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Nanotechnology IP: Issues and Opportunities

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Nine Zeros Nanotechnology
Breakfast Roundtable

Mary Rose Scozzafava

Strong Nanotech Funding

National Funding

 2003 Federal Nanotechnology Research and Development Act (NNI): \$3.7 billion

Growing regional and state initiatives

 2004: states invested more than \$400 million in nanotechnology research, facilities and business incubation programs (Lux Research Inc)

Private

Continued investor interest

"Nano" Patent Explosion

- Issues of numerous patent filings
 - Scope of freedom to operate
 - Many players in the same field
 - Positioning your own IP
- Potential backlog at US Patent Office
 - Timing of patent issuance

Freedom to Operate

- Evolving patent landscape
 - Most relevant patent may not have issued yet
 - Identification of relevant patents difficult if invention has application in many fields
 - Some fields are already crowded
 - Nanoparticles/powders

Who holds the relevant prior art?

- Not typical vertical industry
 - Most relevant prior art could be in a different industry
- IP Holding Companies have large holdings
 - No leverage because no product

Approach to FTO by investors

- Willing to accept some uncertainty?
 - Is there an understanding of the prior art landscape
 - "Sure thing"
- Is there a product?
 - Material supply vs. application

Positioning your IP

Land Grab

 Territories are not well-defined and need to define your IP as broadly as possible

Capture interdisciplinary scope

 Claim scope has applicability over number of industries or specific to one

Help is on the way at the PTO

- New classification for nanotechnology patent applications (Class 977)
- database of nanotechnology related prior art
- partnership to provide training for patent examiners in the current topics in nanotechnology

Resulting in...

- More thorough review of the relevant art
- Review across all technology discipline
- Predictability
- More defensible patents
- Reduced pendency in the PTO?