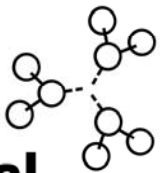


As Presented to

The Nanomanufacturing & Dual-Use Commercialization Conference

Savannah, Ga. Nov. 3-5, 2008

Hosted By:



turning invention into reality

**National
Nanotechnology
Manufacturing
Center**

102 S. Main Street

Swainsboro, GA 30401

[Http://NationalNano.info](http://NationalNano.info)

TBecker@NationalNano.info

478-289-2346

Nonmanufacturing and Dual-Use Commercialization Conference

Panel Discussion with Regional Nanotechnology Organizations

Session Objective:

**To generate ideas to start the development of a fully functional national network for commercializing nanotechnology for dual use, which parallels the federal government's NNIN network in nano research. In addition, have a discussion on how we can connect to, and leverage off, existing regional manufacturing capability and networks to support commercialization efforts.
(examples: AME, NIST MEP network)**

Overview



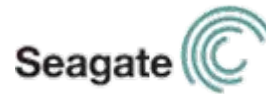
- Founded in 2006
- Industry–driven, non-profit organization to help companies commercialize nanomaterials technologies for commercial and defense applications
- Key commercialization element of Pennsylvania’s Initiative in Nanotechnology (PIN)
- Supports new product development using nanomaterials
 - 7 active projects (3 more in Nov. 2008)
 - 6 new projects each year
 - ~ \$200,000 grants/ 12-month project

Partnerships

Executive Leadership



Technical Leadership



University of Pittsburgh



United States Steel Corporation



Funding Partners

- Department of Community and Economic Development, Commonwealth of Pennsylvania
 - PA Initiative in Nanotechnology (PIN)



- Air Force Research Laboratories Wright Patterson Air Force Base, Dayton, Ohio



- More than 1,000 hours per year of donated time from Board and Committee Members

Focus on Company Interaction

- Work closely with the winning proposals
 - Define realistic technical *and* commercial milestones
- Quarterly updates and discussions with portfolio companies
- Develop new opportunities with companies for future funding / DoD interactions

"The PANCC is very adept at nurturing its investments. The advice we have received, and continue to receive, from the PANCC in the areas of technology development and commercialization strategy is as valuable to us as the funding."

*Matt Bootman
CEO, Crystalplex Corporation*



Commercialization Model

**Proof of
Technology**

Product Idea

**Establish
Initial
Partners**

Projects

- Defined Project Plan
- Developed Initial Process
- Specific Customers
- Development of a Prototype
- Evaluation of Prototype
- Development of Commercial Partners

**Hand off to
Large Co's,
VC's, Angels
for scale-up**

Key Element:

Focus on one specific product application

Requirements

PA NanoCenter Project Phase

Goal

Results to Date

| | |
|---|-----------------------------------|
| Total Center Investment: | \$ 2 M |
| Match By Companies: | \$ 1.25 M |
| Leveraged Investment: | \$ \$ 34 M |
| Jobs Created: | 14 |
| New Patents Filed: | 4 |
| Additional R&D \$ by companies | \$ 8.7 M |
| Current portfolio: | 7 companies (3 more in Nov. 2008) |





For more information

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