

Nano Bio Clean Tech™

The 4th International Congress of Nanotechnology 2007 Clean Tech Congress 2007

November 5 - 8, 2007 San Francisco Airport Embassy Suite Hotel



Nano Bio Clean Tech™ 2007: Forging the New Frontier in the Global Economy

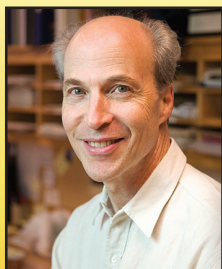
Reasons to participate:

- To learn about these new scientific breakthroughs
- How to apply nanotechnology to solve major technical challenges
- How to accelerate commercialization to meet market needs
- How to collaborate in today's "level playing field" environment
- Networking opportunity with academic and industry leaders from 25 countries

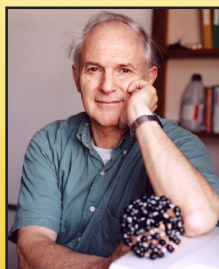
Special Features:

- Nano Bio Clean Tech Investment Forum
- Professional Development Certificates in Nanotechnology

Keynote Speakers



Prof. Roger Kornberg
Nobel Laureate in Chemistry 2006



Sir Prof. Harry Kroto
Nobel Laureate in Chemistry 1996



Senator Leland Yee, Ph.D.
Senator of the State of California

International Congress of Nanotechnology 2007

Conference Topics:

- * Nanomaterials
- * Nanodevices
- * Nanoelectronics
- * Nanobiotechnology
- * Nanomedicine
- * Nano Drug Delivery Systems
- * Nanotechnology in Semiconductor Industry
- * Nanotechnology in Aerospace
- * Nanotechnology in Biopharmaceutical Industry
- * Nanotechnology in Textile industry
- * Nanotechnology in Energy Industry
- * Nomenclature Terminology
- * International Standards
- * Nano Tools
- * Molecular Engineering
- * Nano Manufacturing
- * Nanoparticles Toxicology
- * Societal & Environmental Impacts
- * Health Safety Implications
- * Intellectual Property and Technology Transfer
- * Education & Workforce Training
- * Nanotech Initiatives in State, Federal, Regional and International Arena
- * Capital Funding and Grants for Start-up Ventures
- * Other related topics

Cleantech Congress 2007

Conference Topics:

- * Cleantech Business
- * Biofuels
- * Photovoltaic
- * Hydrogen
- * Fossil Fuels
- * Electric Car
- * Sustainable Energy Public Policy
- * Direct Thermal Energy Conversion
- * Electrochemical Conversion and Storage
- * Nanostructured Solar Cell Manufacturing
- * Intellectual Property
- * Commercialization
- * Venture capital investment

Speaking Opportunity

If you are interested in a speaking opportunity at the upcoming ICNT and Cleantech Congress 2007, please send us a copy of your abstract and a brief summary of your qualification and work experience. Please complete the [Speaker Profile Form](#).

Abstract Submission:

September 15, 2007

For further information, please visit [Abstract Submission](#)

To submit an abstract, please use the [Abstract Online Form](#)

INTERNATIONAL ASSOCIATION OF NANOTECHNOLOGY



1290 Parkmoor Ave.
San Jose, CA 95126 USA
Tel: 408-277-3071
Fax: 408-293-9057
Email: info@ianano.org
<http://www.ianano.org>

We are a nonprofit organization with the goals to foster scientific research and business development in the areas of Nanoscience and Nanotechnology for the benefit of society.

Program At-a-Glance

Monday November 5, 2007

8:00 AM-2:00 PM Workshop Registration
10:00 AM-5:00 PM Exhibitor Registration
11:00 AM-5:00 PM General Conference Registration
9:00 AM-5:00PM * **Workshop 1:** Introduction to Nanotechnology
* **Workshop 2:** Carbon Nanotubes: Research, Manufacturing and Commercialization
* **Workshop 3:** Nanobiotechnology & Nanomedicine: an introduction
* **Workshop 4:** Thin Film Photovoltaic: Principle and Application in Solar Energy
* **Workshop 5:** Biofuel cells
* **Workshop 6:** Intellectual Property & Technology Transfer
12:00 PM-1:00 PM Lunch on your own

Tuesday November 6, 2007

7:30 AM-4:00 PM Registration
7:30 AM-8:30 AM Breakfast
8:30 AM-12:00 PM General Sessions
Welcoming Remarks from the Program Chair
Keynote
Invited Lectures
12:15 PM-1:30 PM Lunch in Reception Area
Poster Presentation
1:30 PM-5:00 PM Breakout Sessions
Track A: Nanomaterials
Track B: Nanoelectronics
Track C: Nanomedicine
Track D: Environmental Health & Safety
Track E: Professional Development Training
Business Re-Engineering
Track F: Professional Development Training- "Train the Trainer"
5:15 PM-6:30 PM Poster/RECEPTION

Wednesday November 7, 2007

7:30 AM-4:00 PM Registration
7:30 AM-8:30 AM Breakfast
8:30 AM-12:00 PM General Sessions
Keynotes
Invited Lectures
12:15 PM-1:30 PM Lunch in Reception Area
1:30 PM-5:15 PM Breakout Sessions
Track A: Nanomaterials
Track B: Carbon Nanotubes
Track C: Nanomedicine
Track D: Nanotech & Cleantech Investment Forum
Track E: Professional Development Training
Business Re-Engineering
Track F: Professional Development Training- "Train the Trainer"
5:15 PM-6:00 PM Congress Discussion

Thursday November 8, 2007

7:30 AM-4:00 PM Registration
7:30 AM-8:30 AM Breakfast
8:30 AM-12:00 PM General Sessions
Keynotes
Invited Lectures
12:15 PM-1:30 PM Lunch in Reception Area
1:30 PM-5:15 PM Breakout Sessions
Track A: Nanomaterials
Track B: Nanotech & Cleantech Investment Forum
Track C: Thin Film Technology for Solar Energy
Track D: Biofuels
Track E: Professional Development Training
Business Re-Engineering
Track F: Professional Development Training- "Train the Trainer": Field Trip to Stanford University
Nano Characterization Laboratory
Workshop on How to Use AFM and SEM for Nanoscale Characterization
5:15 PM-6:00 PM Congress Discussion

KEYNOTE SPEAKERS

Prof. Roger Kornberg

Nobel Laureate in Chemistry 2006

Sir Prof. Harry Kroto

Nobel Laureate in Chemistry 1996

Senator Leland Yee, Ph.D.

Senate 8th District of the State of California

INVITED SPEAKERS

Senator Richard Polanco (Retired)**Paul Alivisatos**

University of California, Berkeley

Noor ButtNational Commission on Nano Science and Technology (NCNST)
Islamabad, PAKISTAN**Russell Hancock**

President and CEO, Joint Venture Silicon Valley

Eric Isaacs

Argonne National Laboratory

Mark McGough

Pentadyne Power Corp. Chatsworth, CA 91311

Curt RichterNational Institute of Standards and Technology
Gaithersburg, MD 20899, USA**Robert Sinclair**Department of Materials Science and Engineering,
Stanford University, Palo Alto, CA, USA**PARTIAL LIST OF SPEAKERS** (Subject to changes and circumstances i.e. Visa approval for some overseas speakers)**Christine Arlt**German Aerospace Centre (DLR), Braunschweig, GERMANY
"Ceramic Nanoparticles: The Key to Future Aerospace Materials"**Raj Bawa**Bawa Biotechnology Consulting, Ashburn, Virginia, USA
"Nanotechnology, Patents and the US Patent Office"**Elena Bichoutskaia**Cambridge University, Cambridge, UNITED KINGDOM
"Modelling Novel Nanomaterials: Controllable Properties and Applications"**Paul Brazis**Motorola Printed Electronics Technology, Schaumburg, IL 60196, USA
"Printed electronics using nanoparticle dispersions"**Asis Kumar Bandyopadhyay**Govt. College of Engineering and Ceramic Technology, Kolkata, INDIA
"Evidence of Magnons in Small Nano Particles of Magnetite in a Glass-Ceramic"**John Boesel**WestStart-CALSTART, Pasadena, CA 91106
"Solutions for Sustainable Transportation"**S.K. Chakarvarti**National Institute of Technology, Kurukshetra, INDIA
"Endurance Investigation on Thermally Stressed Template Synthesized Nano-/micro Resonant Tunneling Diodes"**Andrei Dudnikov**Budker Institute of Nuclear Physics, Novosibirsk, RUSSIA
"Infrared Lanthanide-Activated Laser Luminometer"**Vaibhav Dubey**Dr. H.S. Gour University Sagar, Sagar, INDIA
"Nanovesicles mediated transcutaneous immunization"**Albert Figuerola**CNR-INFM-MNL, Lecce, ITALY
"Synthesis of Novel Size-Controlled Bimagnetic Hybrid Nanocrystals. Structural and Magnetic Characterization and Potential Use as MRI Contrast Agents"**Neville Freeman**Fairfield Scientific Inc. Pittsburgh, PA 15090, USA
"The physical measurement of a wide range of nanosystems in real time"**Yuri Gluguhov**Research and Development Department
California Institute of Nanotechnology, San Jose, CA 95126 USA
"Magnetic nanoparticles for a magnetically targeted treatment of nail fungus"**Luiz Goulart**Universidade Federal de Uberlandia, Uberlandia, BRAZIL
"Detection of Mycobacterium Leprae DNA onto Graphite For Leprosy Diagnostics"**Masanori Horie**National Institute of Advanced Industrial Science and Technology
Ikeda, JAPAN
"Biological effects induced by ultrafine TiO₂ in cell culture system"**Muhammad Irfan Jalees**University of Engineering and Technology, Lahore-Pakistan
Lahore, PAKISTAN
"An In situ XRD Study of Zeolite Crystallization Kinetics"**V. K. Jindal**Panjab University, Chandigarh, INDIA
"Salient Features Related to Structure of Carbon Nanotubes Under Pressure"**David Jishlashvili**Georgian Technical University, Tbilisi, GEORGIA
"Synthesis of Germanium Nitride Nanowires and Spherical Particles"**Masaaki Kawai**Tohoku University, Miyagi, JAPAN
"Interstitial nano-particle tracking and analysis of movement in the human tumor xenograft in mice"**Marianna Grossman Keller**Minerva Consulting, Palo Alto, CA 94303
"Vision for new distributed economy for a sustainable future"**Kannan Krishnan**University of Washington, Seattle, WA 98195 USA
"Biomedical nanoscience: a spin through new possibilities"**Dae Su Kim**Chungbuk National University, Chungbuk, SOUTH KOREA
"Effects of Amine Functionalization on the Curing and Physical Properties of Epoxy-MWNT Nanocomposites"**Darby Kozak**University of Queensland, Queensland, AUSTRALIA
"Profiling Protein Surface Interactions of Multicomponent Suspensions via Flow Cytometry"**Pradeep Kumar**Central Drug Research Institute, Lucknow, INDIA
"Nanotechnology: The Technology of the future"**Yun-Hi Lee**Korea University, Sungbuk-Ku, KOREA
"In situ lateral grown nanodevices"**Patrick Lin**The Nanoethics Group, Santa Barbara, California, USA
"Superman vs. Frankenstein's Monster: The Debate on Human Enhancement Technologies"**Wentai Liu**University of California, Santa Cruz, Santa Cruz, CA 95064 USA
"Biomimetic Microelectronic Systems: Opportunities, Challenges, and Enabling Technology"**Luu Cam Loc**Institute of Chemical Technology, Ho Chi Minh City, VIETNAM
"The Influence of Size of NiO Cluster on Properties of Carried NiO Catalysts Over Different Supports for CO Methanation"**William Lu**The University of Hong Kong, HONGKONG
"AFM Study on Human Intervertebral Disc Collagens – A Better Way to Evaluate the Association of Single Nucleotide Polymorphisms with Degenerative Disc Disease"**Md. Abdulla-Al-Mamun**Kagoshima University, Kagoshima, JAPAN
"Preparation and Characterization of Colloidal Metal Nanoparticles and their Cytotoxic Effect on HeLa Cell"**Giuseppe Manai**Trinity College Dublin, Dublin, IRELAND
"Growth and reactivity to oxygen of ultra-thin Ni films on Rh(III)."**Roy McAlister**American Hydrogen Association, Phoenix, AZ
"Nano-Technology to facilitate hydrogen as an energy carrier for the peaceful and healthful Sustainable Prosperity Revolution"**Michael Meador**NASA Glenn Research Center, Cleveland, OH 44135 USA
"Applications of Nanostructured materials in aerospace"**Arup Mukherjee**Calcutta University, Kolkata, INDIA
"Core Shell Type Testosterone Nanoparticle in Cross Linked Alginate for Sustained Delivery"**Suprabha Nayyar**National Metallurgical Laboratory, Jamshedpur, INDIA
"Protein mediated synthesis of iron oxide nanoparticles and its simultaneous dispersion in an aqueous medium"**A. M. Patel**Shri Sarvajani Pharmacy College, Gujarat, INDIA
"Intellectual Property and Nanomedicine Business"**KSK Rao Patnaik**Osmania University, Hyderabad, INDIA
"Survey of Social and Ethical Implications of Nanotechnology and Nanostructured materials"**Shakhtivel Piraman**Yonsei University, Seoul, SOUTH KOREA
"Synthesis of LiCo_{0.1}Sr_{0.2}Mn_{2-x}1-x₂O₄ cathodes by a low temperature solid-state routine for lithium ion battery"**Kevin Radican**CRANN, Trinity College Dublin, Dublin, IRELAND
"Formation of MoO₂ nanowires on the Mo(110) surface"**Priya Rajdev**Indian Institute of Science, Bangalore, INDIA
"Trapping Single Molecule on Langmuir-Blodgett Films: Thermodynamic and spectroscopic characterization of Nickel-Histagged protein interaction"**Ganesh Rajagopalan**Kennedy/Jenks Consultants, Irvine, CA 92614 USA
"Removal of Nanomaterials in Wastewater"**K.V. Ravi**Applied materials, Santa Clara, CA 95052
"Photovoltaics - enabling scale manufacturing and cost reduction"**Yuu Sakurai**Tohoku University, Sendai, JAPAN
"Nanosized Silver Iodide Beads as X-Ray Contrast Media and its In-vivo Distribution"**Subir Sarkar**Jadavpur University, Kolkata, INDIA
"Genetic approach for efficient high speed nanodevices"**Roland Schoettle**Optimal Technologies International Inc., Benicia, CA
"What does the Electric Power System of the Future Need to Be?"**Mojtaba Shariaty-Niassar**University of Tehran, Tehran, IRAN
"The Application of Materials and their fabrication Processes"**Sanjiv Sharma**Imperial College, London, UNITED KINGDOM
"The Impact of Micro- and Nanotechnologies on Healthcare"**John Sheehan**LiveFuels, Inc. Menlo Park, CA 94025
"Biofuels- the state of the art"

PARTIAL LIST OF VENTURE CAPITALISTS / SPEAKERS

**Mark Chasan**
Transformative
Capital, Inc**Chuck McDermott**
Rockport Capital
Partners**Scott Chou**
Gabriel Venture
Partners**Bill Reichart**
Garage Technology
Ventures**Dan Colbert**
NGEN Partners**David Ward**
MTI Partners Inc**Mohammad H Sheikh**Nanotechnology Research Institute, Shiraz, IRAN
"A Special Nano-sensor for HIV-1"**Petia Simeonova**NIOSH, CDC, Morgantown, West Virginia, USA
"Carbon nanotubes – toxicity evaluation"**Sunil Singroha**Gogte Institute of Technology, Belgaum, INDIA
"Nano-relative computing"**Kathleen Sirois**University of Newcastle, New South Wales, AUSTRALIA
"Glucose Biosensors Based on Hygroscopic Insulator Field-Effect Transistors"**Gurvinder Sodhi**Delhi University, Delhi, INDIA
"Detection of Fingerprints by Nano particle-based Compositions"**Igor Sokolov**Clarkson University, Potsdam, NY 13699 USA
"Molecules in Confined Silica Nanotubes: A Novel Path to Building NanoDevices"**Lihong Su**Northwestern Polytechnical University, Xi'an, CHINA
"The solubility of nanometer particles in high-purity water"**Thathan Premkumar**Gwangju Institute of Science and Technology (GIST)
Gwangju, SOUTH KOREA
"Surfactants as a Versatile Tool for the Preparation of Gold Nanoparticles"**Francisco Torrens**Universitat de Valencia-ICMol, Valencia, SPAIN
"Asymptotic Analysis and Simulation of Coagulation-Fragmentation Equations"**Olivier Toussaint**University of Namur - FUNDP, Namur, BELGIUM
"Nanotoxic: Risk assessment of nanoparticles on human health using in vitro and in vivo models"**Lloyd L. Tran**California Institute of Nanotechnology, San Jose, CA 95126 USA
"Nano Bio Clean Tech: Opportunities and Challenges in the the Global Economy"**Duana Welch**BlabberMouth PR, Austin, TX 78759 USA
"The Role of PR for Nanotechnology"**Ning Xi**Michigan State University, East Lansing, MI 48824 USA
"Manufacturing and Testing of Carbon Nanotube (CNT) Based IR Detectors"**Hiroshi Yamamoto**RIKEN, Saitama, JAPAN
"Molecular Conductor Nanowires Sheathed by Supramolecular Networks"**Jaw-Yen Yang**National Taiwan University, Taipei, TAIWAN
"Simulation of Thermal Conductivity of Multi-dimensional Nanocomposites using Photo Boltzmann Equation"**Ray Yang**West Virginia University, Morgantown, WV 26506 USA
"Metal Nanoparticles from Plants"**Kijung Yong**POSTECH, Pohang, SOUTH KOREA
"Fabrication of ZnO nanorod and hetero-nanostructure array using low temperature method"**Peiyu Zhang**University of Calgary, Calgary, CANADA
"Analysis of mechanical characterization on microneedles for fluid sampling and drug delivery"**Yong Zhang**National University of Singapore, SINGAPORE
"NIR-to-visible Upconversion Fluorescent Nanoparticles for Bioimaging"**Yun Zhao**Beijing Institute of Technology, Beijing, CHINA
"Hydrothermal Synthesis of Ni/Al layered double hydroxide nanorods"

Plus additional number of speakers to be announced soon.

Registration Form

On-line Registration: <http://ianano.org/registration.htm>

Please complete the following Registration Form

Tel: **408-277-3071** - Fax to: **408-293-9057**

Mail to: **PO Box 28208 San Jose, CA 95159 USA**

Please indicate if you are a member of IANANO Yes or No

Membership ID _____

if you're a member of the International Association of Nanotechnology

Prefix: Prof. Dr. Mr. Mrs. Ms. Miss

First Name: _____ M.I. _____

Last Name: _____

Title: _____

Organization: _____

Mail-Stop/Dept.: _____

Street Address: _____

City: _____

State: _____ or Province: _____

Country: _____

ZIP/Postal Code: _____

Phone: _____

Fax: _____

E-Mail: _____

Gender: Male Female

This address is Business Address Home Address

Your participation as Speaker Presenter Attendee

Committee Member Visitor Invited Guest of _____

ICNT / Clean Tech Congress 2007 REGISTRATION

Full Conference Registration Fees include a Program Booklet, a CD for Abstracts and conference materials, light breakfast, morning and afternoon coffee breaks and working lunches. Please select one: (Registration fees are in US dollars)

- Industry MEMBER \$695.00
- Industry MEMBER Speaker \$595.00
- Industry Non-Member \$795.00
- Industry Non-Member Speaker \$695.00
- Industry Non-Member EXHIBITOR (included in the exhibit registration)

- Government MEMBER \$595.00
- Government MEMBER Speaker \$495.00
- Government Non-Member \$695.00
- Government Non-Member Speaker \$595.00

- Academic & Non-profit organization MEMBER \$495.00
- Academic MEMBER Speaker \$395.00
- Academic Non-Member \$595.00
- Academic Non-Member Speaker \$495.00
- Academic Speaker from a developing country \$295.00
- Academic Participant from a developing country \$325.00

- Student Member \$245.00 (please provide proof of university enrollment)
- Student Member Presenter \$195.00
- Student Non-Member \$295.00
- Student Non-Member Presenter \$245.00
- Student from a developing country \$195.00

One Day Conference Pass \$325.00 . Please select one day of your choice:

Guest Registration \$295.00 (to cover food and beverage over 3 days)

Extra Copy of Conference CD-ROM including Abstracts and Proceedings. US\$125.00 each, plus shipping charges.

SCIENTIFIC WORKSHOPS

- Workshop 1: Monday November 5, 2007, from 9:00 AM- 12:00 PM
Introduction to Nanotechnology (\$295.00)
- Workshop 2: Monday November 5, 2007, from 9:00 AM- 12:00 PM
Carbon Nanotubes: Research, Manufacturing and Commercialization (\$295.00)
- Workshop 3: Monday November 5, 2007, from 2:00 PM - 5:00 PM
Nanobiotechnology & Nanomedicine: an introduction (\$295.00)
- Workshop 4: Monday November 5, 2007, from 2:00 PM - 5:00 PM
Thin Film Photovoltaic: Principle and Application in Solar Energy (\$295.00)
- Workshop 5: Monday November 5, 2007, from 2:00 PM - 5:00 PM
Biofuels (\$295.00)
- Workshop 6: Monday November 5, 2007, from 2:00 PM - 5:00 PM
Intellectual Property and Technology Licensing Strategy in Nanotech & Clean Tech (US\$295.00)
- Workshop 7: Thursday November 8, 2007, 1:30 PM -5:00 PM
How to Use AFM and SEM for Nanoscale Characterization- an introduction (\$295.00) - Stanford University - Nano Characterization Laboratory

PROFESSIONAL DEVELOPMENT CERTIFICATES IN NANOTECHNOLOGY

- BUSINESS RE-ENGINEERING CERTIFICATE IN NANOTECHNOLOGY**
(November 5-7, 2007) Discounted tuition fee is \$1,875.00
Discounted tuition fees under the US Government subsidy for US companies outside California: \$695.00*
Discounted tuition fees under the California Community Colleges Chancellor Office for California companies : \$395.00 *
- "TRAINING THE TRAINER" CERTIFICATE IN NANOTECHNOLOGY**
(November 5-8, 2007) Discounted tuition fee is \$1,975.00
Discounted tuition fees under the US Government subsidy for US based companies outside California: \$795.00
Discounted tuition fees under the California Community Colleges Chancellor Office for California companies only : \$495.00 *

PAYMENT METHODS

Total Payment: \$ _____

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Card Holder Signature: _____

Date: _____

Check/Money Order (make payable to: California Institute of Nanotechnology)

HOTEL RESERVATIONS

- San Francisco Airport Hyatt Regency Hotel
- San Francisco Airport Embassy Suites

Discounted room rate for ICNT attendees: US \$159.00/day plus taxes & applicable tourist fees. On-line reservations:

<http://nanotechcongress.com/housing.htm>



<http://cleantechinstitute.org>



<http://cinano.com>

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