



1/2011

SPECIAL POINTS OF INTEREST:

> New Members Featuring:
Eastman Kodak

> Upcoming Events:

Bio-Energy Summit

-March 15, 2011

SPE Polymer Nanocomposites Conference

-March 7-9, 2011

CAMN Open House: New Lehigh Faculty Introductions

-February 14, 2011

> Video Recording Available of Past CAMN Quarterly Meeting: New Lehigh Faculty Introductions

> Funding Opportunities

> Chairman's Note

A WELCOME TO NEW LNN MEMBERS

The LNN community has expanded with the addition of 8 new members!

A big welcome to our new members:

- [10 Angstroms](#)
- Davalbagh Educational Institute Applied Research and Photonics
- Cityline Advisors, LLC
- [ELIA Life Technology, Inc](#)
- [FCIUSA, LLC](#)
- PAower Optics, LLC
- [SEMTEch Solutions, Inc](#)
- [Whitford Corporation](#)



Eastman Kodak has joined the LNN!

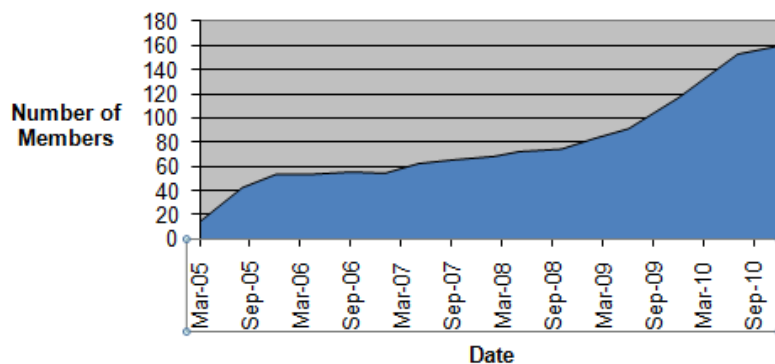
Featuring a New LNN Affiliate Member: Eastman Kodak Company

A big welcome to one of our newest LNN members, Eastman Kodak! See what they have to offer (presentation as attachment)

Eastman Kodak is now offering access to a broad array of technical capabilities that are suited for materials researchers who are looking to commercialize their technology into thin-film, roll-to-roll manufactured products. Kodak's tool set offers a wide variety of thin film application techniques that can be tailored to the specific needs of your materials. These tools are available over a range of scales from benchtop material screening to full-scale production. We invite you to leverage this capability to commercialize your materials while avoiding the time and cost associated with purchasing and building your own facilities. Contact information is available on the final slide of the attached presentation if you are interested in exploring how Kodak can help bring your material technology to the market in a cost-effective manner.

[Click here](#) to view a PowerPoint

LNN Membership



UPCOMING EVENTS SPONSORED BY THE LNN

BioEnergy Summit: Innovative Technologies for an Energized Future!

Date: March 15, 2011

Time: 9 a.m.- 3 p.m.

Location: Harrisburg University, Harrisburg, Pennsylvania

Sponsored by: Lehigh Nanotech Network, Lehigh University, and Harrisburg University

Cost: \$35



The commercialization of technologies and processes used to produce bioenergy from a variety of biomass resources highlights this half-day program. The BioEnergy Summit will also explore innovative nanotechnologies for bioenergy production and technologies for producing energy from wastewater. Keynote speaker Dr. William Goldner of the U.S. Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) will give an overview of the strategic thinking and programs USDA NIFA and other USDA agencies are using to address the sustainable production of biofuels,



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biopower, and biobased products. Programs include: Regional systems-oriented programs that integrate research, education, and extension/outreach/technology transfer; pre-commercialization R&D for small businesses; and grant and loan guarantee programs for demonstration and commercialization. Register online at <http://www.harrisburgu.net/academics/professional/prof-dev-registration.php>

PAST EVENTS & WEBINARS => VIDEO RECORDINGS

CAMN Quarterly Meeting: New Lehigh Faculty Introductions (Recorded Presentations)

High Temperature Solid State Ionics: [USE LINK =>](#)

mms://video4.lesn.lehigh.edu/RealContent1/nano/camn_20101118_McIntosh.wmv



Dr. Steven McIntosh, Assistant Professor, Chemical Engineering

Steven McIntosh received his doctorate and master's degree, both in Chemical Engineering, from the University of Pennsylvania and his bachelor's degree in Chemical Engineering from the University of Edinburgh in Edinburgh, UK. Before joining the Lehigh faculty, he served as an assistant professor at the University of Virginia. The recipient of numerous awards, McIntosh has published his work in journals such as the *Journal of the Electrochemical Society*, *Chemistry of Materials*, and the *Journal of Catalysis*. He has also presented his work at conferences across the globe. His research and teaching interests include electrochemistry, solid state ionics, and catalysis.

Probing the Structural Dynamics of Single Protein Molecules: [USE LINK =>](#)

mms://video4.lesn.lehigh.edu/RealContent1/nano/camn_20101118_Zhang.wmv



Dr. Xiaohui Zhang, Assistant Professor, Mechanical Engineering and Mechanics/Bioengineering

Xiaohui "Frank" Zhang received his doctorate in Physiology and Biophysics from the University of Miami, his master's degree in Biophysics from The University of Hong Kong in Hong Kong, China, and his bachelor's degree in Physics from the Sun Yat-sen University in Guangzhou, China. Prior to joining the Lehigh faculty, he served as a Postdoctoral Fellow in Biophysics at Harvard Medical School. His work has been published in journals such as *Science*, *Nature*, and *PNAS*, and he has presented at conferences around the world. Zhang's research and teaching focus on the structural and biomechanical properties of proteins, protein engineering, biomechanics, physiology, and biophysics

NANO FOR BUSINESS 2010 =>

[Click here](#) for video coverage of last LNN event held on May 26!

OTHER UPCOMING EVENTS AT LEHIGH:

Please see LNN website (www.lehigh.edu/lnn/events.shtml) for full list of events.

SPE Polymer Nanocomposites Conference

Date: March 7-9, 2011

Time: 9-5 p.m. each day

Location: Rauch Business Center, Lehigh University
621 Taylor St., Bethlehem, PA, USA

Sponsored by: Lehigh University and Society of Plastics Engineers

- Polymer Modifiers and Additives Group
- Polymer Nanotechnology Group
- Lehigh Valley Group

SPE Members must be logged into the website in order to receive member-only discounts. [Click here for more information and standard registration.](#)

CAMN Open House: New Faculty Introductions

Date: February 14, 2011

Time: 12:20-1:20 p.m.

Location: 3rd Floor Whitaker Lab, Room 303, Lehigh University
5 East Packer Ave., Bethlehem, PA 18015

Sponsored by: Lehigh University Center for Advanced Materials and Nanotechnology (CAMN) and Lehigh Nanotech Network

Cost: Free

New Faculty Introductions at Lehigh University's CAMN include two new faculty members and their presentation. [Please use this link for details.](#) Please contact Joan Stanescu at jsdj@lehigh.edu by February 7 if you wish to attend.

FUNDING OPPORTUNITIES

PA Initiative for Nanotechnology (PIN) PowerPoint presentation provides overview of DCED and BFTDA nanotech investments in PA

In Pennsylvania, micro and nanotech are being advanced as enabling technologies that are bringing innovative projects to the next generation of development. Funding through the Ben Franklin Technology Development Authority (BFTDA) and other PA DCED programs since 1998 has grown the PIN initiatives to levels of national recognition for innovation and educational contribution. Click [here](#) for more details.

LNN SECRETARY SUMMARY OF LNN WEBSITES

LEHIGH UNIVERSITY

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Bethlehem, PA, 18015

Gene Lucadamo

Industrial Liaison Officer

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Fax: 610-758-3526

E-mail: eal7@lehigh.edu

Please join the "LNN" Discussion Group on Google Groups:
Where you find general information on new university facilities available to local businesses and presentations from the LNN Regional Meeting "Enabling Solutions" & "Nanotech-Global Perspective 2010"
=> [Click here](#) for more details.

Also, please [click here](#) to update your member information (ie. changes in your contact information) when necessary or to change the Focus Group to which your organization has been assigned.
Follow us on Twitter ([Click here](#))!
Please visit these sites today!



We are on the web at
www.lehigh.edu/lnn

CHAIRMAN'S NOTE JANUARY 2011

As we begin the new year, we look forward to continued growth and activities for the LNN. At the January 2011 Executive Board meeting, the following initiatives and ideas were discussed. More details will follow, and you can view the minutes of the Executive Board meeting online in February.

- Adding two industry members to the Executive Board to achieve balance of Industry, Academic, and Government members
- Verifying the makeup and establishing active operation of the LNN Focus Groups
- Changes to the fee structure to facilitate the addition of new Sustaining Members over the next 18 months
- Increased 2011 student internship opportunities (subsidized for Sustaining Members)
- Consideration of a technology assessment committee or event to assist LNN member companies in evaluating and directing technology development
- A website outline on navigating the resources on the LNN website
- More frequent LNN meeting opportunities



Chairman Gene Lucadamo,
Industrial Liaison Officer
for Lehigh University

If you are a Sustaining Member interested in serving a term on the Executive Board, please contact Gene Lucadamo at 610-758-4855. We look forward to your continued interest and involvement in the LNN in the coming year to increase its value to all members.

Gene Lucadamo