

NCC DEMONSTRATES LITECAST® CAPABILITY AT NASA GLENN OPEN HOUSE

The National Composite Center (NCC) built a display using Litecast® to help demonstrate the technology's capabilities for NASA Glenn Research Center's Open House. NCC's Litecast® is a patented process that gives manufacturers the ability to use integral metal attachments on composite structures.



NCC Litecast® display demonstrates technology's unique capabilities

Held June 12-14, NASA Glenn's event was open to the public on Saturday and Sunday with Monday reserved for representatives from key government branches. NCC designed a three-dimensional Litecast® structure with hollow carbon and glass composite tubes. The display was electronically wired to demonstrate NCC's capability to embed electronics into a three-dimensional composite support structure without the use of adhesives.

The display generated interest with visitors but Litecast®'s ability to offer lighter weight and embedded electronics captured the attention of

engineers and technical personnel during Monday's closed event. As a result, a significant lead was generated with the satellite branch of the NASA Glenn Research Center.

NCC TO HOST AIR FORCE NANO TECHNOLOGY WORKSHOP IN SEPTEMBER

NCC will host the Air Force sponsored Vapor Grown Nanofiber Materials and Applications Workshop on September 14 -15. Attendees will gain an in-depth understanding of Vapor Grown Nanofibers (VGCF) and their applications in military, civilian aviation, and commercial markets.

Cost effective and available in commercial quantities, nanomaterial is multifunctional. It can be used to improve electrical, thermal, and mechanical properties in organic matrix composites. Industry, academic, government researchers and engineers will present their insights on nanomaterial real-world applications.

Tuesday evening (Sept. 14), Applied Sciences Inc. will host a tour of their VGCF manufacturing facility which is located in Cedarville, Ohio. On Wednesday, a panel discussion will highlight the day's sessions. The panel will focus on future opportunities and barriers to the use of VGCF in military and commercial applications.

NCC is also helping to advance nanocomposites by working with the Air Force Research Laboratory (AFRL) at Wright-Patterson AFB to develop manufacturing processes that can turn concepts into end products. With its experience in infusion techniques and its unique manufacturing facility, NCC offers the unique capability to help companies develop viable manufacturing processes for nanomaterial.

Pre-registration is due by August 27. The workshop fee is \$80 and can be paid by cash or check. For more information or to register, contact Barb Hager by email at AFRL.MLB.OfficeAccount@wpafb.af.mil or call at 937-255-5731.

OHIO DEPARTMENT OF DEVELOPMENT OPENS 2005 PROPOSAL REQUESTS

The Ohio Department of Development announced the opening this month of three major grant programs:

- The FY 2005 Biomedical Research and Technology Transfer Partnership Awards
- Wright Centers of Innovation
- Wright Projects Requests For Proposals

A fourth grant program, which is new, will soon be offered to help fund manufacturers with product development programs. NCC's unique expertise in developing



optimum manufacturing processes and its state-of-the-art manufacturing facility and incubation services compliment this program.

Recognized as the national center of excellence for the development and commercialization of cost competitive composite materials and manufacturing processes, NCC is also the model for technology transfer for manufacturers.

Unlike any other organization, NCC helps manufacturers manage the risk for new ventures by renting the floor space and equipment required to launch new production processes on an as needed basis. The Center supports this effort with state and federal funds. NCC's Manufacturing Accelerator Campus concept creates a nurturing atmosphere and provides the necessary business utilities. With NCC taking care of the internal support details - new manufacturing line managers are free to focus on their production process and the needs of their customers.

For program information and application materials visit www.thirdfrontier.com