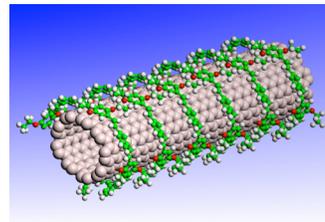
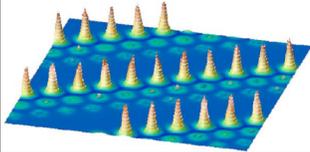


Nanoscience and Nanotechnology in Delaware

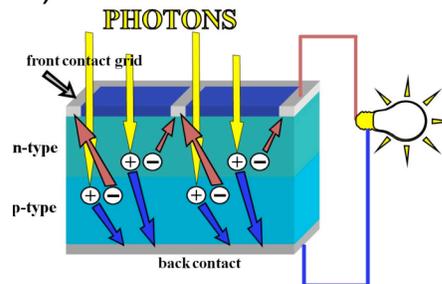
- **Now**
 - **Cross-cutting technology base for Human Health, Energy, and other technologies**
 - **Strong academic efforts, but isolated into small teams**
 - **Important commercial activities in large companies**
 - **Startups (EM Photonics, others)**
 - **Strong regional interest and potential partners**
 - **Good infrastructure**
- **Next**
 - **Identify team targets, resource needs**
 - **Target technologies**
 - **Ethical and society implications**



<http://www.nanotech-now.com/>

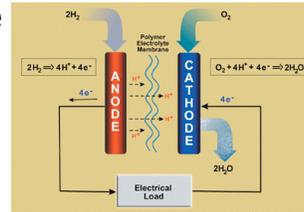
Clean and Renewable Energy

- **Well positioned to explore promising areas**
 - Institute for Energy Conversion
 - Center for Energy and Environmental Policy
 - Fuel Cell Initiatives (DOE and DOT)
 - Hydrogen Storage (DSU)
- **Industrial Base**
 - Dupont, Gore, BP, GE (Astropower)



Clean Energy Center

- Umbrella organization to facilitate interactions; established with DOE seed from Sen. Carper
- State of Delaware New Economy Initiative (800K)
- Opportunity to leverage Delaware's unique geography to develop a test bed for a *system* of clean energy devices functioning in the grid



Clean and Renewable Energy

- Major opportunity to expand and focus science and technology by building on a solid base
- Cross-cutting and entrepreneurial
- Leadership and directions evolving



Solar cell made with nanorods

