



# 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

March 2011

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

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## Meeting Announcement

### New York Microscopical Society, 2011 Spring Lecture Series

Sunday, March 27, 2011, Lecture starts at 2:00 P.M.  
NYMS Headquarters, Clifton, NJ

#### Should Microscopists Take Note of the Micro Four Thirds Digital Sensor Standard? Presentation by Jan Hinsch.

In regard to versatility the single lens reflex camera (SLR) and now its digital incarnation, the DSLR, have been without a rival up to the introduction of the micro four thirds (m 4/3) standard, which makes possible a new type camera of comparable versatility. It does away with mirrors and prisms and replaces them with an electronic viewfinder. The result is a significant reduction of weight and size and a bright viewfinder image, which is well suited to critical focusing. It also shrinks the DSLR flange-to-image distance from approximately 50 mm to 20 mm so that older interchangeable lenses, macro bellows and photo micrographic attachments from the heydays of 35 mm SLR rangefinder cameras with interchangeable lenses can be restored to usefulness by the simple addition of an adaptor ring.

In this talk I like to report on the merits of this style camera for photo micrographic documentation and embed this topic in the wider context of adapting any camera with interchangeable lenses to the microscope. Jan Hinsch. (See page 3, bottom left)

CV Jan Hinsch: Joined Leica/Leitz 1958, retired in 2003, Immigrated to the US 1964, lived in Durham NC, Washington DC, 1978 Moved to NJ 1978, appointed director of the Leitz Microlab, Member of NYMS, 1995 Ashby Award, 2002 Ernst Abbe Award, shared with Mortimer Abramowitz and Ernst Keller

**Building opens at Noon. Refreshments are available. Following the meeting, NYMS members and their guests are welcome to join the speaker for Dinner at a selected, local restaurant. Cost to members and their guests is \$25.00 per person. Please contact Roland Scal (rscal@qcc.cuny.edu; 718-631-6071) by noon on Saturday, March 26th to RSVP for dinner.**

#### Jay Holmes February 2011 Presentation



Memoriam: Mary McCrone – see page 3

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**Board Member**

John Scott, exp. June 2012

**Archivist & Associate Curator**

**Dues and Addresses**

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

Junior (under age 18) \$10 Annually

Regular \$30

Student (age 18 or above) \$20 Annually

Supporting \$60 Annually

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

Life \$300 (payable within the year)

To avoid missing notices:

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

**The Mission of the New York Microscopical Society**

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

**Alternate Meeting Notifications**

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



**From The Editor...if you have email:**

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

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**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.



*Buy and Read a Good Book on Microscopy.*

## Lucy McCrone Dies at age 87

### **From Chicago Tribune:**

Lucy, B. McCrone, **nee Beman**, Age 87, a resident of Chicago since 1957, died February 10, 2011. Mrs. McCrone was born July 16, 1923 in Buffalo, New York. Beloved wife of the late Dr. Walter C. McCrone; cherished sister of Mary Blaisdell; fond aunt of John Blaisdell. Mrs. McCrone worked as chemical microscopist for Walter C. McCrone Associates until 1984 and was co-founder and director of McCrone Research Institute in Chicago since 1960, where she still worked until this year. At Mrs. McCrone's request, there will be no funeral. In lieu of flowers, please make donations in Mrs. Lucy B. McCrone's name to her Scholarship Fund at the McCrone Research Institute, the Jane Goodall Institute, or another charitable organization of your choice. There will be a memorial service at some later date. For more information call 312-842-7100.



**Peter Diaczuk and Lucy**

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### **Jan Hinsch's Talk**

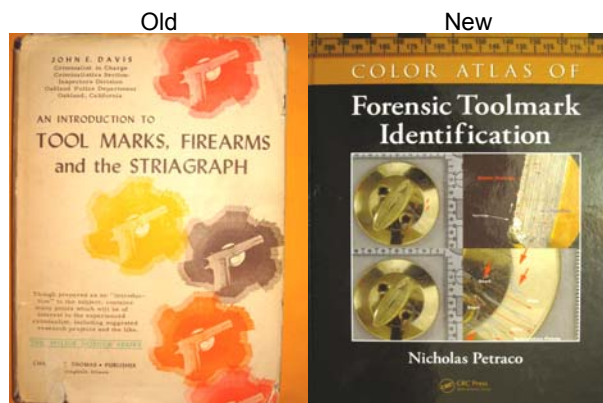
Jan's photomicrographic setup as shown in

### **The Microscope.**

## **World's Most Powerful Optical Microscope: Microscope Could 'Solve the Cause of Viruses'**

*ScienceDaily (Mar. 2, 2011)* — Scientists have produced the world's most powerful optical microscope, which could help us to understand the causes of many diseases. Writing in the journal *Nature Communications*, the team have created a microscope which shatters the record for the smallest object the eye can see, beating the diffraction limit of light. Previously, the standard optical microscope could only see items around one micrometer -- 0.001 millimeters -- clearly. But now, by combining an optical microscope with a transparent microsphere, dubbed the 'microsphere nanoscope', the Manchester researchers can see 20 times smaller -- 50 nanometers ((5 x 10<sup>-8</sup>m) -- under normal light.

This is beyond the theoretical limit of optical microscopy.  
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### **Book review by Peter Diaczuk**

#### **Color Atlas of Forensic Toolmark Identification**

by Nicholas Petraco, 2011, CRC Press, ISBN 978-1-4200-4392-1

A modern comprehensive text on toolmarks is now available. Not since the pivotal work of Davis over 50 years ago has a thorough treatment of toolmarks been performed (John E. Davis, *An Introduction to Toolmarks, Firearms and the Striagraph*, 1958). This is a stand-alone book, as it includes chapters on microscopes and microscopy, principles of optics, a primer on tools themselves, how these tools interact with common surfaces encountered at crime scenes (leaving microscopic striations or impressions), how to make exemplar marks from suspect tools for comparison to unknown marks, the statistical foundation for making conclusions about comparisons, and case examples from the author's vast experience as a Criminalist / Detective with the NYPD, where the above topics coalesced into a complete package.

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Inter/Micro: 62nd Call for Papers  
July 11-15, 2011 - Inter/Micro: 62nd Annual  
Applied Microscopy Conference, Chicago, IL,  
USA, Titles & Abstracts due by April 15, 2011  
Contact: Therese Newman  
e-mail: [intermicro@mcrl.org](mailto:intermicro@mcrl.org)  
Phone: 312-842-7100  
Fax: 312-842-1078  
[www.mcrl.org](http://www.mcrl.org)

**NYMS Open Tuesday Evenings**  
NYMS Headquarters at Clifton, NJ will be open  
to members from 8:00pm to 10:00pm most  
Tuesday evenings. Those members wishing to  
visit must call Don O'Leary to confirm. Don's  
cell-phone number is (201) 519-2176.

### Microscope Cleaning Kit

A complete set of tools and accessories to keep  
your microscope in optimum operating  
condition. The kit is put together by our  
Curator/Educational Chairman and available  
directly from NYMS for only \$35.00 plus  
shipping & handling, or may be purchased at a  
meeting. Call or email Mel Pollinger or Don  
O'Leary for details (see page two for contact  
numbers).

### NYMS 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.

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### Course Instructors

The course instructors include, Jan Hinsch  
formally of Leica, Inc., Mary McCann of McCann  
Imaging, Dennis O'Leary of Micro-Optical, John  
Reffner of John Jay College and N.Y.M.S.  
Instructor Don O'Leary.

*Xerox and Wurlitzer will  
merge to produce reproductive  
organs*

### Answer to Mystery Photo for February 2011



Hair follicles on third pair leg of honey bee.

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### Mystery Photo for March 2011



Want to take a guess? Send it to me by  
email or call me:

[pollingmel@verizon.net](mailto:pollingmel@verizon.net), (201) 791-9826

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### Additional Historical NYMS Supplements

Email Newsletter recipients will also be getting  
copies of NYMS Newsletter pdf back-Issues from  
2007. Copies of older newsletters will be sent as I  
convert them.

Got something you want to sell, trade or publish in the  
Newsletter and/or on the website? Write, call or send an  
email message to:

201-791-9826 or [pollingmel@verizon.net](mailto:pollingmel@verizon.net) (images accepted)  
or

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