



FORESIGHT
NANOTECH INSTITUTE
Advancing Beneficial Nanotechnology

Save These Dates

October 22-27, 2005

www.foresight.org/conference2005

Advancing Beneficial Nanotechnology: Focusing on the Cutting Edge

13th Foresight Conference • October 22-27, 2005 • San Francisco, CA



Join us for six days dedicated to cutting edge nanotechnology. Three stand-alone, complementary sessions — Vision, Applications & Policy, and Research — are designed to give both veterans and newcomers a thorough understanding of the Foresight Nanotechnology Challenges:

1. Meeting global energy needs with clean solutions
2. Providing abundant clean water globally
3. Increasing the health and longevity of human life
4. Maximizing the productivity of agriculture
5. Making powerful information technology available everywhere
6. Enabling the development of space

Conference attendees will have the opportunity to explore how nanotechnology can address these important challenges facing humanity.

Vision Weekend

Saturday—Sunday, October 22-23

Vision Weekend Co-Chairs:

Carl F. Kohrt, Battelle

Scott Mize, Foresight Nanotech Institute

Foresight's Vision Weekend is **THE** place where ideas generated today lead to future realities tomorrow. This annual event provides a rare opportunity to hear world-class speakers discuss the future of nanotechnology candidly and off-the-record. Starting Saturday afternoon, the brainstorming continues through an evening reception and all day Sunday. Bring your own version of nanotechnology's future and join this mixture of executives, engineers, researchers, investors, writers, artists, and futurists.

The Vision Weekend is exclusive to Foresight's Participating Members. We encourage individuals interested in how nanotechnology will change the world to become members and share their views.

Conference Deadlines

Abstract Submission: Sept. 1, 2005

Early Registration: Sept. 1, 2005

Prize Nominations: July 31, 2005

Foresight Feynman Prizes

Foresight Prize in Communication

Foresight Distinguished Student Award

Foresight Government Prize

Foresight Nanotech Institute

Feynman Prize Banquet:

Wednesday evening - October 26, 2005

Applications & Policy

Monday—Tuesday, October 24-25

Applications Co-Chairs:

Jim Von Ehr, Zyvex Corporation

Charles E. Harris, Harris & Harris Group

Policy Co-Chairs:

Richard Smith, Nanotechnology Network

Christine Peterson, Foresight Nanotech Institute

Focuses on critical applications that address the Foresight Nanotechnology Challenges and serve as stepping-stones toward advanced nanotechnology, along with current public policies and strategies that need to be adopted to ensure that the nanotechnology revolution will unfold for the benefit of all. Speakers will address current applications and coming prospects in the following areas: energy, water purification, health and longevity, agriculture, information technology, and space development. Policy topics include building public trust, aiding the poor, intellectual property regimes, evaluating government nanotech initiatives, and environmental, health, and safety issues.

These sessions are tailored for executives, investors, planners, policy professionals, public interest and government representatives, professional/trade association representatives, economic development officers, researchers, technologists, and lay persons.

Research

Wednesday—Thursday, October 26-27

Research Co-Chairs:

Charles M. Lieber, Harvard University

William A. Goddard, III, Caltech

Hiroshi Yokayama, AIST, Japan

Foresight's first conference on Nanotechnology, which pre-dated the National Nanotechnology Initiative by a decade, was the first comprehensive conference on the topic of nanotechnology. Foresight-sponsored events continue to be the premiere venue for discussing new and innovative multidisciplinary research in nanotechnology. This meeting attracts researchers from academic, government, and corporate laboratories worldwide, and includes papers from the electronics, medical, computing, physics, chemistry, materials science, and biology communities. Foresight's 13th Conference will continue this level of excellence by providing a forum in which leaders from all disciplines delving into science and technology at the nanoscale can present and discuss their most recent results and ideas.

Researchers, technologists, and others who want to review the cutting edge of nanotechnology are encouraged to attend.

See Research website at:

www.foresight.org/conference2005/research.php



Keynote Address: Tuesday, October 25

Nanotechnology is Not Little In Washington

Floyd Kvamme, Co-chair, President's Council of Advisors on Science and Technology, and Partner, Kleiner Perkins Caufield & Byers

Foresight Nanotech Institute
Advancing Beneficial Nanotechnology

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CONFIRMED SPEAKERS



Steve Jurvetson,
Managing Director,
Draper Fisher
Jurvetson



Carl F. Kohrt,
President and CEO,
Battelle



George Atkinson,
Science & Tech.
Adviser to U.S.
Secretary of State



Floyd Kvamme,
President's Council of
Advisors on Science
and Technology



Peter Singer,
Director,
U. Toronto Joint
Centre for Bioethics,
Canada



Michael Weiner,
CEO, Biophan
Technologies



William Goddard,
Caltech



David Bishop
VP Nanotechnology
Research, Lucent



Congressman
Mike Honda,
DNC Vice Chair



Mark Lemley,
Stanford Univ.
School of Law



Don McConnell,
Senior VP,
Battelle



Michael Moe,
CEO, ThinkEquity
Partners



Steve Mayo,
Caltech



Ray Rothrock,
Managing General
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Scott Hubbard,
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NASA Ames
Research Center



Peter Diamandis,
Chairman, X
Prize Foundation



B.J. Stanbery,
CEO, HeliVolt



Tom Kalil,
UC Berkeley



Sharon Smith,
Director of
Technology,
Lockheed Martin



Z.L. Wang,
Georgia Tech



Teri Odom,
Northwestern
University



Roy Bar-Ziv,
Weizmann Inst.
of Science, Israel



Michael Pak
Chairman & CEO
Nexnergy



Hiroshi Yokoyama,
Director, NRI and
AIST, Japan



Randy Hayes,
Founder & Pres.,
Rainforest Action
Network



Jim Von Ehr,
CEO, Zyvex



Charles Harris,
CEO,
Harris & Harris



William Shih,
Harvard Univ.



.K. Eric Drexler,
Chief Technical
Advisor, Nanorex



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Michael Laine,
President,
LiftPort, Inc.



Christian
Schafmeister,
Univ. of Pittsburg



Adam Werbach
Conservationist



Aubrey de Grey,
University of
Cambridge, UK



Scott Mize,
President,
Foresight
Nanotech Institute



Richard Smith,
President,
Nanotechnology
Network



Richard Jones
University of
Sheffield, UK



Christine Peterson,
VP Policy and
Research Foresight
Nanotech Institute



Ralph Merkle,
Georgia Tech



Clark Gellings,
VP Innovation,
Electric Power
Research Inst.



Andrew Wahl,
Managing
Director, IG
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Norman Scott,
Cornell
University



David Forrest,
US Naval Surface
Warfare Center



Robert Berry,
CEO, Dendritic
NanoTechnologies



William Lee,
CEO, eMembrane

Preliminary Program
Advancing Beneficial Nanotechnology:
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13th Foresight Conference on Advanced Nanotechnology
October 24-27, 2005 • San Francisco Airport Marriott

Foresight Vision Weekend

(Participating Members Only)
October 22-23, 2005

Join us for informal discussions and debate among technology leaders and Foresight Participating Members, taking on the controversial issues and surprising results expected from the nanotech revolution. The Foresight Vision Weekend is off-the-record — no writeups please.

Vision - Saturday, October 22

1 pm	Registration opens - <i>Bayside Foyer</i>	10 am	Designing a Revolution , Chris Phoenix, <i>Center for Responsible Nanotechnology</i>
2 pm	Orientation Meeting with Foresight President Scott Mize Designed for new attendees — all Participating Members welcome - <i>Bayside II, III</i>	10:30 am	Coffee break - <i>Ballroom Foyer</i>
3:30 pm	Coffee break - <i>Bayside Foyer</i>	11 am	Foresight Guidelines Update , Neil Jacobstein, <i>Institute for Molecular Manufacturing</i>
4 pm	Designing an “X Prize” for Nanotech , Peter Diamandis, Chairman, <i>X Prize Foundation</i>	11:30 am	Opportunities and Challenges of Nanotechnology in Defense , Sharon Smith, Director of Technology, <i>Lockheed Martin</i>
4:30 pm	Technology Roadmap for Productive Nanosystems , Eric Drexler, Chief Technical Advisor, <i>Nanorex</i> , and Founder, <i>Foresight Nanotech Institute</i>	12 noon	Lunch, included - <i>Ballroom Salon F</i>
5 pm	Bridging the Valley of Death in Nanotechnology: Federal Policy Solutions , Congressman Mike Honda, Vice Chair, <i>Democratic National Committee</i>	1:15 pm	Debate: Nanotechnology’s Goal—Molecular Manufacturing or Soft Machines? Richard A.L. Jones, <i>University of Sheffield, UK</i> Ralph Merkle, Dept. of Computer Science, <i>Georgia Tech</i> Moderator: Derrick Boston, Partner, <i>Guth Christopher</i> and former Senior VP, <i>California NanoSystems Institute</i>
5:15 pm	Strategies for Engineered Negligible Senescence to Extend Human Lifespan , Aubrey de Grey, <i>University of Cambridge, UK</i>	2:15 pm	Breakout Discussions - <i>Ballroom Salons A-D</i>
5:30 pm	Participating Members Welcome Reception - <i>Bayside I</i>	3:45 pm	Coffee break - <i>Ballroom Foyer</i>
7 pm	Self-assembling, no-host dinners with fellow Participating Members	4:15 pm	Who Will Hate Nanotechnology and Why? Patrick Hopkins, <i>Millsaps College</i>
9 pm	Informal discussion continues in the View Lounge: wear your badge to network with other Participating Members	4:45 pm	Debate: NanoBio in Humans: Are we ready to cross the Carbon Barrier? Ron Bailey, Science Correspondent, <i>Reason Magazine</i> Alan Goldstein, Biomedical Materials Engineering, <i>Alfred University</i>

Vision - Sunday, October 23

8 am	Continental Breakfast - <i>Ballroom Foyer</i>	5:30 pm	Recap of Breakouts , Foresight VP Christine Peterson
9 am	Nano & the Poor: Closing the Gaps , Michael Lesnick, Senior Partner, <i>Meridian Institute</i> - <i>Ballroom Salon E</i>	6 pm	Sessions end
9:30 am	Soft Machines: Why Nano will be like Bio , Richard A.L. Jones, <i>University of Sheffield, UK</i>	6:30 pm	Informal discussion continues in the View Lounge: wear your badge to network with other Participating Members

view complete program at: www.foresight.org/conference2005

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Applications and Policy - Monday, October 24

- 7:30 am Coffee - *Ballroom Foyer*
- 8 am **Tutorial — Nanotechnology Policy: Near-term and Beyond**, Richard Smith, Policy Co-Chair and President, *Nanotechnology Network*
- 8:30 am **Keynote: Achieving the Nanotech Vision: Multiple Horizons for Beneficial Applications**, Carl F. Kohrt, CEO, *Battelle*
- 9 am **Nanotechnology and Foreign Policy**, George Atkinson, Science & Technology Advisor to the Secretary of State *U.S. Dept. of State*
- 9:30 am **Foresight Nanotech Challenge #1: Meeting Global Energy Needs with Clean Solutions**
Panel: Nanotech for Clean Energy
Clark Gellings, VP Innovation, *Electric Power Research Institute*
Malcolm O'Neill, VP and CTO, *Lockheed Martin*
Michael Pak, Chairman and CEO, *Nexergy*
BJ Stanbery, CEO, *HelioVolt*
Moderator: Norm Wu, Managing Director, *Alameda Capital*
- 10:15 am Break
- 10:45 am **Maximizing Value from the National Nanotechnology Initiative**, Tom Kalil, Special Assistant to the Chancellor for Science and Technology, *U.C. Berkeley*
- 11:15 am **Capturing the Environmental Benefits of Nanotechnology**, Shannon Lloyd, Senior Environmental Specialist, *First Environment, Inc.*
- 11:35 am **Assessing Risks of Nanoscale Materials**
Jo Anne Shatkin, Principal, *The Cadmus Group, Inc.*
- 12:00 pm Lunch, or optional lunch seminar with *Nanoscience Technologies, Inc.*, **Create Product Advantages Using Structural DNA Process Tools**, David Keenan
- 1:25 pm **German Innovation Initiative for Nanotechnology-Nanotechnology Conquers Markets**, Volker Rieke, Minister-Counselor, Science, Technology and Environment, *German Embassy*
- 1:55 pm **The Role of Smaller Economies in Europe's multi-actor, multi-level Innovation Governance — Ireland's Advancing Beneficial Nanotechnology**, Helena Acheson, Head of Division, Science, Technology & Innovation Policy and Awareness Division, *Forfás*
- 2:15 pm **Foresight Nanotech Challenge #2: Providing Abundant Clean Water Globally**
Panel: Nanotech for Clean Water
William Lee, President and CEO, *eMembrane*
Kevin McGovern, Chairman, *McGovern & Associates* (for *KX Industries*)
Fred Tepper, President, *Argonide*
- 3:15 pm **Federal Government Regulation of Nanotechnology: Present and Future Trends**, Nancy White, *Central Michigan University*
- 3:35 pm Break - *Ballroom Foyer*
- 4:15 pm **Foresight Nanotech Challenge #3: Increasing the Health and Longevity of Human Life**
Robert Berry, CEO, *Dendritic Nanotechnologies*
- 4:45 pm **Is the Public Interest Being Protected?**
Randy Hayes, Pres. & Founder *Rainforest Action Network*
- 5:15 pm **State-of-the-Art Nanotechnology for Space: Near-Term and Long-Term** Scott Hubbard, Director, *NASA Ames Research Center*
- 5:45 pm **Nanotechnology and the Environment**
Adam Werbach, Conservationist and former President, *Sierra Club*
- Monday Evening**
- 6:30 pm Welcome Reception and Poster Session - *Junior Ballroom*

Applications and Policy - Tuesday, October 25

- 7:30 am Coffee - *Ballroom Foyer*
- 8 am **Advancing Beneficial Nanotechnology Applications**
Scott Mize, President, *Foresight Nanotech Institute*
- 9 am **Keynote: Nanotechnology is Not Little In Washington**
Floyd Kvamme, Co-Chair, *President's Council of Advisors on Science and Technology*, and Partner, *Kleiner Perkins*
- 9:30 am **Nanotech Investment Today**
Charles Harris, Applications Co-Chair and Chairman & CEO, *Harris & Harris*
- 10 am Break - *Ballroom Foyer*

Note: in the case of multi-author papers, italic indicates "speaker" • [view complete program at: www.foresight.org/conference2005](http://www.foresight.org/conference2005)

10:30 am **Investing Debate: How Can We Overcome the “Valley of Death?”**
 Steve Jurvetson, Managing Director, *Draper Fisher Jurvetson*
 Floyd Kvamme, Partner, *Kleiner Perkins*
 Michael Moe, Chairman & CEO, *ThinkEquity Partners*
 Ray Rothrock, Managing General Partner, *Venrock Associates*
 Moderator: Ed Niehaus, Partner, *Cypress Ventures*

11:15 am Break - *Ballroom Foyer*

11:30 am **Foresight Nanotech Challenge #4: Maximizing the Productivity of Agriculture**
 Peter Singer, Director, *University of Toronto Joint Centre for Bioethics, Canada*

11:45 am **Panel: Nanotech for Food Production and Reducing the Environmental “Footprint” of Agriculture**
 Norman Scott, Dept. of Biological & Environmental Engineering, *Cornell University*
 Peter Singer, Director, *University of Toronto Joint Centre for Bioethics*
 Aaron Wagner, Director, R&D, *NaturalNano*

12:30 pm Lunch, or optional sponsor seminar lunch

1:30 pm Poster Session

2:00 pm **Pathways to Atomically-Precise Nanomanufacturing** Jim Von Ehr, Applications Co-Chair and Chairman & CEO, *Zyvex*

2:30 pm **Foresight Nanotech Challenge #5: Making Powerful Information Technology Available Everywhere**, David Bishop, VP Nanotechnology Research, *Lucent*

3:00 pm **Foresight Nanotech Challenge #6: Enabling the Development of Space—From Carbon Nanotubes to the Space Elevator**
 Michael Laine, President, *Liftport Group*

3:30 pm Break - *Ballroom Foyer*

4:00 pm **Controversies in Nanotechnology**
 Christine Peterson, VP Policy and Research, *Foresight Nanotech Institute*

4:30 pm **The Race to Patent Nanotechnology: What Makes Nano Patents Different?**
 Mark Lemley, *Stanford Law School*

5:00 pm **Panel: Intellectual Property in Nanotechnology**
 Richard Ekstrom, Special Counsel, *Buchanan Ingersoll LLP*
 Mark Lemley, *Stanford Law School*
 Maria Swiatek, Partner, *Dorsey & Whitney*
 Jerry Swiss, Partner, *Foley & Lardner*
 Moderator: Christine Peterson, VP Policy and Research, *Foresight Nanotech Institute*

5:45 pm **Public Equity Roundtable**
 Bob Hambrecht, Managing Director-Corporate Finance, *WR Hambrecht + Co*
 Andrew Wahl, Managing Director, *IG Partners*
 Michael Weiner, CEO, *Biophan Technologies, Inc.*

Tuesday Evening

7:15 pm Poster Session and Reception
 Applications, Policy, Research Posters – Refreshments

Research - Wednesday, October 26

8 am Coffee - *Ballroom Foyer*

8:20 am **Molecular Nanotechnology Research Overview Tutorial**
 David Forrest, *U.S. Naval Surface Warfare Center*

9:20 am **Chair’s Welcome and Introduction**
 William Goddard, *Caltech*

9:30 am **Nanomechanical Devices and Systems**
 Alex Zettl, *UC Berkeley*

10:00 am **Electromechanical Nanodevices**
 Z. L. Wang, *Georgia Tech*

10:30 am Break - *Ballroom Foyer*

11:00 am **Clonable DNA Nanotechnology**
 William Shih, *Dana-Farber Cancer Institute and Harvard Medical School*

11:30 am **Nanotechnology Research in Japan**
 Hiroshi Yokoyama, International Chair and Director, *Nanotechnology Research Institute, AIST, Japan*

12:00 pm **Prediction of Structure and Properties on the Nanoscale**
 William Goddard, Research Co-Chair and Director, Materials and Process Simulation Center, *Caltech*

12:30 pm Lunch, or optional lunch seminar with *Nanorex: Computational Modeling and Simulation for Nanomechanical Engineering*

1:45 pm Poster Session for Research, Applications, and Policy posters

2:45 pm Parallel Tracks begin (* denotes presenter):
 Track 1: **Simulations of Ion Population Dynamics in Ion Sources for Biological Macromolecules**, Andreas Hieke, *Gemio Technologies Inc.*
 Track 2: **High Quality Nanocrystals: Synthesis and Water-Solubility for Biological Application**, William Yu* and Vicki Colvin, *Rice University*

3:05 pm Track 1: **Design of Intelligent Biological Probes Driven by Motor Proteins**, Miki Hirabayashi* and Tai Kubo, Neuroscience Research Institute, *National Institute of Advanced Industrial Science and Technology (AIST)*, Japan

Track 2: **Plasma-Enhanced CVD Synthesis of High-Quality Carbon Nanotubes Using Dendrimer-Encapsulated Iron Nanoparticles**, Placidus Amama*, Matthew Maschmann, Timothy Fisher, Timothy Sands, *Purdue University*

3:25 pm Track 1: **Design and Analysis of a Molecular Sorting Rotor**, J. Storrs Hall* and K. Eric Drexler, Nanorex Inc.

Track 2: **Synthesis of Single-walled Carbon Nanotubes from PAA Template Using Novel Catalyst Structure**, Matthew Maschmann*, Placidus Amama, Timothy Fisher, *Purdue University*

3:45 pm Track 1: **A Tightly Regulated Molecular Motor Based Upon T7 RNA Polymerase**, Richard Pomerantz*, *SUNY Downstate Medical Center*, seven co-authors

Track 2: **Holographic Optical Trapping of Nanoparticles**, Joseph Plewa*, Evan Tanner, Daniel Mueth, Arryx, Inc; David Grier, *NYU*

4:05 pm Break - *Ballroom Foyer*

4:35 pm Parallel Tracks continue:
Track 1: **NanoMechanical Engineering: Design and Analysis Tools for Productive Nanosystems**, Mark Sims, *Nanorex, Inc.*

Track 2: **Self-welded Metal-Catalyzed Carbon Nanotube Bridges**, Massood Tabib-Azar* and Yan Xie, *Case Western Reserve University*

4:55 pm Track 1: **The Ensemble Principle**, Seth Goldstein*, *Carnegie Mellon University*, 14 co-authors

Track 2: **Self-Assembling Supra-Molecular Structures from tectoRNA**, Alexey Kozyfman* and Luc Jaeger, *University of California at Santa Barbara*

5:15 pm Track 1: **Self-propelled Nanomachines**, Sebastien Fournier-Bidoz*, Geoffrey Ozin, Andre Arsenaault, Ian Manners, *Univ. of Toronto*

Track 2: **Radial Addressing of Nanowires**, John Savage*, Eric Rachlin, *Brown University*; Andre DeHon, *Caltech*; Charles Lieber, Yue Hu, *Harvard University*

5:35 pm Track 1: TBD

Track 2: **Shortcut to Nanofactories: Assembling Big blocks Instead of Little Atoms**, Tihamer Toth-Fejel*, *General Dynamics*; Chris Phoenix, *Center for Responsible Nanotechnology*

6:15 pm Poster Session

Wednesday Evening

7 pm **Feynman Prize Banquet** (Register in advance)
Presenters: Don McConnell, Senior Vice President, *Battelle* and Scott Mize, *Foresight Nanotech Institute*
Awards will be presented to the winners of:
2005 Foresight Feynman Prizes in Nanotechnology:
Theory and Experimental
2005 Foresight Government Prize
2005 Foresight Prize in Communication
2005 Foresight Distinguished Student Award

Research - Thursday, October 27

7:30 am Coffee - *Ballroom Foyer*

8:00 am **Computational Protein Design**
Steve Mayo, *Caltech* and *Howard Hughes Medical Institute*

8:30 am **Novel Methods of Nanoscale Fabrication and Assembly**
Teri Odom, *Northwestern University*

9:00 am **2005 Feynman Prize Winner (Theory)**

9:30 am **2005 Feynman Prize Winner (Experimental)**

10:00 am Break - *Ballroom Foyer*

10:30 am **Engineering Artificial Biochemical Circuits**
Roy Bar-Ziv, *Weizmann Institute of Science, Israel*

11:00 am **Design and Analysis of a Molecular Tool for Carbon Transfer in Mechanosynthesis**
K. Eric Drexler*, *Nanorex, Inc.* and Damian Allis, *Nanorex, Inc.* and *Syracuse University*

11:30 am **A Molecular Building Block Approach to Designed Macromolecules**
Christian Schafmeister, *University of Pittsburgh*

12:00 pm **Closing remarks**, Christian Schafmeister, *University of Pittsburgh*

12:10 pm Box Lunch Seminar on **Technology Roadmap for Productive Nanosystems**
Alex Kawczak, Vice President, Bio-Products and Nanomaterials, *Battelle*, and Scott Mize, President *Foresight Nanotech Institute*

12:45 pm Conference concludes

**Foresight Conference 2005
Registration Form**



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Please make checks payable to the Foresight Nanotech Institute. Checks and bank drafts must be in U.S. dollars drawn on a U.S. Bank.

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Monday - Thursday Oct. 24-27, 2005 (includes lunch) By Sept. 1 After Sept. 1

Academic, Non-Profit, Gov., Participating Mbr (3.5 days)	\$495	\$695
Regular (3.5 days)	\$695	\$795
Full-time Student* (3.5 days)	\$195	\$225
One Day Only - Check one:		
<input type="checkbox"/> Mon, <input type="checkbox"/> Tues., or <input type="checkbox"/> Wed-1/2 day Thurs.	\$225	\$275
Two Days Only - Check two:		
<input type="checkbox"/> Mon, <input type="checkbox"/> Tues, or <input type="checkbox"/> Wed-1/2 day Thurs	\$425	\$460

Optional Events:

Feynman Prize Banquet (Wed, Oct. 26)	\$75	\$90
Vision Weekend (Sat-Sun, Oct. 22-23) (Participating Members only)	\$295	\$395

Other Rate: CODE _____

Conference:	\$ _____	\$ _____
Prize Banquet:	\$ _____	\$ _____
Vision Weekend:	\$ _____	\$ _____
TOTAL:	\$ _____	\$ _____

* Full time students must **fax** (650-289-0863) a copy of **current** university student ID with the registration form.

Yes, include my contact information: name, badge affiliation, and email on the attendee list.

No, do not include my email on the attendee list.

Reserve your hotel room early.

The cut-off date for the \$129 group rate is Sept. 30. To reserve: call SF Airport Marriott at 1-800-228-9290 in the US and Canada or + 1 650-692-9100, or go to www.marriott.com and use group code: **forfora**.

Comments or special needs: _____

Foresight Nanotech Institute wishes to thank our 2005 Sponsors

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