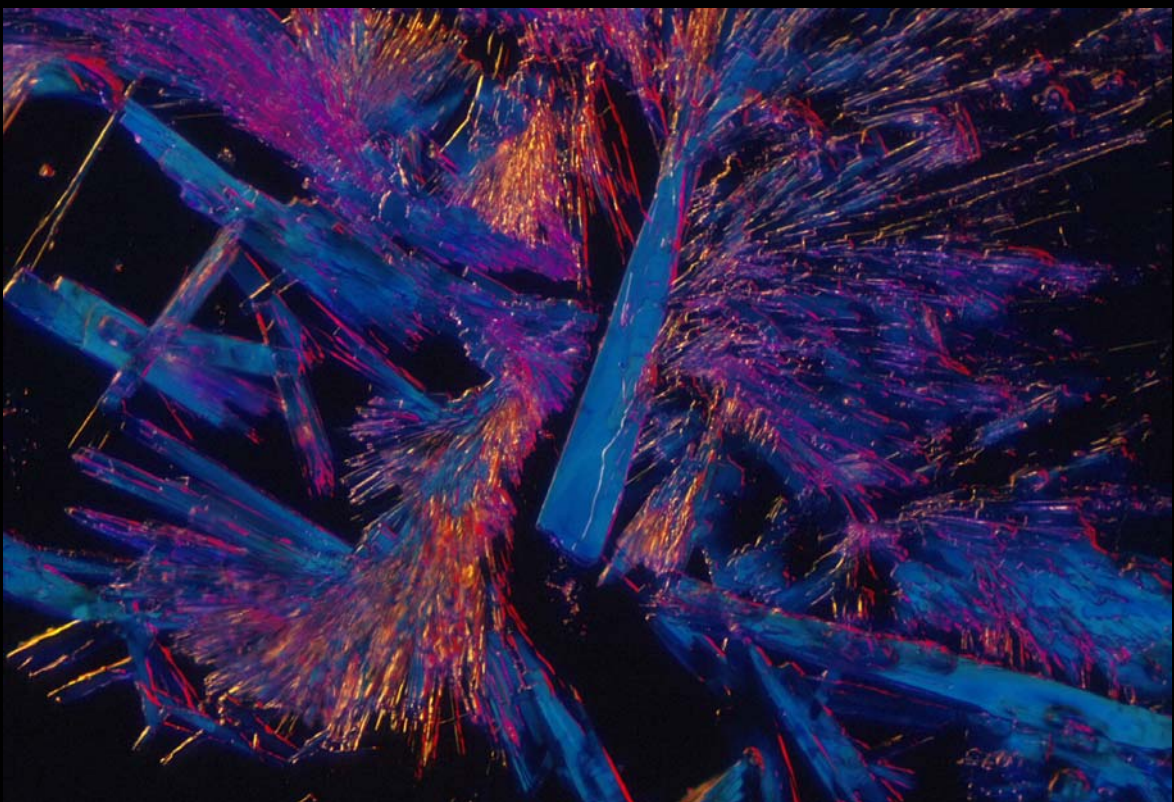


Cephradine50xP1240238 v5x7x100

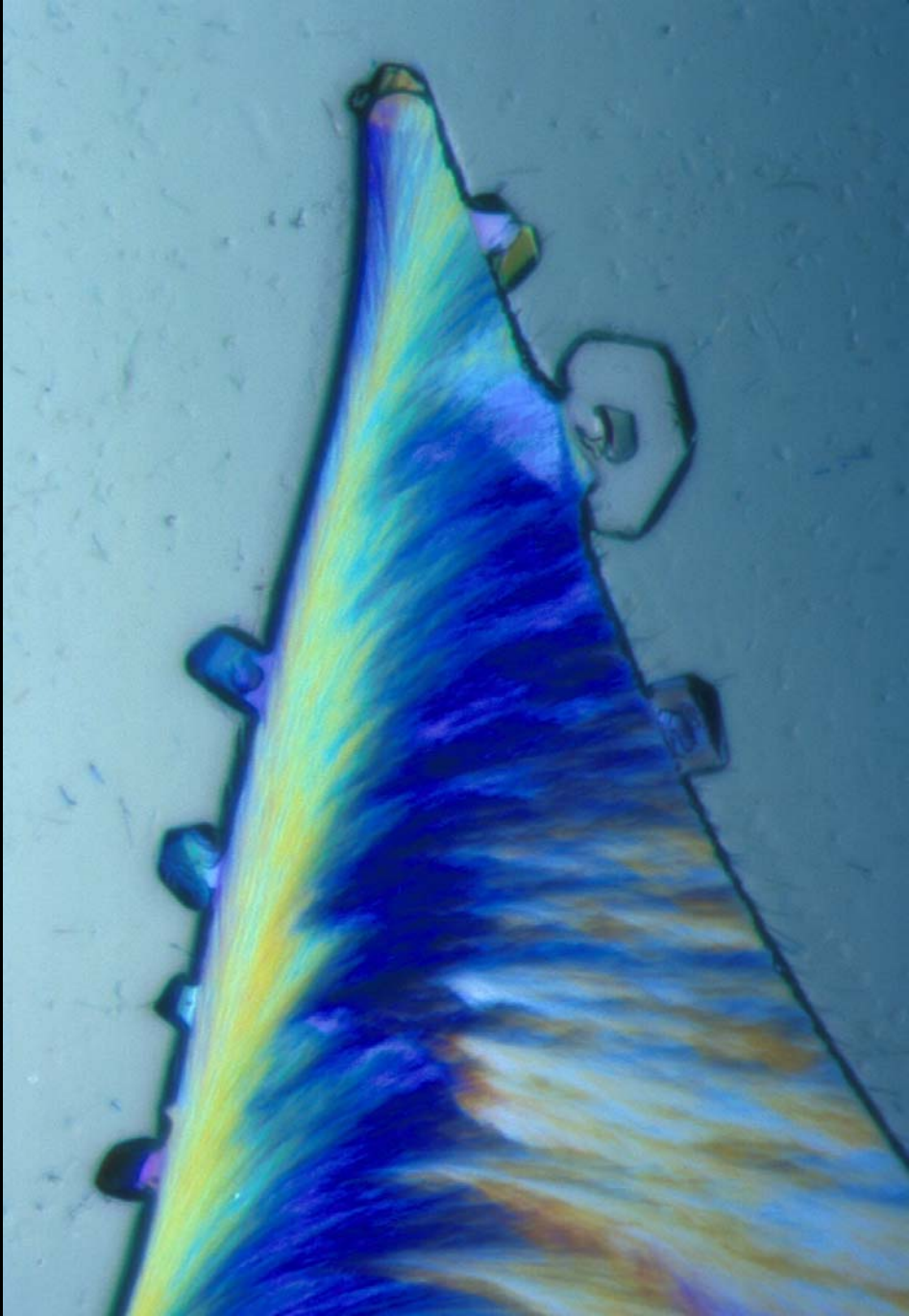




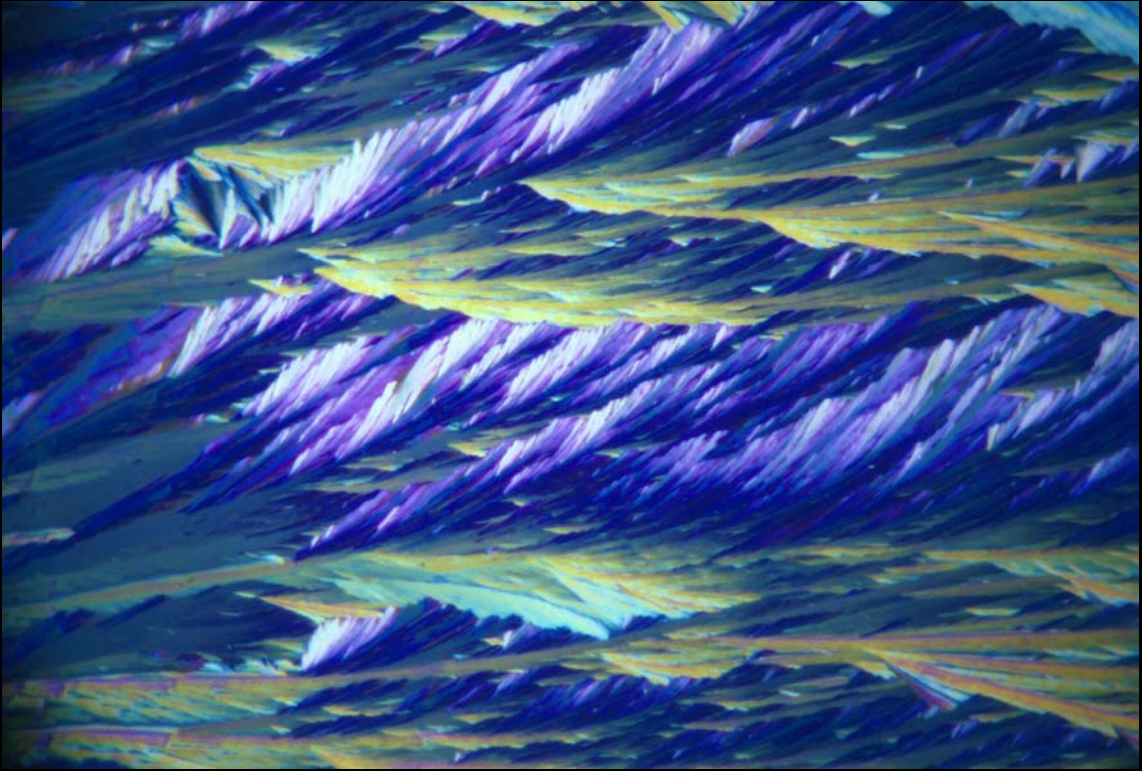
Sulfanilamide25xP0532216



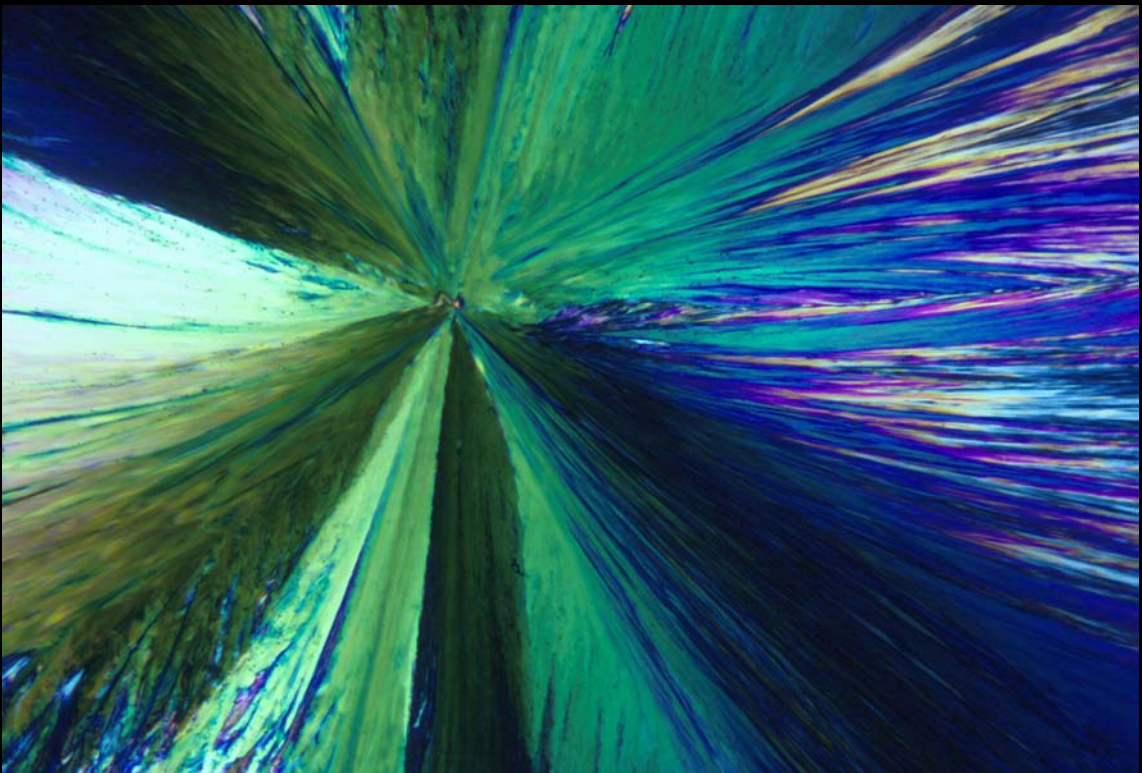
Penicillin,100xP1652101



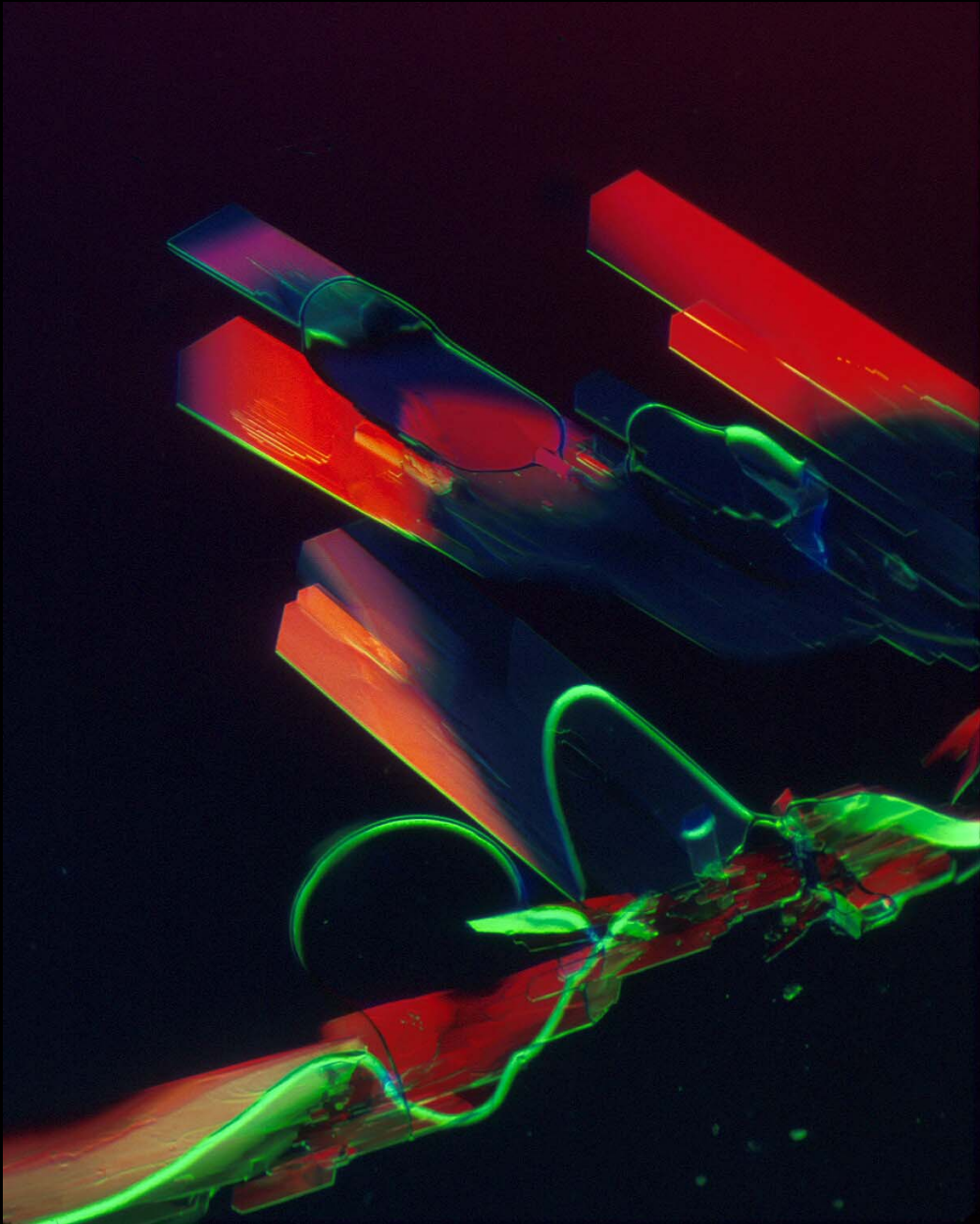
Cholestrol100xP0612504



Sulfosal50xP0550427



Vanillin50xP0592938



L-Valine100xP1510318D