

Conference Schedule



Monday November 5, 2007

8:00 AM - 10:00 AM	Workshop Registration
10:00 AM - 5:00 PM	Exhibitor Registration
10:00 AM - 5:00 PM	Conference Registration
9:00 AM - 12:15 PM (Regency A)	Workshop 1: Introduction to Nanotechnology
9:00 AM - 10:30 AM	Nanotech 120BE: Nano Bio Clean Tech Business: an Overview Lloyd L. Tran , Director California Institute of Nanotechnology San Jose, CA - USA
10:45 AM - 12:15 PM	Nanotech 100BE: Nanotechnology: an Introduction Cat-Tien Nguyen , Senior Scientist NASA Ames Research Center, Moffett Field, CA - USA
9:00 AM - 12:00 PM (Regency B)	Workshop 2: Carbon Nanotubes: an introduction Meyya Meyyappan , Chief Scientist, Exploration Technology, NASA Ames Research Center, Moffett Field, CA - USA
	Professional Certificates in Nanotechnology (Combined workshop for both "Business Re-engineering" & "Train the Trainer")
12:15 PM - 1:30 PM	Lunch on your own
1:30 PM - 2:30 PM (Regency A)	(Combined workshop for both "Business Re-engineering" & "Train the Trainer") Nanotech 140BE: Environmental Health & Safety Implications of Nanotechnology Jeffrey Wong , Chief Scientist Department of Toxic California Environmental Protection Agency, Sacramento, CA - USA
2:30 PM - 2:45 PM	Coffee Break
2:45 PM - 5:45 PM (Regency B)	Workshop 3: Nanobiotechnology & Nanomedicine "Train the Trainer" Certificate Nanotech 425TT: Nanobiotechnology & Nanomedicine: Applications of Tissue Engineering Thomas J. Webster , Associate Professor Division of Bio-engineering, Brown University Providence, RI - USA
2:45 PM - 5:45 PM (Regency A)	Workshop 4: Intellectual Property & Technology "Business Re-engineering" Certificate Nanotech 220BE: Essentials of Patents & Intellectual Property Craig Fellestein , CEO Intelligence Operations Group, LLC, New York, NY - USA
	Nanotech 220BE: Technology Licensing & Corporate Strategic Alliance Joel Ackerman , Of counsel Townsend & Townsend, San Francisco, CA - USA

Tuesday November 6, 2007

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

Tuesday AM
(Grand Ballroom ABC)
8:30 AM - 9:00 AM
T-G-1

9:00 AM - 9:15 AM
T-G-2

9:15 AM - 10:00 AM
T-G-3

10:00 AM - 10:15 AM

10:15 AM - 10:45 AM
T-G-4

10:45 AM - 11:15 AM
T-G-5

11:15 AM - 11:45 AM
T-G-6

11:45 AM - 12:15 PM
T-G-7

12:15 PM - 1:30 PM

1:30 PM - 2:00 PM

Tuesday PM
Track A
(Grand Ballroom A)
2:00 PM - 2:30 PM
T-A-1

2:30 PM - 3:00 PM
T-A-2

3:00 PM - 3:30 PM
T-A-3

3:30 PM - 3:45 PM

General Session

Opening Remark from **Lloyd L. Tran**, Director, California Institute of Nanotechnology. President, International Association of Nanotechnology;
"The State of Nanotechnology 2007: Forging the New Scientific in the Global Economy"

Welcome Remarks from the Honorable **Senator Leland Yee**
Senator of the State of California

Roger Kornberg, Professor
Nobel Laureate in Chemistry 2006
Department of Structural Biology
Stanford University Medical School

Coffee Break

Miloslav Frumar, Professor, Head of Research Center University of Pardubice Pardubice, Czech Republic
"Nano-size films for high capacity phase-change memories"

Hiroshi Yamamoto
RIKEN Saitama, JAPAN
"Molecular Conductor Nanowires Sheathed by Supramolecular Networks"

Paul Brazis
Motorola Printed Electronics Technology
Schaumburg, IL - USA
"Printed electronics using nanoparticle dispersions"

Noor Butt
National Commission on Nano Science and Technology (NCNST), Islamabad, PAKISTAN
"Nano Materials of Pd-Pd and Fe-Co alloys and the Mossbauer Studies"

Lunch

Poster Presentation

Nanomedicine

Thomas J. Webster, Associate Professor, Divisions of Engineering and Orthopedics, Brown University. Providence, RI - USA
"Reduced Inflammation and Better Tissue Integration of Nanomaterials"

Darwesh K Aladin¹, William W Lu¹, Kenneth MC Cheung¹, Alfonso HK Ngan², Danny Chan³ and Keith DK Luk¹

¹ Dept. of Orthopaedics and Traumatology,

² Department of Mechanical Engineering,

³ Department of Biochemistry, The University of Hong Kong, Pokfulam, Hong Kong, PRC

"Nano Structure of Human Intervertebral Disc Collagens and its association with the Macro-Mechanical Properties of the Disc Tissue"

Masaaki Kawai
Division of Surgical Oncology, Tohoku University Graduate School of Medicine, 2-1, Seiryō-cho, Aoba-ku, Sendai, Miyagi JAPAN 980-8575
"Interstitial nano-particle tracking and analysis of movements in the human tumor xenograft in mice"

Coffee Break

Conference Schedule



The Conference Schedule may be subject to changes

3:45 PM - 5:45 PM
T-A-4

Cancer Nanomedicine- Special Session

Kattesh Katti

Gauss Professor, Professor of Radiology and Physics Director, University of Missouri Cancer Nanotechnology Platform Columbia, MO, USA

"Nano-Naturo Connection in Nanomedicine: Green Nanoparticles in Medicine and Technology"

Larry A. Nagahara

Project Manager, Nanotechnology in Cancer, Office of the Director, National Cancer Institute, Bethesda, MD, USA "NCI Alliance for Nanotechnology in Cancer: Research and Strategic Direction"

Raghuraman Kannan

Assistant Professor of Radiology, Director, Nanoparticle Production Core Facility, University of Missouri-Columbia, MO, USA "Targeted Gold Nanoparticles for Breast Cancer Imaging"

Henry White

President/CEO, Nanoparticle Biochem Inc, Columbia, MO, USA "Commercial Aspects of Nanomedicine for a Small Company"

Tuesday PM Track B

(Grand Ballroom B)
2:00 PM - 2:30 PM
T-B-1

Nanomaterials

Dae Su Kim¹, Woo Jin Choi¹, Ji-Hyun Byun¹, and Robert L. Powell²

¹ Department of Chemical Engineering, Chungbuk National University, 410 Sungbongro Cheongju, Chungbuk 361-763, South Korea

² Department of Chemical Engineering and Materials Science, University of California at Davis, 1 Shields Avenue, Davis, CA - USA

"Effects of Amine Functionalization on the Curing and Physical Properties of Epoxy-MWNT Nanocomposites"

Albert Figuerola¹, Angela Fiore¹, Teresa Pellegrino¹, Riccardo Di Corato¹, Andrea Falqui², Cinzia Giannini³, Edoardo Micotti⁴, Alessandro Lascialfari⁵, Maurizio Corti⁴, Roberto Cingolani¹, Davide Cozzoli¹, Liberato Manna¹

¹ National Nanotechnology Laboratory of CNR Distretto Tecnologico ISUFI

Via per Arnesano Km.5 73100 Lecce (Italy),

² Institut National de Sciences Appliquées - INSA Departement de Genie Physique 135 Avenue de Rangueil 31077 Toulouse Cedex 4 (France)

³ CNR-Istituto di Cristallografia (IC) Via Amendola 122/D 70126 Bari (Italy)

⁴ Dip. di Fisica "A.Volta", Università di Pavia, and Unita' CNR-INFM and CNISM, Via Bassi 6, I-27100, Pavia, Italy

⁵ Istituto di Fisiologia Generale e Chimica Biologica "G. Esposito", Milano and S3-CNR-INFM, Modena, Italy.

"Size-Controlled Bimagnetic FePt/iron oxide Hybrid Nanocrystals: One-Pot Synthesis, Structural-Magnetic Characterization and Potential Applications"

C.D. Reddy and C. Lu

Institute of High Performance Computing, 1 Science Park Road, #01-01 The Capricorn, Science Park II, Singapore 117528.

"Continuum parameters for vibration analysis of single-walled carbon nanotubes"

Coffee break

3:00 PM - 3:30 PM
T-B-3

3:30 PM - 3:45 PM

3:45 PM - 4:15 PM
T-B-4

Kijung Yong and Youngjo Tak

Surface Chemistry Laboratory of Electronic Materials, Department of Chemical Engineering, Pohang University of Science and Technology (POSTECH), Pohang 790-784, Korea

"Fabrication of ZnO nanorod and heteronanostructure array using low temperature method"

4:15 PM - 4:45 PM
T-B-5

Bryan P. Ribaya^{1,2}, Darrell L. Niemann^{1,2}, Joseph Leung², Philip Brown², Norman Gunther¹, Mahmud Rahman¹, and Cattien V. Nguyen^{1,2}

¹ Department of Electrical Engineering, Santa Clara University, Santa Clara, CA 95053

² NASA Ames Center for Nanotechnology, Moffett Field, CA 94035

"A Study on Individual Carbon Nanotube Field Emission Cathodes: Mechanical and Electrical Reliability and the Effects of Cathode Structure"

4:45 PM - 5:15 PM
T-B-6

R. Bertschinger¹, Ph. A. Aebi², T. A. Jung¹

¹ Laboratory for Micro- and Nanostructures, Paul Scherrer Institute, 5232 Villigen PSI, Switzerland

² Institut de Physique, Université de Neuchâtel, 2007 Neuchâtel, Switzerland

"Influence of Dipolar Fields in Molecular Monolayer Phases: Sub-Phthalocyanine/Ag(111)"

5:15 PM - 5:45 PM
T-B-7

Riichiro Ohta^{1,2}, Setha Yim^{1,3}, Nathaniel B. Zuckerman¹, Jessica L. Killian¹, Chuck Hitzman^{1,4}, Emily Allen³, M. Meyyappan¹ and Cattien V. Nguyen¹

¹ NASA Ames Research Center, Moffett Field, CA 94043, 2University Affiliated Research Center,

² University of California, Santa Cruz, NASA Ames Research Park, Moffett Field, CA 94043,

³ Department of Chemical and Materials Engineering, San Jose State University, San Jose, CA 95192, and

⁴ Stanford Nanocharacterization Laboratory, Stanford University, CA 94305

"Grain Boundary Effect on the Direct Growth of Carbon Nanotubes on Ni Alloys for Field Emission Applications"

5:45 PM - 6:15 PM
T-B-8

M. Anis-ur-Rehman¹ and Asghari Maqsood²

¹ Applied Thermal Physics Laboratory, Department of Physics, COMSATS Institute of Information Technology, Islamabad, Pakistan.

² Thermal Physics Laboratory, Department of Physics, Quaid-i-Azam University, Islamabad 45320, Pakistan

"Synthesis and characterization of Zn doped Cobalt Nano ferrites"

Tuesday PM Track C

(Grand Ballroom C)
2:00 PM - 2:30 PM
T-C-1

Environmental, Health & Safety

Petia Simeonova, A. Erdely, V. G. Walker, T. Hulderman, and R. Salmen

National Institute for Occupational Safety and Health, Morgantown, WV - USA "Carbon nanotubes - toxicity evaluation"

2:30PM - 3:00 PM
T-C-2

Patrick Lin

The Nanoethics Group Santa Barbara, CA, USA

"Superman vs. Frankenstein's Monster: The Debate on Human Enhancement Technologies"

Conference Schedule



The Conference Schedule may be subject to changes

3:00 PM - 3:30 PM
T-C-3

Jean-Pascal Piret¹, Sébastien Vankoningsloo¹, Renaud Vigneron², Stéphanie Rolin³, Christelle Saout⁴, Bernard Masereel³, Joseph Delhalle⁴, Stephane Lucas² and Olivier Toussaint¹

¹ Laboratory of Biochemistry and Cellular Biology (URBC), University of Namur, 61 rue de Bruxelles, 5000 Namur, Belgium.

² Laboratory of Analysis by Nuclear Reactions (LARN), University of Namur, 61 rue de Bruxelles, 5000 Namur, Belgium.

³ Pharmacy Department, University of Namur, 61 rue de Bruxelles, 5000 Namur, Belgium.

⁴ Laboratory of Chemistry and Electrochemistry of Surfaces, University of Namur, 61 rue de Bruxelles, 5000 Namur, Belgium.

"Nanotoxic: Risk assessment of nanoparticles on human health using in vitro and in vivo models"

3:30 PM - 3:45 PM

Coffee break

3:45 PM - 4:15 PM
T-C-4

Masanori Horie¹, Shigehisa Endoh², Haruhisa Kato³, Shinichi Kinugasa³, Kayori Takahashi³, Katsuhide Fujita¹, Yoshiro Saito¹, Yasukazu Yoshida¹, Hitoshi Iwahashi¹, Etsuo Niki¹, and Junko Nakanishi⁴

¹ Human Stress Signal Research Center (HSSRC), National Institute of Advanced Industrial Science and Technology (AIST), 1-8-31 Midorigaoka, Ikeda, Osaka 563-8577, Japan

² Research Institute for Environmental Management Technology, AIST, 16-1 Onogawa, Tsukuba, Ibaraki 305-8569, Japan

³ National Metrology Institute of Japan (NMIJ), AIST, 1-1-1 Higashi, Tsukuba, Ibaraki 305-8565, Japan
"Biological effects induced by ultrafine TiO₂ in cell culture system"

National Institute of Advanced Industrial Science and Technology, Ikeda, Japan
"Biological effects induced by ultrafine TiO₂ in cell culture system"

3:45 PM - 4:15 PM
T-C-5

Ganesh Rajagopalan and Lawrence Y.C. Leong
Kennedy/Jenks Consultants, Irvine, CA - USA
"Removal of Nanomaterials in Wastewater"

4:15 PM - 4:45 PM
T-C-6

Boumadhi Najih^{1,2}, Grosseau Philippe¹, Guilhot Bernard², Cottier Michèle³, Vergnon Jean-Michel³, Boudard Delphine³, Sebastien Patrick⁴.

¹ Centre SPIN, department PC2M, CNRS UMR 5148, Ecole Nationale Supérieure des Mines of Saint-Etienne

² CIS, Centre Ingénierie et Santé, Ecole Nationale Supérieure des Mines of Saint-Etienne.

³ Medicine faculty (EA 3063)/CHU of Saint-Etienne : Pneumology – cytology et histology.

⁴ H.S.E manager of Saint-Gobain CREE, Cavaillon.
"Study the biological activity of fines industrials SiC powders "

Tuesday PM Track D

2:00 PM - 5:00 PM
T-D-1-BE

Professional Development Training Business Re-Engineering

**Nanotech 320
Workshop 5A: Financing a Start-up Enterprise in Emerging Technology**

(Room: Regency A)

Andrew D. Wahl
Managing Director
IG Partners
Redwood Shores, CA 94065

3:30 PM - 3:45 PM

Coffee Break

3:45 PM - 5:15 PM
T-D-2-BE

**Nanotech 340
Workshop 5B: Initial Public Offering Options for a High Growth Enterprise**
(Room: Regency A)
Andrew D. Wahl

5:15 PM - 6:30 PM

Poster Presentation

Tuesday PM Track E

1:30 PM - 3:30 PM
T-E-1-TT

"Train the Trainer" Workshops
**Nanotech 225TT - Workshop: 6
Nanomaterials Characterization**
(Room: Regency B)
Geetha Dholakia, Senior Research Scientist
NASA Ames Research
Moffett Field, CA USA

3:30 PM - 3:45 PM

Coffee Break

3:45 PM - 5:00 PM
T-E-2-TT

**Nanotech 320TT - Workshop: 7
Micro and Nano-Fabrication:
Principle and Applications**
(Room: Regency B)
Mahmudur Rahman, Professor
Electrical Engineering Department
Director, Electron Devices Laboratory
Santa Clara University, Santa Clara, CA - USA

Wednesday November 7, 2007

7:30 AM - 12:00 PM

Registration

7:30 AM - 8:30 AM

Breakfast

Wednesday AM (Grand Ballroom ABC)

8:30 AM - 8:45 AM
W-G-1

General Session

Opening Remarks from Program Chair

8:45 AM - 9:00 AM
W-G-2

Welcome Remarks from the **Honorable Senator Richard Polanco** (retired)
Former Senate Majority Leader, State of California

9:00 AM - 9:15 AM
W-G-3

David Crane
Special Advisor to the Governor for
Jobs and Economic Growth
State of California

9:15 AM - 10:00 AM
W-G-4

Harry Kroto (Nobel Laureate in Chemistry 1996)
Department of Chemistry and Biochemistry
Florida State University
Tallahassee, Florida, USA

10:00 AM - 10:15 AM

Coffee break

10:15 AM - 10:40 AM
W-G-5

Phani Ayalasomayajula
CEO, Center for Advanced Nano-Technologies
Abruzzo, ITALY
"Synthesis of SnO₂ nanofibers by electrospinning technique and their applications in gas sensors"

10:40 AM - 11:05 AM
W-G-6

Ning Xi
Michigan State University
East Lansing, MI 48824 USA
"Manufacturing and Testing of Carbon Nanotube (CNT) Based IR Detectors"

Conference Schedule



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11:05 AM - 11:30 AM W-G-7	Curt Richter National Institute of Standards and Technology Gaithersburg, MD 20899, USA “Metrology to Enable Emerging Nanoelectronics”	4:45 PM - 5:15 PM W-A-6	Kathleen Sirols University of Newcastle Callaghan NSW, Australia “Glucose Biosensors Based on Hygroscopic Insulator Field-Effect Transistors”
11:30 AM - 11:55 AM W-G-8	Subir Sarkar Jadavpur University Kolkata, INDIA “Genetic approach for efficient high speed nanodevices”	Wednesday PM Track B (Grand Ballroom B) 2:00 PM - 2:30 PM W-B-1	Nanomaterials
Wednesday PM Track A (Grand Ballroom A) 2:00 PM - 2:30 PM W-A-1	Nanomedicine Ahsan Ali, Mansharipova A.T., Gilmanov M.K., Djusipov A.K., Rao Khalid M. Scientific research institute of cardiology and internal diseases. Almaty. Kazakhstan KazNanoMed. Almaty. Kazakhstan. “New Methods of Drug Delivery”	2:30 PM - 3:00 PM W-B-2	Geetha R Dholakia Center for Advanced Aerospace Materials and Devices, NASA Ames Research Center, Moffett Field, CA 95051. “Self assembly: From organic molecules to inorganic nanowires”
2:30 PM - 3:00 PM W-A-2	A. S. Afonso¹, L. R. Goulart-Filho², M. Moura^{2,1}, M. B. Goulart³, J. M. Madurro¹ and A. G. Brito-Madurro¹ ¹ Institute of Chemistry, Federal University of Uberlandia, Brazil. ² Institute of Genetics and Biochemistry, Federal University of Uberlandia, Brazil. Phone: +55 34 32182478. ³ National Reference Center of Leprosy, Clinics Hospital, School of Medicine, Federal University of Uberlandia, Brazil. “Detection of Mycobacterium Leprae DNA onto graphite for leprosy diagnostics”	3:00 PM - 3:30 PM W-B-3	Giuseppe Manai Trinity University, Dublin, Ireland “Growth and reactivity to oxygen of ultra-thin Ni films on Rh(111).”
3:00 PM - 3:30 PM W-A-3	Dewayne Stennett¹, Helen Asemota^{1,2,3}, Frederick Oladeinde^{4,5}, Andrew Wheatley^{1,2}, Lowell Dilworth¹, Oswald Simon¹, Christine Hohmann⁶, Yvonne Bronner⁵ and Joseph Bryant⁷ ¹ Basic Medical Sciences Department, ² Biotechnology Centre, University of the West Indies, Mona Campus, Kingston 7, Jamaica. ³ Shaw University Nanotechnology Initiative, Raleigh, North Carolina, U.S.A ⁴ Chemistry Department, Morgan State University, Baltimore, Maryland, U.S.A ⁵ Center for Complementary and Alternative Medicine, School of Public Health & Policy, Morgan State University, Baltimore, Maryland, USA ⁶ Biology Department, Morgan State University, Baltimore, Maryland, USA ⁷ Animal Core Facility Department, University of Maryland Biotechnology Institute, Baltimore, Maryland, USA “Bitter Yam Biomaterials influence Kidney Function and Electrolytes Balance in Transgenic Mice Model of Hypercholesterolemia”	3:30 PM - 3:45 PM 3:45 PM - 4:15 PM W-B-4	Thathan Premkumar, Ji-Yong Shin, Dongsik Kim, Kyungjae Lee, and Kurt E. Geckeler Laboratory of Applied Macromolecular Chemistry, Department of Materials Science and Engineering Gwangju Institute of Science and Technology (GIST), 1 Oryong-dong, Buk-gu, Gwangju 500-712, South Korea. “Surfactants as a Versatile Tool for the Preparation of Gold Nanoparticles”
3:30 PM - 3:45 PM	Coffee Break	4:15 PM - 4:45 PM W-B-5	Coffee Break
3:45 PM - 4:15 PM W-A-4	Yu Sakurai, M.Takeda, L.Cong, A.Kasuya, Y.Kobayashi and N.Ohuchi Graduate School of Medicine, Tohoku University, Sendai, Japan “Nanosized Silver Iodide Beads As X-Ray Contrast Media and its In Vivo Distribution”	4:45 PM - 5:15 PM W-B-6	Khlyustova, Anna. V., Maximov, A. I., Subbotkina, I. N. Institute Solution Chemistry of RAS, Ivanovo, Russia “Application of Underwater Volume Discharges in Elec- trolyte Solution for Cleaning from Organic Compounds”
4:15 PM - 4:45 PM W-A-5	Darby Kozak University of Queensland Queensland, Australia “Profiling Protein Surface Interactions of Multicomponent Suspensions via Flow Cytometry”	5:15 PM - 5:45 PM W-B-7	Jaw-Yen Yang and Tse-Yang Hsieh, Computational Nanotechnology Laboratory, National Taiwan University No. 1, Section 4, Roosevelt Road, Taipei 10764 TAIWAN “Simulation of Thermal Conductivity of Multi-dimensional Nanocomposites using Photo Boltzmann Equation”
		5:45 PM - 6:15 PM W-B-8	Darrell L. Niemann^{1,2}, Jessica L. Killian^{3,4}, Nathaniel Zuckerman^{3,4}, Bryan P. Ribaya^{1,2}, Mahmud Rahman², M. Meyyappan¹ and Cattien V. Nguyen^{3,4} ¹ NASA Ames Research Center, Moffett Field, CA 94035 ² Electron Devices Laboratory, EE Dept., Santa Clara University, Santa Clara, CA 95053 ³ Department of Chemistry, San Jose State University, One Washington Sq., San Jose, CA 95192; ⁴ ELORET Corp. NASA Ames Research Center, M/S 229-1, Moffett Field, CA 94035 “Field Emission Properties of Carbon Nanotube Pillar Arrays Patterned Directly on Metal Alloy Surfaces”
			Kevin Radican, N. Berdunov, and I. V. Shvets CRANN, School of Physics, Trinity College, Dublin, Ireland “Periodic Self Faceting: Formation of MoO ₂ nanowires on the Mo(110) surface.”
			Priya Rajdev and Dipankar Chatterji Molecular Biophysics Unit, Indian Institute of Science, Bangalore-560012, India. “Trapping Single Molecule on Langmuir-Blodgett Films: Thermodynamic and spectroscopic characterization of Nickel-Histagged protein interaction”

Conference Schedule



The Conference Schedule may be subject to changes

Wednesday PM

Track C

(Grand Ballroom C)
2:00 PM - 5:30 PM
W-C-1

Clean Tech Discussion Forum

Invited Speakers/Panelists

Dan Cort, Mayor - Pacific Grove, CA
Dan Furtado, Mayor - Campbell, CA
Brian Meano, CEO
Fieldstone Energy Company, Cleveland, OK
Robert Preus, President
Abundant Renewable Energy, Newberg, OR
Mark Goldes, CEO
Magnetic Power, Inc., Sebastopol, CA
Scott Elrod
Manager Hardware System Laboratory
Palo Alto Research Center
Palo Alto, CA - USA
Rich Hilt, Consultant
Brightline, Menlo Park, CA
Marianna Grossman, Consultant
Minerva Consulting, Palo Alto, CA

9:15 AM - 9:45 AM
T-G-3

Alex Zettl

Professor - Department of Physics
University of California at Berkeley &
Lawrence Berkeley National Laboratory
Berkeley, CA USA
"Nanodevice "Firsts" for Electronics
and Energy Applications"

9:45 AM - 10:15 AM
T-G-4

K.V.Ravi

Director, Solar Business Group - Applied Materials
Santa Clara, CA USA
"Photovoltaics - enabling scale manufacturing
and cost reduction"

10:15 AM - 10:30 AM

Coffee Break

10:30 AM - 12:00 PM
T-G-5-8

Panel Discussion on Clean Tech Investment

Ira Ehrenpreis

General Partner - Technology Partners

Bill Reichert

Managing Director - Garage Technology Partners

Michael Sears

Managing Partner - Atrium Capital

Abe Yokell

Senior Associate - Rockport Capital Partners

Scott Chou

Partner - Gabriel Venture Partners

Mark Chasan

CEO - Transformative Capital, Inc

David Ward

Senior Partner - MTI Partners Inc

Wednesday PM

Track D

(Regency A)
2:00 PM - 3:30 PM
W-D-1-BE

Professional Development Training Business Re-Engineering Certificate

Nanotech 440BE: Nanotech Re-Engineering Project Development- Part 1

Preparation of Project Proposal
Lead by faculty members of the
California Institute of Nanotechnology

3:30 PM - 3:45 PM

Afternoon Coffee Break

3:45 PM - 5:45 PM
W-D-2-BE

Nanotech 440BE: Nanotech Re-Engineering - Project Presentation - Part 2

Preparation of Project Proposal
Lead by faculty members of the
California Institute of Nanotechnology

Wednesday PM

Track E

(Regency B)
2:00 PM - 4:00 PM
W-E-1-TT

"Train the Trainer" Workshops

Nanotech 235TT: Surfaces & Thin Films: Applications in Nanotechnology

Zhen Guo, Senior Process Engineer
INTEL Corporation
Santa Clara, CA USA

4:00 PM - 4:15 PM

Afternoon Coffee Break

4:15 PM - 6:15 PM
W-E-2-TT

Nanotech 315 TT: Fundamentals & Applications of Carbon Nanotubes

Cat-Tien Nguyen
Senior Scientist, Center for Nanotechnology
NASA Ames Research Center
Moffett Field, CA 94035 USA

Thursday AM

(Boardroom IV)

10:30 AM - 12:00 PM

Professional Development Training "Train the Trainer"

Nanotech 525TT: Certificate Nanotech & Cleantech Projects

Lunch

10:30 AM - 12:00 PM

Thursday PM

Track A

(Grand Ballroom A)
2:00 PM - 2:30 PM
Th-A-1

Nanostructures & Applications

Maureen Gorsen

Director, The Department of Toxic
Substances Control
Sacramento, CA USA

2:30 PM - 3:00 PM
Th-A-2

Joel Ackerman

Of Counsel, Townsend & Townsend
San Francisco, CA

3:00 PM - 3:30 PM
Th-A-3

Neville Freeman

Farfield Scientific Inc, Pittsburgh, PA, USA
"The physical measurement of a wide range
of nanosystems in real time"

3:30 PM - 3:45 PM

Afternoon Coffee Break

3:45 PM - 4:15 PM
Th-A-4

Zhihao Yang

President and CTO, NanoMas Technologies, Inc.
Vestal, NY
"Nanoparticle inks for printed electronics"

4:15 PM - 4:45 PM
Th-A-5

Yuri Glukhoy & Lloyd Tran

California Institute of Nanotechnology
San Jose, CA 96126 USA
"A novel manufacturing method to produce ultra pure
gold and silver nanoparticles for medical applications"

Thursday November 8, 2007

Thursday AM

(Grand Ballroom ABC)
8:30 AM - 8:45 AM
T-G-1

General Session

Opening Remarks from Program Chair

8:45 AM - 9:15 AM
T-G-2

Assembly Member Loni Hancock

Assembly member of the State of California

Conference Schedule



The Conference Schedule may be subject to changes

4:45 PM - 5:15 PM Th-A-6	Christine Arit German Aerospace Centre (DLR) Braunschweig, Germany "Ceramic Nanoparticles: The Key to Future Aerospace Materials"	2:30 PM - 3:00 PM Th-C-2	John Boesel President & CEO - WestStart-CALSTART Pasadena, CA USA "Solutions for Sustainable Transportation"
5:15 PM - 5:45 PM Th-A-7	Rodica Morarescu, Frank Hubenthal, Lars Englert, Lars Haag, Thomas Baumert, and Frank Träger , Institut für Physik and Center for Interdisciplinary Nanostructure Science and Technology – CINSaT, Universität Kassel, Heinrich-Plett-Straße 40, D-34132, Kassel, Germany "Nanoapplications of Regular Arrays of Gold Nanoparticles Prepared by Nanosphere Lithography"	3:00 PM - 3:30 PM Th-C-3	Patrick McMullens Chief Technology Officer - Vycon, Inc., Yorba Linda, CA "Reduction of Fuel and Emissions in Port Cranes with the use of Energy Storage Flywheels"
Thursday Track B (Grand Ballroom B) 2:00 PM - 2:30 PM Th-B-1	Clean Tech Leader Forum - Session II A. Paul Alivisatos Department of Chemistry, University of California, Berkeley, CA, USA "Nanocrystal Based Solar Cells"	3:30 PM - 3:45 PM	Coffee Break
2:30 PM - 3:00 PM Th-B-2	Hector Cotal Senior Scientist, Spectrolab Sylmar, CA, USA "Progress toward Low-Cost, Power Generation from High Efficiency Multijunction Concentrator Solar Cells"	3:45 PM - 4:15 PM Th-C-4	Jacob Weiss President- Medis Technologies, New York, NY "Commercializing Fuel Cell Technology for Mass Adoption"
3:00 PM - 3:30 PM Th-B-3	Claes G Granqvist Department of Engineering Sciences, The Angstrom Laboratory, Uppsala University, Uppsala, Sweden "Electrochromic foil technology for buildings: Combining energy efficiency and indoor comfort"	4:15 PM - 4:45 PM Th-C-5	R. Douglas McPheters President and CEO - HoloTouch, Inc., Darien, CT "Clean Facility Advantages of Touchless, Holographic Human-Machine Interfaces"
3:30 PM - 3:45 PM	Coffee Breaks	4:45 PM - 5:15 PM Th-C-6	Firouz Shahrokhi President - PowerAvenue Corp., Nashville, TN "Building Hydrogen Economy Based on Sand and Water"
3:45 PM - 4:15 PM Th-B-4	Clark Gellings Vice President, Electric Power Research Institute, Palo Alto, CA 94304 USA "Nanotechnologies in electric utility applications"	5:15 PM - 5:45 PM Th-C-7	Vasily Borzenko, Dmitry Dunikov and Stanislav Malysheenko Joint Institute for High Temperatures RAS, Moscow, Russia "Reversible Solid State Hydrogen Storage Systems for Fuel Cell Power Supply"
4:15 PM - 4:45 PM Th-B-5	Rajeeva Lahri and Keshav Prasad Signet Solar, Menlo Park, CA 94025 USA "Mass Adoption of Solar Photovoltaics: Lessons from the Semiconductor Industry"	Thursday PM Track D 1:30 PM - 5:00 PM Th-D-TT	"Train the Trainer" Workshops Bus departs at SFO Hyatt Hotel at 12:30 PM Field Trip: 1:30 PM to 5:00 PM Workshop on How to Use AFM and SEM for Nanoscale Characterization at Stanford University Nano Characterization Laboratory Prof. Robert Sinclair Chair, Materials Science and Engineering Director, Nano Characterization Laboratory Stanford University
4:45 PM - 5:15 PM Th-B-6	Roland Schoettle CEO, Optimal Technologies International Inc. Benicia CA, USA "What does the Electric Power System of the Future Need to Be?"	5:45 PM - 6:15 PM	Congress Conclusion
5:15 PM - 5:45 PM Th-B-7	Moneer Azzam President/CEO - SolarOne Solutions Framingham, MA USA "How Advancements in LED Lighting Technology is Creating New Opportunity for Solar Powered Lighting"		
Thursday PM Track C (Grand Ballroom C) 2:00 PM - 2:30 PM Th-C-1	Clean Tech Leader Forum - Session III Anand Rangarajan Executive Vice President and Chief Technologies Officer WorldWater & Solar Technologies Corp., Ewing, NJ "Latest Development in Solar PV Conventional Technologies/ Innovative Water Supply Solutions"		

