



Newsletter

Of the

New York Microscopical Society

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Meeting Announcement: 2007 Winter Lecture Series

"Effects of gravity on cultured bone cells"

Dr. William Landis, Professor, Department of Microbiology, Immunology and Biochemistry and in the Department of Orthopedic Surgery at the Northeastern Ohio Universities College of Medicine

Thursday, January 25th, 2007, 7:30 pm
American Museum of Natural History, People Center, New York, NY

Many bones of vertebrates normally adapt to changes in mechanical forces, including the force of gravity. Typically the mass of responsive bones increases or decreases with increasing or decreasing force, respectively. This presentation will describe compositional and structural effects on cultured normal bone cells flown in microgravity during a series of NASA Shuttle spaceflights, retrieved on landing and analyzed by molecular biological techniques and light and electron microscopy. The data will be compared to results from the same cultured bone cells maintained at normal (1G) gravity. The information obtained from the NASA flights provides insight into the means by which bone mass is lost by astronauts in spaceflight and can be extrapolated to the observed bone mass loss in individuals confined to bed for long periods of time or lacking exercise and other forms of physical activity.

William J. Landis, Ph.D., is a professor in the Department of Microbiology, Immunology and Biochemistry and in the Department of Orthopedic Surgery at the Northeastern Ohio Universities College of Medicine (NEOUCOM) in Rootstown, Ohio. He holds joint faculty appointments at Kent State University, the University of Akron, Case Western Reserve University and the University of Pennsylvania. Prior to his relocation to NEOUCOM eight years ago, he was an associate professor of Orthopedic Surgery and Anatomy and Cellular Biology at the Children's Hospital and the Harvard Medical School, Boston. He has research interests in biomineralization, tissue engineering, and the effects of mechanical forces on mineralized tissues, and he has published more than 125 peer-reviewed journal articles, book chapters, and reviews in these areas. His long-standing research programs are supported principally by the National Institutes of Health and the National Aeronautics and Space Administration. He has been a Senior Fulbright Scholar at the Weizmann Institute of Science in Rehovot, Israel, and the recipient of several honors and awards for his research studies. He is a member of numerous scientific organizations, including MSA, MAS, the New England Society for Microscopy (NESM), and the Microscopy Society of Northeastern Ohio (MSNO).

NYMS Members and their guests are welcome to join the speaker for dinner (\$25.00 all inclusive) at 5:45 pm at Calle Ocho (<http://www.calleochonyc.com/>), 446 Columbus Ave., NYC. Please reserve your place(s) with Angela Klaus by noon Jan 23rd. Angela can be contacted by email (avklaus2@yahoo.com) or by phone (201-988-6251).

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Our Mission

The object 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.

Please remember to mail in your Dues to Mary McCann, Membership Chair (see page 2 for address).

To avoid missing notices: Notify Mary if you have changed your address, phone or email.

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.

Buy and Read a Good Book on Microscopy.



Xuan Liu, October 2006

Xuan Liu came to the USA, and specifically to John Jay College, in June as a visiting scholar from China. Xuan is an Associate Professor in Forensic Science at the Yunan Province Police Officer Academy. Her degree is in forensic science, and her research interests include criminalistics, trace evidence and crime scene reconstruction. Xuan will be here until June 2007, when she returns to China with the wealth of knowledge that she will have gained. Xuan Liu attended our Use Of The Microscope course.

Holiday Banquet 2006



Some NYMS members and guests enjoying Happy Hour before the feast.



Mystery Photo – Do you think you know what it is? Email or phone me your answer.
Mel



A Thanksgiving card to all the members of NYMS from Fred Smokay in Florida.

Fred: The same and Happy New Year's from the gang at NYMS.

Did you know that NYMS has numerous microscopes and related items for sale?
Did you know that NYMS now has a small machine shop for use by its members?



Guest speaker Dr. Gary Hunnicutt with a most interesting presentation at our Holiday Banquet. I believe we came away with a fresh understanding of what is occurring during the passage of spermatozoa through the epididymus. I found the images depicting the changes to the anatomy of the spermatozoa, during its passage to the uterus, to be uncomplicated, yet lending a comprehensive understanding of the changes between the male and female fluid dynamics and chemistries comprising these wonderful systems.

Got something you want published in the Newsletter?

- Technical article
- Images
- For sale
- Wanted to buy
- Any microscopy-related item

Write, call or send an email message to:
201-791-9826 or
pollingmel@verizon.net
or
Mel Pollinger
18-04 Hillery Street
Fair Lawn, NJ 07410



Former President Pauline Leary receives the Ashby Award from President Peter Diazcuk.



Marge Walsh, past president, receives the Ashby Award from President Peter Diazcuk.

Regarding how you can receive future newsletters, you may choose one of the following methods:

1. Regular mail, gray scale images: Do nothing. Color may continue.
2. Email with full color images, pdf file: Needs your active email address.