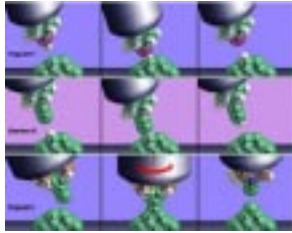


# 1<sup>st</sup> Conference on ADVANCED NANOTECHNOLOGY



**October 22-24, 2004**  
**Crystal City Marriott Hotel**  
**Washington, DC area**

Technical advances are leading to the ability to build large, complex devices with atomic precision using molecular machine systems — a prospect first recognized by Richard Feynman over forty years ago. Join nanotechnology experts as they plan the next Industrial Revolution.

**Keynote: Ray Kurzweil, Winner, National Medal of Technology**

**Register for all three days or select those most relevant to your interests:**

## **Research**

**1<sup>st</sup> Symposium on  
Molecular Machine Systems**  
**Friday, Oct. 22**

**For researchers and technologists**

Friday speakers discuss technical research on advanced nanotechnology:

**Nadrian Seeman**, New York University—three-dimensional DNA construction and computation

**William Goddard**, Caltech—modeling molecular machine parts and construction

**Ari Requicha**, University of Southern California—nanorobotics and programmable assembly of molecular-size components by self-assembly and scanning probes

**Ralph Merkle**, Georgia Tech—computational nanotechnology for molecular machine systems

**Tad Hogg**, HP Labs—control of microscopic robotic systems with simulation examples from nanomedicine applications

**Robert Freitas**, Institute for Molecular Mfg.—diamond mechanosynthesis

**J. Storrs Hall**, Molecular Engineering Research Institute—techniques for the modeling of molecular mechanical systems, and what these enable for the engineering of active nanosystems

**Friday Evening:**

**Foresight Institute Feynman Prize Banquet**

## **Applications**

**1<sup>st</sup> Forum on  
Molecular Mfg. Applications**  
**Saturday, Oct. 23**

**For researchers, technologists, policy advisors, public interest representatives, investors, general public**

Saturday speakers discuss the applications and uses for advanced nanotechnology:

**Stephen Gillett**, Foresight Institute—clean energy and resources using molecular mfg

**Eric Drexler**, Molecular Engineering Research Institute—international competitiveness and national security

**Robert Freitas**, Institute for Molecular Mfg.—nanomedicine

**Chris Phoenix**, Center for Responsible Nanotechnology—clean nanomanufacturing

**Thomas McKendree**, Raytheon—molecular manufacturing for space-based construction and transportation

**David Friedman**, Santa Clara University—economic impact from molecular manufacturing

**Robin Hanson**, George Mason University—Molecular Nanotechnology (MNT) for increased openness, freedom & security

**Brad Templeton**, Electronic Frontier Foundation—privacy issues with MNT

**Bryan K. Bruns**, Foresight Institute—MNT for international development and reducing global poverty

**Debate:** Nanosurveillance—

Is a Transparent Society the Right Answer?

## **Policy**

**1<sup>st</sup> Forum on  
Advanced Nanotechnology Policy**  
**Sunday, Oct. 24**

**For policy advisors, public interest representatives, general public**

Sunday speakers discuss what policies need to be in place for advanced nanotechnology:

**Patrick Parker**, Naval Postgraduate School—strategic and security issues

**Glenn Reynolds**, University of Tennessee—Molecular Nanotechnology (MNT) public policy

**Howard Lovy**, *Smalltimes*—the controversies and politics of molecular manufacturing

**Tim Harper**, Cientifica—the urgent need for a focused scientific study of the feasibility of molecular manufacturing prospects

**Richard H. Smith**, Nanoverse LLC—U.S. public policy for advanced nanotechnology

**Christine Peterson**, Foresight Institute—societal and ethical impacts of molecular manufacturing

**Neil Jacobstein**, Institute for Molecular Mfg.—balancing the U.S. National Nanotechnology Initiative

**Adam Keiper**, *The New Atlantis*—political aspects of molecular nanotechnology in the U.S.

**Gary Marchant**, Arizona State University—regulatory models for molecular manufacturing

**Debate:** Pro-Progress vs. Pro-Caution

How to Maximize Benefits, Minimize Risks?

**Friday and Saturday  
evening discussions—(SIGs)**

Special Interest Group meetings:  
R&D, Environment, Education, Medical,  
Military, Space, Intellectual Property,  
Business/Investing, Social Outcomes

**Register by August 30 and SAVE \$\$\$**

**[www.mnt2004.org](http://www.mnt2004.org)**

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