



# JULY 2008

## NATIONAL COMPOSITE CENTER WELCOMES NEW MEMBERS TO NETWORK

As a quick commercialization agent and manufacturing accelerator, one of the National Composite Center's (NCC) core missions has always been to facilitate entrepreneurial connections, promote economical development and foster partnerships. Through its member program, the Center works to facilitate collaboration between member companies, flagship patrons and public partners and nurture economic development by engaging each company in affiliations that leverage individual strengths and areas of expertise.

NCC continues to grow this unique network and would like to introduce and welcome its latest crop of new member companies.

**Hexion Specialty Chemicals** is the world's largest producer of binder, adhesive, coating and ink resins for industrial applications. Hexion provides customers around the world with a complete portfolio of solutions to meet their specific application requirements, backed by technical service and support that sets the industry standard. Formed through the combination of Borden Chemical, Bakelite, Resolution Performance Products and Resolution Specialty Materials, Hexion combines experience with expertise to serve the needs of industry.

"Hexion Specialty Chemical's Composite Polymer UPR & VER believes that NCC can assist us in



continuing to provide our customers with the best technology to meet the challenges presented to us. We are a full line Resin manufacturer with Unsaturated Polyesters and Vinyl Esters, as well as our famous Epoxy and Phenolic businesses," said Gerhard Bohme, Technical Director for Hexion U.S. Composite Polymer business. Hexion's headquarters are based in Columbus, Ohio.

[www.hexion.com](http://www.hexion.com)

**Becker Pumps Corp.**, based in Cuyahoga Falls, Ohio, offers a wide variety of pumps for both vacuum and low pressure compressed air. Founded in 1885, Becker is still family owned and a leader in innovation, from its inventions of the dry vane pump and combination vacuum/pressure pump, to its new elliptical vacuum/pressure pumps and water-cooled regenerative blowers. Becker makes products that are ideal for composites manufacturing and thermoforming applications.

[www.beckerpumps.com](http://www.beckerpumps.com)

**NanoTechLabs, Inc.**, located in Yadkinville, North Carolina, is a nanotechnology materials company focusing on the development and production of military and commercial

products that have performance benefits through the incorporation of nanotechnology. NTL offers materials solutions, integration and functionalization services to assist their customers in choosing and implementing nanomaterials. Current products include nanotubes, nanowires, nanoparticles and specialty chemicals. NanoTechLabs is a growing company with impressive potential, and is committed to delivering unsurpassed quality to its customers who include leaders in industry, academia and government.

[www.nanotechlabs.com](http://www.nanotechlabs.com)

**Graphic Impact Communications** is based in Kettering, Ohio. Graphic Impact's team of designers provides a range of key services from branding and marketing to print, multi-media and event planning. [www.graphic-impact.net](http://www.graphic-impact.net)

**Mound Laser & Photonics Center, Inc. (MLPC)**, located in Miamisburg, Ohio, is dedicated to the application of existing, and the development of new, laser materials processing technology to meet the industrial, manufacturing, and advanced development demands of our customers in today's competitive marketplace. MLPC specializes in laser marking and engraving services, laser micromachining services, laser

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National Composite Center  
2000 Composite Drive  
Dayton, Ohio 45420  
Phone 937.297.9450  
Fax 937.297.9440  
[www.compositecenter.org](http://www.compositecenter.org)





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welding services, laser surface texturing and contract research and development. MLPC works with a wide variety of industries including medical, aerospace, defense, fuel cell, microelectronics, consumer products, and many more. [www.mlpc.com](http://www.mlpc.com)

**Iya Technology Laboratories** is a Kettering Ohio based technology company that employs innovative micro and nano encapsulation methods to produce particles of various structures and geometries in aqueous or non-aqueous systems for different applications. Iya has already used its technology to develop several specialty media products that are currently at different stages of commercialization.

"Iya's relationship with NCC is part of a fascinating story of collaboration among different entities in the Dayton area," said Emmanuel Itapson, Vice President for Iya. "Toward the end of 2007, Iya began to explore the application of its technology in the development of biochemical sensors as well as the possibilities of collaboration for the project. We approached Kettering's Economic Development Manager who in turn brought in the Economic Development Manager of Montgomery County, who brought us into contact with the Dayton Development Coalition/Entrepreneurial Signature Program. We were amazed at the resources available and the eagerness

of these various agencies to help us. Every one of them talked to us about NCC."

"We are fascinated with the network opportunity that NCC presents," Itapson continued. "This is exactly what our company needs. NCC provides infrastructural support that will be crucial for us to accelerate the development and commercialization of our technology. Synergistic relationships with other companies and research institutes present unique opportunities to share resources. NCC's intern/co-op program will also be a great opportunity for us to recruit some of the best students from universities around the Dayton area as we continue to grow. We are excited to be part of this network." [www.iyatech.com](http://www.iyatech.com)

**NANOCYL S.A.** is a global supplier of industrial scale quantities of carbon nanotubes. Focusing on specialty markets, Nanocyl serves functional and structural composite applications.

"We believe that our membership with NCC will help increase the overall composite market's understanding of the value of carbon nanotubes while helping us to better understand end user requirements and supply solutions tailored to those needs more quickly," said Matthew Howlett, U.S. Commercial Manager. Nanocyl has developed products that greatly enhance the

electrical, mechanical, and thermal properties of composite applications.

Able to produce synthetic materials and manufacturing equipment for the automotive and electronic industries, Nanocyl also offers value-added products, such as the pre-dispersed carbon-nanotube based solutions PlastiCyl™, EpoCyl™, AquaCyl™ and ThermoCyl™. Belgium based Nanocyl scientists and engineers continue to push the envelope in developing high-quality grades of carbon nanotubes for commercial applications as well as support research activities.

In addition, Nanocyl is continuously developing new intellectual property and focusing its technology and know-how on the practical application of carbon nanotubes and its integration into polymers, metals, composites and biomaterials. [www.nanocyl.com](http://www.nanocyl.com)

**Acrolab Ltd.**, Windsor Ontario Canada, offers custom engineered "in mold" heatpipe-based, high-speed heating, cooling and thermolinerizing systems for thermoset and thermoplastic composites molding processes. Acrolab provides custom engineered control systems and complete "on site" tool wiring and system installation services to compliment Acrolab's "in mold" heating and cooling systems.

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Acrolab offers accessories such as heating elements, sensors and sensor assemblies both TC and RTD for industrial & plastics process applications.

Acrolab also provides unique, confidential and secure contract research and development services through its own in-house science and engineering teams to clients wishing studies in heatpipe applications and environments for aerospace, military, embedded computing and electronic applications from the conception stage through to preproduction prototype manufacture, testing and optimization. [www.acrolab.com](http://www.acrolab.com)

**Zotefoams Inc.**, is the world's leading manufacturer of cross-linked block foams. Its products are used in a wide range of markets including sports and leisure, packaging, transport,

healthcare, toys, building, marine and the military. These include high temperature nylon and inherently flame retardant PVDF foams for use as lightweight core materials. "Zotefoams joined the National Composite Center to network with the composite industry and work to develop applications using our unique core materials," said John Kardos, ZOTEK N Business Manager for Zotefoams.

Zotefoams is ISO 9001:2000 & ISO 14001 certified. Zotefoam's closed cell cross-linked block foams are made using an environmentally friendly, clean, non-contaminating, nitrogen expansion process. Key features include low weight, thermal stability, flexibility, insulation, purity & ease of fabrication. Foams can be manipulated & processed using one or more of many commonly available techniques including sawing, splitting, die stamping, contour cutting,

waterjet profiling, thermopunching, thermoprofiling, butt welding, laminating, adhesive bonding, thermoforming, routing, sanding, drilling. Zotefoams is based in Walton, Kentucky. [www.zotefoams.com](http://www.zotefoams.com)

**Oregon Printing** is focused first on customers. The Dayton, Ohio based printing and graphics company leads the industry in producing small to mid-sized full color printed material, business identity material and other printing that fits its capabilities. Oregon's core competency is commercial printing.

The company uses the best resources available, including software from Adobe, Heidelberg Pressroom equipment, EFI Printsmith Management Tools. [www.oregonprinting.com](http://www.oregonprinting.com)

## COMPOSITES ONE WINNER OF NCC'S COMMUNITY GOLF EVENT

NCC had 52 participants for its Community Golf Event July 18 at Kettering's Community Golf Course. First Financial Bank (FFB) was the event sponsor along with the Wright State Nutter Center. Ashland, an NCC Benefactor Member company, donated the event prizes. B and N Construction sponsored four teams and Prime Time Party Rentals sponsored two teams.



*The Ashland Team*

Member companies that participated included Ashland; Time Warner Telecom; Ticona; National City Bank; First Financial Bank; Cass Polymers; Thompson Hine and the Dayton Development Coalition (DDC). In addition to enjoying a great day of golf, participants helped to give

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Dayton Region

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young people a better future. NCC would like to express its gratitude to each of the individuals that contributed to a very successful event.



*Prime Time Party Rentals sponsored Harry Couch's (NCC) team*



*First Financial Bank team with NCC's Dave Harrison*



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Dayton, Ohio 45420  
Phone 937.297.9450  
Fax 937.297.9440  
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