Nano Bio Clean TechTM

The 4th International Congress of Nanotechnology 2007

Clean Tech Congress 2007

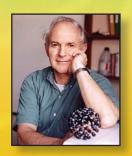
November 5 - 8, 2007 • Hyatt Regency Hotel San Francisco Airport



Keynote Speakers



Prof. Roger KornbergNobel Laureate in Chemistry 2006



Sir Prof. Harry Kroto Nobel Laureate in Chemistry 1996



Loni Hancock Assambly Member



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



























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

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
- * Heath 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

8:00 AM-2:00 PM 10:00 AM-5:00 PM 11:00 AM-5:00 PM 9:00 AM-5:00PM

Monday November 5, 2007 Workshop Registration

Exhibitor Registration General Conference Registration

* 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 7:30 AM-8:30 AM 8:30 AM-12:00 PM

Registration Breakfast **General Sessions**

Welcoming Remarks from the

Program Chair Keynote Invited Lectures Lunch in Reception Area

12:15 PM-1:30 PM Poster Presentation **Breakout Sessions** 1:30 PM-5:00 PM

> 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 Breakout Sessions 1:30 PM-5:15 PM 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" Congress Discussion 5:15 PM-6:00 PM

Thursday November November 8, 2007 Registration

7:30 AM-4:00 PM 7:30 AM-8:30 AM Breakfast 8:30 AM-12:00 PM

General Sessions Keynotes

12:15 PM-1:30 PM 1:30 PM-5:15 PM

Invited Lectures Lunch in Reception Area **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 Distric of the State of California

INVITED SPEAKERS

Senator Richard Polanco (Retired)

Paul Alivisatos

University of California, Berkeley

Noor Butt

National 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 Richter

National 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'

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

Budker Institute of Nuclear Physics, Novosibirsk, RUSSIA "Infrared Lantanide-Activated Laser Luminomete

Vaibhav Dubev

Dr. H.S. Gour University Sagar. Sagar, INDIA "Nanovesicles mediated transcutaneous immunization"

Albert Figuerola

CNR-INFM-NNL. Lecce, ITALY
"Synthesis of Novel Size-Controlled Bimagnetic Hybrid Nanocrystals.
Structural and Magnetic Characterization and Potential Use as MRI

Contrast Agents'

Neville Freeman Farfield Scientific Inc. Pittsburgh, PA 15090, USA

"The physical measurement of a wide range of nanosystems in real time"

Yuri Glughov

Research and Development Department

California Institute of Nantechnology. San Jose, CA 95126 USA "Magnetic nanoparticles for a magnetically targeted treatment of

Luiz Goulart

Universidade Federal de Uberlandia. Uberlandia, BRAZIL "Detection of Mycobacterium Leprae DNA onto Graphite For Leprosy Diagnostics'

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 Insitu XRD Study of Zeolite Crystallization Kinetics"

V. K. lindal

Panjab University. Chandigarh, INDIA "Salient Features Related to Structure of Carbon Nanotubes Under

David Jishiashvili

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"

University of California, Santa Cruz. Santa Cruz, CA 95064 USA "Biomimetic Microelectronic Systems: Opportunities, Challenges, and Enabling Technology'

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 Nayar National Metallurgical Laboratory. Jamshedpur, INDIA "Protein mediated synthesis of iron oxide nanoparticles and its simultaneous dispersion in an aqueous medium

A. M. Patel

Shri Sarvajanik 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"

Shakkthivel Piraman

Yonsei University. Seoul, SOUTH KOREA "Synthesis of LiCox1Srx2Mn2-x1-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

Applied materials. Santa Clara, CA 95052 "Photovoltaics - enabling scale manufacturing and cost reduction"

Yuu Sakurai

Tohoku University. Sendai, JAPAN "Nanosized Silver lodide 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"

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 Capital, Inc.



Chuck McDermott Rockport Capital Partners



Bill Reichert Garage Technology Ventures



Dan Colbert NGEN Partners



David Ward MTI Partners Inc

Mohammad H Sheikhi

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 SodhiDelhi University. Delhi, INDIA
"Detection of Fingerprints by Nano particle-based Compositions"

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

"Nanotoxico: Risk assessment of nanoparticules 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"

Peiyu Zhang
University of Calgary, Calgary, CANADA

Kijung YongPOSTECH. Pohang, SOUTH KOREA
"Fabrication of ZnO nanorod and hetero-nanostructure array using low temperature method"

"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

eijing Institute of Technology. Beijing, CHINA "Hydrothermal Synthesis of Ni/Al layered double hydroxide

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			
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: or Province:			
Country:			
ZIP/Postal Code:			
Phone:			
Fax:			
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 an 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 Charcaterization 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: \$				
	☐ Mastercard			
Credit Card #:				
Expiration Date:				
☐ Check here if the name and address is the same as above				
Card Holder Name:				
Card Holder Address:				
City:			State:	
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







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