

A WELCOME TO NEW LNN MEMBERS

The LNN community has expanded with the addition of 11 new members!
Four new Sustaining Members are highlighted in bold below:

A big welcome to our new members:

- [**Applied Separations**](#)
- [BioSample Solutions](#)
- [Chemetall](#)
- [Custom Processing Services](#)
- [GSP Consulting](#)
- [Greenworks Holdings](#)
- [Lehigh Heavy Forge](#)
- [Max Levy Autograph](#)
- [Microfluidics](#)
- [Micro-Clean Green Technologies](#)
- [New Jersey Angels Network](#)
- [O-Innovation Advisors](#)



SPECIAL POINTS OF INTEREST:

> [New Members](#)

> [Featuring](#)

Applied Separations

> [Upcoming Events](#)

[MatPAC Universities=>](#)

[TARGET NANOTECH TALENT](#)

- November 30, 2011

[PA Regional=>](#)

[NANO FOR BUSINESS](#)

-May 23, 2012

> [Chairman's Note](#)

FEATURED COMPANY: APPLIED SEPARATIONS, INC. IS NOW A SUSTAINING MEMBER!

Applied Separations is a world-wide leader in the manufacture of equipment to produce supercritical fluids on both a laboratory and large production scale. Not only does the company manufacture equipment, but it also does tolling and research in the field and have been pioneers in traditional and non-traditional marketplaces, including nanotechnology. One of the early participants in Pennsylvania's Ben Franklin Technology Partnership, an incubator program for high technology start-up companies located on the Lehigh University campus, Applied Separations now makes downtown Allentown the home for its headquarters.

Applied Separations is a trailblazer in the use of supercritical fluids and their application in nanotechnology. Recently recognized with a grant from Pennsylvania NanoMaterials Commercialization Center, Applied Separations, in conjunction with NASA, is researching infusion of metals into epoxy polymers, specifically carbon nanotube epoxies. This cutting edge application is just one of the many uses of Supercritical Fluids in the world of nanotechnology.

Supercritical fluids, specifically supercritical carbon dioxide, are perfect for the nanotech world because of the properties they possess. CO₂ is a direct replacement for petroleum based solvents. In its supercritical state CO₂ has the solubility of a liquid and the permeability of a gas, making it ideal for the world of the very small. With no surface tension, supercritical fluids do not have the limitations of liquid solvents. Coupled with all of these inherent benefits, the technology is also "green."

In addition to supercritical fluids, the company OEM packages DNA-free products in its clean rooms also located in downtown Allentown.

Learn more about Applied Separations at its website at www.appliedseparations.com or call 610.770.0900.

UPCOMING EVENTS SPONSORED BY LNN:

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

MatPAC Universities: TARGET NANOTECH TALENT

Date: November 30, 2011

Time: 12-1.45 pm

Location: 4th Floor Whitaker Lab, Room 451
Lehigh University, 5 E. Packer Ave, Bethlehem, PA 18015

Cost: Free (Lunch Included); must register [here](#) or email jdsj@lehigh.edu

Sponsored by: Center for Advanced Materials & Nanotechnology, Lehigh University, LNN and MatPAC Universities



What are the Advantages of this Series...

- Overview of recent projects in Nanotechnology & Advanced Materials at MatPAC Universities
- Opportunity to interact with Graduate Students
- Network with Industry and University Representatives
- Get a head start on recruiting key students for your business!

Graduate Students will describe their accomplishments in the advancement of nanotechnology and materials science. This is a great networking event!

[CLICK HERE FOR AGENDA](#)... Check out application of polymer fibers and ceramic membranes! Watch the online broadcast [here](#).

PA Regional Nanotechnology Conferences: NANO FOR BUSINESS

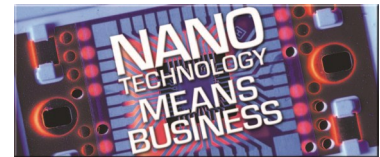
Date: May 23, 2012

Time: 9am-5 pm

Location: Lehigh University,

Sponsored by: Drexel University, Lehigh University, LNN,
Ben Franklin Technology Partners

Cost: \$40



The Lehigh Nanotech Network presents its fourth Nano for Business conference. The conference will explore nanotechnology market trends, current commercial applications, funding mechanisms, and partnership opportunities. An interactive event, it will provide a forum for business leaders to learn how nanotechnology can positively impact technology development and commercialization. Registration and agenda will be available by January at www.lehigh.edu/lnn. Please contact Joan Stanescu at jdsj@lehigh.edu if you wish to be a sponsor or participate in panel discussions or presentations.

LNN WEBSITE LINKS OF INTEREST

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.

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!

CHAIRMAN'S NOTE NOVEMBER 2011

The LNN Executive Board has undergone some restructuring. At the October 2011 meeting, Rolf Schlake of Applied Separations was appointed to Industry Chairman and John Catino of Minerals Technologies to Industry Vice Chairman. Henceforth these will be one-year terms, with the Vice Chair moving to Chairman in October. In addition, Rob Lee of Particle Sciences agreed to assume the Vice Chair position starting one year from now. To replace several departing members and increase industry representation on the EB, seven other new members were welcomed, including three from industry. Colton Weber of the PA DCED Technology Investment Office is now an ad hoc member of the EB. It is gratifying to have this support and leadership, with the anticipation of new ideas and activities.

The LNN has expanded to over 180 members, including 36 Sustaining Members. Please have a look at the Executive Board minutes on the website to stay up to date on plans to maintain an active, productive, and growing network. We continue to look for ways to engage and bring benefits to our members. If you would like to host a meeting or other event at your location, or have an idea for an event, please contact me.

Here are some recent success stories. One of our Sustaining Members, Applied Separations of Allentown, PA, was awarded \$30,000 by the PA Nanomaterials Commercialization Center in June. With another LNN member Halide Group, Applied Separations is working on novel electrically conductive polymer composites for electromagnetic shielding and lightning protection in aircraft. Under the same solicitation, Lehigh professor and EB member Mark Snyder was awarded \$30,000 to improve solar-to-electric conversion efficiency of dye-sensitized solar cells while transitioning this technology to flexible substrates.

We will soon begin planning our Nano for Business event for May 23, 2012 and welcome your ideas and participation. Look for a "save the date" announcement on this joint event with Drexel Nanotechnology Institute shortly.

Thank you for your interest and support,

Gene Lucadamo – Lehigh University
LNN Academic Chairman



Gene Lucadamo

Industry Liaison

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