

FARID BENSEBAA, Ph.D.

Research Officer & Adjunct Professor
National Research Council/University of Ottawa, Canada

Farid Bensebaa received a PhD of Materials Science from University of Montreal (Canada). After two years at Texas Centre for Superconductivity at University of Houston (Texas, USA), he joined the National Research Council of Canada in 1997 where he is presently project leader. He also holds an Adjunct Professor position at University of Sherbrooke. He co-managed a multi-million dollar project funded by CRTI to create a nanobiosensor for hazardous materials. He is a member of a CCQM and beamline coordinator at the Canadian Light Synchrotron. He organized several international workshops. He collaborated with several large companies (Nortel, IBM, Syncrude, INCO, JDS, Ballard). He has developed an industrial microwave based process for the fabrication of active and support materials with applications in catalysis and solar energy. He has developed novel fabrication approaches for photovoltaic and fuel cell devices. He is a world expert in advanced micro and nano-characterizations of material and devices. He has more than 40 peer-reviewed publications and holds several patents. He is presently leading several projects on distributed and clean power generations.

ERIC BIBEAU, Ph.D., P.Eng.

Associate Professor

University of Manitoba

Dr. Eric Bibeau (Ph.D., P.Eng.) is an Associate Professor at the University of Manitoba and holds the Manitoba Hydro/NSERC Chair in Alternative Energy. Dr. Bibeau is a mechanical engineer involved in research, development and demonstration of cost-effective alternative energy power systems at the distributed scale. He specializes in developing power systems using biomass feedstocks and industrial waste heat working on new power cycles like the Entropic Cycle and the Brayton Hybrid Cycle that will allow distributed biomass energy CHP systems to be financially viable. Dr. Bibeau is working at developing kinetic turbine technologies for river applications and anaerobic digester systems for cold weather climates that are economically viable. His research work is depended on numerical modelling to understand, optimize and reduce capital costs of distributed energy systems. Dr. Bibeau is also involved in developing mitigation strategies to prevent icing of wind turbine blades. Recently he has begun developing expertise in PHEV as a means to increase the renewable energy ratio and to reduce greenhouse gas reductions in transportation. Dr. Bibeau is well acquainted with the various barriers to implement alternative energy systems at the distributed scale.

ODD BRES

University of Manitoba
Technology Transfer Manager

Odd Bres joined the University of Manitoba Technology Transfer Office in 2005. Dr. Bres holds a degree in biological science from the University of Alberta. He continued on to graduate studies at The University of Manitoba, where he received his PhD. He went on to post doctoral work under an NSERC fellowship at U.C. Berkeley, and UCLA. In 1995, he left academia to establish a biotechnology startup company in genetic analysis services. The company was sold to an Ontario firm, where he worked before returning to The University of Manitoba. Now in Winnipeg, Dr. Bres pursues his technology transfer career, while raising his three children and pursuing his interests in music and the outdoors.

SUE A. CARTER, Ph.D.

Associate Professor, Physics Department
University of California, Santa Cruz

Associate Professor Carter received her Ph.D. at the University of Chicago in 1993 her B.A. at Kalamazoo College, MI, 1988. Her Scholarships and Awards consist of the following: David and Lucille Packard Fellow, 1996 , NSF/IBM Young Investigator Fellow, 1995 , General Motors Fellow, 1988, Heyl Scholarship – Full Tuition for 4 years (1984-1988) at private university and elected into Top 25 Women Graduates in Michigan, 1988. Professional Positions are currently Associate Professor of Physics, University of California, Santa Cruz, CA, 1995 – present, Chief Technical Advisor, Add-vision Inc., Scotts Valley, CA, 2001- present, Young Investigator Research Fellow, IBM Almaden Research Center, San Jose, CA, 1995-1996, Postdoctoral Research Scientist and AT&T/Lucent Bell Labs, Murray Hill, NJ, 1993 – 1995. Publications consist of over 50 publications in peer reviewed journals, over 10 on polymer light emitting materials, 3 on polymer-based photovoltaics , 3 on polymer liquid crystal flat panel displays, 4 on novel transparent conductors, 3 on protein structure and aggregation, and dozens of publications on correlated electron systems.

YORAM COHEN, Ph.D.

Professor, Department of Chemical Engineering
University of California, Los Angeles

Professor Cohen received his B.A.Sc., 1975, at the University of Toronto, M.A.Sc., at the University of Toronto, 1977 and his Ph.D., at the University of Delaware, 1981. In 2003 he received the Lawrence K. Cecil Award in Environmental Chemical Engineering, Env. Div., AIChE. Chair, 1st Vice-Chair, 2nd Vice-Chair, AIChE Environmental Division (2002, 2001, 2000). 1997 Outstanding Research paper, AIChE, Separations Division. Del Amo Research Fellowship, 1994, Lady Davis Fellowship (Israel), 1987, 1994, National Research Council, Board on Environmental Studies and Toxicology (1989-1992) and Director, Center for Environmental Risk Reduction. His Research Interests are Surface nano-structuring with polymers and organosilanes, Graft polymerization, Membranes: Desalination, ultrafiltration and pervaporation. Surface crystallization, Neural Networks for quantitative-structure property estimation. Intermedia and multimedia transport in environmental systems, and environmental impact assessment.

SERGIO GARCIA, J.D.

Partner

Fenwick & West

Sergio Garcia is a partner in the Corporate Group and Intellectual Property Group of Fenwick & West LLP, a law firm specializing in technology and life sciences matters. Mr. Garcia's practice focuses on counseling companies at various stages of development – from early start-up through venture funding and entry into the public marketplace. He has advised clients in a variety of industries, including biotechnology, medical device, financial services, retail, internet and computer software. Mr. Garcia advises private and public companies on a wide range of business and legal issues, with an emphasis on structuring and negotiating complex technology transactions, including international and domestic strategic alliances, joint ventures, licensing arrangements and other transactions involving intellectual property. He also frequently advises investors with respect to intellectual property matters arising in M&A transactions, venture financings and public equity financings, including initial public offerings and follow-on stock offerings. Mr. Garcia's practice also includes corporate and securities matters, including advice concerning corporate governance, public disclosure issues and SEC reporting and compliance. Mr. Garcia is a director of the BayBio Institute, and a member of the Steering Committee of the BayBio Life Sciences Counsel Committee. He received his J.D. degree from the University of California, Berkeley (Boalt Hall School of Law), and his undergraduate degree from Stanford University. Mr. Garcia is a member of the American Intellectual Property Association, the American Bar Association and the Licensing Executives Society. He is a former director of the Bar Association of San Francisco, and a former member of the General Counsel Committee of BIO and the Silicon Valley Association of General Counsel. He received his education at the University of California, Berkeley, School of Law (Boalt Hall), J.D., 1986 and his B.A. from Stanford University, 1983. He is also a member of the State Bar of California.

DAVE GHOSH, Ph.D.

Director of Science & Technology
NRC- Institute for Fuel Cell Innovation

Dave Ghosh joined the National Research Council in September of 2002 as the Director of Science and Technology. He leads a team of over 85 researchers and engineers working in Proton Exchange Membrane (PEM) fuel cells, Solid Oxide fuel cells(SOFC) and Hydrogen technologies. Before joining the NRC IFCI, Dave Ghosh was Vice President and Chief Technology Officer (CTO) for Calgary-based Global Thermoelectric Inc.(presently Versa Power Systems) where he helped turn the company into one of the world's leading developer of Solid Oxide Fuel Cell Systems. He was previously the Head of the Manufacturing Technologies Department at the Alberta Research Council where he led a team to develop and commercialize materials technologies for industry. Dave has held industrial R&D positions in Japan, Brazil and Canada. Dave has a Ph.D. in Materials Science and Engineering from McMaster University, Hamilton, Canada and a B.Tech in Metallurgical Engineering from Indian Institute of Technology (IIT-B), Bombay. He has published over 60 technical papers and has co-authored over 11 patents granted or pending.

G. WESLEY (WES) HATFIELD, Ph.D.

Professor, Chemical Engineering and Materials Science

Institute for Genomics and Bioinformatics

University of California, Irvine

G. Wesley (Wes) Hatfield, Ph.D., is a Professor of Microbiology and Molecular Genetics in the School of Medicine and Co-Director of the Institute for Genomics and Bioinformatics at the University of California, Irvine. Dr Hatfield holds a Ph.D. degree from Purdue University, and a B.A. degree from the University of California at Santa Barbara. His primary areas of scientific expertise include molecular biology, biochemistry, microbial physiology, functional genomics, and bioinformatics. His recent interests include the development of computationally optimized DNA assembly (CODA) technologies for the manufacture of synthetic genes for pharmaceutical and industrial protein applications, and for the metabolic engineering of metabolic pathways in microorganisms. He has received national recognition for his scientific contributions including the Eli Lilly Research Award bestowed by the American Society of Microbiology. Dr Hatfield has over twenty years of experience in the development of biotechnology companies both as a founder and as a private consultant. He has served on the Scientific Advisory Boards of several California biotechnology companies and as a consultant to venture capital firms. He is a co-founder and currently serves on the Scientific Advisory Board of California's first synthetic biology company, CODA Genomics, Inc., Laguna Hills, CA, On the academic side, he serves as a consultant to private and government science funding agencies and on the editorial boards of scientific journals. He has been instrumental in forging collaborations between the University of California and the California biotechnology industry. For example, Dr Hatfield was a founder of the UC system-wide BioStar program, now the UC Discovery Program, which has provided in excess of \$300 million in research funds to UC researchers to stimulate collaborative University/Industry research programs.

BARRY KLEIN, Ph.D.

Vice Chancellor for Research
University of California, Davis

Vice Chancellor for Research and professor of physics at the University of California, Davis, received his B.S. degree in Engineering Physics in 1962 and M.S. and Ph.D. degrees in Physics in 1965 and 1969, respectively, all at New York University. Vice Chancellor Klein served at the Naval Research Laboratory (NRL) in Washington, D.C. in research and scientific leadership positions in condensed matter physics and complex systems theory from 1969-1992. He also served in a scientific leadership capacity at the National Science Foundation from 1984-1985 while on leave from NRL. He has given invited presentations at premier conferences, universities and research laboratories worldwide, and he has served on many important scientific advisory panels and boards. Vice Chancellor Klein joined the UC Davis faculty in 1992 and served as Chair of the Department of Physics from 1992 – 1998 and as Vice Provost for academic personnel from 1998-2001. He was appointed Vice Chancellor for research in July 2001, with his primary area of responsibility being advancing the research and outreach missions of UC Davis.

JAMES C. LIAO, Ph.D.

Chancellor's Professor, Dept. of Chemical and Biomolecular Engineering
University of California, Los Angeles

Chancellor's professor, Chemical and Biomolecular Engineering, UCLA, received his BS degree in Chemical Engineering from National Taiwan University and PhD from University of Wisconsin-Madison. After working as a research scientist at the Life Science Research Laboratory of Eastman Kodak Company, Rochester, NY, he started his academic career at Texas A&M University in 1990 as Assistant Professor and then Associate Professor. He moved to UCLA in 1997 as Full Professor of Chemical and Biomolecular Engineering Department. Dr. Liao is a pioneer in the field of Metabolic Engineering, Synthetic Biology, and Systems Biology. He received numerous awards, including the NSF Young Investigator Award in 1992, and was elected Fellow of American Institute for Medical and Biological Engineering, 2002. He was honored with the 2006 W. N. Lacey Lectureship in California Institute of Technology, the Merck Award in Metabolic Engineering (2006), and the 2006 Food, Pharmaceutical, and Bioengineering Division award of AIChE. In addition, he was the 2007 Trotter Distinguished Lecturer at College of Engineering of the University of Tennessee, Knoxville.

ANASTASIOS MELIS, Ph.D.

Professor, Dept. of Plant and Microbial Biology
University of California, Berkeley

Professor Anastasios Melis earned his B.S. at the University of Athens, and his Ph.D. at Florida State University. Professor Melis is a biologist at the University of Berkeley, in California, who is researching the possibility of creating hydrogen from algae. Hydrogen power is considered one of the key ways of producing electricity without continuing to use up fossil fuels. The added bonus of using algae in this way is that they could consume Carbon Dioxide (CO₂) in the atmosphere. He is currently Professor of Plant and Microbial Biology at the University of California, Berkeley and Faculty Biologist at Lawrence Berkeley National Laboratory. He has received the Hydrogen Program R& D Award from the Department of Energy in 2004, the University Research Award from DaimlerChrysler Corporation in 2003 and the CNR Teaching Award at College of Natural Resources in 1994.

ZUHAIR A. MUNIR, Ph.D.

Distinguished Professor
Department of Chemical Engineering and Material Science
University of California, Davis

Professor Munir received his BS in Chemical Engineering and his MS and PhD in Materials Science, all from the University of California, Berkeley. In his thirty-plus years at UC Davis, he has taught courses and carried out research in the general area of thermodynamics and kinetics of rate processes. His emphasis has been on the role of electromagnetic fields in the synthesis and processing of materials. The most recent activity in this area relates to the processing of nanostructured functional oxides for utilization in fuel cell and other hydrogen-related technologies. Professor Munir has received numerous awards and honors, including a *Gold Medal* from the Russian Academy of Sciences, for contribution to the science of self-propagating high-temperature synthesis (SHS), 2007; *UC Davis Prize*, 2007 (in recognition of extraordinary scholarship and outstanding undergraduate teaching; *Nano 50 Award*, 2007 (to recognize the top 50 technologies and innovations that have significantly impacted – or are expected to impact – the state of the art in nanotechnology); *Faculty Research Lecturer Award*, Academic Senate, UC Davis, 2006 (the highest honor by the Academic Senate for distinction in scholarly research); *the John Jeppson Medal for Distinguished Scientific Achievements*, by the American Ceramic Society, 2005; *Outstanding Senior Faculty Research Award*, College of Engineering, UC Davis, 2005; *Outstanding Educator Award*, by the American Ceramic Society, 2004; *Medal of Honor*, International Organization of Self-Propagating High-Temperature Synthesis, 1997; the *von Humboldt Award* for Senior US Scientists, 1990; and (twice) the *National Science Foundation Creativity in Research Award*. Professor Munir has published more than 430 technical papers and holds 12 US patents. He is listed as a Highly Cited Author in Materials Science by the Institute for Scientific Information (ISI), 2003.

JOSEPH M. NORBECK, Ph.D.

Director, Environmental Research Institute
University of California, Riverside

Joseph (Joe) Norbeck is the Yeager Families Professor of Engineering and the Director of the University of California Riverside's Environmental Research Institute (ERI) and the Edward J. Blakely Center for Sustainable Suburban Development (CSSD). ERI is a multi-disciplined research organization that integrates much of the environmental research and technology efforts within the UCR campus. CSSD was established to provide research and analysis with a policy focus on the wide range of issues the suburbs confront. Dr. Norbeck was elected as a Fellow of the American Association for the Advancement of Science in 1998. He received the Clean Air Award from the South Coast Air Quality Management District in 1995, the Valley Group Award for Excellence in Environmental Research, and the Riverside Regional Leader of the Year Award in 1998. He is a member of several national and international committees and has published over 100 papers on the topics of air quality, renewable fuels and vehicle emissions.

R. SEAN RANDOLPH, Ph.D.

President & CEO

Bay Area Council Economic Institute

Sean Randolph is President of the Bay Area Council Economic Institute, a public-private partnership of business, labor, government and higher education, that works to foster a competitive economy in California and the Bay Area, including San Francisco, Oakland and the Silicon Valley. The Economic Institute produces authoritative analyses on major economic policy issues, including infrastructure, globalization, energy, science & technology, and governance, and mobilizes California and Bay Area leaders around targeted policy initiatives. Dr. Randolph has previously served as President & CEO of the Bay Area Economic Forum, which merged with the Bay Area Council in January 2008, and as director of international trade for the State of California, where he developed trade strategy and directed international business programs to stimulate exports and introduce California companies to overseas markets. Before service with the state, he was Managing Director of the RSR Pacific Group, an international business consulting firm specializing in Asia and Latin America, and prior to that served as International Director General of the Pacific Basin Economic Council, a 15-nation international organization of leading U.S., Asian and Latin American corporations. His professional career includes extensive experience in the U.S. Government, including the U.S. Congress staff and the White House staff. From 1981-85 he served in the U.S. State Department on the Policy Planning Staff, as Special Adviser for Policy in the Bureau of East Asian and Pacific Affairs, and as Deputy/Ambassador-at Large for Pacific Basin affairs. From 1985-88 he served as Deputy Assistant Secretary of Energy for International Affairs, where he managed nuclear non-proliferation, energy research, and global oil and gas issues. Dr. Randolph holds a J.D. from the Georgetown University Law Center, a Ph.D. from the Fletcher School of Law and Diplomacy (Tufts and Harvard Universities), and a B.S.F.S. from Georgetown's School of Foreign Service, and he also studied at the London School of Economics. He serves as chairman of the San Francisco Bay Conservation and Development Commission (BCDC), a California state commission that regulates development in and near San Francisco Bay and works to ensure its environmental integrity and maximum public access. He is also a member of the District of Columbia Bar Association, the Council on Foreign Relations, and the Pacific Council on International Policy, and he serves on the Boards of Directors of the Bay Area World Trade Center and the University of San Francisco Center for the Pacific Rim, and on the President's Advisory Council of Excelsior College (New York). Dr. Randolph speaks frequently before business and government audiences, and writes for U.S. and international media on global, national, state and regional economic and policy issues.

MARTIN REANEY, Ph.D.

Professor, College of Agriculture and Bioresources
University of Saskatchewan, Saskatchewan, Canada

Dr. Reaney holds a research Chair (the SAF Chair of Lipid Quality and Utilization) at the University of Saskatchewan. The SAF chair is mandated to develop new technology for oilseed processing and producing commercial bioproducts with enhanced value. The ensuing commercial activity resulting from this research is intended to generate wealth for the Canadian agriculture sector. Dr. Reaney works with industry and has worked with Agriculture and Agri-Food Canada (1990-2004). He has filed 16 patents of which many are in use by Canadian and US industry. Dr. Reaney's processes are used by industry in commercial production of biodiesel, conjugated linoleic acid, ionic fluid catalysts, feed ingredients, photoprotective compounds, dust control agents, fertilizer solutions, lubricants and fatty acids. He received his B.Sc. (Hon.) University of British Columbia in Biochemistry – 1980, his M.Sc. from the University of Saskatchewan in Biochemistry and Plant Physiology – 1985 and his Ph.D. from the University of Saskatchewan in Biochemistry and Plant Physiology – 1989. He currently holds the SAF chair of Lipid Quality and Utilization in the Department of applied microbiology and Food Science at the University of Saskatchewan from December of 2004 to present. Director of Research with Feed Energy Inc., in Des Moines, Iowa from 2000-2002. Research Scientist with Agriculture and Agri-Food in Canada from August 1990 – 2005.

WILLIAM M. REICHERT, MBA

Managing Director
Garage Technology Ventures

Bill Reichert is Managing Director of Garage Technology Ventures, a leading seed-stage and early-stage venture capital fund. Garage makes small investments – generally \$500,000 to \$1 million – in promising early stage companies and works intensively with them to help them to the next step. Bill has been on the board of CaseStack, WhiteHat Security, Miasole, cFares, ThermoCeramix, Step Communications, and ClearFuels in conjunction with Garage's investments in those companies. The Firm is located in Palo Alto, California. Bill has spent most of his career as an entrepreneur and operating executive. Prior to joining Garage in 1998, Bill was a co-founder and senior executive at several early-stage, venture-backed technology companies, including Trademark Software, The Learning Company, Infa Technologies, and Academic Systems. Earlier in his career, Bill worked at McKinsey & Co. in Los Angeles, the World Bank in Washington, DC, and Brown Brothers Harriman & Co. in New York. Bill earned his BA from Harvard University and his MBA from Stanford University.

JOHN (JACK) N. SADDLER, BSc/Ph.D.

Dean and Professor
Faculty of Forestry
University of British Columbia, Canada

Jack Saddler earned a BSc/Ph.D. in Microbiology/Biochemistry from the University of Edinburgh/Glasgow in 1975/78. In 1978 he joined the National Research Council of Canada as a Research Associate, initiating their biomass-to-ethanol program. He joined the newly privatised Canadian Forest Products lab, (now the Forintek division of FPInnovations), in 1982 where he became the manager of the Biotechnology and Chemistry group. In 1981 he was appointed Adjunct Professor in the Department of Biology at the University of Ottawa. In 1989 he was invited to go on Executive Interchange with the Federal Government, assigned to the Science Directorate of the Canadian Forest Service where he had responsibility for Biotechnology and Industry partnerships. In 1990 was awarded the Endowed Chair of Forest Products Biotechnology (An NSERC-Industry Chair) at the University of British Columbia. He served as the Head of the Department of Wood Science (1998-2000) and since 2000, has served as the Dean of the Faculty of Forestry. He currently serves as Task Leader for the International Energy Agency's (IEA) network on Liquid Biofuels, and has served as a reviewer for many national (EU, US, Asia) programs on biotechnology/bioenergy. Jack has published more than 300 research papers associated primarily with biotechnology/bioenergy and has been awarded several patents and a variety of awards including the IUFRO Scientific Achievement Award, and the Charles D. Scott award from the Biotechnology for Fuels and Chemicals Symposium. In 2007, he was elected as a Fellow of the Royal Society of Canada.

BLAKE SIMMONS

Vice-president for Deconstruction
Joint BioEnergy Institute (JBEL)

Dr. Simmons was born and raised in Blair, Nebraska. After high school, he joined the U.S. Navy where he served as a Nuclear Propulsion Operator for 6 years. After leaving the Navy, he attended the University of Washington and received his B.S. in Chemical Engineering in 1997. He attended Tulane University for his graduate studies and received his Ph.D. in Chemical Engineering in 2001. He then joined Sandia National Laboratories, Livermore, California, as a Senior Member of the Technical Staff in September of 2001. He was promoted to Principal Member of the Technical Staff in 2005, and since 2006 has been the Manager of the Energy Systems Department at Sandia. He is also part of the DOE funded Joint BioEnergy Institute, where he is the Vice-President for Deconstruction. His research interests include enzyme engineering, biomass conversion, biofuel cells, nanoporous materials, microfluidics, nanofluidics, desalination, and biomineralization. He has published over 40 peer-reviewed publications, several book chapters, and holds 5 patents. Outside of his work at Sandia, he has served as a member of the Industrial Advisory Board for two NSF Centers (Keenan Center located at the University of North Carolina and the Center for Nanoscale Chemical-Electrical-Mechanical Manufacturing Systems [Nano-CEMMS] located at the University of Illinois), has organized several conference sessions on nanofabrication and materials science, and has been a proposal review board member for the NSF CAREER Panel and the NIST Center for Neutron Research since 2004.

CHRISTOPHER SOMERVILLE, Ph.D.

Director

Energy Bioscience Institute

Chris Somerville is the Director of the new energy Biosciences Institute that was formed as a collaboration between the University of California Berkeley, Lawrence Berkeley national laboratory and the University of Illinois at Urbana-Champaign. He is a professor in the Department of Plant and Microbial Biology at UC Berkeley. He has published more than 200 scientific papers and patents in plant and microbial genetics, genomics, biochemistry, and biotechnology. His current research is focused on the characterization of proteins, such as cellulose synthase, implicated in plant cell wall synthesis and modification. He is involved in various public and private research activities associated with the development of a biofuels industry in the US. He has been a member of scientific advisory boards of numerous academic institutions and private foundations in Europe and North America. He is a member of the US National Academy of Sciences, the Royal Society of London and the Royal Society of Canada and is the recipient of numerous scientific awards. He co-founded three biotechnology companies and was chairman of the board of Mendel Biotechnology from 1997-2007.

ADRIAN TSANG

Professor, Department of Biology
University of Concordia

Adrian Tsang — The global gene -

Genomics, which deals with global questions about the entire organism, is a relatively new field, related to genetics, the study of inheritance and mutations one gene at a time. Concordia's new Centre for Structural and Functional Genomics, headed by Biology Professor Adrian Tsang, will offer Montreal scientists the facilities to identify the role of each gene and where it resides in sequence on DNA, put the information together and make sense of it. The centre, which was started up by a \$1.1 million seed grant by BioChem Pharma and its head, Francesco Bellini, is expected to be part of Genome Quebec, a proposed network that includes all universities and major research institutes in Quebec. There are four similar networks being planned for the rest of Canada.

JEAN VANDERGHEYNST, Ph.D.

Associate Professor and Graduate Advisor
Department of Biological and Agricultural Engineering
University of California, Davis

Jean VanderGheynst is Associate Professor of Biological and Agricultural Engineering and serves as the Graduate Advisor for the Biological Systems Engineering Graduate Program at UC Davis. Her research focuses on biological control of plant pathogens and insects, and value-added processing of agricultural products. Specific research areas include insect and plant pathogen control systems, managing microbial communities in biological systems, and production of recombinant proteins in plants. She currently serves as principle investigator and co-principle investigator on several industry and federally funded projects related to agricultural biotechnology and bioenergy production. Professor VanderGheynst teaches courses in engineering and industrial biotechnology. Her courses utilize the fundamentals of engineering and biotechnology for the design and elucidation of biological systems such as those involved with environmental, food and agricultural processes. In 2005 she received the Young Educator Award from the Society of Agricultural and Biological Engineers for outstanding teaching. Prior to obtaining her Ph.D. degree in Agricultural and Biological Engineering from Cornell University in 1997, Professor VanderGheynst worked as an environmental consultant at Galson, Inc. in Syracuse, N.Y. and in process and manufacturing engineering at Dow Corning Corporation in Midland, M.I. She has a B.S. degree in Chemical Engineering from Syracuse University.

CHRISTOPHER O. VARGAS

Managing Director
Cleantech Circle, LLC
The Angels Forum

Christopher Vargas has been an internet entrepreneur since the late 1980s. He started his career building a secure Internet for the US Government from 1988-1991. From 1991-1999 he was a senior executive at Cisco Systems, in sales and marketing roles. Following that, he was President of F-Secure Ltd, a Helsinki-based internet security company, and CEO of Proficient Networks, a San Francisco-based networking infrastructure company. In 2003 he founded Generations Investments LLC, a private investment company. He is currently a member of The Angels Forum, an early stage venture capital group in Palo Alto, California. In 2007, he founded the Cleantech Circle LLC, an early stage Cleantech investment Partnership. Christopher was a Fulbright scholar to Finland from 1987-88 and received a M.S. Electrical Engineering ('87) and B.S. Computer Engineering ('85) from the University of Notre Dame, Notre Dame, Indiana. He lives in Los Altos Hills, California with his wife Marita and three children.

CHRISTOPHER A. VOIGT, Ph.D.

Assistant Professor, Dept. Of Pharmaceutical Chemistry
University of California, San Francisco

Assistant Professor Voigt received his BSE, Chemical Engineering, *summa cum laude* at the University of Michigan, Ann Arbor, his PhD. in Biochemistry and Molecular Biophysics at the California Institute of Technology. He is currently Assistant Professor of Biophysics, and Chemistry & Chemical Biology Programs in the Department of Pharmaceutical Chemistry at the University of California, San Francisco. From 2002-2003 he was Postdoctoral Researcher, Bioengineering, project: System Analysis of Genetic Circuits Controlling *B. subtilis* Sporulation under Adam Arkin at the University of California, Berkeley. Honors and Awards have included but not limited to, Packard Fellow – 2007-2012, MIT Technology Review 35 – 2006, Dean's Award for Excellence in Teaching – 2006, Sloan Research Fellowship – 2005, Sloan/DoE Postdoctoral Fellowship in Computational Molecular Biology – 2002-2004. Professional Activities have included but not limited to, 2007 – Chair, iGEM judging committee, 2007-present – Executive Committee, Synthetic Biology 4.0, 2007-present – Vice President, Joint BioEnergy Institute, 2006-07 – Council Member, Institute of Biological Engineering, and 2006-present – Member, American Chemical Society.

JOHN VOLTZ
Principal
Jane Capital Partners

John is a Principal at Jane Capital Partners. Prior to Jane Capital, John was a Director of Business Development at Globalgate, an e-commerce holding company, and the Senior Financial Analyst for the Surplus Lines Association of California, the self-regulatory body designated by the California Department of Insurance to assist in the oversight of the \$1.5 Billion California surplus lines insurance market. John has been an independent filmmaker with expertise in media technology. He holds a B.A. from Grinnell College and an M.B.A. from UCLA. He sits on the board of Zenergy Power PLC.

RICK WHITTAKER

Vice President, Investments
Sustainable Development Technology Canada

Rick Whittaker is Vice President Investments at SDTC. During his career in technology Investment, Mr. Whittaker has led initiatives in product development, and managed several Advanced technology investment programs. He has initiated several patents on these Technologies, which are in production today. Mr. Whittaker has personally launched, and helped to build and transition, four start-up companies. He has been consistently recognized as a motivational leader, holding executive positions in engineering, business development and venture investment for companies including BCE Capital, Everest Partners, Nortel Networks, APN, West Carleton Meeting Centre, and AirShare. Mr. Whittaker has a Bachelor's degree in Applied Sciences from the University of Waterloo with an option in Management Science.

ROLAND WINSTON, Ph.D.

Presidential Chair

Professor, Natural Sciences and Engineering

University of California, Merced

The fault, dear Brutus, is not in our stars but in our selves.

Some 50 years ago a group of brilliant astrophysicists figured out the nucleosynthesis of the elements in the interior of stars. Now, half a century later, with the benefit of advances in the structure of matter, we can ponder the consequences.

Roland Winston came to UC Merced as a founding professor in the schools of Engineering and Natural Science from The University of Chicago, where he chaired the Physics Department. At UC Merced he has built a group in Solar Energy with a 4-acre testing laboratory at the former Castle Air Force Base.

MARIANNE WU, Ph.D.

Partner

Mohr, Davidow Ventures

Marianne Wu is a Partner at MDV where she focuses on Cleantech investments. These typically involve significant technology or business model breakthroughs applied to large, evolving markets such as solar, biofuels, clean coal, energy efficiency and water treatment and management. She leverages decades of technology development and business experience to help entrepreneurs build meaningful, successful businesses. Prior to joining MDV, Marianne was VP Marketing at ONI Systems where she was responsible for product strategy and market development. Earlier in her career, Marianne was a consultant at McKinsey and Company where she advised major technology clients on strategic and operational issues. Marianne has conducted state-of-the-art research in materials, devices, and systems at Stanford University and started her career as a design engineer at Nortel Networks where she developed high-speed networking technologies. She is a member of the Hua Yuan Science and Technology Association (HYSTA) VC Group, Environmental Entrepreneurs, and is on the Advisory Committee of the Western Governors' Association. Marianne earned both her doctoral and master's degrees from the School of Engineering at Stanford University and her bachelor's in Applied Science at the University of British Columbia.