



Welcome to:

**The First Academia/Industry Forum  
Friday February 22<sup>nd</sup> 2008  
Kennesaw State University**

**Sponsored by the Georgia Section of the American Chemical Society  
and Kennesaw State University.**

The collaboration between academia and industry is one of the most successful sources for innovation. Some local examples are:

Claro Chemical Corporation – utilized Georgia Tech Microelectronics Research Center to develop nanometer silver particles for Paint and Coating applications.

Gilead Sciences and Royalty Pharma \$525 Million agreement with Emory University to purchase royalty interest for Emtricitabine, discovered by Emory researchers Dr. Dennis C. Liotta, Dr. Raymond F. Schinazi and Dr. Woo-Baeg Choi professor.

As an academic or an industrial company you may face the following problems that you cannot solve “in-house”:

- Having a good idea that is looking for a home.
- The transitioning of a good idea into a feasible product or process.
- Taking a new product or process to the marketplace.
- Developing a viable production process for a new product.
- Solving a particular chemical product or processing problem.
- Developing a particular analytical technique.
- Necessity for detailed basic research on a particular product or process.

To facilitate and foster collaboration at the Academia/Industry interface the Georgia Section of the ACS and Kennesaw State University are sponsoring a one day forum to bring the appropriate personnel together. The Forum will be held on Friday February 22<sup>nd</sup>, from 9am to 5pm, in the Clendenin building, part of the College of Science and Mathematics of Kennesaw State University.

There will be five academic presenters and five industrial presenters. Presentations will be 20 minutes long, with 10 minutes for discussion.

There will also be representatives from the Enterprise Innovation Institute at Georgia Tech (General Manager, Dr. Lee Herron) and the Georgia Research Alliance (Director of Communications, Dr. Kathie Robichaud). Both these organizations have considerable expertise in working at the Academia-Industry interface.

Lunch will be served and there will be ample opportunity for networking.

Selected senior chemistry students from Kennesaw State University will present posters on their current areas of interest, which will give industrial members an opportunity to spot potential employees.

Presenters will have table-top exhibitions, showing their Institution's offerings and capabilities.

There will be no charge for attending this Forum, but numbers will be limited to 50. Registrations will be accepted on a first come-first served basis.

The Georgia Section of the ACS and Kennesaw State University would like to invite you and other members of your organization to attend this Forum to get a look “on the other side of the fence”.

**Please reply to Dr. Mark Mitchell at KSU, [mbmitchell@kennesaw.edu](mailto:mbmitchell@kennesaw.edu) or (770)423-6159 or Terry Say at GA Section ACS, [terraysay@aol.com](mailto:terraysay@aol.com) or (404)625-2136 by January 31<sup>st</sup>, 2008**

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## **Presenters:**

### **From Academia:**

**Emory University** – 3TC and FTC are amongst the most heavily prescribed drugs used to treat HIV infections. This talk will describe their discovery and development. Dennis Liotta will be the presenter.

**Georgia State University** – is developing several technologies at this point. They include a new presumptive forensic testing methods (latent blood, fingerprint, pepper spray residues), a new technology for invisible ink making and fuel markers and diagnostic imaging using new NIR fluorophores. Some of these developments are at least partially commercialized through a small company (KPS Technologies, LLC). Gabor Patonay will be the presenter.

**Georgia Tech's Microelectronics Research Center (MiRC)** is a member of the NSF-funded National Nanotechnology Infrastructure Network (NNIN), which provides expertise, facilities, infrastructure, and teaming environments to enable and facilitate interdisciplinary research in microelectronics, integrated optoelectronics, MEMS, sensors and actuators. The Georgia Tech node of NNIN emphasizes the application of nanofabrication to bioengineering and biomedicine, and is an open facility that welcomes researchers from academia, industry, and government laboratories. David Gottfried will be the presenter.

**Georgia Tech** – Axona is a virtual startup company with the goal of developing drugs for the treatment of peripheral neuropathy. Small amounts of funding have been obtained from institutional development funds, private investment funds, and government grants. Jim Powers will be the presenter.

**UGA** –The electrochemical form of atomic layer deposition (ALD) was invented at UGA, and the patent is held by the University. John Stickney will discuss his work beginning development of a small company or LLC, Electrochemical ALD L.C.

## **From Industry:**

**BioLab, Inc.** is a specialty chemical company that provides pool/spa chemicals and consumer products. The presentation is entitled “The Top Four Issues of Pools and Spas”. The presenter will be Cynthia Clark.

**CryoLife** is a contemporary biological device company that is focused on the development of implantable biological devices, surgical adhesives, and biological materials for use in cardiac, vascular and spinal reconstruction. The company is involved in the cryopreservation of human cardiac and vascular tissues and a surgical adhesive used for repair and reconstruction of complex cardiac and vascular anomalies. Our current research interests are in the area of tissue engineered implantable devices and biocompatible materials based on our protein hydrogel technology platform. The presenter will be Albert Heacox.

**Georgia Pacific Chemicals LLC** is a global performance chemical manufacturer recognized as a leader in each of our key markets - building products, paper making, and industrial and specialty applications. Our product lines include: Wood Adhesives, Industrial Resins, Formaldehyde, Paper Chemicals, and Pine Chemicals. Our Research & Development staff specializes in developing innovative products that meet our customers' changing requirements and anticipate industry trends. In addition to the key markets currently served, we are always looking for new markets that could benefit from our core technology platform. The presenter will be Kurt Gabriel.

**Kemira** is a global group of leading chemical businesses with a unique competitive position and a high degree of mutual synergy, operating in 40 countries. The Chemicals group is made up of four business areas: Kemira Pulp&Paper, Kemira Water, Kemira Specialty and Kemira Coatings. This presentation will focus on areas of technical interest and competence of particular interest to the Pulp and Paper business area within Kemira. The presenter will be Scott Rosencrance.

**nGimat** is an intellectual property company and manufactures engineered nanomaterials in the following areas: nanopowders, thin film coatings, and devices. nGimat's proprietary NanoSpray<sup>SM</sup> Combustion Process technology enables synthesis of thin films and nanoparticles, for coatings and other applications. The ability to produce small-size droplets with narrow size distribution is of critical importance, where precursor solutions are converted to a fine mist that is efficiently combusted in nanopowder and thin film deposition applications. In addition, it can be used, without combustion of the aerosol, to spray polymers for film or nanopowder formation and to convert pharmaceuticals to submicron- and nano-size particles. This presentation will present an overview of the Company's research efforts in various fields primarily utilizing NanoSpray<sup>SM</sup> Combustion Process technology and collaboration with universities in achieving viable commercial products. The presenter will be Bala Sankaran.