

University of California
System-Wide Technology Transfer Forum
In partnership with the Canadian Consulates in California
CLEAN TECHNOLOGY

DATE: April 3, 2008

LOCATION: Hyatt Regency San Francisco Airport, Burlingame

TIME: 8:30 am to 5:15 pm/Reception at 5:15 pm

This is an invitation only event!

AGENDA

8:30 – 9:00

REGISTRATION and BREAKFAST

9:00 – 9:30

OPENING REMARKS - Grand Peninsula Ballroom

Steven V. W. Beckwith

Vice President, Research and Graduate Studies

University of California, Office of The President

Marc LePage

Consul General of Canada

9:30 – 10:30

PANEL DISCUSSION - Grand Peninsula Ballroom

“Regional Initiatives and Research Emphases in Clean Tech”

Panelists:

-**Barry M. Klein** (*Moderator*): Vice Chancellor for Research, UC Davis

-**Rick Whittaker**: Vice President, Investments, Sustainable Development
Technology Canada

-**Christopher Somerville**: Director, Energy Bioscience Institute

-**Sean Randolph**: President & CEO, Bay Area Economic Forum

-**Robert Cattolica**: Prof., Mechanical & Aerospace Engineering, UCSD;
PI, UC Discovery/West Biofuels-Biomass to Renewable Fuels Project

-**Jack N. Saddler**: Dean, Faculty of Forestry, University of British
Columbia, Vancouver, Canada

10:30 – 11:00

NETWORKING BREAK

11:00 – 12:30

MORNING BREAKOUT SESSIONS

12:30 – 2:00

LUNCH BREAK and PANEL DISCUSSION

- **Grand Peninsula Ballroom** -

“Angel and Venture Investment Strategies: Perspectives on the Role of Investment in Sustaining and Accelerating Innovation in Clean Tech”

Panelists:

- Sergio Garcia** (*Moderator*): Partner, Fenwick & West
- Chris Vargas**: Managing Director, CleanTech Circle; The Angels Forum
- William Reichert**: Managing Director, Garage Technology Ventures
- Marianne Wu**: Partner, Mohr, Davidow Ventures
- Rachel Sheinbein**: Keiretsu Forum, Clean Tech Committee

2:15- 3:45

AFTERNOON BREAKOUT SESSIONS

3:45 – 4:15

NETWORKING BREAK

4:15 – 5:15

PANEL DISCUSSION - Grand Peninsula Ballroom

“Impacts and Drivers in Clean Tech: Perspectives From Various Industrial Sectors”

Panelists:

- David Baker** (*Moderator*): San Francisco Chronicle
- Christopher Somerville**: Director, Energy Bioscience Institute
- John Voltz**: Principal, JaneCapital
- Gregory S. Curhan**: President, Merriman Curhan Ford & Co.
- Odd Bres**: Senior Technology Manager, University of Manitoba
- Blake A. Simmons**: VP for Deconstruction, Joint BioEnergy Institute

5:15 -

NETWORKING RECEPTION

SPONSORS:

Morrison & Foerster, LLP
Fenwick & West, LLP

Wilson Sonsini Goodrich & Rosati
Townsend & Townsend and Crew, LLP

MORNING BREAKOUT SESSIONS

FUEL CELLS SESSION - Room E

Moderated by Zuhair A. Munir

- 11:00 – 11:30 **Dave Ghosh**
Director, Science and Technology
National Research Council, Canada
"Overview of Hydrogen and Fuel Cells R & D Activities at NRC"
- 11:30 – 12:00 **Zuhair A. Munir**
Distinguished Professor, Dept. of Chemical Engineering and Material Science
University of California, Davis
"Prospects for Low Temperature Fuel Cells and Other Hydrogen Devices"
- 12:00 – 12:30 **Steven Bergens**
Professor, Department of Chemistry
University of Alberta, Alberta, Canada
"Use of Magnetic Resonance Microscopy to Image Water in Operating Fuel Cells"

BIO 1 SESSION - Room F

Moderated by James C. Liao

- 11:00 – 11:30 **James C. Liao**
Chancellor's Professor, Dept. of Chemical and Biomolecular Engineering
University of California, Los Angeles
"Next Generation Biofuels"
- 11:30 – 12:00 **Steven Liss**
Associate Vice President, Research
University of Guelph, Ontario, Canada
"Biomass/Cellulosic Energy Research at Guelph"
- 12:00 – 12:30 **Anastasios Melis**
Professor, Dept. of Plant and Microbial Biology
University of California, Berkeley
"Microalgal Biofuels: Hydrogen and Hydrocarbons"

BIO 2 SESSION - Room G

Moderated by Joseph M. Norbeck

- 11:00 – 11:30 **Christopher A. Voigt**
Assistant Professor, Dept. of Pharmaceutical Chemistry
University of California, San Francisco
"Programming Bacteria"
- 11:30 – 12:00 **Adrian Tsang**
Professor, Department of Biology
University of Concordia, Quebec, Canada
"Diversity Search for Biomass-Degrading Enzymes"
- 12:00 – 12:30 **Joseph M. Norbeck**
Director, Environmental Research Institute
University of California, Riverside
*"Production of Synthetic Fuels from Carbonaceous Matter
Using Steam Hydrogasification"*

SUSTAINABLE ENERGY 1 SESSION - Bayside Room

Moderated by Arunava Majumdar

- 11:00 – 11:30 **Arunava Majumdar**
Director, Environmental Energy Technologies Division,
Faculty Scientist, Materials Sciences Division
Lawrence Berkeley National Laboratory
"Curbing the Demand-The Lowest Hanging Fruit in Clean Energy Technology"
- 11:30 – 12:00 **Daniel Mumm**
Assistant Professor, Dept. of Chemical Engineering and Materials Science
University of California, Irvine
"Advances in Materials for Clean Energy Systems"
- 12:00 – 12:30 **Jan B. Talbot**
Director, Chemical Engineering Program
Professor, Department of Nanoengineering
University of California, San Diego
"Green Chemical Processing for High-Tech Industries"

AFTERNOON BREAKOUT SESSIONS

SOLAR SESSION - Room E

Moderated by Roland Winston

- 2:15 – 2:45 **Roland Winston**
Presidential Chair
Professor, Natural Sciences and Engineering
University of California, Merced
"State of the Art Solar Collectors"
- 2:45 – 3:15 **Farid Bensebaa**
Research Officer & Adjunct Professor
National Research Council/University of Ottawa, Canada
*"A New Scalable and Cheap Three Step Fabrication Process
of Photovoltaic CIGS"*
- 3:15 – 3:45 **Charles L. Bennett**
Physicist, Global Security Directorate
Lawrence Livermore National Laboratory
"Distributed Solar Thermal Power and the Path to Affordable Sustainable Power"

BIO 3 SESSION - Room F

Moderated by Jean VanderGheynst

- 2:15 – 2:45 **Jean VanderGheynst**
Associate Professor and Graduate Advisor, Dept. of Bio. and Ag. Engineering
University of California, Davis
"The Future of Microalgae in Clean Technologies"
- 2:45 – 3:15 **Martin Reaney**
Professor, College of Agriculture and Bioresources
University of Saskatchewan, Saskatchewan, Canada
*"Business Opportunities: Co-Products, Lubricity Factors and
Biodiesel Production"*
- 3:15 – 3:45 **G. Wesley Hatfield**
Professor, Chemical Engineering and Materials Science, Institute
for Genomics and Bioinformatics
University of California, Irvine
"Optimized Biochemical Pathways for Ethanol Production in Yeast"

BIO 4 SESSION - Room G

Moderated by Donald Smith

2:15 – 2:45

Dimitre Karamanev

Professor, Dept. of Chemical and Biochemical Engineering
The University of Western Ontario, Ontario, Canada
"Biogenerator Technology"

2:45 – 3:15

Donald Smith

Chair, Plant Science Department
McGill University, Quebec, Canada
"Sustainable Crop and Biofuel Innovation Program at McGill"

3:15 – 3:45

Michel Labrecque

Professor, Institut de Recherche en Biologie Végétale
University of Montreal, Canada
"Developing Willow Biomass Crop for Bioenergy and Bioproducts in Canada"

Amit Kumar

Assistant Professor, Department of Mechanical Engineering
University of Alberta, Alberta, Canada
"Pipelining Biomass to a Biorefinery"

SUSTAINABLE ENERGY 2 SESSION - Bayside Room

Moderated by Yoram Cohen

2:15 – 2:45

Yoram Cohen

Professor, Department of Chemical Engineering
University of California, Los Angeles
"Smart Water Systems: Monitoring, Process Control, Membranes, and Nanotechnology for Advanced Water Treatment and Desalination"

2:45 – 3:15

Eric Bibeau

Assistant Professor, Dept. of Mechanical and Manufacturing Engineering
University of Manitoba, Manitoba, Canada
"New Technologies to Increase the Renewable Energy Ratio"

3:15 – 3:45

Sue A. Carter

Associate Professor, Physics Department
University of California, Santa Cruz
"Clean Technology at University of California, Santa Cruz"