

The Focal Point

Newsletter for the Indiana Microscopy Society

April 2008

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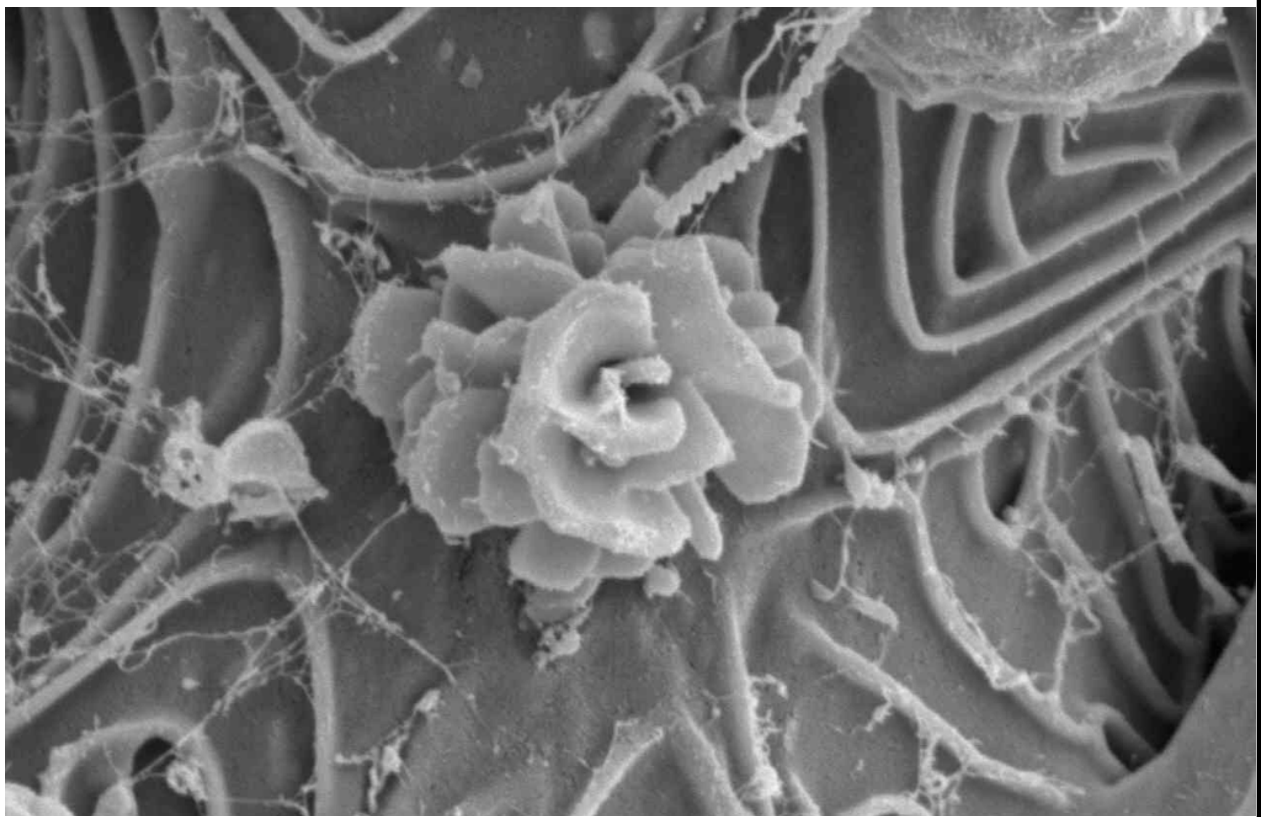


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Indiana Microscopy Society Officers

President	Weiming Yu	wmyu@iupui.edu
Past President	Vincent Gattone	vgattone@iupui.edu
President Elect	Michail Esterman	Esterman@ccrtc.com
Secretary	Michael Goheen	mgoheen@iupui.edu
Treasurer	Clif Duhn	cduhn@iupui.edu
Newsletter Editor	Janice Pennington	jgpennin@iupui.edu
Web Site Coordinator	Traci Miller	tracmill@iupui.edu
Affiliate Liason/ Program Chair	Caroline Miller	camill@iupui.edu
Biological Sciences Representative	Vacant	
Physical Science Representative	Robert Walson	rwatson@sbcglobal.net
Student Representative	Pam Young Murielo	payoung@iupui.edu

Cover

The cover is a scanning electron micrograph of the surface of a zebrafish, *Danio rerio*, ready for spring. The sample was fixed conventionally, dried using a critical point dryer and then coated with 20nm gold/palladium. The zebrafish was imaged using a JEOL 6390 Scanning Electron Microscope at 15 KV. This image was taken by Janice Pennington and was the winner of the biological micrograph competition at the INMS Spring Meeting.

Indiana Microscopy Society Fall Meeting

November 7th, 2007



Guest speakers Tuli Mukhopadhyay and James F. Leary with INMS President Weiming Yu



President-elect and Program Co-Chair Michail Esterman, Program Co-Chair Caroline Miler, with Secretary Mike Goheen.

The INMS Fall meeting was held in the evening at the Clarion Pathology Building on the IUPUI campus on November 7th, 2008. Before the meeting, attendees visited while enjoying a catered meal from Qdoba Mexican Grill.

Dr. Tuli Mukhopadhyay from the Department of Biology, IU Bloomington, gave a lecture on high resolution cryo-electron microscopy of viruses.

James F. Leary, a Professor of Nanomedicine, and Basic Medical Sciences and Biomedical Engineering from Purdue University lectured on high speed interactive molecular imaging with laser opto-injection of macromolecules and cell sorting.

Indiana Microscopy Society
Spring Meeting 2008
Indiana University, Bloomington
April 18th from 8:30 AM- 5:30 PM

8:30 AM Registration and Continental Breakfast
\$20 for INMS members, \$30 for non-members, students free

Material Science Talks (Simon Hall 001)

9:30 AM Bogdan Dragnea, IN University, Chemistry
"On viruses, nanoparticles and optics with them"

10:00 AM BJ Zhang, IN University, Chemistry
"Chiral helicity in C3-symmetric switch"

11:00 AM Lyuda Bronstein, IN University Chemistry
"Magnetic Nanoparticles with Functional Exterior as Building Blocks of Novel Materials"

11:30 AM **Workshops/Technical Discussion Groups**
Tomography, Biological Electron Microscopy, Real-Time Imaging, General Fluorescence Microscopy, Confocal and 2-photon microscopy, EELS, EDS and STEM

Biological Science Talks (Simon Hall 001)

2:00 PM Petr Leiman, Purdue University, Biology
"Structure, function, and evolution of bacteriophage tails"

2:30 PM Clay Fuqua, Indiana University, Biology
"Microscopic examination of tick-borne microbial symbionts"

3:15 PM Ke Hu, Indiana University, Biology
"How to Build a Parasite: The Cytoskeletal Biogenesis of *Toxoplasma gondii*"

3:45 PM Bruce Molitoris, IU School of Medicine, Nephrology
"Visualizing pathophysiology and therapy in acute kidney injury"

Student and General Membership Poster Contest
Must submit and abstract and be present to win.

Micrograph Contest

Breakfast and Lunch provided with registration.
Parking Permit required.

Student Poster Contest

- Must be a registered student at a college or university
- Send your poster abstract to Caroline Miller, camiller@anatomy.iupui.edu
- Poster may be new or may have been presented at a previous meeting
- Will be judged by popular vote
- Winner in each category, Biological and Material will receive \$50 and be recognized in the society newsletter

General Poster Contest

- Send your poster abstract to Caroline Miller, camiller@anatomy.iupui.edu
- Will be judged by popular vote
- Winner in each category, Biological and Material will receive \$50 and be recognized in the society newsletter

Image Contest

- Bring your favorite image in a printed 8 x10 format for all to enjoy
- Be sure to check your image in at the registration desk where you will receive a number and space to write a short summary describing your image. Be sure to specify biological or material.
- The image should be a copy which you can leave at the meeting with your name and contact information on the **back**.
- \$25 each for best biological and material image
- Winning images will be on the cover of the spring or fall newsletter
- For more information contact Janice Pennington, jgpennin@iupui.edu

Must be registered for the meeting to win

Winners will be announced at Friday's social event

Registration forms can be printed from the INMS website www.indianamicroscopy.org
Send registration form to: Caroline Miller, Program Chair, IU School of Medicine,
Department of Anatomy, MS 5065, 635 Barnhill Dr., Indianapolis, IN 46202

Driving directions and parking permit information will be posted on the website soon.

[Microscopy and Microanalysis](#) is a yearly national meeting for scientific presentations in biological and material science that have a basis in microscopy. M&M is sponsored by the [Microscopy Society of America \(MSA\)](#) which is biological in focus and the [Microbeam Analysis Society \(MAS\)](#) which is for material science. M&M is also co-sponsored by the [International Metallographic Society](#) and [The International Society of Analytical Cytology](#). For more information go to: www.microscopy.org

Microscopy and Microanalysis 2008
Albuquerque, New Mexico
August 3-7
Early registration ends July 3



Microscopy and Microanalysis 2009
Richmond, Virginia
August 2-6, 2009

Microscopy and Microanalysis 2010
Portland, Oregon
August 3-7, 2010

Dear INMS members,

It is once again time for the spring meeting of the INMS which will be hosted by IU at Bloomington this year. Indiana continues to grow as a great state to do microscopy as IU adds a new state of the art JEOL 300KV Cryo-electron microscope to their campus which will allow 3-D electron tomography of biological and material science structures at nanoscale resolution. Learn more about this and other useful techniques in microscopy at the meeting on April 18th!

I would also like to encourage everyone to bring an image for the Image Contest. Images may have scientific merit, artistic merit (of a scientific sample), or both! We are also looking for images to put in the INMS website gallery. If you would like to have the image you submit to be put in the INMS website gallery, there will be a box to check on the entry form at the registration table. I look forward to seeing you in Bloomington!

Janice G. Pennington
INMS Newsletter Editor