

## Biographical Sketches of Authors and Members of the Board of Patrons

### **AMMANN, Klaus**

Klaus is Emeritus Professor of Biodiversity at the University of Bern, Switzerland. He has worked in vegetation and glacial history, vegetation ecology, urban ecology, lichen chemistry, biomonitoring air pollution and plant taxonomy. He also served as director of the Botanical Garden at the University of Bern. He has been the leader of numerous research projects supported by the Swiss Government and the E.U. on research in ecological monitoring in Bulgaria, biomonitoring air pollution, European plant conservation, risk assessment of gene flow of transgenic crops, and communication strategies. He is a member of numerous scientific committees and organizations, such as chair of the section of biodiversity of the European Federation of Biotechnology, and the Swiss committee on biosafety. He is member of the board of directors of Africa Harvest and involved in biosafety research on sorghum in Africa. He also is active in the field of philosophy and methodology of science communication, together with his wife Dr. Biljana Papazov Ammann. Presently he is guest professor at the Delft University of Technology, Department of Biotechnology, Holland.

### **ANDERSON, Carolyn**

Ms. Anderson was a member of the founding management team of Diversa Corp. where she served as Vice President of Intellectual Property and Licensing. Ms. Anderson led the company's IP group from inception in 1994 to her departure in 2005. In 2000, the Diversa management team achieved the most successful biotechnology IPO at that time, raising over \$200 million in gross proceeds. In addition, during her tenure as the head of intellectual property, Ms. Anderson was the IP lead in business negotiations that raised \$300 million in committed funding from corporate partners. Diversa's patents were cited by *MIT Magazine* as being in the top 10 in the world both in 2003 and 2004 across all industries based on citation frequency. Before joining Diversa Corp., Ms. Anderson served in multiple roles at Stratagene Cloning Systems, a molecular biology company based in La Jolla, California, including in sales, marketing, product management, and business development.

Ms. Anderson earned her undergraduate degree at the University of California, San Diego, in Biochemistry and Cell Biology, is a registered patent agent with the

U.S. Patent Office, and has published in the area of intellectual property concerning biodiversity access. In 2003, she was a nominee in the *T Sector Magazine* and BIOCOM BioFUSION award for the "Life Sciences In-House Legal Counsel of the Year." Currently she is the President of Capia IP, which provides business-based IP advice and services to the life-sciences industry, and co-owner of BioAtla, a U.S.-based biotechnology company with operations in China, which offers protein engineering and evolution services.

### **ANDERSON, Mark**

Mark Anderson is a U.K.-qualified solicitor who specializes in intellectual property and commercial transactions. He founded Anderson & Company, the Technology Law Practice™, in 1994, after having spent seven years with Bristows, a specialist IP law firm in London. He works from offices overlooking the River Thames in the Oxfordshire countryside. Most of his clients are biotech and IT companies and universities in the U.K. and continental Europe. He is a member of the U.K. Intellectual Property Lawyers Association and a member of the IP Working Party of the Law Society of England and Wales. He has written and co-authored several books on IP-related subjects, including *Technology Transfer: Law, Practice and Precedents*, 2<sup>nd</sup> ed. (Haywards Heath: Tottel, 2003) and *Modern Law of Patents*: Butterworths, 2005).

### **BALLANTYNE, Zoë**

Zoë Ballantyne is currently responsible for the preparation and negotiation of legal agreements and IP advice for the technology transfer division of the Wellcome Trust and the Wellcome Trust Sanger Institute. Her work covers a broad spectrum of corporate, commercial, and intellectual property law, as well as intellectual property policy. Ms. Ballantyne graduated from the University of Cambridge with a degree in natural sciences, specializing in genetics. She obtained a post-graduate diploma in law and completed the Legal Practice Course at Nottingham Law School. She subsequently obtained a diploma in intellectual property law from the University of Bristol. Ms. Ballantyne qualified as a solicitor in 2001 and practiced in the IP department and the life-sciences group of the international law firm Ashurst before joining the Wellcome Trust in 2004.

**BANERJI, Jaya**

Jaya Banerji has spent over 15 years in communications. She has worked in India, the Middle East, Switzerland, and the U.K. She acquired her expertise in writing, editing, scripting, publishing, and advocacy from both the not-for-profit and commercial sectors. Ms. Banerji has been a freelance writer, editor, and reviewer for the print media and a number of publishing houses. She has worked at Kali for Women, Delhi, Asia's first feminist publishing house, McKinsey & Company India, Médecins Sans Frontières' Campaign for Access to Essential Medicines, and the Drugs for Neglected Diseases Initiative. She has recently joined the Medicines for Malaria venture. Throughout her career, Ms. Banerji has retained her strong belief in the rights of the most vulnerable and impoverished, especially women and children. She continues to do what she loves best—writing, editing, and scripting communications that she hopes will contribute in some small way to making the world a more just and equitable place.

**BARBOUR, Eric**

Eric Barbour joined Syngenta in November of 2005. He currently heads a team of licensing managers supporting biotech and seeds organizations. In this capacity, he manages a range of activities, from licensing university technologies to making deals with major competitors. Eric's background is in IP licensing and valuation. He also has a strong research background in the area of insect control and herbicide tolerance traits and gene expression. Eric has worked in both the public and private sectors, with ten years management experience in licensing and intellectual property in the agricultural seed business.

Prior to joining Syngenta, Eric was employed by Pioneer Hi-Bred International Inc. in the Intellectual Property Licensing and Management group. Before Pioneer, he worked as a research scientist at Allelix Crop Technologies, working on transgenic traits in canola and other crops.

Eric is an active member of the Licensing Executive Society, the Biotechnology Industry Organization and, until recently, an affiliate member of the Association of University Technology Managers. He graduated with a B.S.c. and M.Sc. degrees from the University of Guelph, Canada, and has an M.B.A. from Drake University.

**BATES, Tony**

Tony Bates joined the National Health Service (NHS) in England in 1992, when the NHS R&D initiative began. He was a member of the team in the Department of Health that introduced management of R&D into the NHS. Dr. Bates was the Intellectual Property Adviser to the National Health Service in England beginning in 1998. His main responsibility was to advise NHS Trusts and Primary Care Trusts on how NHS policy should be implemented in order to have the greatest benefit for the NHS and its patients. He helped develop policies and produced the Department of Health Framework and Guidance (for the management of intellectual property), which was published in 2002. He was instrumental in changing the law to allow NHS bodies to take shareholdings in spinout companies. He also created the IP management network of NHS Innovations Hubs.

He is a physicist by training and was in the Department of Physics at the University of Cardiff for about 18 years, where he was a researcher in solid-state physics. During that time, two of his inventions reached the marketplace. He moved from academia into IP management. After ten more years' experience in Cardiff University, he became Director of Planning and Marketing and was responsible for research and intellectual property.

Dr. Bates retired in 2004 but continues to work as a consultant in intellectual property.

**BEACHY, Roger**

Roger Beachy is president of the Donald Danforth Plant Science Center in St. Louis, Missouri. He previously held academic positions at Washington University, St. Louis, and the Scripps Research Institute, La Jolla, California. His research includes projects to reduce virus infection in plants via biotechnology, and in studies of the control of gene expression in plants. Beachy is a member of the U.S. National Academy of Sciences and a Fellow of the Academy of Microbiology; he has received several awards for his work, including the Wolf Prize in Agriculture. The Danforth Center has committed significant efforts to research in developing countries, including through private-public partnerships, and Beachy is involved in a variety of efforts with regard to rationalizing regulations that control commercialization of agricultural biotechnology.

Beachy is President of the International Association of Plant Biotechnology. He belongs to numerous institutional boards, including the PNAS Editorial Board, the NRC Governing Board, the Board on Agriculture and Natural Resources (National Research Council of the National Academy of Sciences), Malaysia's International Advisory Panel, and the Governing Board of Directors of the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), and the Burrill and Company Board of Advisors.

**BENNETT, Alan B.**

Alan Bennett currently serves as the Associate Vice Chancellor for Research at U.C. Davis. He is responsible for technology transfer, strengthening research-based alliances with industry, and supporting technology-based economic development in the Sacramento/Davis region. He is the founding Executive Director of the Public Intellectual Property Resource for Agriculture (PIPRA), an organization consisting of 37 universities in nine countries that is dedicated to the collective management of intellectual property and supports broad commercial innovation and humanitarian uses of technology in agriculture. From 2000 to 2004, Dr. Bennett served as the Executive Director of the University of California Systemwide Office of Technology Transfer and Research Administration, where he was responsible for IP management and research policy for the University of California system; this task involved managing a portfolio of more than 5,000 cases, 700 active licenses, and revenue in excess of US\$350 million for the four-year period. He earned B.S. and Ph.D. degrees in Plant Biology at U.C. Davis and Cornell University, respectively. He joined the U.C. Davis faculty in 1983. His research in plant molecular genetics has focused

on cell-wall disassembly and fruit development. Dr. Bennett has published over 130 research papers in leading scientific journals, holds several utility patents related to crop quality traits, and is a regular speaker at universities, international symposia, and private companies. He is a Fellow of the American Association for the Advancement of Science (AAAS) and of the California Council for Science and Technology (CCST).

#### **BICH, T. Q.**

Mr. Truong Quang Bich is Director of the Cuc Phuong National Park, Nho Quan, Ninh Binh, Vietnam. He is a forestry specialist with special expertise in forest management and biodiversity conservation. His research has focused on natural regeneration of forest following shifting cultivation, especially in some areas within Cuc Phuong National Park formerly settled by ethnic communities, before the establishment of this national park in 1962. More recently, he has been Project Director of community-based environmental education and visitor interpretation of the Cuc Phuong National Park, and, since 1998, he has served as a Co-Project Leader of an ICBG program with responsibility of implementing biotic survey and biodiversity conservation at the Cuc Phuong National Park.

#### **BINH, Le Tran**

A doctoral graduate from the University of Greifswald, Germany, Professor Le Tan Binh is a plant biotechnologist with expertise in plant tissue culture. His research for the past 25 years has focused on the use of molecular biology techniques for the improvement of crop plants, especially rice, and for improved utilization of Vietnam's biological resources. He has served as Principal Investigator of numerous projects, and since 1999 he has served as the Secretary General of the Vietnamese Association of Biotechnologists. He has also been the focal person in the Subcommittee for Biotechnology for the Vietnamese Biotechnology Committee of Science and Technology. He is the Director of Institute of Biotechnology, Vietnamese Academy of Science and Technology, Hanoi.

#### **BJÖRK, Lars**

Lars Björk studied biotechnology and chemistry at the Royal Institute of Technology in Stockholm, where he received a M.Sc. in 1965 for research on the production of secondary metabolites and a Licentiate degree in 1970 for research on secondary metabolite accumulation in plant tissue cultures. From 1984 to 1986, he was director of a Nordic project for introduction of this art in Sweden, Norway, Denmark, and Finland. During this time, he became an advisor to pharmaceutical and food companies, advising them on the usage of raw materials and the development of new products. He became Associate Professor of Pharmacognosy at Uppsala University in 1986. He received a Ph.D. in Pharmaceutical Sciences in 1990 with a thesis on techniques to improve secondary metabolism in plant tissues. He was responsible for the creation of a new unit within the Swedish University of Agriculture, the Phytochemical Centre, Balsgård. From 1991 to 2001, he was the research director of the Centre and investigated the selection of plant species and the domestication of wild species. From 1995 to 2005, he was

a member of the board of the European Federation of Medicinal Plant Producers and contributed to the creation of new rules for Good Agricultural Practices for the production of raw materials to be used in the manufacture of pharmaceuticals; these rules were later adopted by the European Drug Administration (EMA). In 2001, he became Senior Research Officer at Lund University, directing projects that determine the biological activity of natural products, a post he still holds. His institute is involved in bioprospecting in Bolivia, Morocco, Egypt, India, and other countries. He instituted Ethnobotany as an academic subject at Uppsala University in the spring of 2005. His current research concentrates on Laos but also includes other countries in Southeast Asia, as well as Morocco. He works on bioprospecting projects with Ph.D. students at both Lund and Uppsala. As a member of the Swedish Scientific Council for Biological Diversity (an advisory committee to the Swedish government on questions concerning the Convention on Biological Diversity), he has been especially involved in questions concerning access and benefit sharing.

#### **BLAKENEY, Michael**

Michael Blakeney is Herchel Smith Professor of Intellectual Property Law at Queen Mary, University of London and Director of the Queen Mary Intellectual Property Research Institute. He has held academic positions at a number of universities in Australia and the U.K. and worked in the Asia Pacific Bureau of the World Intellectual Property Organization. He is an arbitrator for the International Court of Arbitration. Professor Blakeney has acted as an intellectual property management advisor for the Asian Development Bank, the Consulting Group for International Agricultural Research, the European Commission (EC), the European Patent Office, the Food and Agricultural Organization, the World Intellectual Property Organization, and a number of universities and public research institutes.

He has directed E.C. projects to create intellectual property infrastructures in a number of new E.U. Member States and E.U. Applicant States. He has written and edited a number of books in the fields of intellectual property, media, and competition law. His most recent publications are: *Trade Related Aspects of Intellectual Property Rights. A Concise Guide to the TRIPS Agreement* (London: Sweet & Maxwell, 1996); *Intellectual Property Aspects of Ethnobiology* (Editor) (London: Sweet & Maxwell, 1999); *Border Control of Intellectual Property Rights* (Editor) (London: Sweet & Maxwell, 2001); *IP in Biodiversity and Agriculture: Regulating the Biosphere* (Editor with P. Drahos) (London: Sweet & Maxwell, 2001); *Enforcement Handbook* (Brussels: EC, 2003), and *International Encyclopaedia of Intellectual Property Treaties* (with A. Ilardi) (Oxford: Oxford University Press, 2004).

#### **BLAYA ALGARRA, Alicia**

Alicia Blaya earned the title Magister Lvcintivns in Intellectual Property and Information Society Law from Universidad de Alicante, Spain. She earned an LL.M. in International Commercial Law, University of Westminster, London, U.K., in 2000 and a law degree from the Universidad de Alicante in 1996.

Since 1997, Blaya has been a registered member of the Professional Association of Lawyers of Alicante (Spain), where she was born. During her early years of working for a law firm, she provided legal assistance and trial work on civil, administrative and commercial cases.

She became Legal Advisor of the IPR-Helpdesk Project in 2002 and Senior Legal Advisor in 2003. Since 2005 she has served as Coordinator of the legal team and has been responsible for the research and technological development content and training actions of the project. She has worked inside the IP field, especially in the area of the IP-related aspects relevant for E.U.-funded research projects. She has contributed to several publications in various fields of IP and has taught courses on innovation in Spain, both to postgraduate students and Latin American professionals. Blaya has given many seminars in a wide range of IP-related issues relevant for research projects as well as in IP law and innovation, both in European countries and other countries, such as Cuba, Ukraine, Russia, and Egypt.

#### **BOADI, Richard Y.**

Richard Boadi is a national of Ghana and a member of the bars of the State of New York and the Republic of Ghana. He is currently legal counsel to the African Agricultural Technology Foundation (AATF). In this capacity, he advises the Board, management, and staff about current technology transfer policy and legal developments at national, regional, and international levels; he drafts, reviews, and negotiates agreements to which AATF is a party; he creates and fosters networks with licensees; and he handles other in-house legal needs of AATF. Before joining AATF, Mr. Boadi worked in the following capacities: as a senior attorney with the New York State Office for Technology; a contracts and commercial lawyer with the New York City Human Resources Administration; a Teaching Assistant for the Faculty of Law at the University of Ghana; a Junior Barrister with Reindorf Chambers in Accra, Ghana; and an Assistant Legal Officer with the Ghana Copyright Office. He is a graduate of Cornell University (LL.M.), the Ghana School of Law (B.L.), and the University of Ghana (LL.B.).

#### **BOBROWICZ, Donna**

Donna Bobrowicz has a B.S. in Medical Laboratory Sciences, an M.B.A., and a J.D. She is a U.S. patent attorney with over 20 years of experience, specializing in chemical and biochemical technologies in both human health and agriculture. She has been the in-house counsel in licensing matters for the technology acquisition group of the seed producer Pioneer Hi-Bred Inc. She has also been counsel for licensing and patents at the human diagnostics divisions at Abbott Laboratories and Akzo Pharma and for the cellulose and plastic casings manufacturer Viskase Companies, Inc. She has been affiliated with SWIFTT, the Strategic World Initiative for Technology Transfer at Cornell University, and has been part of an IP audit team at agricultural institutes in Kenya and Colombia. Currently, she is setting up technology transfer processes at the Stritch School of Medicine, Loyola University Chicago. She has her own IP practice in the metropolitan Chicago area.

#### **BOETTIGER, Sara**

Sara Boettiger is an agricultural economist with a background in intellectual property (IP) law. She works as Director of Strategic Planning and Development at The Public Intellectual Property Resource for Agriculture (PIPRA) and is a consultant for the Bill & Melinda Gates Foundation. She publishes in the field of IP law and policy and is a member of the Board of Directors for the Institute of Forest Biotechnology. Her professional interests are the design and implementation of practical services that support innovation and improve livelihoods in developing countries. Her research interests are the legal and economic ramifications of IP rights and developing countries, collaborative innovation systems, open source in copyright and patents, university technology transfer systems, and the strategic use of patents in developed countries.

Dr. Boettiger holds a B.A. from the University of Arizona, an M.S. from the University of California, Berkeley, and a Ph.D. in Agricultural and Resource Economics from the University of California, Berkeley.

#### **BOKANGA, Mpoko**

Mpoko Bokanga is a food scientist with a Master's degree from the Massachusetts Institute of Technology and a doctorate from Cornell University. He has been involved in agricultural research and development in Africa for the past 17 years. Before becoming the first Executive Director of AATF, Dr. Bokanga worked as an Industrial Development Officer of Agro-industries with the United Nations Industrial Development Organization (UNIDO) in Abuja, Nigeria. From 1989 to 2002, he was a Research Scientist with the International Institute of Tropical Agriculture (IITA). He has also been a Visiting Professor of Food Science at Alabama A & M University and a Research Associate for Westreco Inc., a Nestlé Research Company. At Westreco, Dr. Bokanga developed processes based on immobilized microbial and enzyme systems; and at IITA, he developed technologies for processing cassava and yams into new products that were subsequently introduced into more than a dozen African countries. He has co-authored or edited three books and published several papers on the biochemistry and health implications of cyanogenesis in cassava and on the processing of root and tuber crops. He is the coordinator of the Working Group on Cassava Safety (WOCAS), a subcommittee of the International Society for Tropical Root Crops (ISTRC), whose main function is to monitor the progress of and encourage research on cyanogenesis in cassava and its implications for food safety. Dr. Bokanga is the current chair of ISTRC-AB, the African branch of the ISTRC, and holds a visiting professorship at the University of Greenwich in England (2005-2008).

#### **BORLAUG, Norman E.**

In 1970, Norman Borlaug won the Nobel Peace Prize for his lifelong work to feed a hungry world. His work, more than that of any other person, is credited with saving lives.

In 1944, Dr. Borlaug joined the Rockefeller Foundation's pioneering technical-assistance program in Mexico, at which he was a research scientist in charge

of wheat improvement. For the next two decades, he worked to solve a series of wheat production problems in Mexico and to train a generation of young scientists.

With the establishment of the International Maize and Wheat Improvement Center (CIMMYT) in Mexico in 1966, Borlaug assumed leadership of the wheat program; he continues to serve as a consultant for it. The high-yielding, disease-resistant wheat cultivars he developed, along with improved management practices, transformed agricultural production in Mexico during the 1950s and in Asia and Latin America in the 1960s and 1970s. This transformation has come to be known as the Green Revolution.

In 1984, Dr. Borlaug joined Texas A&M University and was named Distinguished Professor of International Agriculture. Since 1986, he has also served as president of the Sasakawa Africa Association and leader of the Sasakawa-Global 2000 agricultural program in Sub-Saharan Africa, in partnership with former U.S. President Jimmy Carter and Yohei Sasakawa.

Borlaug has been awarded 58 honorary doctorate degrees, and is a member or fellow of the academies of science in 12 nations. The U.S. National Academies of Science awarded him the National Service Medal in 2002 and in 2004 President Bush bestowed upon Borlaug the U.S. National Medal of Science. He was the driving force behind the establishment of the World Food Prize in 1985 and serves as Chairman of its Council of Advisors.

#### **BREMER, Howard**

Howard Bremer holds degrees in Chemical Engineering and Law from the University of Wisconsin-Madison. He has been admitted to membership in the bars of the U.S. Supreme Court, the Court of Appeals for the Federal Circuit, the District Court for the Southern District of Ohio, and the State of Wisconsin, and has practiced before the Patent and Trademark Office. He has twice been Chairman of the Patent Law Section of the State Bar of Wisconsin, President and Trustee of the Association of University Technology Managers (AUTM), and President of the Wisconsin Intellectual Property Law Association. He has been active in the American Bar Association Section on Intellectual Property Law and the American Intellectual Property Law Association. He recently was awarded the Jefferson Medal by the New Jersey Intellectual Property Law Association. He has engaged in legislative activities involving questions of intellectual property, and served on the National Advisory Commission on Patent Law Reform. He was employed by the Procter and Gamble Company for 12 years and was Patent Counsel for the Wisconsin Alumni Research Foundation for 28 years.

#### **BREWSTER, Amanda L.**

Amanda Brewster serves as a Policy Officer for the Wellcome Trust in London. Previously, she worked as a Program Associate of the Science and Intellectual Property in the Public Interest project of the American Association for the Advancement of Science (AAAS) in Washington, D.C. She has also worked on science policy for the National Council for Science and the Environment. Although she has conducted field research on the vector ecology of Lyme disease and on insect pollination, in recent years she has used her training as a

biologist to study the intersections of scientific research, innovation, human health, and the environment. She holds a master's degree in international health policy from the London School of Economics and Political Science and a bachelor's degree in molecular, cellular, and developmental biology from Yale University.

#### **BROOKE, Steve**

Steve Brooke, an advisor for commercialization and corporate partnerships in PATH's Technology Solutions Strategic Program, plays a lead role in public-private product development collaboration, product commercialization strategy, and intellectual property management. Mr. Brooke conceptualizes, develops, negotiates, and implements complex collaborations and strategies, and negotiates co-development, licensing issues, and agreements. He also provides guidance and advice to staff working in these areas and manages projects that have a high degree of commercialization and/or private partner focus. Prior to receiving a master of business administration degree in marketing and finance from Northwestern University, he served as marketing manager for a medical products company. Mr. Brooke has lived in both Europe and Asia.

#### **BROWN, Alfred (Buz)**

Alfred Brown has served as the President of BCM Technologies (BCMT) since 2003. He is its chief visionary and was responsible for transforming BCM Technologies into BCM Ventures. He has over 30 years of experience in biotechnology commercialization and venture creation, including large pharmaceutical, biotech, academic and venture capital roles, with particular expertise in the areas of cancer, immunology, regenerative medicine, molecular diagnostics, and predictive medicine. Before joining BCMT, Dr. Brown was Director of the Office of Cooperative Research at the Yale School of Medicine, where he co-developed the "Yale Model" of academic venture creation with Drs. Gardiner, Soderstrom, and Swartley. The Yale Model is now recognized as one of the leading academic technology commercialization and venture creation programs. Dr. Brown has helped to create many companies, including Achillion Pharmaceuticals (in registration), Applied Spine Technologies, HistoRx, Kemia, RibX Pharmaceuticals, and VaxInnate. Before working at Yale, Dr. Brown served as founder and CEO of Penn Technology Group, Knowledge Express Data System and Ontyx, Inc. (now Apelon, Inc.). He started his professional career at SmithKline & French Labs in immunology and cancer drug research and later assumed responsibility for strategic planning and biotechnology business development. Dr. Brown has a B.A. in biology from Colby College, a Ph.D. in pharmacology and toxicology from the University of Rochester School of Medicine; in addition, he has completed a post-doctoral fellowship in the Pharmacology Department at the Yale School of Medicine. He serves on the boards of Oncovance Technologies, Molecular Logix, Kardia Therapeutics, Progression Therapeutics, and EnVivo Pharmaceuticals (observer). Dr. Brown will serve as the managing director of BCMV and focus his efforts on investments in the areas of therapeutics, diagnostics, and devices.

**BUBELA, Tania**

Tania Bubela (B.Sc. Ph.D. LL.B.) is an Assistant Professor in the Department of Marketing, Business Economics and Law in the School of Business at the University of Alberta. She is also a Research Associate at the Health Law Institute at the University of Alberta and a Member of the Centre for Intellectual Property Policy in the Faculty of Law at McGill University. Her doctoral research was in the biological sciences; she taught biology and genetics as a faculty member at the University of Toronto at Mississauga. After gaining a law degree in 2003, Dr. Bubela clerked for The Honourable Louise Arbour at the Supreme Court of Canada. Dr. Bubela's research focuses on intellectual property systems in biotechnology, as well as questions of health law, ethics, and policy as they relate to emerging technologies such as functional genomics and stem cell research.

**BURDON, Jeremy**

Dr. Burdon is currently Director of IP Assets at Arizona Technology Enterprises, LLC (AzTE) in Tempe, Arizona, with responsibility for the Health Sciences portfolio. Prior to moving to AzTE, Dr. Burdon was with Medtronic, Inc. There he was responsible for managing the Intellectual Property portfolio and patent liaison activities for implantable medical device technologies, in both research and advanced development environments.

Dr. Burdon spent more than nine years at Motorola, Inc., initially with its Component Products Division in New Mexico, researching polymer thin-film technologies and oxide semiconductor thin-films for RF/Microwave applications, where he moved several technologies into the advanced development stage. Dr. Burdon then worked at Motorola Corporate Research in Tempe, Arizona, developing material technologies for micro-devices, and on advanced development of micro fluidic devices for analytical and on-chip bio-analysis.

Dr. Burdon holds a B.Sc. in chemistry and a Ph.D. in Polymer Science from the University Of Sussex, U.K., where his research focused on oxidative degradation of organic/polymer materials and the polymerization behavior of bisphenol-A epoxy systems for graphite-based composites using chemiluminescence and ion-recom luminescence techniques. Dr. Burdon holds 14 issued patents in the areas of materials, micro-devices, micro-fluidic systems and implantable medical devices.

**CAHOON, Richard S.**

Richard Cahoon received his undergraduate degrees in biology and political science from the University of Utah. His Master's degree is from Montana State University in the field of bioprocess engineering. He founded and was president of a biotechnology device company and was later a managing partner of a bioprocess engineering consulting firm.

In 1990, Dr. Cahoon joined the Cornell Center for Technology, Enterprise & Commercialization as Assistant Director for Technology Marketing. Previously, he was Associate Director of the Center for Biofilm Engineering, an NSF Engineering Research Center at Montana State University. In 1992, he was appointed Cornell's Associate Director for Patents and Technology Marketing; a year later, he was promoted to Vice President of the Cornell Research Foundation

(CRF), Cornell's intellectual property subsidiary. In January 2003, Richard became Senior Vice President of CRF; he has been serving as Acting Executive Director of the Cornell Center for Technology, Enterprise, and Commercialization since 2002.

Dr. Cahoon has more than 25 years of experience in various aspects of technology commercialization, including R&D management, inventing, project engineering, product development, marketing and sales, process engineering, entrepreneurship, collaboration management, intellectual property, and licensing. He also holds a patent for a bioprocess system. His Ph.D. is from Cornell in Natural Resource Policy with a dissertation that focused on the relationship between intellectual property and biological resource conservation law and policy.

**CAMPBELL, Alison F.**

Alison Campbell is Director of KCL Enterprises Ltd., the commercialization and research support company of King's College, London. KCLE manages all aspects of the College's external partnering activities, from business development to IP management, licensing, start-up company formation, and the administration and negotiation of research grants and contracts. KCLE also supports training in enterprise within the College. Dr. Campbell has worked in technology transfer and business development for 15 years. Before joining KCLE, she was Acting CEO of MRC Technology. She has experience in the biotechnology industry and worked for a number of years at Celltech Ltd. A biochemist, Dr. Campbell is a graduate of University College London and earned a Ph.D. in chemical biology from Imperial College. She currently serves as a nonexecutive director on the boards of a number of spinout companies and two London enterprise initiatives (Simfonex and the London Technology Network). She is a nonexecutive director of the university seed fund, Kinetique. She is a member of the UNICO committee (the U.K. university commercialization organization), and is Chair of Praxis (the U.K. Technology Transfer Training Programme).

**CARRIERE, Michael**

Michael D. Carriere, manager of the strawberry licensing program at the University of California, Davis, received his B.S. degree in Agricultural Science and Management from the University of California, Davis in 1988 and his Ph.D. degree in Plant Biology also from the University of California, Davis in 2000. His Ph.D. work focused on functional genomics and the physiology of submergence tolerance in rice. Prior to graduate school, Dr. Carriere spent four years in a private sector rice cultivar improvement program. In his current role he is charged with building the global licensing presence of UC Davis strawberry cultivars within the public sector framework of a land-grant institution. Dr. Carriere has given invited presentations at conferences and universities on the topic of university plant licensing. He lives in Davis, California with his wife and two children.

**CARVALHO, Sergio M. Paulino de**

Sergio M. Paulino de Carvalho is General Coordinator of Institutional Partnership and Regional Diffusion of the Brazilian National Institute of Industrial Property.

He is also Researcher at the Agricultural Research Enterprise of the State of Rio de Janeiro (PESAGRO-RIO) and Associate Researcher with the Study Group on the Organization of Research and Innovation (GEOPI), State University of Campinas (UNICAMP), Campinas, São Paulo, Brazil.

He is an economist from the Federal Fluminense University (UFF), with a Master's and Ph.D. Degree in Scientific and Technological Policy at the State University of Campinas (UNICAMP). He is author of several publications and articles on intellectual property policies and the organization of research.

#### **CHAMAS, Claudia Inês**

Claudia Chamas is a researcher at the Oswaldo Cruz Institute (FIOCRUZ, Ministry of Health, Ministry of Health). She works on intellectual property issues and is the author of several journal articles on the topic that focus on biotechnology and pharmaceuticals. She received a bachelor's degree in Chemical Engineering and a MSc and DSc in Production Engineering at the Federal University of Rio de Janeiro. In the years 2000 and 2002, she was visiting researcher at the Max-Planck-Institut für Geistiges Eigentum, Wettbewerbs- und Steuerrecht in Munich. She has organized seminars and coordinated research projects that were funded by Brazilian funding agencies (CNPq, Faperj, etc). She is a regular guest speaker at various universities and is a member of the Brazilian Association of Intellectual Property, the Brazilian Ministry of Health's Intellectual Property Committee, and the Brazilian Association of Fine Chemicals, Biotechnology, and Specialties Industries' Industrial Property Committee.

#### **CHAPMAN, Audrey R.**

Audrey Chapman holds the Healey Endowed Chair in Medical Humanities, Law, and Ethics at the University of Connecticut Health Center. She formerly served as the Director of the Science and Human Rights Program at the American Association for the Advancement of Science (AAAS) and as the Co-Director of the AAAS initiative on Science and Intellectual Property in the Public Interest. She is the author, coauthor, or editor of sixteen books and numerous articles and reports dealing with ethical, human rights, and intellectual property issues related to health, pharmaceuticals, and genetic developments. She received a Ph.D. in public law and government from Columbia University and graduate degrees in theology and ethics from New York Theological Seminary and Union Theological Seminary. She has worked closely with the United Nations Committee on Economic, Social and Cultural Rights and the UN Special Rapporteur on the Right to Health. She is currently a member of the University of Connecticut Embryonic Stem Cell Oversight Committee, the John Dempsey Hospital Ethics Committee, and the Expert Genomics Advisory Panel of the Connecticut Department of Public Health.

She has worked on a wide range of ethical, human rights, and intellectual property issues related to health and pharmaceuticals.

#### **CHAPMAN, Junko**

Junko has been a Research Associate at MIHR (Centre for the Management of Intellectual Property in Health Research and Development) since April 2005. Before

MIHR, she spent ten years at RIKEN (The Institute for Physical and Chemical Research), a semi-governmental research institute in Japan. At RIKEN, Junko's responsibilities included conclusion of MTAs (Material Transfer Agreements) and collaborative research agreements and management of RIKEN's intellectual property portfolio. Junko was also heavily involved in establishing a system for disseminating RIKEN's key inventions internationally. These inventions included RIKEN's mouse cDNA clones, which have since become globally recognized and widely used.

Junko graduated from SPRU (Science and Technology Policy Research), University of Sussex, in 2001, where she received her M.Sc. in Science and Technology Policy, during which time she focused, in part, on the impact of harmonization of patent systems. Junko is also a graduate of GRIPS (National Graduate Institute for Policy Studies, Japan), where she received a Master in International Development Studies in 2005.

#### **CHEN, Zhang Liang**

Zhang Liang Chen was born on February 3, 1961, in Fujian, China. He received his Ph.D. in 1987 from Washington University for his research in the Division of Biology and Biomedical Sciences in the field of plant molecular biology and his work in early transgenic plant research. He then returned to China as an associate professor. Two years later, he was a full professor at Beijing University. He has continued his research in transgenic plants and biosafety. He served as director of National Key Laboratory of Protein Engineering and Plant Genetic Engineering. In 1995, he became vice-president of research at Peking University. In 2002, he became the president of China Agricultural University. He and his research group have published over 190 international papers and seven books, and hold over eight patents.

Dr. Chen is also Chair of the Plant Biotech Committee of UNESCO, Consultant for the International Society for Plant Molecular Biology (ISPMB), and member of the Sino-Euro Administration Committee for Biotechnology Cooperation. He also serves as a member and Vice-Chairman of the Council of Scientific Advisers to the International Center for Genetic Engineering and Biotechnology (ICGEB) in Italy and India.

#### **CHI-HAM, Cecilia**

Cecilia Chi-Ham, a native of Honduras, earned a B.S. degree in Chemistry and Environmental Sciences at the University of the Ozarks and a Ph.D. in Chemistry and Biochemistry at the University of Southern Mississippi. In 2004, upon completing her post-doctoral work at Michigan State University in the field of plant biology, Dr. Chi-Ham joined the Public Intellectual Property Resource for Agriculture (PIPRA). Dr. Chi-Ham is a plant biologist interested in facilitating agricultural innovations, particularly in developing countries, and leads PIPRA's Biotechnology Resources Program. The Biotechnology Resources Program's activities include the following: developing research tools with maximum freedom-to-operate that can support a wide array of agricultural applications for humanitarian and commercial purposes; facilitating technology transfer; building new partnerships and research collaborations; and providing legal information on biotechnology

tools. The program's multi-disciplinary activities straddle the delicate junction between the scientific, legal, business development, and regulatory affairs that are an integral part of research and development of new agricultural innovations in developed and developing countries.

#### **CHRISTOFFERSEN, Leif**

Leif Christoffersen is a Founder at the E.O. Wilson Biodiversity Foundation, a nonprofit environmental organization focused on linking businesses to sustainable resources and conservation efforts, as well as educating them about the importance of biodiversity. From 2000 to 2005, Mr. Christoffersen served as the Biodiversity Manager at the Diversa Corporation and managed biodiversity collaborations and bioprospecting efforts in Alaska, Antarctica, Australia, Bermuda, Costa Rica, Ghana, Hawaii, Indonesia, Kenya, Puerto Rico, Russia, and South Africa; he also managed Diversa's biodiversity collaboration with the Center for Reproduction of Endangered Species (CRES). From 1995 to 2000, he served as the Vice President for the World Foundation for Environment and Development (WFED), working with Yellowstone National Park and the National Park Service; he also worked with the National Institute for Biodiversity in Costa Rica and the Center for Ecological Research and BioResources Development in Russia, developing bioprospecting programs and facilitating negotiations for benefit-sharing arrangements with biotech companies. While at WFED, Mr. Christoffersen also served as a Climate Change consultant to the United Nations Environment Programme. Previously, Mr. Christoffersen had worked for CARE International in marketing, public relations, and environmental monitoring and evaluation in Costa Rica, Kenya, and Norway. Mr. Christoffersen received his B.A. in Economics from Hobart College in Geneva, New York, where he won the Elizabeth and Ruth Young Peace Prize. He is scheduled to graduate with an M.B.A. from the Rady School of Management at the University of California, San Diego, in August 2007.

#### **CLIFT, Charles**

Charles Clift has had a great deal of experience in the U.K. Department for International Development (DFID), where he works principally as an economist on all aspects of DFID's work. He began his career as an agricultural economist, advising DFID on its agricultural research priorities. He has lived and worked in Africa, the Caribbean, and India. He has also been responsible for the management of DFID's economic and social research, and the coordination of all of DFID's research programmes, including those concerned with health and agriculture. From 2001 to 2002, he acted as Head of the Secretariat of the U.K. Commission on Intellectual Property Rights ([www.iprcommission.org](http://www.iprcommission.org)). From 2004 to 2006, he was employed in a similar capacity by the WHO Commission on Intellectual Property Rights, Innovation and Public Health ([www.who.int/intellectualproperty](http://www.who.int/intellectualproperty)).

#### **COLAIANNI, Alessandra**

Alessandra Colaianni is a member of the undergraduate class of 2007 at Duke University, where she is double-majoring in Biology and Philosophy. While at Duke,

she has worked as a research assistant to Dr. Robert Cook-Deegan, director of the Center for Genome Ethics, Law, and Policy, which is a part of the Institute for Genome Sciences and Policy at Duke. Her research there has focused mainly on compiling histories of the Cohen-Boyer patents, which she has written about with Dr. Maryann Feldman, and the Axel patents. After she graduates in May, she will continue to work with Dr. Cook-Deegan for a year while applying to law school.

#### **CONWAY, Gordon**

Gordon Conway took up his appointment as Chief Scientific Adviser for the Department of International Development (DFID) in January 2005. He was educated at the University of Wales, Bangor, the University of Cambridge, the University of Trinidad, and the University of California, Davis. His discipline is agricultural ecology. In the early 1960's, he worked in Sabah, North Borneo, and became one of the pioneers of sustainable agriculture. From 1970 to 1986, he was Professor of Environmental Technology at the Imperial College of Science and Technology in London. During this period, he lived and worked in many countries in Asia and the Middle East. He then directed the sustainable agriculture program of the International Institute for Environment and Development in London. From 1988 to 1992, he was Representative of the Ford Foundation in New Delhi; from 1992 to 1998, he was Vice-Chancellor of the University of Sussex and Chair of the Institute for Development Studies. He was President of The Rockefeller Foundation from 1998 to 2004. He has honorary degrees from the Universities of Sussex, Brighton, Wales, and the West Indies; he is an honorary fellow of the Institute of Biology, and a fellow of Imperial College, the American Academy of Arts and Sciences, and the Royal Society. He authored *Unwelcome Harvest: Agriculture and Pollution* (London: Earthscan), *The Doubly Green Revolution: Food for All in the 21st Century* (London: Penguin; Ithaca, New York: Cornell University Press), and *Islamophobia: A Challenge for Us All* (London: The Runnymede Trust).

#### **COOK, Tim**

After being awarded a doctorate in cryogenic engineering at Oxford, Tim Cook joined the Oxford Instruments Group (a spinout company from the University of Oxford) in 1975. During his 12 years with them, the Group's turnover grew from £1million to £100 million. In 1983, Dr. Cook was appointed Managing Director of the Group's subsidiary, Oxford Analytical Instruments. After two more appointments as Managing Director, Dr. Cook became a private investor in 1990 and the founding Managing Director of Oxford Semiconductor and Oxford Asymmetry (a spinout from the University of Oxford, floated in 1998 and recently sold for over £300 million).

In 1997, Dr. Cook was appointed Managing Director of Isis Innovation, the technology transfer company of the University of Oxford. Since then, Isis has recruited 37 staff members and negotiated over 100 option and licence agreements. In the last nine years, Isis has established 54 new spinout companies from the University, which have collectively raised over £300 million in investment capital. In January 2006, Dr. Cook became Visiting Professor in Science Entrepreneurship;



he became Deputy Chairman of Isis Innovation in April of that year.

In addition to his work in Oxford, Dr. Cook is also working on technology transfer with other universities. He has given invited lectures in many countries and visited University Technology Transfer Organizations in the U.S., Australia, Europe, and Japan.

#### **COOK, Trevor**

Trevor Cook joined Bird & Bird in 1974 with a degree in chemistry from Southampton University. He was admitted as a Solicitor in 1977 and then joined the Intellectual Property Department of Bird & Bird, where since 1981 he has been a partner. He specializes in intellectual property and regulatory law. He is Treasurer of the U.K. Group of The International Association for the Protection of Industrial Property (AIPPI), Secretary to the British Copyright Council Standing Committee on Copyright and Technology, and a member of the Council of the Intellectual Property Institute. In recent years, he has acted in many of the leading patent infringement cases that have come before the English courts, most of which have concerned pharmaceuticals and biotechnology, and also in many of the leading cases regarding the protection of regulatory data that have come before the European Court of Justice.

#### **CORREA, Carlos M.**

Carlos M. Correa is Director of the Center for Interdisciplinary Studies of Industrial Property Law and Economics at the University of Buenos Aires, as well as Director of the Post-graduate Courses on Intellectual Property at the same University. He has been a Visiting Professor and taught post-graduate courses at several universities. He has also been a consultant in different areas of law and economics (including investment, science and technology, and intellectual property) to UNCTAD, UNIDO, UNDP, WHO, FAO, the Inter-American Development Bank, INTAL, the World Bank, SELA, ECLA, UNDP, and other regional and international organizations, as well as several governments. He was a member of the U.K. International Commission on Intellectual Property, which was established in 2001, and of the Commission on Intellectual Property, Innovation, and Public Health, which was established by the World Health Assembly in 2004. He is the author of several books and numerous articles on law and economics, particularly on the topics of investment, technology, and intellectual property.

#### **COSTANZA, Charles**

Charles (Chuck) Costanza is a consultant to the biotechnology industry. Since 2002, he has consulted for Diversa Corporation, a San Diego-based corporation that has pioneered the development of high-performance specialty enzymes. Mr. Costanza advises the company on business development in emerging markets, and specializes in biodiversity access agreements. He has presented papers around the world and to many different audiences (business, NGO, academic, and government) on the subject of biodiversity access agreements. Prior to working with Diversa, Chuck worked in the financial and technology industries, managing projects, consulting, and developing business across the U.S., Europe, the former Soviet Union, and

Asia. He worked for ICF Consulting, Inc. as a project manager, and developed and oversaw projects for clients such as The World Bank, British Petroleum, and the U.S. Environmental Protection Agency. Prior to working for ICF, Mr. Costanza worked as a project manager for the International Finance Corporation; in this capacity, he led a multinational team of 70 economists and lawyers who helped to privatize collective farms in Ukraine in 1996, the first privatizations of their kind. Fluent in Russian and German, Mr. Costanza received a Bachelor's Degree from the College of the Holy Cross and a Master's Degree from Harvard University.

#### **CROW, Michael**

Michael Crow—educator, knowledge enterprise architect, and science and technology policy scholar—became president of Arizona State University on July 1, 2002. He is currently helping to transform ASU into one of the nation's leading public metropolitan research universities. Under his direction, the university's faculty pursue teaching, research, and creative work that is focused on the major challenges and questions of our time and, especially, the challenges related to Arizona's environment and economy. He has committed the university to global engagement and to setting a new standard for public service. During his tenure, ASU has marked a number of important milestones: the establishment of major global interdisciplinary research initiatives such as the Biodesign Institute, the Global Institute for Sustainability, and the Flexible Display Center; an unprecedented expansion of research infrastructure that added more than one million square feet of new research space; a dramatic increase in federal research awards; and the four largest gifts in the history of the university. Prior to joining ASU, Dr. Crow was Professor of Public and International Affairs and Executive Vice Provost of Columbia University. He is the author of books and articles on the analysis of knowledge organizations, knowledge transfer, science and technology policy, and the practice and theory of public policy.

#### **CROWELL, W. Mark**

W. Mark Crowell is Associate Vice Chancellor for Economic Development and Technology Transfer at the University of North Carolina at Chapel Hill (UNC). Prior to joining UNC, he held similar positions at North Carolina State University and at Duke University. He has extensive experience in technology transfer, new company development, seed capital formation, and research park development and marketing. Mr. Crowell also leads UNC's efforts to connect its research enterprises with economic and business development opportunities in the region, state, nation, and world. Mr. Crowell, as a representative of UNC, sits on the boards of major statewide and regional economic development and entrepreneurial support agencies in North Carolina.

Mr. Crowell is Past President (2005) of the Association of University Technology Managers (AUTM). AUTM is the pre-eminent international organization in the field of academic technology transfer. AUTM has a membership of nearly 3,500 professionals, almost 12% of whom are from outside of North America. AUTM's mission is to promote and enhance the global technology transfer profession through education, training, networking, and

advocacy, and through the identification and dissemination of best practices in academic technology transfer.

Mr. Crowell's speaking and consulting experience in the past two years includes keynote addresses at international conferences in at least 15 countries outside the U.S., as well as advisory roles with many major national and international organizations, including the AAAS and the National Academies of Sciences. He has extensive management experience in organizations and initiatives related to technology transfer and innovation-based economic development.

#### **CRUZ, Richard L.**

Richard L. Cruz focuses his practice on securing, licensing, and enforcing intellectual property rights, primarily in the electrical, electro-mechanical, and electronic arts. His practice includes domestic and foreign patent prosecution, patent validity and infringement analysis, state-of-the-art and patentability opinions, licensing, due diligence, copyrights, and trademarks, and the litigation circuits, software, and electronics fields.

Mr. Cruz earned his law degree, with honors, from Widener University School of Law. While at Widener, Mr. Cruz was a member of the Moot Court and Trial Advocacy Honor Societies. Mr. Cruz also earned a Certificate in Trial Advocacy, with honors, while in law school. He is a member of the Pennsylvania bar and is admitted to practice before the U.S. Patent and Trademark Office and the Eastern District of Pennsylvania. Prior to attending law school, Mr. Cruz earned a degree in Engineering from the University of Pittsburgh.

#### **CUNNINGHAM, Sean**

Sean Cunningham is a partner at the firm of DLA Piper U.S. L.L.P. in San Diego, California. Mr. Cunningham is a trial lawyer who specializes in patent litigation, with an emphasis on litigation in the International Trade Commission, multi-jurisdictional litigation, and litigation involving conduct in standard-setting organizations. He received his law degree from the University of Kansas School of Law, where he was Order of the Coif and Editor of the Kansas Law Review. Sean has spent his entire legal career with DLA Piper (formerly known as Gray Cary Ware & Freidenrich). He is a member of the Federal Circuit Bar Association, the American Intellectual Property Law Association, and the Intellectual Property Section of the California Bar Association. Mr. Cunningham frequently works with companies such as Hewlett-Packard, Agilent Technologies, and Qualcomm Incorporated. His full biography can be found at [www.dlapiper.com/sean\\_cunningham/](http://www.dlapiper.com/sean_cunningham/).

#### **DI GIORGIO, Rosana Ceron**

Rosana Di Giorgio currently serves as Intellectual Property & Partnership Development Director of Inova Unicamp, the Technology Licensing Office of the State University of Campinas, Brazil (Unicamp). She is responsible for business development between the university and the marketplace. In the three years since she joined Unicamp, she has signed 150 technology transfer agreements involving IP development and licensing between the university and the commercial sector, a new record for both Brazil and Latin America; as a result, Unicamp is the biggest licensor in the country. Some of these technology transfer agreements have already

resulted in commercialized products, such as BiPhor and Aglicon-Soy. She is also responsible for defining policies, practices, legal affairs, team building, and management of the university's IP portfolio, which, since 1999, has been considered the country's largest.

In the past three years, she has been invited to speak at about 40 national and international conferences, symposia, and workshops on the subject of transferring academic technology to the commercial sector. These talks have attracted investors, industry representatives, and academics. Some of her publications include: articles for business magazines, such as *Líderes Empresariais* and *Les Nouvelles*, and business newspapers, such as *Gazeta Mercantil*; books like *Propriedade Intelectual: O Caminho para o Desenvolvimento*, chapter 7, a book sponsored and launched by Microsoft; television interviews for such channels as Globo News, EPTV, and TV Bandeirantes; radio interviews for such channels as CBN and Eldorado; and electronic reports, such as a WIPO report on best practices.

Her previous experience includes eight years managing people, projects, accounts, and business development in Brazil and abroad; creating innovative solutions for several market sectors (financial, energy, IT, and pharmaceutical); strategic planning; market research; and business plan and business viability analysis. She previously served as Executive Director of facTI, a private foundation concerned with IT; under her guidance, the foundation became financially viable in one year. She was also Corporate Business Development Manager and Semiconductor Division Manager at CPqD, the biggest research and development center in Brazil for telecommunications and IT.

#### **DI SANTE, Anne C.**

Anne C. Di Sante (University of Michigan M.B.A., Marketing; University of Michigan M.S., Microbiology/Immunology; University of Michigan B.S., Medical Technology) is the Director of the Technology Transfer Office at Wayne State University. She is responsible for the daily operations related to traditional invention management activities undertaken by the TTO staff, including resource allocation, commercialization strategy development and implementation, and agreement negotiation and maintenance. Prior to joining WSU in 1998, she held various positions within the Technology Management Office (now the Office of Technology Transfer) at the University of Michigan, ranging from student intern to Acting Director. She is experienced in managing inventions from all scientific disciplines; however, she specializes in medical, pharmaceutical, and biotechnology inventions. She has had the pleasure of managing several key biomedical inventions, including the cystic fibrosis gene, several gene therapy technologies, anti-viral compounds, anti-cancer compounds, methods for antibiotic development, a nasal vaccine for the prevention of influenza, and several immunotherapy technologies. Currently, she is a member of the Intellectual Property Commercialization Committee, the governing body for the Michigan Universities Commercialization Initiative, a \$9.0 million project funded by the State of Michigan; she is also a member of the MUCI Finance Committee. Ms. Di Sante is also an active member of the Association of University Technology Managers, currently serving as editor of the AUTM Newsletter.

She has also served on AUTM's Board of Trustees as Vice President of the Central Region and as an Executive Committee participant. She participated in the development of the BioMed Expo (now the MichBio Expo), serving on the planning committee for four years. She is a member of the Licensing Executives Society.

#### **DODDS, John**

John Dodds was born in the U.K. but has lived and worked in the Middle East, Latin America, and the United States. He became a U.S. citizen in the 1980s. Originally trained as a biochemist, he earned both a Bachelor's and Doctoral degree at the University of London. Dr. Dodds also earned a law degree in the U.S. and founded the law firm Dodds and Associates in 1999. His early research career focused on plant biochemistry and plant tissue culture. In the early 1980s, Dr. Dodds co-authored a standard and well-used textbook on techniques for culturing plant tissue. His work focused on plant genetic conservation *in vitro* and plant transformation systems. He then moved into the area of agricultural development and has worked in, and traveled to, more than 100 countries. Dr. Dodds has also been a teacher in many capacities, from a professor in both the U.S. and the U.K. to the coordinator of regular IP training programs that have been offered through his law firm in several countries. In his few hours of spare time, Dr. Dodds also writes novels and assists his wife in restoring historic buildings.

#### **DUNN, Martha**

Dr. Dunn joined Ciba-Geigy in 1994 as a Research Scientist, working in the areas of protein structure/function and molecular recombination for the discovery of novel traits, in support of the agribusiness sector of Ciba-Geigy.

Martha joined the Licensing Department in 1998, where she helped negotiate agreements to support R&D and commercialization activities for Syngenta Biotechnology and its affiliated companies.

Prior to this, Martha worked at Genetics Institute in Cambridge, Massachusetts, as a research scientist in the Immunology Department and was responsible for assay development for GI's ongoing projects.

Dr. Dunn is a registered as a Patent Agent with the U.S. Patent and Trademark Office, an active member of the Licensing Executive Society, the Biotechnology Industry Organization and an affiliate member of the Association of University Technology Managers.

Martha graduated with a B.S. from Boston College and has received her Ph.D. in Biochemistry and Biophysics from the University of North Carolina at Chapel Hill.

#### **EDWARDS, Mark G.**

Mark G. Edwards is the Managing Director of Recombinant Capital, Inc. (Recap), a consulting firm based in Walnut Creek, California. More than 500 biotechnology, pharmaceutical, and service companies subscribe to Recap's databases (Recap.com & rDNA.com) or retain Recap to advise them on biotech alliances and valuations.

Mr. Edwards has been invited to speak to many trade and industry groups about structuring alliances and other business relationships that are related to the

development and commercialization of new technologies, compounds, or products. These groups include the Institute of Medicine, the Licensing Executives Society, the Association of University Technology Managers, Sigma Xi (the Scientific Research Society of the National Academy of Sciences), and the Biotechnology Industry Organization. He has also provided expert testimony at deposition or trial in lawsuits dealing with either reasonable royalties or normal custom and practice in the biotechnology and pharmaceutical industries.

Mr. Edwards is on the Board of Directors of Allos Therapeutics, Inc. Prior to founding Recap in 1988, Mr. Edwards was Manager of Business Development at Chiron Corporation. He received his B.A. and M.B.A. degrees from Stanford University.

#### **EISS, Robert**

Robert Eiss presently serves as the CEO of MIHR. He has held senior management positions at the U.S. National Institutes of Health (NIH) and the White House Office of National Drug Control Policy. He has more than twenty years of experience in the planning and management of NIH-supported global health programs. He helped initiate the Multilateral Initiative on Malaria, a consortium of international investors that supports research for improved control and prevention of malaria in Sub-Saharan Africa. He has also helped start a cooperative venture between NIH-supported institutions and the World Bank's Global Development Network, whose goal is to assess the effects of health on economic productivity. He also conceived of the "Global Forum on Bioethics," an informal partnership among multiple organizations that addresses issues of equity and social justice in North-South research enterprises, including allocation of intellectual property rights.

He has been responsible for the analysis and implementation of policies related to IP allocation in cooperative programs involving NIH and its international counterparts. As a representative of NIH to the White House Committee on International Science, Engineering and Technology, he was lead author on reports that established policy frameworks for cooperative programs between the U.S. and both the European Union and Russia. He also served as Associate Director of the White House Office of National Drug Control Policy, where he helped institute a national initiative to improve access to treatment in the public and criminal justice settings through block and discretionary grants.

A native of Washington, D.C., Mr. Eiss graduated from the University of Maryland at College Park and received his M.A. from Oxford University.

#### **FATHALLA, Mahmoud F.**

Dr. Fathalla is a professor of Obstetrics and Gynecology and former Dean of the Medical School at Assiut University in Egypt and is currently the chairman of the World Health Organization (WHO) Global Advisory Committee on Health Research. He has served as the Director of the UNDP, UNFPA, World Bank, WHO Special Programme of Research, Development and Research Training in Human Reproduction and has served as a consultant to various international bodies such as the WHO, UNPF, IPPF, Population Council, and the Ford and Rockefeller foundations. He is the author of more than 150 scientific publications. Professor

Fathalla has been an international campaigner for Safe Motherhood and a founder of the Safer Motherhood Initiative. His scientific interests include women's health, safe motherhood, reproductive health, ethics and human rights, and contraceptive research and development.

**FEINDT, Hans H.**

Hans Feindt currently supervises the Monitoring and Enforcement Branch of the Division of Technology Development and Transfer in the NIH Office of Technology Transfer (OTT). He has been with OTT since November 2002. Before joining NIH, he worked in various roles as a scientist, project leader, and research director in the medical diagnostics industry at a number of large and small U.S. companies. During his 20-year industry career, he was employed by Bethesda Research Laboratories, Becton Dickinson & Co., Quidel Corporation, and OraSure Technologies. He contributed to the development and commercialization of rapid, antibody-based tests for a variety of important infectious disease agents. Some of these tests are still in commercial use. In addition to developing new products, he also transferred and established new technologies that were obtained through licensing or acquisition deals by the companies where he was employed. He is listed as a co-inventor on numerous patents and a co-author on a number of scientific publications. Dr. Feindt earned a Ph.D. in biochemistry from Brandeis University and a B.S. in chemistry from the University of Delaware. He and his family currently reside in Baltimore, Maryland.

**FELDMAN, Maryann P.**

Maryann P. Feldman is the inaugural Zell Miller Distinguished Professor of Higher Education at the Institute of Higher Education of The University of Georgia. Previously, she was Professor of Business Economics at the University of Toronto, where she also held the Jeffrey S. Skoll Chair in Technical Innovation and Entrepreneurship at the Rotman School of Management. Dr. Feldman's work focuses on the ways in which universities transfer technology and the implications of those transfers for economic development. She explores the means by which geographic clusters produce economic growth and has special expertise in university-generated technologies and the commercialization of academic research. Prior to her appointment at Toronto, Dr. Feldman was at Johns Hopkins University, where she was a faculty member at the Institute for Policy Studies. At Johns Hopkins, Dr. Feldman was the founding policy director at the Information Security Institute (JHUISI) at the Whiting School of Engineering. Her most recent book, co-edited with P. Braunerhjelm, is *Cluster Genesis: the Origins and Emergence of Technology-Based Economic Development* (Oxford: Oxford University Press, 2006).

**FENTON, Gillian M.**

Gillian M. Fenton is a patent and intellectual property attorney who specializes in the fields of biotechnology and pharmaceutical patents and licensing. She has over fourteen years' experience as an attorney and is a member of the bar in Massachusetts, Maryland, and the District of Columbia and is also registered to practice before the U.S. Patent and Trademark Office. Ms. Fenton currently

is Chief Intellectual Property Counsel at Emergent BioSolutions Inc., where she is responsible for all patent matters and licensing-related intellectual property matters. She previously served as in-house counsel at Biogen, Inc. and at several Boston-based law firms, including Foley Hoag LLP. Ms. Fenton is a 1992 graduate of Suffolk University Law School in Boston. Before she entered the field of law, she was a scientist in the immunology laboratory at Genetics Institute, Inc. She is a 1984 graduate of Trinity College in Hartford, Connecticut, where she received a bachelor's degree in biochemistry.

**FERNÁNDEZ, Carlos**

Carlos Fernández studied agronomy at Universidad de Chile. After working as an Assistant Professor at the Agronomy Faculty of the same university, he received a Ph.D. in Plant Physiology at the University of California, Davis. Upon graduation, he joined Monsanto Company, where he held various management positions that gave him responsibilities in several countries. He led the development of agricultural technologies in Latin American countries, first from the company headquarters in St. Louis and later from Sao Paulo, Brazil. Among other things, he contributed to the development of new applications for Roundup, the most successful herbicide in the world, and the development of nontillage systems for various crops. In Europe, he developed new products and actively participated in the design of the Roundup post-patent policy for Europe and Africa.

While working for Monsanto in California, he evaluated and contributed to the development and introduction of transgenic crops to the market. During his stay in California, he returned to the University of California, Davis, and earned an M.B.A. In 1999, he returned to Santiago, Chile, and began working at Fundación Chile, where he coordinated programs related to technology transfer, intellectual property, regulatory matters, and the development of transgenic crops. He contributed to the Cooperative Agreement between the University of California, Davis and Fundación Chile. In addition to his work at Fundación Chile, he serves as a consultant to the Food and Agricultural Organization of the UN and the Chilean Ministry of Economy. Some of his latest contributions as a consultant include two studies sponsored by the Ministry of Economy of Chile: "Comparative Analysis of Biotechnology Policies in N. Zealand, Canada, United States, Australia, Japan, China, Argentina, Brazil, Spain and Chile" and "Formulation of a Model for a Technology Transfer Office for Chile." He also contributed to a recent study, sponsored by UNDP, titled "Commercialization Impact on Agricultural Export Products Caused by the Introduction of GMO in Chile."

As of July 2006, Dr. Fernández is the Head of Strategic Studies and the technology transfer unit of the Foundation for Agriculture Innovation.

**FERNANDEZ, Dennis S.**

Dennis Fernandez has over 20 years' experience in Silicon Valley and high-tech industry as a patent prosecutor and intellectual property litigator, a venture capitalist, and an engineering manager. He specializes in developing offensive and defensive patent strategies for start-up electronics, software, and biotech companies and their investors. Mr. Fernandez serves as strategic

advisor to leading venture capital firms, including Sevin Rosen, Venrock, Charles River Ventures, and Walden International. Some of his clients include Marvell Technology, SiRF Technology, Ayala Corporation, Stanford University, and Northwestern University, as well as various start-up companies acquired by Cisco, Broadcom, Ciena, and Cadence Design Systems. He also serves on the Editorial Board of the *Nanotechnology Law & Business Journal*, the Board of Directors of the Association of Patent Law Firms, and the Science and Technology Advisory Council. Previously, Dennis served on a consultancy with the United Nations Development Programme on Asian economic development.

Mr. Fernandez also holds several U.S. and international patents in the areas of digital television, sensor networks, and bioinformatics. He has an electrical engineering degree from Northwestern University, a law degree from Suffolk University Law School, and is a Registered U.S. Patent Attorney.

#### **FINSTON, Susan K.**

Susan K. Finston has more than 20 years of experience in the management of international legal and public policy issues. In June 2005, Ms. Finston founded Finston Consulting, LLC. Her company provides a range of services to the biotechnology industry, including business development, strategic marketing, technology transfer, policy analysis and advocacy, ally development, and education and awareness programs for start-ups and multinational companies.

Ms. Finston is a board member of BayhDole25, a technology transfer NGO that was established in 2005 to study the social and economic impact of the Bayh-Dole Act of 1980 and related international technology transfer legislation. She also serves as Executive Director of the American BioIndustry Alliance (ABIA), an advocacy organization that seeks enabling conditions for biotechnology through sustainable, mutually beneficial Access and Benefit Sharing (ABS) policies. She was recently elected to the Alumni Board of the Ford School of Public Policy at the University of Michigan, where she received a Joint JD/MPP degree in 1986. She also served on the Board of Governors of the Washington Foreign Law Society and was a member of the National Advisory Board of the International Society of Environmental Biotechnology. For publications, presentations, and upcoming events, see [www.finstonconsulting.com](http://www.finstonconsulting.com).

#### **FONG, H. H. S.**

Professor Harry Fong is a Professor Emeritus of Pharmacognosy and Associate Director, WHO Collaborating Centre on Traditional Medicine at the College of Pharmacy, the University of Illinois at Chicago, as well as Adjunct Professor at RMIT University in Melbourne, Australia. He is an internationally known pharmacognosist/natural products chemist with more than 48 years of experience centering on the search for anti-tumor, cancer chemopreventive, antimalarial, anti-HIV, and anti-TB agents from plants and on quality-control standardization and clinical evaluation of herbal medicine/botanical-dietary supplements. His research has resulted in more than 255 research papers, a number of books, book chapters, and review articles. He was an Associate Editor of the *Journal of Natural Products* and was a primary writer of

the *WHO Monographs on Selected Medicinal Plants* Vol. 1-4 and the *WHO Guidelines on GACP*. His work and services led to many honors. He served as President of the American Society of Pharmacognosy from 1978 to 1979, President of the Society for Economic Botany from 1981 to 1982, Visiting Professor at Guangzhou University of Traditional Chinese Medicine University, and Honorary Member of the American Society of Pharmacognosy beginning in 2004. He is a recipient of the Jack L. Beal Post-Baccalaureate Alumnae Award, the College of Pharmacy, Ohio State University; Member, WHO Traditional Medicine Expert Panel (1997 to present); and Member, International Advisory Board on Hong Kong Chinese Materia Medica Standards (2002 to present).

#### **FRASER, John A.**

John A. Fraser has been the Executive Director of the Office of IP Development and Commercialization at Florida State University, Tallahassee, since 1996. Previously, he was Director of the University/Industry Liaison Office at Simon Fraser University, Vancouver. Mr. Fraser has substantial corporate and university experience. He has also held the following positions: Executive Vice President and co-founder of UTC, Inc., a venture-capital-backed, North Carolina-based university licensing/technology transfer firm; President and CEO of UTI, a University of Calgary-based for-profit technology transfer company; Vice President of TDC, Inc., a Toronto and Vancouver-based venture capital firm; and President of Burnside Development, a technology commercialization consulting firm. He has co-founded three companies and assisted in the launching of another 12 technology-based firms.

In 2006, he became President of AUTM, the global, academic professional technology transfer association, and served a two-year term as VP Membership (2001–2003). He is a Founding Board Director of TalTech Alliance, the technology association of the Tallahassee region, and its Executive Committee. He is also a Founding Board member of the Florida Research Consortium and its Executive Committee; he was appointed by the governor to increase university/company interactions to better the Florida economy. Through the Johns Hopkins University technology transfer program, he has helped scientists and engineers create business plans for new start-up companies. In 2006, he joined the Board of BioFlorida, the statewide biotechnology trade association.

Mr. Fraser holds a Master's Degree in Biochemistry from the University of California, Berkeley.

#### **FREEMAN, John W.**

John Freeman is a Principal in the law firm of Fish & Richardson P.C., with 35 years of experience. He has a diverse practice emphasizing patent licensing and patent opinions. He specializes in biotechnology, chemistry, bioinformatics and biology. He has extensive experience in academic-industry collaborations, diligence involving intellectual property, and all aspects of patent counseling and prosecution. He also has experience in pharmaceutical patent counselling, including pre-suit investigation and strategic issues under Hatch-Waxman provisions.

Prior to joining Fish & Richardson, Mr. Freeman served in the office of general counsel at the Civil

Aeronautics Board, where he was responsible for litigated cases involving administrative law. He also served as a law clerk to Justice Robert N.C. Nix of the Pennsylvania Supreme Court. He received a B.A. from Williams College in organic chemistry and a J.D. from the University of Pennsylvania Law School.

#### **FREIRE, Maria**

Dr. Maria C. Freire is CEO and President of The Global Alliance for TB Drug Development, a position she has held since 2001. During her service, the Alliance has built the largest pipeline of TB drugs in the world, advanced compounds into clinical testing, and pioneered precedent-setting agreements with industry.

From 1995 to 2001, Dr. Freire directed the Office of Technology Transfer at the NIH, where she was responsible of technology transfer policies and procedures for the Department of Health and Human Services and for patenting and licensing activities at the NIH and the FDA.

Dr. Freire is an internationally recognized expert in technology commercialization. She is a member of the NIH Advisory Board for Clinical Research, a Governor of the New York Academy of Sciences, and the Chair of the Working Group for New TB Drugs for the global Stop TB Partnership. Dr. Freire was selected as one of ten Commissioners of the World Health Organization's Commission on Intellectual Property Rights, Innovation and Public Health (CIPRH) and a member of Time magazine's Global Health Summit Board of Advisors.

Born in Lima, Peru, Dr. Freire trained at the Universidad Peruana Cayetano Heredia. She holds a Ph.D. in biophysics and completed post-graduate studies in immunology and virology at the University of Virginia and the University of Tennessee, respectively, and at the John F. Kennedy School of Government at Harvard University. She has received numerous national and international awards, including the Arthur S. Flemming Award, DHHS Secretary's Award for Distinguished Service, and the Bayh-Dole Award.

#### **GACEL, Rafael A.**

Rafael A. Gacel is an Associate Director of Technology Transfer Services at the University of California, Davis. Since joining U.C. Davis in January 2000, he has also served as an intellectual property officer and a material transfer analyst; he has worked on thousands of MTAs, confidentiality agreements, research agreements, and licenses; and he has given presentations and classes on MTA-related topics. From 1998 to 2000, he was an administrative analyst at UC Berkeley; from 1996 to 1998, he was a deputy director of financial management with the U.S. Senate (assigned to the U.S. Capital Police); from 1976 to 1996, he was a financial management officer, an information systems officer, a commanding officer, and an engineer equipment operator in the U. S. Marine Corps. Mr. Gacel earned a B.S. in Civil Engineering from the University of Washington in 1983, an M.B.A from National University in 1986, and an M.S. in Information Systems from the Naval Postgraduate School in 1991. He immigrated to the United States of America as a Cuban refugee in 1964, and has been living in Davis, California, since 1998. Mr. Gacel has also lived in the Dominican Republic,

Guatemala, and Okinawa. He has three children: Enrique, Maria, and Emmanuel.

#### **GAO, Wangsheng**

Wangsheng Gao is the Director of the Regional Agricultural Development Center at China Agriculture University (CAU). He is also a Professor of Farming Systems and Ecology at the College of Agronomy and Biotechnology at CAU and Chairman of the China Farming-system Research Society. From 1979 to 1983, he was an undergraduate in the Department of Agronomy of Gansu Agriculture University (GAU), where he earned his B.A. From 1984 to 1990, he worked at GAU and earned his M.S. degree there in 1989. From 1991 to 1994, he returned to CAU and earned a Ph.D. there. Since 1995, he has taught at CAU. Between 1995 and 2006, he finished more than 10 research programs supported by national science & technology project. His areas of research interest are farming systems and regional rural development, conservation tillage and sustainable agriculture, agro-ecosystem eco-economical analyses, and agricultural high-technology assessment and developmental policy.

#### **GARNER, Cathy**

Cathy Garner is currently Chief Executive of Manchester: Knowledge Capital. Dr. Garner has a background in university-business links and technology transfer, as well as extensive experience in the fields of urban regeneration, education, and knowledge-based business development.

She is a Trustee of the U.K. registered charity MIHR and was its founding CEO until 2004. Dr. Garner established and ran the Research and Enterprise Office at the University of Glasgow in Scotland. She helped establish the Scottish Institute for Enterprise and was a founder-director of the Scottish North American Business Council. She is a member of the Association of University Technology Managers (AUTM) in the U.S. and has served as their inaugural Vice President for International Relations.

Her career includes eight years of policy and research management in the public sector and ten years of academic research in education and urban regeneration. She has acted as an intellectual property advisor to the U.K., Canada, Japan, and South Africa and served as a Non-Executive Director on numerous Boards. She is a Fellow of the Royal Statistical Society.

#### **GHAFELE, Roya**

Roya Ghafele works as an economist with the World Intellectual Property Organization. She concentrates on questions related to value creation and intellectual property in the area of life sciences. Dr. Ghafele has published widely in the field of IP management in the life sciences and has advised the governments of several developing countries on how to better align intellectual property with overall innovation and health policies. Previously, Dr. Ghafele worked with the OECD Trade Directorate, McKinsey & Company, and as a professional ballet dancer. Dr. Ghafele was trained at Johns Hopkins University, the Sorbonne, and Vienna University. Her doctoral dissertation, "Globalization, Francophone Africa and the WTO – a Historical Discourse Analysis" was awarded the Theodor Körner Research Prize by the president of Austria.

**GOLD, E. Richard**

Richard Gold is the Director of the Centre for Intellectual Property Policy. He teaches courses on intellectual property and innovation at McGill University's Faculty of Law. His research centers on the nexus between innovation and development, particularly with respect to biotechnology in the international context. He is the Principal Investigator of the Intellectual Property Modelling Group, a transdisciplinary research team investigating intellectual property regimes and their links to innovation, financing, public opinion, and development. Dr. Gold has consulted with the World Intellectual Property Organization, the Organization for Economic Cooperation and Development, the World Health Organization, and various Canadian federal and provincial governments and institutions. Dr. Gold holds an S.J.D. and LL.M. from the University of Michigan, a LL.B. (Honors) from the University of Toronto and a B.Sc. from McGill University.

**GOLDMAN, Michael L.**

Michael L. Goldman practices law at Nixon Peabody LLP. He has extensive experience in patent licensing and intellectual property agreements, particularly with sponsored research agreements and license agreements. He deals regularly with pharmaceutical, genomics, and biotechnology companies, as well as universities, agricultural cooperatives, and international entities. His work has focused on serving large and small companies, universities, and other institutions in the biotechnology and chemical fields. He served as a law clerk for Hon. Jack R. Miller, Circuit Judge, U.S. Court of Appeals for the Federal Circuit in Washington, D.C., and served as a patent examiner for the U.S. Patent and Trademark Office. He is a chemical engineer and was previously employed by the Gulf Oil Corporation and the Bendix Corporation. Mr. Goldman has authored articles and given presentations on various licensing projects around the world. He is admitted to practice in the District of Columbia Court of Appeals, the New York Court of Appeals, and the U.S. Court of Appeals for the Federal Circuit. Mr. Goldman is a registered attorney in the U.S. Patent and Trademark Office and a member of the American Intellectual Property Law Association, the American Bar Association, the District of Columbia Bar Association, the New York State Bar Association, and the Federal Circuit Bar Association.

**GRACEN, Vernon**

Vernon Gracen is currently a Visiting Professor in the department of Plant Breeding and Genetics at Cornell University. He teaches an introductory course in Plant Breeding and manages curriculum development for the Cornell Transnational Learning Program. Raised in Savannah, Georgia, he now lives in Ithaca, New York. He earned a B.S. in Education from Georgia Southern College and a Ph.D. in Agronomy from the University of Florida. He joined Cornell University as an Assistant Professor in Plant Breeding and Biometry in 1970 and moved through the ranks of Associate and Full Professor. His research interests were in the areas of breeding for disease and insect resistance in maize and cassava. He joined Cargill Hybrid Seed in 1987 as Vice President, Director of Research and Development for the North American Seed Division. He became Director of

Research for Cargill's Worldwide Seed Business in 1992. He returned to Cornell as a Visiting Professor in 2001.

**GRAFF, Gregory D.**

Gregory D. Graff is an applied economist with expertise in the economics of innovation, entrepreneurship, intellectual property, and technology transfer, especially as they apply to the agricultural life sciences and biotechnology. He applies microeconomic and econometric tools to scientific, patent, regulatory, and commercial data, building uniquely thorough industry-level datasets to analyze the impacts of innovation and technology transactions on markets, industrial organization, and the political economy of science policy.

Dr. Graff currently manages research projects for the Public Sector Intellectual Property Resource for Agriculture (PIPRA), a consortium of 37 agricultural research universities and institutes that is hosted by the University of California. PIPRA uses an innovative model of collaborative intellectual property management to mobilize its members' technologies for the purpose of genetically improving "orphan" crops. Dr. Graff has taught as a university lecturer at both U.C. Berkeley and U.C. Davis and has recently published articles in *The Review of Economics and Statistics*, *World Development*, *California Management Review*, and *Nature Biotechnology* as well as chapters in several books. Dr. Graff has a Ph.D. in agricultural and resource economics from U.C. Berkeley (2002), an M.A. in economics from Ohio State University (1995), and a B.S. in biology from Cornell University (1992).

**GUO, Hua**

Hua Guo focuses her practice on patent prosecution, opinions, and agreements dealing with biotechnology, pharmaceuticals, chemicals, and medical devices.

Prior to joining Jones Day, Dr. Guo worked as an intern in the Corporation Sponsored Research and Licensing Office of Massachusetts General Hospital, where she was actively involved in technology licensing, marketing, prior art searches, and patent prosecution before the USPTO. Previously, she was an associate at King & Wood, PRC Lawyers, where she prepared, filed, and prosecuted domestic and foreign patent applications pertaining to biotechnology, pharmaceuticals, chemicals, and medical devices. She also consulted with clients on invention patentability and patent validity.

Dr. Guo got her Master's degree in Intellectual Property at Franklin Pierce Law Center. Before attending law school, she earned an M.D. and a Ph.D. in molecular pathology. She is a member of Association of Attorneys specializing in the practice of Intellectual Property Law (AIPLA), the All China Patent Agent Association (ACPAA), and the Chinese Bar Association.

**GURRY, Francis**

Francis Gurry, a national of Australia, is Deputy Director General of the World Intellectual Property Organization (WIPO) in Geneva. He is responsible for WIPO's activities in the area of patents, which include patent policy questions and the administration of the Patent Cooperation Treaty (PCT), under which some 145,000 international patent applications were filed in 2006, biotechnology and genetic resource policy questions, traditional knowledge, and the WIPO Arbitration

and Mediation Center, which has administered over 26,000 disputes over Internet domain names since 2000.

Dr. Gurry holds law degrees from the University of Melbourne and a Doctor of Philosophy from the University of Cambridge in the United Kingdom. He is a Professorial Fellow of the Faculty of Law of the University of Melbourne.

He is the author of a textbook on the law of trade secrets and confidential information, entitled *Breach of Confidence*, published by Oxford University Press in the United Kingdom in 1984, and co-author, with Frederick Abbott and Thomas Cottier, of *The International Intellectual Property System: Commentary and Materials*, published by Kluwer in July 1999.

#### **GYLLENHAAL, C.**

Dr. Gyllenhaal is an ethnobotanist by training. She is a Research Assistant Professor at the University of Illinois at Chicago and Research Program Manager at the Block Center for Integrative Cancer Treatment located in Evanston, Illinois. She has been active in a variety of research projects that includes herbal supplements and, especially, cancer therapy, traditional medicines, biological activities of natural products, and IP issues related to indigenous traditional medicinal plant knowledge. Her involvement with a project led by D. D. Soejarto (funded through the NIH/FIC ICBG) has given Gyllenhaal substantial experience in administering and subcontracting for international collaborative projects. She has been an Associate Editor of *Economic Botany and Taxonomy* and Editor of *Journal of Natural Products*. Since 2001, she has served as Associate Editor of *Integrative Cancer Therapies*.

#### **HAEUSSLER, H. Walter**

H. Walter Haeussler is a member of the Board of Directors at HemoBioTech. He has served as the Director of Technology Transfer at Texas Tech University, as General Counsel to Advisys Inc., an animal biotechnology company, and as the former President of the Cornell Research Foundation at Cornell University. Before that, he was with Jones, Tullar & Cooper P.C., Arlington, Virginia, rising to the position of managing partner. From 1963 to 1972, he was an intellectual property attorney with PPG Industries, Pittsburgh. Haeussler earned a B.S. in chemistry from Bowling Green University, Bowling Green, Ohio, and a J.D. from Duquesne University School of Law, Pittsburgh.

#### **HAMZAoui, Amina**

Dr. Amina Hamzaoui is the Associate Director of Intellectual Property at the Whitehead Institute of Biomedical Research in Cambridge, Massachusetts, U.S.A. She manages and oversees activities related to the intellectual property that is produced from research and other work conducted at the Institute. Prior to joining the Whitehead Institute in April 2005, Dr. Hamzaoui was an Assistant Professor at St. Thomas University, in Miami, Florida. During her tenure at St. Thomas, she served as the Chairperson of the Institutional Review Board/Research Ethics Committee for research with human participants. She did her postdoctoral fellowship in 1998 at the University of Miami School of Medicine. She has over seven years of comprehensive research

experience in analysis, theory development, and practical application in the area of cardiovascular disease and in the development and improvement of the biosynthetic materials used in arterial and vascular reconstructive surgery. Dr. Hamzaoui received her Ph.D. in Chemistry of Materials & Polymer Science in 1997 from Université des Sciences Montpellier II – Montpellier, France, her Master of Science in Biomedical Engineering in 1993 from Université Paris XIII/Galileo Institute, Paris, France and a Bachelor of Science in Biochemistry from Université des Sciences Montpellier II – Montpellier, France.

#### **HANDLER, Philana S.**

Philana S. Handler is an associate at the firm of Whitham, Curtis, Christofferson & Cook. Ms. Handler has worked in the field of intellectual property for nearly a decade since joining the firm of Whitham, Curtis, Whitham & McGinn in 1997. She received the degree of Bachelor of Science in Psychology from the George Mason University in 2000. While an undergraduate, Ms. Handler was a member of the Honor Committee, as well as president of the Judicial Board of the George Mason University. Ms. Handler received her law degree, with honors, from the David A. Clarke School of Law in 2004. During law school, Ms. Handler assisted in the development of small businesses and nonprofit organizations; her duties included filing government forms, preparing contracts, and trademark work. In addition, during law school, Ms. Handler advocated on behalf of children in need of special education services.

Currently, Ms. Handler primarily handles trademark, copyright, and unfair competition matters, as well as litigation matters. She also heads up the firm's patent annuity program. Ms. Handler is involved in a supporting role in patent matters concerning mechanical and biological technologies and also works on various contract and licensing matters.

#### **HANNA, Kathi E.**

Kathi E. Hanna has over 25 years of experience in science and health policy as an analyst, writer, and editor specializing in biomedical research policy and bioethics. She served as Research Director and Editorial Consultant to President Clinton's National Bioethics Advisory Commission (NBAC) and directed the completion of NBAC's reports. In the mid-1990s, Dr. Hanna was Senior Advisor on Reproductive Health to the Advisory Committee on Gulf War Veterans Illnesses. More recently, she served as the lead author and editor of President Bush's Task Force to Improve Health Care Delivery for Our Nation's Veterans. In the 1980s and 1990s, Dr. Hanna was a Senior Analyst at the congressional Office of Technology Assessment, where she contributed to numerous science policy studies requested by congressional committees on science education, research funding, biotechnology, women's health, human genetics, bioethics, and reproductive technologies. In the past two decades, she has served as an analyst and editorial consultant to the Howard Hughes Medical Institute, the National Institutes of Health, the U.S. National Academies, the U.S. Office for Human Research Protections, and various charitable foundations, voluntary health organizations, and biotechnology companies. Before moving to the Washington, D.C.,



area, she was the Genetics Coordinator at Children's Memorial Hospital in Chicago, where she directed clinical counseling and coordinated an international research program in prenatal diagnosis. Dr. Hanna received an A.B. in Biology from Lafayette College, an M.S. in Human Genetics from Sarah Lawrence College, and a doctorate from George Washington University. She is currently Senior Vice President at Styllus, LLC, a medical and scientific writing company based in the Boston and Washington, D.C., areas.

#### **HANSEN, Stephen A.**

Stephen A. Hansen is Project Director with the Science & Human Rights Program. His work currently focuses on projects that relate to the effects of intellectual property rights on science, particularly those that relate to traditional knowledge and human rights. He serves as the Project Manager for an AAAS project: Science & Intellectual Property in the Public Interest (SIPPI). He is co-author of the handbook *Traditional Knowledge and Intellectual Property*. He also designed the Traditional Ecological Knowledge Prior Art Database (T.E.K.\*P.A.D), an online digital archive of traditional practices from local communities throughout the world that are already in the public domain. Mr. Hansen's other main area of work is in economic, social, and cultural rights (ESCR); he has worked with the United Nations Committee on Economic, Social and Cultural Rights and UNESCO in this capacity. He is the author of a chapter on cultural rights in the AAAS publication *Core Obligations: Building a Framework for Economic, Social and Cultural Rights*. He has also been involved in violations monitoring and documentation and has authored *The Thesaurus of Economic, Social and Cultural Rights*. He has directed projects with the National Commission for Human Rights in Honduras, as well as the Centro de Estudios Legales y Sociales (Center for Legal and Social Research, CELS) in Buenos Aires, Argentina. Mr. Hansen holds a Bachelor's degree in Anthropology from Oberlin College and an M.A. in Anthropology from The George Washington University in Washington, D.C.

#### **HARNER-JAY, Claudia**

Claudia Harner-Jay is a program officer with PATH's Technology Solutions Strategic Program. Her major responsibilities include creating and implementing commercialization strategies for health technologies; managing intellectual property issues; identifying potential partners and performing due diligence; and negotiating collaboration agreements. She also serves as team leader or project manager for select health technology initiatives. While at PATH, Ms. Harner-Jay has managed numerous market research studies to help refine product development activities, identify potential partners, and inform introduction strategies. Before joining PATH, Ms. Harner-Jay was a business development manager at Monsanto Life Sciences Company and helped develop the market for agricultural products produced by small farmers in low-resource settings in Latin America. In addition, she has worked with coffee farmers in Central America, where her findings and recommendations led to a US\$50 million World Bank loan for the coffee industry in El Salvador. Ms. Harner-Jay also worked for UBS in Zurich, where she earned a Swiss Banking Diploma. She holds an M.B.A. and an

M.S. in environmental policy from the University of Michigan and a B.A. in international affairs from the University of Puget Sound. She is fluent in both Spanish and German.

#### **HARNEY, Dennis J.**

Dennis J. Harney is an attorney at Sonnenschein Nath & Rosenthal LLP, where he is a member of the Intellectual Property and Technology Practice Group. His practice encompasses all areas of intellectual property law, including preparation and prosecution of patent applications in the United States and foreign countries. Dr. Harney's work focuses primarily on biotechnology and biochemical patent preparation and prosecution, including patents for transgenic plants and bacteria; novel DNA and protein sequences; and biological, chemical, and pharmaceutical therapeutics. Dr. Harney's practice also encompasses validity/invalidity and infringement opinions and counseling related to patentability and freedom to operate.

In 2003, Dr. Harney earned a J.D. from University of Dayton School of Law, where he graduated first in his class; in 2003, he earned a Ph.D. in Botany from Miami University, where he specialized in plant stress physiology; and in 1996, he earned an M.S. in Botany from Miami University, where he studied plant secondary product chemistry.

Dr. Harney is a member of the American Intellectual Property Law Association (AIPLA); the Intellectual Property Owner's Association (IPO); the Missouri Bar Association; and the American Society of Plant Biologists. Dr. Harney has served on the AIPLA Biotechnology Committee and currently serves on the IPO Committee for Genetic Resources and Traditional Knowledge. Dr. Harney is also an adjunct professor at Saint Louis University School of Law, where he teaches a course titled "Biotechnology and the Law."

#### **HEHER, Anthony D.**

Anthony D. Heher has a longstanding interest in research and innovation and the contribution that they can make to economic and social development. His experience includes 12 years at South Africa's Council for Scientific and Industrial Research (CSIR); 16 years as founder and CEO of a high-tech spinout company based on his doctoral research; and ten years working in economic development, including two years at the South African Department of Trade & Industry, where he was Chief Director for Industrial Promotion in 1997 and head of the national economic cluster program. From 2000 to 2005, he was Director of UCT Innovation at the University of Cape Town. In 2006, he rejoined AfED, an economic and business consultancy that he founded in 1998. He is actively involved in a projects ranging from entrepreneurship development to economic development through public-private partnerships. He was instrumental in the establishment of the Southern African Research & Innovation Management Association (SARIMA) in 2001 and was its founding President. SARIMA is focused on capacity building and linking the various players in the research and innovation spectrum so that they can cooperate more effectively. He has a Ph.D. in engineering. He has had a varied academic career: he is a graduate of the Universities of Natal, Pretoria, and California in Physics, Mathematics,

Electrical Engineering, Mechanical Engineering and Computer Science; he also holds an executive M.B.A. from Wits Business School. He has remained an active researcher his whole working life, although his research output has taken rather varied forms!

#### **HENNESSEY, William O.**

William Hennessey is Professor of Law at the Franklin Pierce Law Center. He directed Pierce Law's graduate programs in intellectual property and summer from 1986 until 2003. A noted IP expert, author, and lecturer, he recently directed the fourth annual Pierce Law Intellectual Property Summer Institute at Tsinghua University School of Law in Beijing, China. He co-authored a legal casebook on international IP law and policy.

Professor Hennessey has served as a legal advisor to the governments of Indonesia and the People's Republic of China and has served as a consultant to the World Bank, Asian Development Bank, United Nations Development Programme, U.S. Agency for International Development, U.S. Department of State, and the U.S. Patent and Trademark Office. He has also served as consultant for the World Intellectual Property Organization in many countries on various issues concerning IP protection and economic development.

#### **HERSEY, Karen**

Karen Hersey is Visiting Professor of Law at the Franklin Pierce Law Center in Concord, New Hampshire. Professor Hersey recently retired as Senior Counsel for intellectual property at Massachusetts Institute of Technology where she represented M.I.T.'s interests on intellectual property matters with a variety of constituencies including industrial research partners and both U.S. and foreign governments. In 1992, she served as the academic community's representative to a Congressionally mandated Department of Defense Government-Industry Advisory Committee on Rights in Technical Data and Computer Software to study and recommend changes in the Department of Defense Procurement Regulations in the areas of technical data and computer software. She publishes widely in the area of intellectual property law as it impacts institutions of higher education. Professor Hersey is a past President of the Association of University Technology Managers (AUTM). In addition to offering courses dealing with technology transfer for nonprofit organizations and intellectual property management in universities, she also teaches U.S. Copyright Law. She received her B.A. from Goucher College and her LL.B. from Boston University School of Law.

#### **HIEP, N. T.**

A doctoral graduate from Komarov Botanical Institute of the Russian Academy of Sciences, St. Petersburg, Russia, Dr. Nguyen Tien Hiep's expertise is in plant taxonomy, evolutionary biology, and ecology, specializing on the studies of the flora of Vietnam. As a senior scientist at the Institute of Ecology and Biological Resources of the Vietnamese Academy of Science and Technology, Hanoi, he is best known for his research output in the study of the cycads and other gymnosperms of Vietnam. He has served as coordinator of many international collaborative projects, especially projects between the Institute of Ecology and Biological Resources and

Museum National D'Histoire Naturelle, Paris, France, and the Missouri Botanical Garden, St. Louis, USA. Since 1998, he has served as a Project Co-Leader of an ICBG Program, with responsibility in biotic survey of the Cuc Phuong National Park.

#### **HINES, Sally**

Sally Hines is the Administrative Services Manager of the Office of Technology Licensing (OTL) at Stanford University. She has been with the Stanford OTL since its beginning in 1970 and was instrumental in setting up many office procedures that are still in use. The Stanford OTL has increased its staff from two people in 1970 to approximately 30 people today. Ms. Hines handles office management, facilities management, equity management, human resources, and the \$4M operating budget for the office. She has also been involved with the Association of University Technology Managers (AUTM) since its inception and has served on its Board. She currently serves as Chairperson of the AUTM TOOLS course for administrative staff.

#### **HOPE, Janet**

Janet Hope is a qualified biochemist and molecular biologist, as well as a former practicing lawyer. She has published in the fields of constitutional, criminal, administrative, environmental, human rights, and intellectual property law.

In January 2003, she published the first substantial treatise on open-source biotechnology (available at [rsss.anu.edu.au/~janeth](http://rsss.anu.edu.au/~janeth)). Under the supervision of Professor Peter Drahos, she completed her doctoral dissertation on Open Source Biotechnology at the Australian National University in 2004.

Together with colleagues Dianne Nicol and John Braithwaite, Dr. Hope is the recipient of an Australian Research Council grant to investigate a range of collaborative intellectual property mechanisms in the Australian biotechnology industry. Her book *Bio Bazaar: The Open Source Revolution and Biotechnology* will be published by Harvard University Press in late 2007.

#### **HSU, Justin**

Justin Hsu is currently a third year undergraduate Industrial Engineering and Operations Research student at the University of California, Berkeley. Prior to his summer tenure at Fernandez & Associates L.L.P., he was a mechanical engineering intern at Lawrence Berkeley National Laboratory, where he worked on magnetic measurement systems at the Advanced Light Source, a synchrotron radiation facility. His professional and academic interests include intellectual property law, venture capital, stochastic processes, and optimization with applications in finance and operations research. In his spare time, he enjoys football and playing the guitar, among other things. Upon graduation, Justin hopes to attend graduate school and work several years in the Silicon Valley high-tech industry before taking the U.S. patent bar examination.

#### **HUIE, James T.**

James T. Huie earned his bachelor of arts degree in Molecular and Cell Biology, with an emphasis in Biochemistry, at the University of California, Berkeley. Subsequently, Mr. Huie obtained his law degree at Santa

Clara University School of Law. During and after law school, Mr. Huie developed skills in patent prosecution at Fernandez & Associates, LLP. After some time in the patent field, Mr. Huie changed his focus to corporate practice within the venture capital industry. He has practiced in the Silicon Valley at such law firms as Greenberg Traurig, LLP and Wilson, Sonsini, Goodrich & Rosati, PC. Currently an associate at Wilson, Sonsini, Goodrich & Rosati, PC, he represents early-stage and public medical device companies, as well as institutional and venture capital investors, in transactions that involve equity and debt financings, mergers and acquisitions, public offerings, and public filings.

#### **HUNG, N. V.**

Dr. Nguyen Van Hung is Deputy Director of the Institute of Chemistry and Director of Bioorganic Division, Vietnamese Academy of Science and Technology, Hanoi, Vietnam. He is a phytochemist with special expertise in the isolation, structure elucidation, and synthesis of medicinally important compounds, such as the antimalarial drug artemisinin. Early in 2006, he and his chemistry team at the Institute of Chemistry successfully isolated shikimic acid from the starting raw material Chinese star anise fruit, *Illicium verum* Hook. f. (*Illiciaceae*), and using this molecule as a precursor, they successfully synthesized the drug oseltamivir (Tamiflu). Since 1998, he has served as a Co-Project Leader in chemistry of an International Cooperative Biodiversity Groups (ICBG) program with responsibility in the isolation and structure elucidation of biologically active compounds.

#### **IDRIS, Kamil**

Dr. Kamil Idris has been Director General of the World Intellectual Property Organization (WIPO) since November 1997. He is head of the International Union for the Protection of New Varieties of Plants (UPOV). He was formally re-appointed to a second six-year term as Director General of WIPO on May 27, 2003. His mandate will end on November 30, 2009. Formerly, Kamil Idris was a member of the International Law Commission from 1992 to 1996 and from 2000 to 2001.

Kamil Idris holds a Bachelor of Law (LL.B.) from Khartoum University, Sudan; a Bachelor of Arts in Philosophy, Political Science and Economic Theories from Cairo University, Egypt; a master's in International Law and International Affairs from Ohio University, United States; and a Doctorate in International Law from the Graduate Institute of International Studies, University of Geneva, Switzerland.

#### **JACOBY, Erica**

Erica Jacoby, a senior commercialization associate in PATH's Technology Solutions Strategic Program, serves as a resource in the general areas of business planning, market development, and commercialization activities. Her primary responsibilities include identifying, conducting due diligence, and selecting partners; conducting market assessments; developing commercialization strategies; and writing and negotiating legal agreements. In these capacities, she is involved with several different technology development projects at PATH, including needle-free injections, vitamin-fortified rice, neonatal resuscitators, and HIV/STI prevention technologies such as the female condom. Prior to joining PATH,

Ms. Jacoby worked in marketing and research at several organizations, including a diagnostic test manufacturer, the Institute of the Americas, and the Graduate School of International Relations/Pacific Studies at the University of California, San Diego (UCSD). Her overseas experience includes work and study in Mexico, Slovakia, Spain, and Venezuela. She holds a Master's degree in Pacific international affairs, with a concentration in international management, from the University of California, San Diego.

#### **JAHN, Molly**

Molly Jahn holds degrees from Swarthmore College, M.I.T., and Cornell University, and pursued postdoctoral work at U.C. Berkeley. At Cornell, Molly focused her research on plant breeding, genetics, genomics and molecular biology and on the development of improved crop germplasm. Her group at Cornell has produced a number of globally successful crop varieties currently grown commercially on six continents. Molly has worked extensively internationally in Latin America, Asia and Africa to link crop breeding objectives to outcomes that improve human welfare, such as nutritional status and income. Molly was recently named a Fellow of the AAAS and was elected to the Board of Directors of The World Vegetable Center, the international research center for vegetables. On August 1, 2006, she was named the twelfth dean of the College of Agricultural and Life Sciences at the University of Wisconsin - Madison.

#### **JONES, Keith J.**

Keith J. Jones is the Director of the Office of Intellectual Property Administration and the Executive Director of the Washington State University Research Foundation.

Dr. Jones, assisted by a staff of seven, is responsible for the evaluation, patenting, marketing, and licensing of the approximately 70 invention disclosures per year submitted to the Office of Intellectual Property at WSU. WSU is a large research university that produces intellectual property ranging from medical applications to new wheat varieties. WSU intellectual property results in about 15 licenses per year, and last year produced an income of over US\$2 million. Dr. Jones is also responsible for initiating and managing other university technology commercialization activities, including the WSU Research and Technology Park, the Cougar Gap Fund, and the Venture Partner Program. Dr. Jones is frequently invited to speak nationally and internationally on university technology commercialization.

Previously, Dr. Jones was Director of Commercialization-Life Sciences at Virginia Tech for six years. He has experience in international business development at a San Diego Ag-Biotechnology company, Mycogen Corp., where he developed new markets for biotech products in the Middle and Far East. He worked for two years as a scientific advisor at one of the most prestigious intellectual property litigation law firms in the U.S. He was a USAID contractor for two years, during which time he was involved with university development based in Sumatra, Indonesia.

He has a Ph.D. from North Carolina State University in Plant Pathology and holds three issued patents and one pending patent.

**JORDA, Karl F.**

Karl F. Jorda is the David Rines Professor of Intellectual Property Law as well as the Director of the Germeshausen Center for the Law of Innovation and Entrepreneurship at Franklin Pierce Law Center, where he primarily teaches Technology Licensing and IP Management. From 1995 to 2003, he also taught International IP Law as Adjunct Professor at the Fletcher School of Law and Diplomacy, Tufts University. Before joining Pierce Law in 1989, he was Chief IP Counsel for 26 years at CIBA-GEIGY Corporation (now Novartis, Syngenta, and Ciba Speciality Chemicals).

Dr. Jorda was President of the Pacific Intellectual Property Association (PIPA) and the New York Intellectual Property Law Association. He served on the Boards of Directors of AIPLA, ABA-IPL Section, INTA, IPO, ACPC and AIPPI-American Group. Dr. Jorda is also the recipient of several rewards: the 1996 Jefferson Medal of the NJIPLA, “the United States’ highest honor in intellectual property,” for “extraordinary contributions to the U.S. intellectual property law system”; the 1989 PIPA medal for “Outstanding Contributions to International Cooperation in the Intellectual Property Field”; and the 1998 Distinguished Alumni Award of the University of Great Falls. In 1990 and 1991, he served as a consultant to the Indonesian and Bulgarian IP offices. From 1999 to 2005, he was the U.S. Representative to the Confidentiality Commission of the Organization for the Prohibition of Chemical Weapons in The Hague, Netherlands.

Dr. Jorda received his undergraduate degree (summa cum laude) from the University of Great Falls, and an M.A. and a J.D. from Notre Dame University. He is admitted to the bars of Illinois, Indiana, and New York as well as to practice before the U.S. Supreme Court, the Court of Appeals for Federal Circuit, and the U.S. and Canadian Patent and Trademark Offices. He is a frequent speaker in IP programs in foreign countries under the auspices of WIPO, USAID, USIA, IESC, etc. He has lectured in 41 countries, 27 of them developing countries, including Madagascar and Mongolia.

**KAMPE, Roger**

Roger Kampf is from Hamburg, Germany. He joined the World Trade Organization in May 2004 and works as Counsellor in the Intellectual Property Division. He is responsible for the Secretariat’s work in the area of TRIPS and public health and enforcement, as well as for providing technical assistance in relation to intellectual property. Mr. Kampf previously worked for the European Commission, both at its headquarters in Brussels and at its permanent representation in Geneva; from 1998 to 2004, he was responsible for intellectual property issues in WTO and WIPO, as well as for government procurement. Previously, he was involved in negotiating financial services under the GATS Agreement (the General Agreement on Trade in Services), and also worked as an assistant in public law and European Communities law at the University of Hamburg. Mr. Kampf holds a law degree from the University of Hamburg and a degree in public administration from the Ecole Nationale d’Administration in Paris. He has published on various aspects of EC and WTO law.

**KARJALA, Dennis S.**

Dennis S. Karjala was an engineering/physics major at Princeton University and holds a Ph.D. in electrical engineering from the University of Illinois (1965). He received his J.D. from the University of California, Berkeley, in 1972, where he was editor-in-chief of the California Law Review and Order of the Coif. After five years of private practice in San Francisco, Dr. Karjala joined the College of Law at Arizona State University in January 1978 as Associate Professor. He has been a Professor of Law since the fall of 1981 and currently holds the Jack E. Brown Chair. His teaching and research are primarily in the area of intellectual property law, especially copyright and the application of intellectual property law to digital technologies. He has also taught and written on the subjects of corporate and securities law and federal income taxation. Dr. Karjala has also done some comparative work on Japanese copyright and corporate law. Dr. Karjala was active in the opposition to the 1998 Sonny Bono Copyright Term Extension Act and in the *Eldred* case, which unsuccessfully challenged the constitutionality of the Copyright Term Extension Act.

**KEEVEY-KHOTARI, Simon**

Simon Keevey-Khotari is an English-qualified barrister who specializes in intellectual property and commercial transactions. He spent more than five years with Anderson & Company, most of which was spent on a long-term secondment with Imperial Innovations Limited, the technology transfer company of Imperial College, London. He has also co-authored a book with Mark Anderson titled *Drafting Confidentiality Agreements*, 2<sup>nd</sup> ed. (The Law Society of England and Wales 2004).

**KEILLER, Todd S.**

Todd S. Keiller has more than 30 years of licensing, business development, and marketing experience. He has worked for 16 years in the industrial sector in a variety of sales, marketing, and business development roles, ten of which were in the Science and Medical Products Divisions of Corning Glass Works. He has over 16 years of academic licensing experience and is the former Vice President, Ventures of the Brigham and Women’s Hospital in Boston. In 1998, Todd joined the University of Vermont and assisted the College of Medicine in technology affairs. In 1999, he was appointed Director of Technology Transfer for the entire University. He also handles technology transfer for Maine Medical Center, Caritas St. Elizabeth’s Medical Center of Boston, and Boston Biomedical Research Institute. Mr. Keiller has contributed to the foundation of seven companies, the most recent of which are Nephromics (a company focused on the diagnosis of preeclampsia), Vascular Genetics, Inc. (a gene therapy company, now traded publicly under the name of CorAutus), and Tolerance Pharmaceuticals (a diagnostic and therapeutic company devoted to transplantation, which was purchased by Roche). Mr. Keiller holds an A.B. from Dartmouth College and an M.B.A. from the Tuck School of Business Administration.

**KESAN, Jay P.**

Jay P. Kesan is Professor and Director of the Program in Intellectual Property and Technology Law at the

University of Illinois at Urbana-Champaign. His academic interests and writings are in the area of patent law, cyberlaw, and law and technology. Some of his recent scholarly work is focused on computer software and agricultural biotechnology. He is a registered patent attorney and received his J.D. *summa cum laude* from Georgetown University. He also has a Ph.D. in Electrical and Computer Engineering from the University of Texas at Austin and worked for several years as a research scientist at the IBM T.J. Watson Research Center in New York. For a more complete biography, please see [www.jaykesan.com](http://www.jaykesan.com).

#### **KEUSCH, Gerald T.**

Professor Jerry Keusch is Associate Provost and Associate Dean for Global Health at Boston University and Director of the university's Global Health Initiative. He is a physician-scientist, whose career has focused on the study of infectious diseases of developing countries at the laboratory and field levels. He has received all three of the major recognition awards of the Infectious Diseases Society of America for this work, including the Squibb, Finland and Bristol Awards. Professor Keusch is a member of Institute of Medicine at the U.S. National Academies, where he serves on its Board on Global Health. He is also a member of the Roundtable on Science and Technology for Sustainability at the National Research Council and its Task Force on Linking Knowledge with Action for Sustainable Development, both at the U.S. National Academies.

Prior to joining Boston University Professor Keusch was the Associate Director for International Research and Director of the Fogarty International Center at the U.S. National Institutes of Health. During his tenure funding for global health research and capacity building dramatically increased. Among the innovations he initiated were explorations into the creative use of intellectual property rights deemed to NIH grantees to insure that developing countries could benefit from discovery funded by public resources. His work in this area, together with the Rockefeller Foundation, led to the formation of the Center for the Management of Intellectual Property in Health Research (MIHR). He served on the Founding Board of MIHR and has subsequently been Vice-Chair of the MIHR Board.

#### **KHUSH, Gurdev Singh**

Dr. Khush was born in a small village in Punjab. After receiving his education at the Punjab Agricultural University and the University of California, Davis, Dr. Khush, in 1967, joined the International Rice Research Institute in the Philippines where he served as the Head of Plant Breeding, Genetics, and Biochemistry Division until 2002. As a result of wide-scale adoption of his high-yielding varieties, rice production increased 135% between 1967 and 2000, to feed an estimated one billion additional consumers. His contributions to rice genetics and biotechnology are equally well recognized. He has written three books, more than 80 book chapters and 160 research papers.

Dr. Khush has served as consultant to rice breeding programs of 15 countries as well as The Rockefeller Foundation, the Third World Academy of Sciences, Italy, and the International Science Foundation,

Sweden. He is now serving as a member of Scientific Advisory Committee (overseas) to the Department of Biotechnology, Government of India and member of Science Council, an advisory body to Chinese Academy of Agricultural Sciences, Beijing.

For his monumental contributions to the World Food Security, Dr. Khush has been honored with numerous awards and honors such as the Japan Prize (1987), World Food Prize (1996), Rank Prize (1998), Wolf Prize (2000), International Scientific and Technological Cooperation Award from the Government of China (2001), and Padma Shriaward from the president of India. He is one of five Indian scientists who have been elected to membership of Royal Society (FRS) as well as the U.S. National Academy of Sciences. Dr Khush has received Doctor of Science, *honoris causa*, degrees from nine universities including from University of Cambridge in England and Ohio State University.

Commenting on his life work, Dr. Cantrell, Director of the International Rice Research Institute said, "While Dr. Khush's name may have passed the lips of many, his life's work has passed the lips of almost half of humanity."

#### **KOWALSKI, Stanley P.**

Stanley P. Kowalski was born and grew up in a working-class neighborhood in Pittsburgh, Pennsylvania, where he attended Catholic primary and public high school. He matriculated at the Pennsylvania State University, and later at the University of Pittsburgh, earning B.S. degrees in horticulture and biology, with emphases in genetics and biochemistry. Later, he earned a Ph.D. in plant breeding from Cornell University. Dr. Kowalski's experience as a research scientist has included studies of plant nutrition at the Pennsylvania State University, wheat breeding at the University of Nebraska, purification and characterization of DNA polymerases at the University of Rochester, biochemical characterization of insect resistance in potatoes at Cornell University, lipid-mediated signal transduction at the National University of Singapore, plant genome mapping at Texas A&M University, glycolipid biosynthesis at Cornell University, and a study of the biochemical/genetic basis of plant/insect interactions at the U.S.D.A. Beltsville Agricultural Research Center. He has been long interested in international development, due both to his exposure to the dynamic international programs at Cornell and the influence of Professor Norman Borlaug, whose office was located directly across the hall from Dr. Kowalski's laboratory at Texas A&M University.

The second phase of Dr. Kowalski's career has been defined by a transition from research to international work. He received a foreign language area studies scholarship and completed Cornell's one-year intensive Chinese-language program (Chinese FALCON). Subsequently, he worked for the International Service for the Acquisition of Agri-Biotech Applications (ISAAA) in the intellectual property/technology transfer initiative, during which time he conducted the preliminary freedom-to-operate analysis of *GoldenRice*. After working at ISAAA, he earned a J.D. with an emphasis in intellectual property at the Franklin Pierce Law center. He has published numerous research and legal articles.

**KRATTIGER, Anatole**

Anatole Krattiger, a Swiss citizen, began his career as a farmer, lived in many parts of the world, and is currently a research professor at the Biodesign Institute at Arizona State University (ASU). As adjunct professor at the Sandra Day O'Connor College of Law at ASU, he co-teaches a course on innovation management and controversies in health and agri-biotechnology. He is an Adjunct Professor at Cornell University where he co-teaches a course on IP management in the life sciences. He founded, and serves as Chairman of, *bioDevelopments-International Institute*, a nonprofit organization that brings people together to jointly develop solutions to problems that extend beyond geographic and cultural frontiers. He recently served as Executive to the Humanitarian Board for *GoldenRice*, a position that required him to work on licensing, technology transfer, and regulatory issues; he also served as Director of Research at MIHR in the U.K. during its formative years. In the early 1990s, he contributed to the international establishment of ISAAA, a global agri-biotechnology broker developing public-private partnerships in agriculture; he served as executive director of ISAAA until 2000. He also briefly worked on biodiversity-policy issues at the International Academy of the Environment in Geneva, Switzerland, and as a scientist in biotechnology at CIMMYT in Mexico.

Dr. Krattiger is a member of the Advisory Council on Intellectual Property of the Franklin Pierce Law Center in Concord, New Hampshire, and a member of the board of the Black Sea Biotechnology Association. He is editor-in-chief of *Innovation Strategy Today* and a member of the editorial boards of the *International Journal of Biotechnology* and the *International Journal of Technology Transfer and Commercialization*. He was a Distinguished Advisor to the Council for Biotechnology Information in Washington, D.C., until the Council merged with BIO. He holds a diploma in farming, a bachelor's degree in agronomy from the Swiss Agricultural College, a master's degree in plant breeding, and a Ph.D. in biochemistry and genetics from the University of Cambridge, U.K.

**LASHER, Heidi**

Heidi Lasher is a freelance writer and communications consultant. Her work spans a range of health topics from immunization and vaccines to HIV/AIDS, reproductive health, and financial sustainability. Formerly a communications officer for the Children's Vaccine Program at PATH, Ms. Lasher worked extensively in Andhra Pradesh, India on an immunization-strengthening and hepatitis B vaccine introduction project. Before working at PATH, Ms. Lasher was a project manager for a Seattle-based strategic communications consulting firm. Ms. Lasher now provides freelance services to various international public health organizations in training, facilitation, writing and editing, media relations, and advocacy. Ms. Lasher and her family live in Bozeman, Montana.

**LESSER, William H.**

William Lesser has been in the Department of Applied Economics and Management at Cornell University since receiving his Ph.D. in agricultural economics, with a specialization in marketing, from the University

of Wisconsin in 1978. Early on at Cornell he was an innovator in the application of PCs to food distribution, writing some of the earliest specialized software. Much of the time has, however, been focused on the farm and consumer level effects of biotechnology on agriculture. A particular specialization is the ramifications of patents and Plant Breeders Rights. In a related area, he has examined ownership of and access to genetic resources. Work has involved advising the governments of Brazil, Bangladesh, Switzerland and Indonesia, among others. He has written three books and numerous articles and chapters on the subject of agricultural biotechnology. His teaching has included export marketing, international marketing, and futures and options. In 2003, he was appointed as Chair of the Department of Applied Economics and Management at Cornell.

**LIU, Connie Kang**

Connie Liu has a B.Eng. in biomedical engineering from the Huazhong University of Science and Technology in China and a Master's degree in biotechnology from the University of Toronto. She was a bioprocess engineer at a large biotech company in China before joining the academic research community as a researcher at Hong Kong Polytechnic University. She has industrial experience in project management and technology transfer from academia to industry. She has also received training in Chinese and Canadian intellectual property law, including intellectual property policy and strategies. Her interests revolve around innovation and intellectual property in the biotech and pharmaceutical industries; she has special interest in the commercialization of academic research, licensing technologies, firms' research strategies, and intellectual property management. She was a Research Associate to Dr. Maryann Feldman from 2004 to 2006. Currently, Ms Liu is an M.B.A. candidate at the Rotman School of Management at the University of Toronto.

**LIVNE, Oren**

Oren Livne is currently the Associate Director for Licensing at the University of California, Santa Barbara (UCSB). He is a founding member of UCSB's first on-campus technology transfer office, the Office of Technology and Industry Alliances. He oversees the patenting and licensing of all inventions developed at UCSB. He has the pleasure of directly managing a significant number of inventions, including those produced by UCSB's world-renowned Solid State Lighting & Display Center. Prior to joining UCSB, he was based at the University of California's Office of The President. He serves as a mentor to UCSB's chapter of Engineers Without Borders, whose mission is to improve quality of life through environmentally and economically sustainable engineering projects. He is also an advisor to students in UCSB's Technology Management Program, which aims to educate the next generation of technology-based entrepreneurs. He is a registered patent agent with several pending and issued patents of his own.

**LUND, Brett**

Brett Lund has represented and counselled dozens of life science and technology companies in the areas of technology transfer, company formation, venture capital financings, licensing, mergers and acquisitions, and

initial public offerings. Mr. Lund served as a corporate attorney specializing in emerging growth companies at the San Diego office of the law firm Cooley Godward LLP, where he represented a wide range of companies including Maxim Pharmaceuticals, Qualcomm, Acadia Pharmaceuticals, Vertex Pharmaceuticals, AMCC, and the Titan Corporation. Mr. Lund left Cooley Godward to become the Associate General Counsel for Ford Motor Company's telematics division. At Ford, he helped to develop a nationwide wireless voice/data network, in-vehicle hardware, and associated services.

Mr. Lund has also worked in Marketing and Product Development for Johnson & Johnson's diabetes group, and served as Business Development Manager for Incyte Genomics. He is currently the Licensing Manager for Syngenta Biotechnology and is primarily responsible for developing alliances in their BioFuels business. Mr. Lund holds a Masters in Business Administration from the Fuqua School of Business at Duke University, a Juris Doctorate from Duke Law School, and a Bachelors degree in political science from the University of California, San Diego. He is a member of the California Bar Association, North Carolina Bar Association, Association of University Technology Managers, and the Licensing Executives Society.

#### **MACWRIGHT, Robert S.**

Robert S. MacWright is Executive Director and CEO of the University of Virginia Patent Foundation, which evaluates, protects, and licenses inventions that originate from research performed at the University of Virginia (UVA). In addition, Dr. MacWright is the founder and President of Spinner Technologies, Inc., a UVA Patent Foundation subsidiary that encourages and assists faculty entrepreneurs and their start-up companies. Dr. MacWright also led Spinner's efforts to create the Jefferson Corner Group, an angel investment fund focused on UVA start-ups. He has been Executive Director of the UVA Patent Foundation since 1997.

Dr. MacWright joined the university licensing profession in 1985, when he became Assistant Director of the Rutgers University Office of Corporate and Industrial Research Services. He initiated the first independent patent and licensing program at Rutgers, and served as Director of the Rutgers Office of Corporate Liaison and Technology Transfer from 1988 to 1992.

Dr. MacWright holds a Ph.D. in biochemistry from Rutgers University and the University of Medicine and Dentistry of New Jersey, and has carried out postdoctoral and industrial research in molecular genetics and protein chemistry. He also holds a law degree from Rutgers Law-Newark. He is a Registered U.S. Patent Attorney, and is admitted to practice in New York, New Jersey, and Virginia. He formerly practiced law in the New York City IP firm of Kenyon & Kenyon, and also in the intellectual property department of Skadden, Arps, Slate, Meagher & Flom, LLP, a well-known New York mergers and acquisitions firm.

#### **MAHONEY, Richard T.**

Richard T. Mahoney is Director, Vaccine Access, for the Pediatric Dengue Vaccine Initiative, a program of the International Vaccine Institute (IVI) in Korea. Previously, he was Research Professor in the School of

Life Sciences and in the Biodesign Institute of Arizona State University. As a consultant to the Rockefeller Foundation, he played a lead role in the consultative process that led to the formation of MIHR. Previously, he was responsible for institutional development in the establishment and launching of the IVI in Seoul, Korea. In this role, he was responsible for cultivating relations with vaccine manufacturers and managing intellectual property, among other things. Dr. Mahoney has had a long career in public health and is known for his work with the International Task Force on Hepatitis B Immunization, accomplished while he was with the Program for Appropriate Technology in Health (PATH). Before co-founding and joining PATH, he was a Program Officer in Population with the Ford Foundation. He oversaw the development and implementation of IP management policies for the Ford Foundation, PATH, and IVI. Prof. Mahoney continues to write on policy and economic research.

#### **MANGENA, Mosibudi**

Mosibudi Mangena is the Minister of Science and Technology in South Africa and President of the Azanian People's Organisation (AZAPO). He was born in Tzaneen, matriculated from Hebron Training College in 1969, and received an M.Sc. degree in Applied Mathematics from the University of South Africa (called the University of Azania on the AZAPO website). He joined the South African Students' Organisation (SASO) and was elected to the Student's Representative Council at the University of Zululand in 1971. Moving back to Pretoria, he became chairperson of the SASO Pretoria branch in 1972. He chaired the Botswana region of the Black Consciousness Movement of Azania (BCMA) in 1981 and the BCMA central committee from 1982 to 1994. He returned from exile in 1994 and became leader of Azapo. He was appointed Deputy Minister of Education in South Africa by Nelson Mandela in 2001, and became Minister of Science and Technology in 2004.

#### **MARCHANT, Gary**

Gary Marchant is the Lincoln Professor Emerging Technologies, Law and Ethics at the Sandra Day O'Connor College of Law at Arizona State University. He is also a Professor of Life Sciences at ASU and Executive Director of the ASU Center for the Study of Law, Science and Technology. Professor Marchant has a Ph.D. in Genetics from the University of British Columbia, a Masters of Public Policy degree from the Kennedy School of Government, and a law degree from Harvard. Prior to joining the ASU faculty in 1999, he was a partner in a Washington, D.C. law firm, where his practice focused on environmental and administrative law. Professor Marchant teaches and researches in the subject areas of environmental law, risk assessment and risk management, genetics and the law, biotechnology law, food and drug law, legal aspects of nanotechnology, and law, science, and technology.

#### **MASHELKAR, R.A.**

Dr. R.A. Mashelkar is presently the President of the Indian National Science Academy (INSA) and President of Global Research Alliance (GRA), a network of publicly funded R&D institutes from five continents with

over 60,000 scientists. Prior to this, for over eleven years Dr. Mashelkar served as the Director General of Council of Scientific and Industrial Research (CSIR), an organization with thirty-eight laboratories and about 20,000 employees. His leadership transformed CSIR into a user-focused, performance-driven organization, a process of transformation that has been recently heralded as one of the ten most significant achievements of Indian Science and Technology in the 20th century.

Dr. Mashelkar is only the third Indian engineer to have been elected as a Fellow to the Royal Society (FRS), London, in the 20th century. He was elected Foreign Associate of the National Academy of Science (U.S.) in 2005, and was only the eighth Indian since 1863 to be elected. He was elected a Foreign Fellow of the U.S. National Academy of Engineering (2003), Fellow of the Royal Academy of Engineering (U.K.) in 1996, and Fellow of the World Academy of Art & Science (U.S.) in 2000. Twenty-six universities have honored him with honorary doctorates, including the universities of London, Salford, Pretoria, Wisconsin, and Delhi. He is currently the President of the Materials Research Society of India.

In post-liberalized India, Dr. Mashelkar has played a critical role in shaping the country's S&T policies. He was a member of the Scientific Advisory Council to the Prime Minister and also of the Scientific Advisory Committee to the Cabinet set up by successive governments.

Dr. Mashelkar has won more than 50 awards and medals, including the S.S. Bhatnagar Prize (1982), the Pandit Jawaharlal Nehru Technology Award (1991), the G.D. Birla Scientific Research Award (1993), the Material Scientist of Year Award (2000), the IMC Juran Quality Medal (2002), the HRD Excellence Award (2002), the Lal Bahadur Shastri National Award for Excellence in Public Administration and Management Sciences (2002), the World Federation of Engineering Organizations (WFEO) Medal of Engineering Excellence by WFEO, Paris (2003), the Lifetime Achievement Award by the Indian Science Congress (2004), the Science Medal by the Academy of Science for the Developing World (2005), and the Ashutosh Mookherjee Memorial Award by the Indian Science Congress (2005), among others.

The President of India honored Dr. Mashelkar with the Padmashri (1991) and with the Padmabhushan (2000), which are two of the highest civilian honors in India, in recognition of his contribution to nation building.

#### **MATTHEWS, Duncan**

Duncan Matthews is Senior Lecturer in Intellectual Property Law. He has acted as a consultant to the Directorate General Trade of the European Commission, the ECAP/IEC-ASEAN Intellectual Property Rights Cooperation Programme, and the Science and Intellectual Property in the Public Interest Program (SIPPI) of the American Association for the Advancement of Science (AAAS). He holds an Economic and Social Research Council (ESRC) research grant on NGOs, Intellectual Property Rights, and Multilateral Institutions. He is the author of the following publications: "From the August 30, 2003 WTO Decision to the December 6, 2005 Agreement on an Amendment to TRIPS: Improving

Access to Medicines in Developing Countries?" [2006] 10 *Intellectual Property Quarterly* 91-130, ISSN: 1364-906X; "TRIPS Flexibilities and Access to Medicines in Developing Countries: The Problem with Technical Assistance and Free Trade Agreements" [2005] 27 *European Intellectual Property Review* 420-427, ISSN: 0142-0461; "Is History Repeating Itself? The Outcome of Negotiations on Access to Medicines, the HIV/AIDS Pandemic and Intellectual Property Rights in the World Trade Organisation" [2004] 1 *Law, Social Justice and Global Development Journal* (LGD), ISSN: 1467-0437; "The WTO Decision on Implementation of Paragraph 6 of the Doha Declaration on the TRIPs Agreement and Public Health: A Solution to the Access to Essential Medicines Problem?" [2004] 7(1) *Journal of International Economic Law* 73-107, ISSN: 1369-3034; "A Strategic Approach to Managing Intellectual Property" (Co-author with J. Pickering and J. Kirkland) in R. Blackburn (Editor), *Intellectual Property and Innovation Management in Small Firms*, London: Routledge, 2003, 35-54, ISBN: 0415228840; *Globalising Intellectual Property Rights: The TRIPs Agreement*, London: Routledge, 2002 ISBN: 041522327X.

#### **MCCBRIDE, Timothy B.**

Timothy B. McBride is an attorney for the intellectual property law firm of Senniger Powers. Mr. McBride's practice includes all areas of intellectual property law, including the preparation and prosecution of patent applications in the United States and abroad. His work is focused in the following areas: preparation and prosecution of patents in the fields of biotechnology, molecular biology, immunology, and animal science, including patents for transgenic plants and bacteria, novel DNA and protein sequences, vaccines, gene therapeutics, and diagnostics; validity/invalidity and infringement opinions; and counseling related to patentability and freedom to operate.

Mr. McBride received his Bachelor of Science degree in Neurobiology and Animal Physiology from Purdue University in 1996. He received his Bachelor of Arts degree in Psychology from Purdue University in 1997 and his Juris Doctorate from Indiana University School of Law-Indianapolis in 2001. Mr. McBride is also an adjunct professor in the School of Engineering and Applied Science at Washington University, where he teaches a course on intellectual property for engineers and scientists.

#### **MCCALLA, Alex F.**

Alex is Professor of Agricultural and Resource Economics, Emeritus, at the University of California, Davis. He was born in Alberta, Canada, and received his first two degrees from the University of Alberta before moving on to the University of Minnesota where he received his doctorate in Agricultural Economics in 1966. Throughout his academic career he was associated with the University of California-Davis where he served as Dean of the College of Agricultural and Environmental Sciences and Associate Director of the California Agricultural Experiment Station (1970-1975) and Founding Dean, Graduate School of Management (1979-1981).

Dr. McCalla is best known for his research in international trade where he has published extensively.



The quality of his research and communication skills has been recognized by the American Agricultural Economics Association, which presented him with its Quality of Communication Award in 1979 and its Quality of Research Discovery Award in 1982. He was elected Fellow of the American Agricultural Economics Association in 1988, Fellow of the Canadian Agricultural Economics Society in 2000, and a Distinguished Scholar of the Western Agricultural Economics Association in 2004. He was a founding member and co-convenor of the International Agricultural Trade Research Consortium. He served as the Chair of the Technical Advisory Committee (TAC) of the Consultative Group on International Agricultural Research (CGIAR) from 1988 to 1994.

He elected early retirement from the University of California in June 1994 and was appointed Director of the Agriculture and Natural Resources Department of the World Bank in Washington, D.C., effective September 12, 1994. During his tenure he led a major effort to revitalize the World Bank's commitment to Rural Development. He was appointed Director of Rural Development in July 1997, following a Bank reorganization. He retired from the World Bank December 31, 1999.

In June 1998 he was awarded the Degree of Doctor of Science, *honoris causa*, by McGill University in Montreal, Canada. On December 28, 1999, he was awarded the Doctor's Degree of Honor by the Georgian State Agrarian University. In September of 2004 he received the Distinguished Alumni Award from the University of Alberta.

He served as Chair of the Board of Trustees of CIMMYT, the International Maize and Wheat Improvement Center with Headquarters in Mexico, (2001–2005) and is a member of the Board of Directors of the Danforth Plant Science Center in St. Louis.

#### **MCCRACKIN, Ann M.**

Ann M. McCrackin is a registered patent attorney and a shareholder of Schwegman, Lundberg, Woessner & Kluth. Her practice focuses on computer architecture, software, and business methods. She also specializes in reexamination practice and international patent protection. Ms. McCrackin holds a Bachelor's degree from Iowa State University, with a major in speech communication and minors in computer science and English (B.S., 1992). She also completed graduate coursework in computer engineering at Iowa State University. Ms. McCrackin received her J.D. from Franklin Pierce Law Center in Concord, New Hampshire, in 1997. At Franklin Pierce, she was a senior editor of *IDEA: The Journal of Law and Technology*. Her legal curriculum concentrated on intellectual property law. Prior to attending law school, she worked for the Center for Advanced Technology Development (CATD) at Iowa State University. At CATD, she analyzed the suitability of commercialization software and negotiated and prepared license agreements for scientific software. Ms. McCrackin is frequently invited to speak on various patent prosecution topics and is a co-editor of *Electronic and Software Patents: Law and Practice*, a treatise published by BNA Books.

#### **MCGEE, David R.**

David R. McGee joined the University of California, Davis in January 2004. He is the Executive Director for Technology and Industry Alliances (TIA), an organization within the Office of Research at U.C. Davis. TIA provides patent and copyright protection and licensing services for the University's intellectual property, and helps faculty and industry collaborate on research projects and spinout companies.

Prior to joining U.C. Davis, Dr. McGee was a consultant in biotechnology and intellectual property strategy. In 1987, Dr. McGee founded Large Scale Biology Corporation (LSBC), a biotechnology healthcare firm that develops new biopharmaceuticals, including patient-specific vaccines in plants using viral vectors. He served as the corporate Executive Vice President and the President of the Biomanufacturing Business Unit at LSBC until June 2003. From 1982 to 1987, Dr. McGee was a founding member and Vice President of Operations at Sungene Technologies Corporation, a plant biotechnology company that improved major commercial crop species using genetic engineering and tissue culture. Dr. McGee received his Ph.D. in genetics from Louisiana State University and served as a faculty instructor of zoology and genetics. Dr. McGee currently serves on the boards of a number of private and non-profit companies.

#### **MEDAKKER, Akshat**

Akshat Medakker is a technology manager at Sathguru Management consultants, where he focuses on a variety of projects relating to intellectual property and technology transfer. Currently, he assists clients in the Indian government as well as the private sector in both India and the U.S. in matters of patenting, negotiation for licensing, and drafting of licensing and other IP agreements. Prior to joining Sathguru, Mr. Medakker oversaw strategic business development for a biotech company in India. He graduated from the University of Sydney with a degree in Molecular Biotechnology and has research experience as a molecular biologist in both Australia and India.

Mr. Medakker is also actively involved in the Society for Technology Management. He coordinates the activities of the association, including course design and the delivery of intensive training for technology managers and researchers in IP rights and technology management.

#### **MIN, Eun-Joo**

Eun-Joo Min is Senior Legal Officer at the Arbitration and Mediation Center of the World Intellectual Property Organization (WIPO). She holds a Ph.D. in law from Yonsei University in Seoul, Republic of Korea, a certificate degree in international law from the Graduate Institute of International Affairs in Geneva, Switzerland, and was a Fulbright Scholar at the University of Michigan Law School. Prior to joining WIPO in February 2000, Dr. Min taught international law and international economic law at the International Division and College of Law at Yonsei University.

At the WIPO Arbitration and Mediation Center, Dr. Min manages arbitration and mediation cases, develops and implements new alternative dispute resolution

(ADR) procedures, develops educational programs on ADR, collaborates in the development of new information technology applications in support of WIPO case administration, and manages relations between the Center and other organizations and users of the WIPO Arbitration and Mediation Center's services. Dr. Min is the co-editor of *Collection of WIPO Domain Name Panel Decisions* (The Hague: Kluwer Law International, 2003) and has written and spoken extensively on ADR and intellectual property.

#### **MONGEON, Marcel D.**

Marcel Mongeon is an Intellectual Property Coach who assists companies and institutions in devising and implementing strategies to help them profit from their intangible assets. He is an experienced international speaker and seminar leader in many fields, including business strategy, understanding legal issues (such as intellectual property management), and negotiations.

Mr. Mongeon is a lawyer qualified to practice in the Canadian provinces of Ontario and Québec as well as in New York. He is a Canadian Registered Patent and Trade-mark Agent. He holds business, law, and science degrees from McGill University (B.Com., LL.B., B.C.L.), McMaster University (M.B.A.), and Swinburne University (M.Sc.). He is a Fellow of the Intellectual Property Institute of Canada. He oversaw all sponsored research, patenting, and commercialization activities of the technology transfer office at McMaster University from 1997 to 2006. He has also had experience in the manufacturing, hospitality, and information technology industries. He has practiced law with major firms in Montréal and Toronto.

Mr. Mongeon is an active Rotarian and has served on the boards of his local chamber of commerce, the Canadian Council of Better Business Bureaus, the international Association of University Technology Managers, and the Canadian University Intellectual Property Group, among others.

#### **MOREL, Carlos**

Dr. Carlos M. Morel is currently the Director of the Centre for Technological Development in Health (CDTS), a new unit being implemented at the Oswaldo Cruz Foundation (FIOCRUZ, Rio de Janeiro, Brazil) to stimulate health product innovation.

A molecular biologist and medical doctor by training, Dr. Morel received his M.D. from the Medical Faculty of the Federal University of Pernambuco. He completed his graduate studies at the Biophysics Institute of the Federal University of Rio de Janeiro and at the Molecular Biology Department of the Swiss Cancer Institute in Lausanne (ISREC), Switzerland. His research has been in the field of molecular parasitology, and he has collaborated with various international organizations and research programs working on neglected diseases and capacity building.

Dr. Morel was previously a Professor at Brasilia University (UnB, Brasilia, Brazil) and President of FIOCRU. He was also Director of the UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR) at the World Health Organization in Geneva, where he established close working relationships with product-development public private partnerships and global

ventures committed to public health. He participated actively in the establishment of the Medicines for Malaria Venture (MMV), the Global Alliance for TB Drug Development (GATB), the Drugs for Neglected Diseases Initiative (DNDi), and the Foundation for Innovative New Diagnostics (FIND).

A member of the Brazilian Academy of Sciences and an Honorary Fellow of the Royal Society of Tropical Medicine and Hygiene in London, Dr. Morel holds the National Order of Scientific Merit (Brazil) and Doctor *Honoris Causa* from the Federal University of Pernambuco (Brazil). He has been a member of the MIHR Board of Trustees since its founding.

#### **MOYNIHAN, Michael R.**

Michael R. Moynihan has more than 20 years' experience in plant biotechnology. For the past ten years, he has primarily been involved in technology transfer and the development of public-private research networks in his capacities as a Senior Project Director at InterLink Biotechnologies LLC and Director of Biotechnology Development at Fundación Chile. Dr. Moynihan earned an Sc.B. in Biology from Brown University in 1974 and M.A. and Ph.D. degrees in Biology from Harvard University in 1979 and 1982. He was a Visiting Research Fellow at the Institute for Molecular and Cellular Biology at Osaka University, a Postdoctoral Associate in the Section of Plant Biology at Cornell University, a Postdoctoral Associate at the Center for Agricultural Molecular Biology at Rutgers University, and a Principal Scientist in the plant biotechnology laboratory of EniChem Americas.

#### **MUNOZ TELLEZ, Viviana**

Viviana Munoz is a Programme Officer at the South Centre, an intergovernmental organization of developing countries based in Geneva, Switzerland. Ms. Munoz assists the research, policy analysis, policy advice, capacity building, and training activities of the Centre's Innovation and Access to Knowledge Programme. Her efforts support the development, coordinated use, and improvement of the capacities of developing countries and their institutions. The Centre aims to integrate the development dimension into their policies on innovation, access to knowledge, and intellectual property.

Previously, Ms. Munoz worked at Queen Mary Intellectual Property Research Institute, University of London, as Research Assistant for an Economic and Social Research Council (ESRC) project ([www.ipngos.org/](http://www.ipngos.org/)). The project examined the role that nongovernmental organizations (NGOs) play in supporting the positions of countries on intellectual property, public health, and biodiversity at multilateral institutions. She has also worked as an independent consultant. Some of her recent works include: Munoz V. (with Matthews D.), *Bilateral technical assistance and the TRIPS agreement: the United States, Japan and the European Communities in comparative perspective*, Journal of World Intellectual Property, Vol. 9, No. 6. (November 2006), pp. 629-653, and Munoz V. (with Waitara C.), *An Analysis of the Impact of the Treaty on the Protection of Broadcasting Organisations and Cablecasting Organisations on Developing Countries*, Research Paper 9, South Centre, (December 2006).

Ms. Munoz holds a B.A. in International Relations from the U. Rosario, Colombia, and an M.Sc. in Development Management from the London School of Economics.

#### **MUNYI, Peter**

Peter Munyi is the Chief Legal Officer of the International Centre of Insect Physiology and Ecology (ICIPE). He offers in-house legal advice to ICIPE in many areas; intellectual property law is his speciality. Through SEAPRI, an ICIPE initiative, Mr. Munyi also offers legal and policy advice on agriculture, genetic resources, and environmental issues to the governments of developing countries, international organizations, and nongovernmental organizations. He has published widely on many topics, including intellectual property-related issues, genetic resources, and biodiversity. He holds a Master's degree in European Intellectual Property Law from Stockholm University, Sweden, and a Bachelor's Degree in Law from Moi University, Kenya. Prior to joining ICIPE, Mr. Munyi was a commercial lawyer in a private practice based in Nairobi.

#### **MUTSCHLER, Martha**

Martha Mutschler is a professor in the Department of Plant Breeding, College of Agriculture and Life Sciences, Cornell University. She directs a research program in tomato and onion breeding and genetics. Her work deals with plant genetics and breeding projects concerning the genetic control of novel traits derived from wild species, the genetic control/physiological mechanisms underlying these traits, and the use of these mechanisms in vegetable improvement. This work has resulted in several U.S. patents, as well as the release of elite breeding lines with novel forms of disease resistance or insect resistance, or modified production traits such as extended shelf life or early maturity. Dr. Mutschler has served on the board of directors for the Cornell Research Foundation (the patent and licensing unit for Cornell University) for over a decade. This service led to her interest in plant intellectual property, a subject on which she has published. It also led her to develop a computer-assisted instruction module for training undergraduate and graduate students in IP issues.

#### **NEAGLEY, Clinton H.**

Clinton H. Neagley is Associate Director of Technology Transfer Services at the University of California, Davis. His responsibilities include patenting and licensing inventions in the fields of agriculture, biotechnology, chemistry, and physical science, as well as assisting academic researchers on intellectual property matters. Before joining U.C. Davis, Dr. Neagley was Chief Patent Counsel and Director of Licensing for DNA Plant Technology Corporation (DNAP), where he was responsible for intellectual property and technology contracts, managing the patent portfolio, and licensing and freedom-to-operate assessment. Prior to his position at DNAP, Dr. Neagley spent ten years with the New York City intellectual property law firm of Davis Hoxie Faithfull & Hapgood, where he worked on litigation, licensing, and patent prosecution. As a partner at Davis Hoxie, he played a lead role in the biotechnology group, representing clients from large established companies,

start-up companies, and universities. He has lectured and published on many topics of patent law. He is a member of the California and New York Bars and is a registered Patent Attorney. Dr. Neagley has a J.D. from Cornell Law School and a Ph.D. in Chemistry from the University of California, Davis.

#### **NEEDLE, William H.**

William H. Needle is the founder of Needle & Rosenberg, P.C., one of the largest intellectual property law firms in the Southeast. He has exclusively practiced patent, trademark, copyright, and trade secret law over his entire 36-year career. Mr. Needle is an adjunct professor of Licensing Law at Emory University School of Law and adjunct professor of Patent Law at Georgia State University College of Law. He serves as a mediator or arbitrator in complex disputes involving intellectual property issues and has been an expert witness in patent, trademark, and copyright infringement actions. On several occasions, he has been appointed to serve as a Special Master by U.S. District Court Judges in patent infringement cases wherein his recommendations on validity, infringement, and damages in two actions were affirmed by the Federal Circuit Court of Appeals.

Mr. Needle has served as a Special Assistant Attorney General for the State of Georgia for intellectual property law issues for over 30 years and is a Fellow of the Lawyers Foundation of the State Bar of Georgia. He is a member of several organizations: the Advisory Board of The Technological Innovation: Generating Economic Results (TI: GER) program, a collaboration between Georgia Tech and Emory Law School that prepares students to commercialize new technologies; the Advisory Board of the School of Biomedical Engineering at the University of Alabama at Birmingham; and the Advisory Board of Georgia Tech's College of Sciences. In addition, he served on the committee that was tasked with formulating Local Rules regarding patent litigation for the U.S. District Court, Northern District of Georgia.

Mr. Needle's peers in the legal community voted him one of *Georgia Trend* magazine's "Legal Elite" every year from 2003 to 2007 and named him one of the "Top 100 Georgia Super Lawyers" every year from 2004 to 2007. He has also been listed as one of the best intellectual property lawyers in Atlanta for over ten years in *The Best Lawyers in America*®. Additionally, he is a certified "Memphis in May" barbecue judge.

Mr. Needle graduated with a B.S. in Chemistry from the Georgia Institute of Technology in 1967. He received his J.D. from the Emory University School of Law in 1970.

#### **NELKI, Daniel**

Daniel Nelki is Head of Legal and Operations in Technology Transfer at the Wellcome Trust. Dr. Nelki obtained his Ph.D. in 1987 from the University of London and went on to conduct postdoctoral research in mouse molecular genetics at King's College, London. He obtained a Diploma in Law in 1991 and, following completion of his professional solicitor's qualifications, practiced with the international law firm Baker & McKenzie, eventually specializing as an intellectual property lawyer. He joined the Wellcome Trust in 1995 and played a key role in planning and structuring the Technology Transfer group, thanks to his uniquely multi-faceted

perspectives. He is particularly knowledgeable on the topics of intellectual property and charity law, as well as the commercial exploitation of fundamental research. He has earned a Master's in Law (LLM) for his thesis on the ownership of human genes and tissue.

#### **NELSEN, Lita**

Lita Nelsen is the Director of the Technology Licensing Office at the Massachusetts Institute of Technology, where she has been since 1986. Every year, the office manages over 400 new inventions originating from M.I.T., the Whitehead Institute, and Lincoln Laboratory. Typically, the office negotiates over 100 licenses and starts up over 20 new companies each year. Ms. Nelsen earned her B.S. and M.S. degrees in Chemical Engineering from M.I.T., as well as an M.S. in Management from M.I.T. as a Sloan Fellow. Prior to joining the M.I.T. Technology Licensing Office, Ms. Nelsen spent 20 years in industry, primarily in the fields of membrane separations, medical devices, and biotechnology; she worked at such companies as Amicon, Millipore, Arthur D. Little, Inc., and Applied Biotechnology. Ms. Nelsen was the 1992 President of the Association of University Technology Managers. She serves on the board of the Mount Auburn Hospital and the Scientific Advisory Board of the Children's Hospital Oakland Research Foundation. She also serves as the intellectual property advisor to the International AIDS Vaccine Initiative and is a founding and current board member of MIHR. Ms. Nelsen is widely published in the fields of technology transfer and university/industry collaborations. She was a CMI Fellow at Cambridge MIT Institute (at the University of Cambridge), where she studied the role of university/industry/government partnerships in technology transfer and local economic development. She is a co-founder of Praxis, the U.K. University Technology Transfer Training Programme.

#### **NEWMAN, Pauline**

Pauline Newman is a judge of the U.S. Court of Appeals for the Federal Circuit. She received a B.A. from Vassar College, an M.A. in Pure Science from Columbia University, a Ph.D. in Chemistry from Yale University, and an LL.B. from New York University School of Law. Before her appointment as circuit judge in 1984, she was Director of Patents and Licensing at FMC Corporation in Philadelphia. She worked as Science Policy Specialist at UNESCO, Paris, and as a research chemist at American Cyanamid Company. She has served as adviser to various governmental programs, and has been an officer and director of several bar and scientific associations. She has been awarded the Wilbur Cross Medal by Yale University, the Vanderbilt Medal by New York University School of Law, the Jefferson Medal by the New Jersey Patent Law Association, and the Award for Outstanding Contributions to International Cooperation by the Pacific Industrial Property Association. She is a distinguished Professor of Law at George Mason University School of Law and the author of articles in the fields of innovation and science and the law.

#### **NILSSON, Malin**

Malin Nilsson graduated in 2001 from the Swedish University of Agricultural Sciences, where she received

her M.Sc. in Horticulture. She studied crop production, plant protection, and developmental studies, but finally got hooked on plant breeding and genetics; it was an interest that brought her to the Research Institute Geisenheim, Germany, where she spent part of her time as a student. Ms. Nilsson has worked in the International Division of the Swedish plant breeding company Svalöf Weibull since 2001. Initially, her responsibilities were mainly within the field of plant variety licensing, ranging from establishing agreements to practical follow-up of the obligations and rights under such agreements. During this period, she became interested in intellectual property rights, an interest that was further developed when she moved on to work with the complete product portfolio as Product Manager in Oilcrops. In 2006, after a short period spent sharpening her skills in the role of Sales Manager Sweden, she took the position of Marketing Manager in Cereals and Oilseeds. Ms. Nilsson's current position allows her to use and further develop her competence in the field of intellectual property, especially in plant variety rights, throughout the value chain.

#### **NOTTENBURG, Carol**

Carol Nottenburg is a patent lawyer specializing in biotechnology. She migrated to law after a career in science. Her career path took her from undergraduate days at Caltech (B.S. Biology) to graduate work at Stanford University (Ph.D. Genetics), to a postdoctoral fellowship at the University of California, San Francisco, where she worked in the laboratory of Dr. Harold Varmus, Nobel Laureate, and ultimately to the Fred Hutchinson Cancer Research Center (FHRC) in Seattle, Washington, where she joined the faculty of the Clinical Division. For five years, her laboratory studied the causes of poor immune system development in patients who have had bone marrow transplants. Dr. Nottenburg then turned to the pursuit of a career in patent law. After graduating *magna cum laude* from the University of Puget Sound Law School (now Seattle University Law School), she joined the law firm of Seed and Berry in Seattle, Washington. She took primary responsibility for a number of small biotech company clients, and her practice focused on integrating patent strategies with business strategies. A move to CAMBIA, a nonprofit, private research institute in Australia, allowed her to become involved in policy issues surrounding intellectual property. At the same time that she was responsible for intellectual property matters at CAMBIA, she spearheaded the development of the internet-based Patent Lens Resource ([www.patentlens.net](http://www.patentlens.net)). Now returned to private practice, Dr. Nottenburg assists clients with integrating patent and business strategies and with strengthening the clients' capacity to deal with both ordinary and more esoteric patent matters.

#### **NUGENT, Rachel**

Rachel is a senior associate in CGD's Global Health Programs. She provides economic and policy expertise to support HPRN Working Groups, manages CGD programs on Population and Economic Development, and conducts research on other global health topics. She has 25 years of experience as a development economist, managing and carrying out research and policy analysis in the fields of health, agriculture, and the environment.

Prior to joining CGD, Rachel worked at the Population Reference Bureau, the Fogarty International Center of the U.S. National Institutes of Health, and the United Nations Food and Agriculture Organization.

She received her Ph.D. in Economics from George Washington University, and served as associate professor and chair of the economics department at Pacific Lutheran University in Tacoma, Washington. Rachel's publications include a range of topics, from the cost-effectiveness of noncommunicable disease interventions and health impacts of fiscal policies, to impacts of microcredit on the environment in developing countries and the economic impacts of transboundary diseases and pests.

#### **NYAGAH, Ruth Ruguru**

Ruth is a Kenyan citizen and has been working in the horticultural industry for the last 12 years, in work ranging from managing export farms to quality control. She currently works as an auditor technical and social auditor for various consumer standards, including EUREPGAP, ETP, HACCP, and BRC. She is also the managing director of Africert Ltd, the first local certification company to be accredited to ISO 65/EN45011 in East and Central Africa, which she set up through funding from GTZ in 2004. Africert's entry in the certification arena in East and Central Africa provides producers, who would have otherwise been marginalized in accessing the lucrative export markets due to the high costs of importing certification services, with an internationally accredited certification company, right within their region.

Ruth is a member of the EUREPGAP Certification body Committee and is a private consultant for both UNCTAD and FAO on issues related to the uptake of private standards and their effect on smallholder farmers in export horticulture in Kenya.

Ruth holds a Bachelor of Science degree in General Agriculture from the University of Eastern Africa, Baraton (Kenya), and a Master of Science in Post Harvest Horticulture from the University of Greenwich, Natural Resources Institute (NRI), U.K.

#### **OEHLER, Joachim**

Joachim Oehler is CEO of Concept Foundation, an internationally operating, independent not-for-profit organization that is active in IP management for health products; its goal is to create the best public sector benefits through the out-licensing of intellectual property. Dr. Oehler initiated and established the value-based approach of Concept Foundation to the out-licensing model of its products, and developed an authoritative framework for the performance orientation of license agreements through detailed milestones that maximize public sector benefits. Before joining Concept Foundation, he managed a fully integrated pharmaceutical company out of Tokyo, Japan. His company's capacities spanned the entire spectrum of pharmaceutical business: product development, application laboratories, clinical research, local manufacturing, drug regulatory affairs and registration, clinical market development, marketing, and sales, as well as administration, logistics management, warehousing, and so on. Previously, Dr. Oehler had held several senior divisional management positions in Japanese subsidiaries of multinational pharmaceutical companies. Before working with Japanese

companies, he held several marketing positions in the pharmaceutical industry in Europe and North America. Dr. Oehler continues to advise a select group of companies and organizations on cross-cultural management issues.

#### **OLSON, Arne M.**

A native of the Chicago area, Arne M. Olson has practiced intellectual property law for over 25 years. He has handled complex litigation involving patent, trademark, copyright, trade secret, Internet domain name protection, cybersquatting, and licensing matters. Mr. Olson advises clients on licensing, intellectual property protection, and litigation involving a wide range of technologies. His clients include several universities and research institutions, as well as publicly traded companies.

Mr. Olson has a bachelor's degree in physics from the University of Chicago and a J.D. with honors from the DePaul University School of Law. He is admitted to practice in Illinois before the U. S. Court of Appeals for the Seventh Circuit and the U. S. Court of Appeals for the Federal Circuit. He is also a member of the Trial Bar of the U. S. District Court for the Northern District of Illinois and the U.S. District Court for the Western District of Michigan. He is registered to practice before the U.S. Patent and Trademark Office.

His professional memberships include the International Trademark Association, the American Bar Association, the American Intellectual Property Law Association, and the American Association for the Advancement of Science. He was designated a "Super Lawyer" by *Law & Politics* magazine in 2005, 2006, and 2007, and was selected as a Leading Lawyer in intellectual property law by the Illinois Leading Lawyers Network, Law Bulletin Publishing Company.

#### **PAGE, Nigel**

Nigel is the Finance Editor of *IAM* magazine ([www.iam-magazine.com](http://www.iam-magazine.com)). He has worked for more than 15 years as a journalist and editor in print media. After qualifying as a barrister in the U.K., Nigel switched careers to work in journalism and helped to launch various legal and business publications, including *Legal Business* magazine, the U.K.'s leading monthly magazine for the legal market. He continues to contribute to various newspapers and magazines, including the *Financial Times*, *Euromoney*, and *Financial News*. He was one of the founders of *IAM* magazine in 2004 and became its Finance Editor in 2005.

#### **PARDEE, William**

William Pardee received his PhD from Cornell University, and has been professor of Agronomy and Plant Breeding at Cornell since 1966. Earlier, he served as assistant, then associate professor of Agronomy, at the University of Illinois and as visiting professor at Oregon State University. Professor Pardee's research focuses on seed production, seed policies, and crop varietal improvement. He has participated in numerous national committees and symposia, and in international seed programs. He has been elected as fellow in the American Society of Agronomy, the Crop Science Society of America, and the American Society of the Advancement of Science. From 1978 to 1987, he served as Chairman of the Department of Plant Breeding and Biometry at Cornell.

His extension goal is to help farmers and seed growers improve their competitive positions and income through the use of improved seeds of superior varieties. To achieve this, he works closely with seed growers and dealers to encourage the production and distribution of high quality seed, and writes and speaks regularly for grower, dealer, and farmer audiences, providing information designed to help them in their choice of seed. He has participated in policy decisions related to seed at state and national levels, seeking to maintain practical yet effective seed policies and regulations.

#### **PÉCOUL, Bernard**

Bernard Pécoul has been Executive Officer of the Geneva-based Drugs for Neglected Diseases Initiative (DNDi) since its inception in 2003.

Dr. Pécoul earned a medical degree from the French University of Clermont Ferrand, France, and a Master's of Public Health from Tulane University in the U.S. He joined Médecins Sans Frontières (MSF) as a volunteer physician in 1983; in Honduras, he provided healthcare to refugees from El Salvador, Nicaragua, and Guatemala. In 1985, still with MSF, he moved to Thailand and Malaysia, managing public health projects for refugees from Vietnam, Burma, and Laos. He was a co-founder and director of research and training from 1988-1991 at Epicentre, an epidemiological research organization in Paris, France. Then, from 1991-1998, he was the Executive Director of the French section of MSF, where he oversaw 100 field projects in 40 countries. From 1998 to 2003, Dr. Pécoul was Executive Director of Médecins Sans Frontières' Campaign for Access to Essential Medicines, whose goal is to increase access to essential medicines in developing countries by advocating for a combination of policies: lower drug prices on a sustainable basis, increased research on neglected diseases, and production of unprofitable but medically necessary drugs.

While at MSF, Dr. Pécoul had been active in the creation of the Drugs for Neglected Diseases Initiative (DNDi), which was finally launched as a foundation in July 2003. In October 2003, he was selected as Executive Director of the fledgling Initiative. DNDi is a not-for-profit organization that seeks to develop and make available drugs that treat neglected diseases (such as sleeping sickness, leishmaniasis, and Chagas disease) that afflict the poor in developing countries. As executive director, Bernard is coordinating the entire research and development initiative and managing a team of project managers and scientists who are located in various parts of the world, particularly in Asia, Africa, and Latin America.

#### **PEFILE, Sibongile**

Prior to her appointment as Council of Scientific and Industrial Research (CSIR) Group Manager for R&D Outcomes, Sibongile Pefile was the CSIR Intellectual Property and Innovation Manager. With an academic background in pharmacy, which includes an M.Sc. in Pharmaceutics and a Ph.D. in Pharmacology, Dr. Pefile moved into the field of intellectual property when she became Programme Director at the Centre for the Management of Intellectual Property in Health Research and Development (MIHR). In this capacity, she was responsible for the strategic planning, implementation, and coordination of MIHR capacity development programs in intellectual property management.

Her work as a consultant for the Rockefeller Foundation led to the formation of MIHR. Prior to consulting for the Rockefeller Foundation, she spent several years working for the Technology and Business Development Directorate at the Medical Research Council, where she was responsible for establishing the Indigenous Knowledge systems office. The office addressed policy, ethical, and intellectual property issues relating to health research and indigenous knowledge systems and technologies. She is a member of several international bodies concerned with intellectual property and its management, and has published and presented numerous papers on this topic. In 2006, she attended the Mastering Technology Enterprises programme, IMD, and completed the UNISA/WIPO IP Law Specialization course.

#### **PEZZUTO, J. M.**

A biochemist with research interests in the areas of biology-driven natural-product drug discovery and characterization, in particular cancer chemotherapy, cancer chemoprevention, malaria, and AIDS, Professor John Pezzuto is Dean of the College of Pharmacy, University of Hawaii. He has also served as Dean of the College of Pharmacy, Nursing, and Health Sciences at Purdue University in West Lafayette, Indiana. Previously, he held the rank of Full Professor in both the College of Pharmacy and the College of Medicine of the University of Illinois at Chicago, where he was a Distinguished University Professor. Since 1977, he has continuously received support from the U.S. National Institutes of Health and currently serves as the Principal Investigator of a program project grant in cancer chemoprevention, while also a Co-Investigator for an International Collaborative Biodiversity Group. He wrote and co-authored 400 publications and co-invented several patented technologies. He has edited three books, serves on the editorial boards of 11 international journals. He is the former editor-in-chief of the *International Journal of Pharmacognosy*, and of *Combinatorial Chemistry and High Throughput Screening*. He is the current editor-in-chief of *Pharmaceutical Biology*.

#### **PHILLIPS, Peter W. B.**

Peter W.B. Phillips is a professor in the department of Political Studies at the University of Saskatchewan. He holds concurrent faculty appointments in both Agricultural Economics and Management at the U. of S. and is a Professor-at-Large in the Institute of Advanced Studies at the University of Western Australia. Dr. Phillips' research concentrates on issues related to governing transformative innovations, a topic that involves examining intellectual property rights for agricultural biotechnology, the economics and management of innovation and trade, and marketing issues related to new technologies. He has done theoretical, empirical, institutional, and policy analysis of technological change, has published a variety of books and journal articles on governing innovation, and has consulted on innovation policy with industry and governments in Canada, the U.S., the E.U., and Australia, as well as with the Organization for Economic Co-operation and Development (OECD). He is either a principal investigator or investigator of seven internationally peer-reviewed research programs that have a combined budget

of CAD\$52 million. He is currently a member of the Canadian Biotechnology Advisory Committee, a senior research associate with the Estey Centre for Law and Economics in International Trade, a member of the editorial boards of AgBioForum and IP Strategy, a fellow at The Centre for Innovation Studies (THECIS), and a member of the Canadian Association of Business Economists.

#### **PITKETHLY, Robert**

Robert Pitkethly is a university lecturer in management studies (intellectual property) at the Said Business School, University of Oxford. In addition, he is a fellow and tutor in management at St. Peter's College, where he is also a senior research associate of the Oxford Intellectual Property Research Centre. His teaching and research interests are centered on strategic management and the management of intellectual property. He has worked as a management consultant in connection with a wide variety of technology-based and general management issues and has also worked as a qualified U.K. and European Patent Attorney in both private practice and industry.

He holds degrees in chemistry, business administration, and Japanese studies. Prior to moving to Oxford, he was a Research Fellow at the Judge Institute at Cambridge University. He has also been a Visiting Research Fellow at the Institute of Intellectual Property and the National Institute of Science and Technology in Tokyo.

#### **POTRYKUS, Ingo**

Ingo Potrykus is the engine behind the *GoldenRice* Project and the Humanitarian Board. Together with Peter Beyer, he was one of the inventors of the *GoldenRice* technology. Since his retirement as a professor in 1999, far from settling down, he has devoted enormous efforts to bringing biofortified *GoldenRice* to those who need it.

Prof. Potrykus was born in 1933 in Hirschberg, Silesia, Germany. He has been married since 1960, and has three children and eight grandchildren. In 1968, he earned a Ph.D. in Plant Genetics at the Max-Planck-Institute for Plant Breeding Research, Cologne, Germany.

He conducted research in botany at the University of Basel, Switzerland, and was an Assistant Professor at the Institute of Plant Physiology, Stuttgart-Hohenheim from 1970 to 1974. From 1974 to 1976, he was Research Group Leader at the Max-Planck-Institute for Genetics, Ladenburg-Heidelberg, and then, until 1986, at the Friedrich Miescher-Institute, Basel, Switzerland. From 1986 until his academic retirement in 1999, he was Full Professor in Plant Sciences at the Swiss Federal Institute of Technology (ETH), Zurich.

Since 1974, his research has focused on plant-science-based contributions to food security in developing countries, where he was involved in the development and application of genetic engineering technology for "food security" crops such as rice (*Oryza sativa*), wheat (*Triticum aestivum*), sorghum (*Sorghum bicolor*), and cassava (*Manihot esculenta*). Focusing on problems in the areas of disease and pest resistance that were difficult to solve with traditional techniques, he worked to improve food quality and yield, improved exploitation of

natural resources, and improved biosafety. This work was performed by an international team of 60 coworkers, on average, that was financed from competitive grants and core funding. The *GoldenRice* project, initiated in 1991 as Ph.D. project, was possible only because of that core funding. Details of the *GoldenRice* project can be found in approximately 340 publications in refereed journals and 30 international patents.

Professor Potrykus's teaching activities have included lectures and courses in basic and advanced plant biology and plant biotechnology in Biology, Agronomy, Pharmacy, Forestry, and Environmental Sciences departments, as well as International Training Courses such as EMBO. His numerous awards include: the KUMHO (ISPMB) Science International Award in Plant Molecular Biology and Biotechnology in 2000, the American Society of Plant Biologists (ASPB) Leadership in Science Public Service Award in 2001, the Crop Science of America (CSSA) Klepper Endowment Lectureship in 2001, the CSSA President's Award in 2002, and the European Culture Award in Science in 2002. He received an Honorary Doctorate from the Swedish University of Agricultural Sciences in 2002. He is a member of *Academia Europaea*, the World Technology Network, the Swiss Academy of Technical Sciences, and the Hungarian Academy of Sciences.

#### **POTTER, Robert H.**

As a Senior Associate at AGBIOS, Robert H. Potter provides biotechnology regulatory, intellectual property rights, and risk assessment expertise to a variety of capacity-building and commercial projects. Before joining AGBIOS in 2005, Dr. Potter was the Technology Coordinator for the U.S. Agency for International Development (USAID) Agricultural Biotechnology Support Project II at Cornell University, where he was responsible for technology evaluation and product delivery planning. Dr. Potter was previously employed as an intellectual property specialist for Cornell University's Strategic World Initiative for Technology Transfer program. He has extensive experience in the preparation and presentation of workshops on intellectual property issues related to agricultural biotechnology and plant genomics. Dr. Potter's scientific training is in plant molecular biology. He holds a Ph.D. from Rothamsted Experimental Station in the U.K., and has postdoctoral experience at the Agricultural University of Norway and Murdoch University, West Australia. His research has included gene expression studies in the developing barley grain, investigations of the molecular basis of host plant response to attack by root-knot nematodes (*Meloidogyne* spp.), and the use of molecular markers in wheat and barley breeding.

#### **RAZGAITIS, Richard**

Dr. Richard Razgaitis has 40 years of experience working with development, commercialization, and technology management. He began his professional career as a "rocket scientist" on the Saturn/Apollo lunar launch team, and worked on every launch from Apollo 1 through the first lunar landing. He was a faculty member for 10 years and taught more than 20 different undergraduate and graduate level courses. He was also a research scientist and inventor at a billion-dollar private institute. For 10 years, he was vice president

of commercial development/licensing at two different billion-dollar companies. Since 1998, he has been a consultant in IP/technology management, opportunity discovery, valuation, and dealmaking.

He is the author of three books on valuation and dealmaking: *Early-Stage Technologies: Valuation and Pricing*; *Valuation and Pricing of Technology-Based Intellectual Property*; *Dealmaking Using Real Options and Monte Carlo Analysis* (all published by John Wiley). He has also authored two book chapters: "Technology Valuation," published in *The LESI Guide to Licensing Best Practices* (Wiley, 2002), and "Pricing the Intellectual Property Rights to Early-Stage Technologies: A Primer of Basic Tools," *AUTM Technology Transfer Practice Manual* (2003). For more than 10 years, he taught technology valuation and pricing courses for AUTM to more than 2,000 students.

For more than 10 years he held a variety of senior positions in the Licensing Executives Society, including VP and Treasurer. Since 2000, he has been on the Board of the Licensing Foundation, the past three years as its President. He has served on the Board of the National Inventors Hall of Fame Foundation.

He has B.Sc., M.Sc., and Ph.D. degrees in engineering, and an M.B.A. Dr. Razgaitis has been a registered Professional Engineer in Texas, Oregon and Ohio, and is an inventor on four patents. He and his wife have been married 40 years and have five children.

#### **RILEY, M. C.**

Mary Riley received her doctorate in cultural anthropology from Tulane University and her law degree from Northern Illinois University. She is a co-investigator with the UIC-based International Cooperative Biodiversity Group (ICBG) and is a visiting senior research specialist at the University of Illinois at Chicago, Program for Collaborative Research in the Pharmaceutical Sciences (PCRPS). In addition, she is an attorney with Merritt, Flebotte, Wilson, Webb & Caruso, PLLC, in Columbia, South Carolina. She edited the volume *Indigenous Intellectual Property Rights: Legal Obstacles and Innovative Solutions* (Altamira Press).

#### **RITTER, John F.**

John F. Ritter is the Director of the Office of Technology Licensing and Intellectual Property at Princeton University. Mr. Ritter is a Registered Patent Attorney and has been at Princeton University since September 1996. Prior to joining Princeton, Mr. Ritter was a senior member of the technology licensing team at Rutgers University and held several marketing positions in industry. Mr. Ritter has a B.S. in Engineering and an M.B.A. in Marketing, in addition to a law degree. He is a member of the New Jersey and Pennsylvania bars.

#### **RODIN, Judith**

Judith Rodin has served as president of the Rockefeller Foundation since March 2005. Trained as a research psychologist, Dr. Rodin was previously the president of the University of Pennsylvania, and earlier the provost of Yale University. The Rockefeller Foundation was established in 1913 by John D. Rockefeller, Sr. to "promote the well-being" of humanity by addressing the root causes of serious problems. The Foundation works

globally to expand opportunities for poor and vulnerable people and to help ensure that the benefits of globalization are shared more equitably.

Judith Rodin was born and raised in Philadelphia, Pennsylvania. She graduated from the University of Pennsylvania, and received her Ph.D. from Columbia University. A pioneer in the behavioral medicine movement, she taught at New York University before embarking on 22 years on the faculty at Yale, where she ultimately held appointments in both the School of Arts and Sciences and the School of Medicine. Named president at Penn in 1994, she was the first woman to serve as president of an Ivy League institution.

Dr. Rodin serves on a number of leading nonprofit boards, as well as on the boards of AMR Corporation, Citigroup, and Comcast Corporation. She is the author of more than 200 academic articles and chapters and has written or co-written 11 books. She served on President Clinton's Committee of Advisors on Science and Technology. A member of a number of leading academic societies, including the Institute of Medicine of the National Academy of Sciences, she has received nine honorary doctorate degrees.

#### **ROHRBAUGH, Mark L.**

Mark L. Rohrbaugh, Ph.D., J.D., has served since 1991 as the Director of the Office of Technology Transfer (OTT), National Institutes of Health (NIH), Department of Health and Human Services (HHS). OTT manages the patenting and commercial licensing of a large portfolio of NIH and FDA intramural inventions and contributes to the HHS's intramural and extramural technology transfer policy. OTT licenses have brought to market well over 100 products, 25 of which are FDA-approved; in 2005, the licensee sales generated by these products approached US\$5 billion. OTT also advises NIH on the terms and conditions of funding agreements with respect to intellectual property, material transfer, and data rights. Dr. Rohrbaugh serves as Vice-Chair of the Public Health Service Technology Transfer Policy Board and represents the HHS on the National Science and Technology Council Technology Committee. He has represented the HHS at meetings of the World Health Organization (WHO), the Organisation for Economic Co-operation and Development (OECD), and the United Nations Industrial Development Organization (UNIDO).

Dr. Rohrbaugh previously served as Director of the Office of Technology Development at the National Institute of Allergy and Infectious Diseases (NIAID), where he managed a staff that was responsible for the negotiation of technology transfer agreements between industry and academic institutions for the conduct of NIAID intramural basic and clinical research and extramural cooperative networks.

Prior to joining the NIH, Dr. Rohrbaugh conducted molecular and cell biology research in academic and industrial laboratories. He received his Ph.D. in biochemistry from The Pennsylvania State University and a degree in law with honors from The George Washington University Law School, where he served as an Articles Editor for *American Intellectual Property Law Association Quarterly*.



**ROSS, Gavin S.**

Gavin Ross is Vice President of Business Development for HortResearch (USA), a U.S. subsidiary of HortResearch, a New Zealand fruit research company. He has held a number of positions within HortResearch. In the 1990s, he established a laboratory that focused on the genes and enzymes involved in apple fruit ripening. In 1997, he took over the leadership of the postharvest science group of HortResearch, which was one of the largest research groups in this area in the world. Three years later, he was part of the team that raised the funds to launch HortResearch's fruit genomics program, and he led the program in its early phases. In recent years, he has made the transition from science to business development. His experience includes several years working at a publicly listed New Zealand biotechnology company. In his current role, he represents HortResearch in the U.S. market and is building a genuine presence for the company in North America. He is actively involved in product development and support, as well as technology licensing.

**RYAN, Camille D.**

A self-professed "late bloomer," Camille D. Ryan began her academic career after working for several years in the local agricultural biotechnology industry. She first worked with a small plant biotechnology company that specialized in developing proprietary technologies and cloned plant varieties for mine reclamation work and site remediation. Subsequently, she moved into a position with the biotechnology department of a large multinational corporation that specializes in crop production, and worked on cross-functional team efforts to bring the first genetically modified canola varieties to the market.

Throughout her academic career, Ms. Ryan has been involved in a number of research projects, including the Innovation Systems Research Network's "Cluster Initiative," which examines intellectual property structures and innovation in the Saskatoon agricultural biotechnology cluster. Her links with local industry have been a natural segue for her collaborations with the National Research Council's Plant Biotechnology Institute (NRC-PBI) and the Industrial Research Assistance Program (IRAP), as well as with the Canadian Light Source Synchrotron (CLS). Currently, Ms. Ryan works as a research assistant for Genome Canada's GE3LS project. She conducts theoretical, empirical, and policy analysis that explores the management of intellectual property in genomics-based research projects. She is currently in the process of finalizing her Ph.D. dissertation in Interdisciplinary Studies at the University of Saskatchewan.

**RYGNESTAD, Hild**

Hild Rygnestad provides consulting services in the area of project controls, as well as economic and financial analyses, to a range of private and public sector clients with operations in the international marketplace. In particular, she focuses on cost controls, contract management, and risk analysis. Before becoming an independent consultant, Dr. Rygnestad worked as a Program Associate with the Strategic World Initiative for Technology Transfer (SWIFTT) at Cornell University, where she was responsible for the development, design,

and maintenance of a contract management database and a Web-based course in intellectual property management. Previously, Dr. Rygnestad had worked as a researcher with the Danish Research Institute of Food Economics, where she conducted research in the area of agricultural economics, especially analyses of environmental economics and policy. Dr. Rygnestad's scientific education is in agricultural economics. She holds a B.Sc. from the Agricultural University of Norway and a Ph.D. from the University of Western Australia.

**SALICRUP, Luis A.**

Luis A. Salicrup serves as Senior Advisor for International Technology Transfer Activities at the Office of Technology Transfer (OTT) in the Office of the Director of the National Institutes of Health (NIH). He leads OTT's efforts to transfer public health service technologies from NIH and the Food & Drug Administration (FDA) to institutions in developing countries in order to solve global health problems. Dr. Salicrup also developed and implemented The International Training Program for NIH OTT. The goal of this program is to provide practical experience in relevant areas of global health to staff from public and private institutions located in developing countries. Dr. Salicrup is also responsible for teaching the courses "Technology Transfer," "Biomedical Business Development and International Strategic Partnering," and "Biotechnology Business Leadership" at NIH's Foundation for Advanced Studies.

Before joining OTT, Dr. Salicrup was International Health Research Scientist/Program Director at NIH's Fogarty International Center. Before working at NIH, Dr. Salicrup was CEO and President of Techno-Sur and Associates, a consulting firm that provides international health, technology management, and university-industry alliances services to international and regional organizations, as well as to government agencies and universities worldwide. Dr. Salicrup received his Ph.D. in microbiology and molecular genetics from Rutgers University. He also holds a Master's in Technology Management. After completing postdoctoral training at Princeton University and NIH, he served as Manager of the Divisions of Quality Control and Technical Support at Baxter Diagnostics International Inc. and was Associate Professor of Microbiology and Immunology at the Inter American University and the University of Puerto Rico. Dr. Salicrup is a member of numerous professional organizations and has published in several scientific journals.

**SALIM, Emil**

Emil Salim is on the faculty of economics at the University of Indonesia. Previously, he was the State Minister for Population and Environment from 1978 to 1993. He currently serves as a member of many international and national committees, including the United Nations High Level Advisory Board on Sustainable Development. He serves as Chairman of the National Economic Board, an economic expert team to President Abdurachman Wahid. He was a member of the economic expert team to President Suharto on debt and development issues of the nonaligned countries, and a member of the Indonesian Peoples' Assembly. In addition, he was Co-chairman of the World Commission on Forestry and Sustainable Development.

Dr. Salim also serves as Chairman of the Board of Trustees for a number of leading Indonesian environmental organizations, including the Indonesian Biodiversity Foundation, the Foundation for Sustainable Development, and the Indonesian Ecolabelling Institute. He received his master's degree and his doctorate in economics from the University of California, Berkeley, in the United States.

#### **SALLES-FILHO, Sergio**

Sergio Salles-Filho is a full professor at the Department of Science and Technology Policy at the State University of Campinas, SP, Brazil. He earned a B.S. in Agronomic Engineering at the Rural Federal University of Rio de Janeiro in 1980. He earned his Master's degree at the State University of São Paulo in 1985 in the biological treatment of agro-industrial wastes. Since then, he has dedicated himself to studies of the social ramifications of science, technology, and innovation. His first studies were technological assessments, with a specialization in the impact of modern biotechnology on less developed countries.

In 1995, he founded, with a group of colleagues, the Study Group on Organization of Research and Innovation (GEOPI), which is dedicated to the development of theoretical and empirical studies of the management of technology and innovation. Nowadays, his main areas of research are the organization of areas and institutions of ST&I, technological assessment and institutional evaluation, technological prospective, and intellectual property and financing in ST&I.

#### **SANDELIN, Jon**

Jon Sandelin graduated from the University of Washington with a degree in Chemistry in 1962, served four years as a Naval Officer on the U.S. submarine Ronquil, and then earned an M.B.A. from Stanford University in 1968. He returned to Stanford University in 1970 as the Financial Officer of the Stanford Computer Center; he later became the Associate Director of the Center. He joined Stanford's Office of Technology Licensing (OTL) in 1984. At the OTL, he was responsible for licensing all forms of intellectual property, including inventions, computer software, and university trademarks. Mr. Sandelin has served as a consultant for the licensing of research-related inventions to other universities, nonprofit research organizations, and governments. He is the author of many articles on technology transfer through licensing, and has given numerous workshops and presentations on this topic in the United States and overseas. Mr. Sandelin served two terms as a vice president of the Association of University Technology Managers (AUTM), where he was responsible for developing AUTM's overseas relationships. He is also past president of the Association of Collegiate Licensing Administrators (ACLA). On July 1, 2002, he was selected to serve a three-year term on the Public Advisory Committee for the U.S. Patent and Trademark Office (USPTO). This Committee prepares an annual report for the U.S. President and Congress on the operations of the USPTO. He was granted emeritus status in March 2003, and now devotes most of his time to consulting projects, primarily for overseas clients.

#### **SASSON, Albert**

Professor Albert Sasson, a Moroccan, is a world-renowned international consultant in biotechnology. He has authored more than 200 publications concerning his research and popularization activities in soil microbiology, algology, and agrobiolgy. He has published books and contributed to publications on biology teaching, environment and development issues, biotechnologies, and food and nutrition. *Biotechnologies in Developing Countries* is one of his outstanding publications.

Professor Sasson is a prolific speaker, with invaluable information and insight in the areas of cloning, genetically modified foods, the use of biotechnology in agriculture and its possible impact on man and the environment, and ethical and legal issues related to biotechnology. He has expert knowledge of how biotechnology can reduce poverty and the successes and failures of its application worldwide.

After a career as a university dean, he joined UNESCO in 1974, where he served as Special Advisor to the UN for over 27 years. Since January 2000, Prof. Sasson has been senior consultant to UNESCO, Moroccan institutions, and the company Publicis Dialog (Paris). He provides special advice to governments worldwide on the development of national policies on biotechnology, and is an advocate for the adaptation of technologies by the third world for their social and economic development.

Professor Albert Sasson is a man with a passion for science, especially for discoveries in the life sciences. He is truly fascinated with the application of science to food, agriculture, medicine, pharmaceuticals, energy, the environment, and bio-remediation.

#### **SATYANARAYANA, Kanikaram**

Kanikaram Satyanarayana holds a doctorate degree in biosciences. After a brief postdoctoral stint, he joined the Council of Scientific and Industrial Research in New Delhi. In 1980, he moved to the Indian Council of Medical Research (ICMR). He is involved in science and technology policy and evaluation, and is Chief of the Intellectual Property Rights Unit. For over twenty years, he has worked extensively in the areas of science and technology evaluation and science policy issues; he was instrumental in the formulation of Indian national policies in these areas.

In 1996, Dr. Satyanarayana published the first guidelines for promoting industry-academia partnerships in medical research in *Contract Research, Consultancy and Technology Transfer policy of the ICMR*. These guidelines are currently being revised to be in agreement with the new WTO and IPR regimes. He has organized several training workshops on WTO and IP rights issues for the benefit of scientists at ICMR institutes, medical colleges, and other institutes. Some of these training workshops were conducted with international funding (WHO). He set up the Intellectual Property Rights Unit at the ICMR in 1999 and brought out the *Intellectual Property Rights Policy of ICMR* in 2002. He is a member of several national committees on intellectual property and has participated in several national and international conferences on such topics as globalization, the impact of TRIPS on public health, access to health care in developing countries, and so on. An active researcher, he has obtained competitive grants from various agencies in

India and the World Health Organization. He has also published several papers in national and international journals. He is closely associated with the U.K.-based Centre for the Management of intellectual property in Health R&D (MIHR) and has contributed to their Manual for Technology Transfer Managers. Currently, he is the only member of the International Editorial Board of the second edition of this *Handbook* who is from a developing country. He is a founder and Secretary of the Society for Technology Management, India, and is currently a Senior Deputy Director-General and Chief of the Intellectual Property Rights Unit at the ICMR.

#### **SCHNEIDERMAN, Anne M.**

Anne M. Schneiderman is an intellectual property lawyer in private practice in Ithaca, New York. A scientist and registered patent attorney, Dr. Schneiderman counsels clients in a wide range of high-technology industries, including biotechnology, pharmaceuticals, medical devices, agrosience, and mechanical and electrical engineering. Her law practice is involved in the following activities: worldwide patent procurement; conducting due diligence reviews for financings, collaborations, and partnering deals; the preparation of patentability, freedom-to-operate, noninfringement, and validity opinions; and the analysis, development, and establishment of intellectual property portfolios.

Before establishing her law offices, Dr. Schneiderman served as in-house counsel and director of intellectual property for a high-technology start-up company. She then practiced for six years with Pennie & Edmonds LLP, a leading U.S. intellectual property law firm (now dissolved) in their Palo Alto and Manhattan offices.

Dr. Schneiderman is a graduate of Stanford University, with degrees in biological sciences (B.S. with distinction) and law (J.D.). She also holds a Ph.D. in neurobiology from Harvard University. Before becoming a lawyer, she was a neurobiologist with academic appointments at Cornell and Yale Universities. Dr. Schneiderman's training in both science and law has allowed her to assist scientists, inventors, and management teams in transforming their ideas into patentable inventions.

#### **SCHUBERT, Karel R.**

Dr. Karel R. Schubert is internationally recognized for his academic and industrial work on plant and microbial biochemistry, molecular biotechnology, metabolic engineering, and for his discovery of natural products and genes to control pests, pathogens, and parasites.

Dr. Schubert received his B.S. degree in chemistry (Magna Cum Laude), from West Virginia University in 1971, and M. S. and Ph.D. degrees in biochemistry from the University of Illinois, Urbana-Champaign, in 1973 and 1975. After completing his doctoral degree, Dr. Schubert was a Research Fellow in the Department of Botany and Plant Pathology at Oregon State University. He received additional postgraduate training in nematology at the University of California, Davis. He was an Assistant and Associate Professor of Biochemistry at Michigan State University, a Research Manager with Monsanto, Assistant Director of the Center for Plant Science and Biotechnology at Washington University, and Director of the Plant Genetic Resources Center at the Missouri Botanical Garden.

From 1990 to 2000, Dr. Schubert held The George Lynn Cross Endowed Chair of Botany and Microbiology and OCAST Most Eminent Scholar at the University of Oklahoma. While in Oklahoma, Dr. Schubert also founded ProTech, Inc., an Oklahoma-based start-up company, and served as Chief Executive Officer and Director of Research. In August 2000, Dr. Schubert joined the scientific and administrative staff of the Donald Danforth Plant Science Center, as the Vice President for Technology Management and Science Administration. As VP for Technology Management and Science Administration, Dr. Schubert has been involved in technology transfer activities, patenting, and licensing within the agricultural and healthcare sectors. In addition to his administrative responsibilities, Dr. Schubert has focused on humanitarian projects, including the nutritional biofortification of cereal and root crops. Dr. Schubert has been involved in the formation of PIPRA and served as the Chairman of its Executive Committee.

#### **SEKI, Akinori**

Akinori Seki is president of the Sasakawa Peace Foundation (SPF), an organization committed to fostering international understanding, exchange, and cooperation. Seki studied at the Gakushuun University of Economics and received his Ph.D. from the London School of Business.

He worked for many years for the Marubeni Corporation, where he became General Manager (Strategies and Coordination) and Deputy Executive Officer (Corporate Strategies Department). He also lived in Africa briefly as President of Gambia Fisheries' Co. Ltd. He joined the SPF in 1999, initially as Program Director, before becoming Chief Operating Officer, then Executive Director, and now President.

He has served as an advisor to many organizations, including the Myanmar Economic and Management Institute, the United Nations Industrial Development Organization (UNIDO), and the University of Cambodia, and he was a committee member of KEIDANREN and of the study group for Indo-China. He serves on the Board of Directors of the Bellagio Forum and is Member of the Advisory Committee, UNIDO (Tokyo Office). He is an Honorary Professor of Tafaccur University, in the Republic of Azerbaijan.

#### **SERAGELDIN, Ismail**

Ismail Serageldin is Director of the Library of Alexandria and also chairs the Boards of Directors for each of the Biblioteca Alexandria's affiliated research institutes and museums. He is also a Distinguished Professor at Wageningen University in the Netherlands. He serves as Chair and Member of a number of advisory committees for academic, research, scientific and international institutions and civil society efforts, including the Institut d'Egypte (Egyptian Academy of Science), TWAS (Third World Academy of Sciences), the Indian National Academy of Agricultural Sciences, and the European Academy of Sciences and Arts. He is former Chairman of the Consultative Group on International Agricultural Research (CGIAR, 1994-2000), Founder and former Chairman of the Global Water Partnership (GWP, 1996-2000) and the Consultative Group to Assist the Poorest (CGAP), a microfinance program (1995-2000).

Serageldin has also served in a number of capacities at the World Bank, including as Vice President for Environmentally and Socially Sustainable Development (1992-1998), and for Special Programs (1998-2000). He has published over 50 books and monographs and over 200 papers on a variety of topics, including biotechnology, rural development, sustainability, and the value of science to society. He holds a Bachelor of Science degree in engineering from Cairo University and a Master's and Ph.D. from Harvard University. He has received 19 honorary doctorates.

**SHEVELUKHA, Victor S.**

Victor Shevelukha was born in 1929, currently lives in Moscow, and is head of the Agricultural Biotechnology Department, Russian State Agrarian University, Moscow. He is a member of the V.I. Lenin All-Union Academy of Agricultural Sciences (VASKhNIL), the Russian academy of Agricultural Sciences, the International Academy of Agrarian Education, the Slavonic Academy, the Agrarian Academy of the Belarus Republic, the International Academy of Informational Sciences, and the Academy of Natural Sciences, among other public academies.

Victor has authored more than 400 scientific works, including 10 monographs and manuals on plant production, plant breeding, seed production, agricultural biotechnology, plant physiology, and agricultural economic policy. He has advised 45 Ph.D. students and 12 doctors of sciences and is currently Chairman of the Scientific Council in RSAU-MAAS, which confers doctorate degrees in the fields of genetics, biotechnology, plant breeding, and seed production.

He worked as a senior agronomist at MAAT's training farm, Druzhba, in the Yaroslavl region (1955-1957); as a secretary of the Ryazantsev CPSU district committee, Yaroslavl region (1957-1959); as the head of agricultural department, Yaroslavl CPSU regional committee; as the first vice-chairman of Yaroslavl regional executive committee (1959-1964); as senior lecturer, associate professor, professor, and head of Crop Science Department at the Belarus Agricultural Academy (1964-1973); the director of Belarus Research Institute for Arable Farming (1973-1974); a secretary of the Central Committee, Belarussia Communist Party (1974-1979); a Deputy Minister of Agriculture of the USSR; a member of Collegium in the USSR Ministry of Agriculture (1979-1983); academic-secretary of Plant Production and Breeding Department, V.I. Lenin All-Union Academy of Agricultural Sciences and Russian Academy of Agricultural Sciences (1983-1994); a deputy of the State Duma, Federal Assembly of the Russian Federation; and vice-chairman of the Committee for Education & Science, the State Duma (1994-2000).

Prof. Shevelukha is also a member of both the Russian Federation Union of Writers and the Russian Federation Union of journalists. He has written and published 10 volumes of fiction and sociopolitical journalism.

Finally, Victor has been awarded the K.A. Timiryazev and V.I. Vernadsky gold medals, orders and medals of the USSR, Russia, and foreign countries, and honorary deeds and titles from the State Duma (Russian Parliament), the Federal Assembly of the Russian Federation, the Ministry of Agriculture, and the Ministry of Education and Science.

**SHORT, Jay M.**

Jay M. Short is the Founder, President, and Chairman of the E.O. Wilson Biodiversity Foundation. He has more than 20 years' experience working in biotechnology-based businesses, environmentally compatible development, and the commercialization of products derived from biodiversity. He is a Founder of Diversa and has also served as its CEO, President, and CTO. During his tenure, the company established the first agreement ever negotiated with a National Park to access biodiversity for commercial development. Under Dr. Short's stewardship, Diversa established similar pioneering agreements with Russia, Ghana, Kenya, Mexico, Bermuda, and Indonesia. These agreements were in alignment with and even exceeded the recommendations of the Convention on Biological Diversity. The company was also the first to generate biodiversity access royalties for Costa Rica.

Dr. Short led the company's highly successful initial public offering (IPO), which raised over \$200 million in gross proceeds; at the time, it was the largest biotechnology IPO ever completed. His team also raised \$300 million in committed funding from corporate partners, including Novartis, Syngenta, Dow, Merck, Dupont, Danisco, Givaudan, and Cargill. Dr. Short invented key genomic technologies for the discovery and optimization of products from microbial genes and gene pathways; these technologies are used in industrial, chemical, agricultural, and pharmaceutical applications. Under his leadership, Diversa was one of Deloitte and Touche's "Technology Fast 50" for every year following the company's IPO. Dr. Short also directed industry-leading efforts in bioethics through Diversa's pioneering practice of establishing equitable benefit-sharing relationships with countries that provided genetic materials.

Before joining Diversa, Dr. Short served as President of Stratacyte and V.P. of R&D and Operations at Stratagene. Dr. Short earned his B.A. in chemistry at Taylor University and his Ph.D. in biochemistry at CWRU. He is the author of more than 100 publications and is named as inventor on more than 100 issued patents. His patents were cited by *MIT Magazine* as among the top 10 in the world both in 2003 and 2004 across all industries. He received San Diego's 2001 E&Y Entrepreneur of the Year Award and was the recipient of two first-place awards granted by the UCSD-Connect Program, which recognizes innovation in biotechnology. In 2003, he received the ABL Innovations in HealthCare Gold Award; in 2004, he received the Henry F. Whalen, Jr. Award for Business Development from the ACS. Dr. Short has served on the National Research Council (NRC) panel for the National Institute of Standards and Technology (NIST) and numerous other governmental committees. He currently serves as a Director for Invitrogen, Senomyx, and Anaptys. He is Entrepreneur-in-Residence for UCSD-Connect. In addition, he is an advisor for City National Bank, a fellow of the Explorer's Club, and is founder and co-owner of Capia IP.

**SHOTWELL, Sandra L.**

Sandra L. Shotwell is a Founder and Managing Partner of Alta Biomedical Group, a consulting firm specializing in technology commercialization. Her current clients at Alta Biomedical Group include both early-stage and established companies, as well as research institutions and nonprofit organizations.

Dr. Shotwell has over 20 years' experience in managing technologies on behalf of U.S. and international research organizations and corporations. She has extensive experience in license negotiation, the development of business strategies, and the management of research administration. Her technology management experience includes positions at Stanford University and the European Union's Joint Research Center. She established the National Institutes of Health (NIH) Technology Licensing Branch, where she directed licensing for the NIH, the Centers for Disease Control, and the Food and Drug Administration. She served as Director of Technology and Research Collaborations at Oregon Health Sciences University (OHSU), where she was responsible for technology licensing, company spinouts, research grants and contracts, and company-sponsored research. While at OHSU, she assisted in the creation of six new spinout companies.

Dr. Shotwell currently serves on the Board of Directors of the Oregon Bioscience Association and the International Sustainable Development Foundation. She has previously served on the Boards of Virogenomics, Inc., the Stanford OTL Gap Fund, and the Association of University Technology Managers. She is active in the Licensing Executives Society and the Association of University Technology Managers. Dr. Shotwell did her undergraduate work at Princeton University, earned a Ph.D. in Biology from the California Institute of Technology, and did postdoctoral research in Neurobiology at Stanford University School of Medicine.

#### **SLATE, Peter J.**

Peter J. Slate is the founding Chief Executive Officer of Arizona Technology Enterprises, the technology licensing and venturing arm of Arizona State University. Mr. Slate has extensive experience as an entrepreneur and advisor to emerging and start-up venture companies. He has also held senior business development and strategy positions with public and private companies, including Baxter International, where he was Director of Corporate Strategy and the founder of Baxter's Global Technology Outlicensing Group, and Zenith Electronics, where he played a key role in the company's operational and financial restructuring. Prior to joining Zenith, Mr. Slate was the Vice President and Associate General Counsel of Primecare International, Inc., a leading physician practice management company, where he oversaw acquisitions and financing transactions. Mr. Slate began his career as a corporate attorney with the law firm of Katten, Muchin, and Zavis in Chicago, specializing in mergers and acquisitions, securities, private equity, and technology development transactions.

Mr. Slate has a B.A. from the University of Michigan, a Juris Doctorate from George Washington University, and a Master's in Business Administration from the Kellogg Graduate School of Management at Northwestern University. He has served on a number of corporate and philanthropic Boards of Directors and is a past Chairman of the Chicago Chapter of the Licensing Executives Society (LES). Mr. Slate lectures regularly on the subjects of technology and investment due diligence, venture capital, strategic alliances, and licensing.

#### **SLOMAN, Robert G.**

In May 1992, Robert G. Sloman acquired exclusive rights to develop and license technology transfer management software from his former employer, Washington Research Foundation. The software was originally designed by Mr. Sloman and his WRF team. In October 1992, he founded Inteum Co. and began to develop and license the software. Inteum Co. has grown to be the leader in its field, with software installations across North America and around the world. The head office of Inteum is in Kirkland, Washington, and there is a branch office in Akron, Ohio. Inteum has long-term business relationships with several companies that contribute to its services and products. In 2000, the originally licensed software was superseded by a completely new system, designed in-house and called Inteum C/S. Mr. Sloman has hired and trained a highly successful team of individuals with diverse backgrounds and established Inteum Co. LLC as an internationally recognized, vital, and successful organization. The team members are also company shareholders.

Mr. Sloman had prior professional experience with Flow Systems, Inc. in Kent, Washington and Monsanto Australia Ltd. in Melbourne, Australia. He has developed an effective management style and a structured, managed approach to growth, focusing on managing talented people effectively and providing a rigorous infrastructure to support them.

#### **SODERSTROM, Jon**

Jon Soderstrom is currently the Managing Director of the Office of Cooperative Research at Yale University. The Office manages the intellectual assets created at Yale in order to achieve the maximum benefit for the public and provide a financial return that will support the university's research efforts. He is responsible for (1) developing and managing the intellectual property portfolio, (2) defining and executing commercialization strategies, including the negotiation of licenses and corporate-sponsored research agreements, and (3) developing and marketing business concepts for new spin-off ventures to the investment community. Since joining the Office in 1996, he has participated in the formation of more than 25 new ventures, including polyGenomics, Molecular Staging (acquired by Qiagen), Agilix, Asilas Genomic Systems, Achillion Pharmaceuticals (NASQ: ACHN), PhytoCeutica, Protometrix (acquired by Invitrogen), Iconic Therapeutics, Applied Spine Technologies, HistoRx, and VaxInnate. Collectively, these companies have raised over \$350 million in professional venture capital.

Prior to holding this position, Dr. Soderstrom was the Director of Program Development for Oak Ridge National Laboratory (ORNL); previously, he had served for ten years as Director of Technology Licensing for Martin Marietta Energy Systems. In the Office of Technology Transfer, he directed a group of ten professionals responsible for negotiating licenses and Cooperative Research and Development Agreements (CRADAs). Dr. Soderstrom was a founding board member and past president of the Association of Federal Technology Transfer Executives. He is also a member of the Licensing Executive Society and the Association of University Technology Managers (AUTM). He is the President-Elect of AUTM, has served

as Vice President for Public Policy, and is a member of the Board of Directors and Executive Committee. He is frequently asked to lecture and teach seminars on various aspects of the technology transfer process and economic development both within the United States and abroad. He has testified before Congress on technology transfer issues and served as an expert witness in patent infringement litigation.

In addition to his professional accomplishments, Dr. Soderstrom was honored as the 87th "Point of Light" by President George H. W. Bush in March of 1990 for his volunteer work in constructing and rehabilitating low-income housing in East Tennessee. Dr. Soderstrom received his Ph.D. from Northwestern University in 1980 and his A.B. from Hope College in 1976.

#### **SOEJARTO, D. D.**

A plant taxonomist and economic botanist by training, Professor Soejarto is best known for his more than 40 years of plant exploration work, which covers more than 20 countries. He has established three Herbarium Research Institutions (in Colombia, the Philippines, and Vietnam). He was honored as Founder of the Herbarium of the University of Antioquia (Medellin, Colombia), during a 2004 national conference on medicinal plants that celebrated the founding of the herbarium and the deposit of its 100,000th specimen. During his exploration program in Southeast Asia under the U.S. National Cancer Institute's funding (1986-2004), the anti-HIV calanolides were discovered from a species of *Calophyllum* trees of Malaysia.

He is a co-author, together with the NCI scientists, of the calanolides patent, and was elected University of Illinois Senior University Scholar, 1996-1999. He developed an expertise in pharmacognosy and IP issues as a result of a long period of association with chemist and biologist colleagues, as well as with the Office of Intellectual Property/Technology Management at the University of Illinois, Chicago. He has served as Editor of *Journal of Ethnopharmacology* (1988-2004), and is currently a member of the editorial board of five scientific journals. He has been a recipient of an NIH/FIC ICBG grant as Principal Investigator for two cycles (1998-2003; 2003-2008), and is author and co-author of more than 200 scientific papers and book chapters, and three books.

#### **SOMERSALO, Susanne**

Susanne Somersalo has her Ph.D. in Plant Physiology from the University of Turku, Finland. After an academic career at the University of Turku and University of Helsinki, Dr. Somersalo served several years in Helsinki University's licensing office as project manager and research evaluator. She then earned a master's degree in Intellectual Property Law at Franklin Pierce Law Center, New Hampshire, U.S.A. She is a registered patent agent with the U.S. Patent and Trademark Office and currently works as an IP specialist in the Washington, D.C.-based law firm Dodds and Associates.

#### **SOUTHAVONG, B. H.**

Professor Bounhong Southavong is a pharmacist and pharmacognosist with special expertise in the study of Lao Traditional Medicines, especially medicinal plants. Since 1997, he has been Director of the Traditional Medicine Research Center, Ministry of Health of Laos,

Vientiane, Lao P.D.R. He is also President of the Council of Medical Sciences, and has been Vice President of the National Ethic Committee on Medical Sciences Research, and of the Council of Medical Care Professionals of the Ministry of Health of Laos. The Project Leader of an ICBG program since 1998, he has the responsibility of implementing research on the studies of medicinal plants of Laos. One outcome of this ICBG program is the Lao Biodiversity Fund (LBF), established in 2004, for which he serves as Vice President. The mission of LBF is to promote the sustainable utilization of Lao plant resources, the conservation of biodiversity (in particular, medicinal plants), community development, and the protection of Lao Traditional Medicines.

#### **STEINBOCK, Martha Bair**

Martha Bair Steinbock serves as the Deputy Assistant Administrator, Office of Technology Transfer, Agricultural Research Service (ARS), U.S. Department of Agriculture (USDA), in Beltsville, Maryland. In this capacity, she helps oversee the national technology transfer efforts of the USDA, including the development of cooperative research agreements. She also serves as the U.S. Executive Secretary for the US-EC Task Force on Biotechnology Research. Prior to becoming Deputy Assistant Administrator, Ms. Steinbock was the Technology Transfer Coordinator for the Pacific West Area of ARS. She has also worked as an international affairs specialist for the USDA Office of Agricultural Biotechnology and the USDA Foreign Agricultural Service. Prior to joining USDA, she worked as a consulting economist for the Food and Agriculture Organization of the United Nations in Rome, Italy. Ms. Steinbock received a Masters degree in International Affairs from the Johns Hopkins University, School of Advanced International Studies, and did her undergraduate studies at Portland State University and Reed College, in Portland, Oregon. Ms. Steinbock is a native of northern California, where she was raised on a family farm.

#### **STEVENS, Ashley J.**

Dr. Stevens has been Director of the Office of Technology Transfer at Boston University since 1995 and is also Director for Research Programs in the Institute for Technology Entrepreneurship and Commercialization in the School of Management, where he teaches a graduate level, inter-disciplinary course on Technology Commercialization. Before joining Boston University, he was Director of the Office of Technology Transfer at the Dana-Farber Cancer Institute, a teaching affiliate of the Harvard Medical School.

Prior to entering the technology transfer profession, Dr. Stevens worked in the biotechnology industry for nearly ten years. He was a co-founder of Kytogenics, Inc., where he is still a Director. He was also co-founder and General Manager of Genmap, Inc., and Vice President of Business Development for BioTechnica International. He started his career with The Procter & Gamble Company, where he held a number of positions in sales, marketing, strategic planning, and acquisitions.

Dr. Stevens is very active with the Association of University Technology Managers, most recently as Vice President, Annual Meeting and Surveys, and publishes and lectures frequently on many aspects of technology transfer, including the Bayh-Dole Act, the economic

impact of technology transfer and its role in economic development, and the role of technology transfer in global health and technology valuation. AUTM presented him with the Bayh-Dole Award for 2007. Dr. Stevens holds a Bachelor of Arts in Natural Sciences, and a Master of Arts and a Doctor of Philosophy in Physical Chemistry from Oxford University.

#### **STREITZ, Wendy D.**

Wendy D. Streitz is the Director of Policy, Analysis, and Campus Services (PACS) in the University of California's central Office of Technology Transfer. The PACS unit coordinates the system-wide technology transfer program and has wide-ranging responsibilities, including developing and implementing policies, providing guidance for campuses and external entities regarding the University's policies and practices, training, and legislative analysis.

Prior to joining the University of California, Ms. Streitz was Associate Director of Intellectual Property and Technology Transfer at Auburn University in Alabama, where she was directly involved in the broad spectrum of technology transfer. Her caseload included technologies from both the physical and life sciences. Previously, she had spent twelve years as an electrical engineer and engineering manager at Westinghouse Electric Corporation, holding leadership positions in radar signal processing.

Ms. Streitz received a BS in Engineering from Harvey Mudd College and an MSEE from Johns Hopkins University.

#### **SWAMINATHAN, M. S.**

Professor M. S. Swaminathan has been acclaimed by *TIME* magazine as one of the twenty most influential Asians of the 20th century, one of the only three from India, the other two being Mahatma Gandhi and Rabindranath Tagore. He has been described by the United Nations Environment Programme as "the Father of Economic Ecology," and by Javier Perez de Cuellar, Secretary General of the United Nations, as "a living legend who will go into the annals of history as a world scientist of rare distinction." He was Chairman of the UN Science Advisory Committee, set up in 1980 to take follow-up action on the Vienna Plan of Action. He has also served as Independent Chairman of the FAO Council and President of the International Union for the Conservation of Nature and Natural Resources. He is the current President of the Pugwash Conferences on Science and World Affairs.

A plant geneticist by training, Professor Swaminathan's contributions to the agricultural renaissance of India have led to his being widely referred to as the scientific leader of the green revolution movement. His advocacy of sustainable agriculture leading to an "evergreen revolution" has made him an acknowledged world leader in the field of sustainable food security. The International Association of Women and Development conferred on him their first international award for his significant contributions to promoting the knowledge, skill, and technological empowerment of women in agriculture, and for his pioneering role in mainstreaming gender considerations in agriculture and rural development. Professor Swaminathan was awarded the Ramon Magsaysay Award for Community Leadership in 1971,

the Albert Einstein World Science Award in 1986, and the first World Food Prize in 1987.

Professor Swaminathan is a Fellow of many of the leading scientific academies of India and the world, including the Royal Society of London and the U.S. National Academy of Sciences. He has received 55 honorary doctorate degrees from universities around the world. He currently holds the UNESCO Chair in Ecotechnology at the M. S. Swaminathan Research Foundation in Chennai (Madras), India, and was Chairman of the National Commission on Agriculture, Food, and Nutrition Security of India until October 2006.

#### **SYDARA, K.**

Associate Professor Kongmany Sydara is a natural product chemist with special expertise in the isolation of biologically active compounds from Lao plants and in the standardization of Lao Traditional Medicines. He is the Deputy Director of the Traditional Medicine Research Center, Ministry of Health, Vientiane, Lao P.D.R. Since 1998, he has served as a Co-Project Leader of an ICBG program, with responsibility for implementing the studies of medicinal plants of Laos. He is co-author of more than 10 scientific papers and books.

#### **TARZIAN SORENSEN, J. A.**

Dr. Jill Tarzian Sorensen is Associate Provost and Director of the Office of Licensing and Technology Development at Johns Hopkins University. She is an IP lawyer with nearly 20 years of law and business experience. She has spent 18 of those years at the University of Illinois at Chicago, where she served as Assistant University Counsel and then Associate University Counsel beginning in 1987. In 1998, she became Director of Technology Management and Assistant Vice Chancellor for Research, reorganizing the office according to a decentralized model responsive to the needs of the university's schools and faculty. In five years, her office nearly doubled the university's invention disclosures and the number of licenses it executed. The office also promoted new models of technology transfer, including leveraging intellectual property, particularly in global health, for sustainable economic development in developing countries. Last year, she assumed a new position as Director of Health Initiatives, building international partnerships focused on global health.

#### **TAUBMAN, Antony**

Antony Taubman is currently Acting Director and Head of the Global Intellectual Property Issues Division (including the Traditional Knowledge Division and Life Sciences Program) of WIPO, a position he assumed in May 2002, with responsibility for programs on intellectual property and genetic resources, traditional knowledge and folklore, the life sciences, and related global issues. After a diplomatic career, he left the Australian Department of Foreign Affairs and Trade (DFAT) in 2001 to join the newly formed Australian Centre for Intellectual Property in Agriculture, at the Australian National University, teaching and researching on international IP law. From 1998 to 2001, he was Director of the International Intellectual Property Section of DFAT, and in that capacity was engaged in multilateral and bilateral negotiations on intellectual

property issues, domestic policy development, regional cooperation, and TRIPS dispute settlement. He has taken part in many training and capacity building programs on intellectual property law and TRIPS in Australia and a number of Asian countries. He has authored a training handbook on intellectual property and biotechnology, a comprehensive study on the implementation of the TRIPS Agreement, and a range of academic and general publications on international intellectual property law and policy. He has held a teaching appointment at the School of Law at the University of Melbourne, delivering a specialist postgraduate course on TRIPS Law and Practice.

He joined DFAT in 1988 as a career diplomat, and his service included disarmament policy and participation in the negotiations on the Chemical Weapons Convention, a posting in the Australian Embassy in Tehran as Deputy Head of Mission, and a posting to the Hague as Alternate Representative to the Preparatory Commission for the Organisation for the Prohibition of Chemical Weapons and Chair of the Expert Group on Confidentiality. He previously worked for WIPO from 1995 to 1998; his duties then included development cooperation in Asia and the Pacific, the development of the revised WIPO program and budget, and associated policy development. A registered patent attorney, he worked in private practice in the law of patents, trademarks, and designs in Melbourne in the 1980s. His tertiary education has included computer science, mathematics, engineering, classical languages, philosophy, international relations and law, and he has taught ancient Greek philosophy at Melbourne University.

#### **TERNOUTH, Philip**

Philip Ternouth is the Associate Director for R&D and Knowledge Transfer at the Council for Industry and Higher Education (CIHE). He is also a Regional Advisor for Knowledge Transfer Partnerships, a U.K. government-sponsored program that employs graduates who are supervised by researchers and work with companies on business transformation projects. He originally read Natural Sciences at Sidney Sussex College at Cambridge University. He then spent the next 11 years in research, urban regeneration projects, and management in the public sector. In 1985, he went into the IT industry, specializing in pre-sales consultancy. He then moved into marketing. In 1995, after five years of board-level appointments in small companies and management and marketing consultancies, he joined Vuman Limited, the technology exploitation company of the University of Manchester, where he became Business Development Director.

Since 2000, he has been active in a number of knowledge transfer activities, including researching and writing “Knowledge Transfer, Towards a Strategic Framework” and “The Business of Knowledge Transfer” for the Council for Industry and Higher Education. He has chaired the board of a start-up company, Manchester Geomatics Limited. Recently, he researched and co-authored “International Competitiveness: Businesses Working with U.K. Universities.” He is currently engaged in editing for publication a set of case studies that illustrate the support of entrepreneurship in and around Oxford.

Mr. Ternouth is an active member of national and international organizations that provide mutual

support and professional development in the transfer of university technology to commercial application. He has presented numerous papers on aspects of technology and knowledge transfer at conferences in the U.K., U.S., and Europe. He has also undertaken a number of consultancy assignments in the U.K. and overseas for research institutions and governments, assisting them in developing their knowledge transfer agendas. He holds professional and postgraduate qualifications in marketing and is a member of the Institute of Directors.

#### **THANGARAJ, Harry**

Harry Thangaraj is Director of Research at MIHR. He began his career as a doctor after graduating from the Christian Medical College, Vellore, India. After completing a Ph.D. in Microbial Genetics in London in 1991, he worked until 2004 on various research projects involving pathogenic mycobacteria; he has several publications on this topic.

In 2005, Dr. Thangaraj completed a Master’s degree in Intellectual Property Management at Queen Mary University, London (QMUL), during which he was awarded a prize by Glaxo Smith Kline for highest scores in the Patent Law examinations. He worked as an intern both at the Enterprise and Innovation Office of St. George’s University London and at Bristows, one of the U.K.’s largest and oldest firms specializing in IP law. In 2006, he obtained a Certificate in Intellectual Property Law from QMUL, a foundational exam (part-qualification) for U.K. Patent Attorneys. He is currently involved with “Global Access Strategies” and the creative uses of IP management for the Pharma-Planta Consortium, an E.U.-funded initiative to develop plant-derived biopharmaceuticals for the treatment and diagnosis of diseases that disproportionately affect poorer populations of the world.

#### **THOMSON, Jennifer A.**

Jennifer Ann Thomson is Professor of Microbiology in the Department of Molecular and Cell Biology at the University of Cape Town, South Africa (UCT). Previously, she had held the positions of Head of the Department of Microbiology at UCT, the Director of the Laboratory for Molecular and Cell Biology at the Council for Scientific and Industrial Research, and Associate Professor in the Department of Genetics at the University of the Witwatersrand in Johannesburg. Her research involves the development of genetically modified maize that is resistant to the Maize streak virus (endemic to Africa) and tolerant to drought. She received an honorary doctorate from the Sorbonne University, Paris in 2005, and the UNESCO/L’Oreal award for Women in Science in 2004. She is Chair of the Board of the African Agricultural Technology Foundation, based in Nairobi, Kenya. She is a Director of the South African Pebble Bed Modular Reactor (Pty) Ltd. She has published a book, *Genes for Africa: Genetically Modified Crops in the Developing World*.

#### **THORNSTRÖM, Carl-Gustaf**

Carl-Gustaf Thornström is Associate Professor in social and economic geography. His teaching and research emphasize agricultural issues, natural resources management, and geopolitics. He is also a guest researcher in



genetic policies at the Swedish Biodiversity Centre, an adviser to the Swedish University of Agricultural Sciences (Sida), and a referee to the Swedish Government office regarding genetic policy issues. For more than 20 years, Dr. Thornström has worked with policy issues related to international agricultural research at SAREC, a department for research cooperation within Sida (Swedish International Development Cooperation Agency). Dr. Thornström's research focuses mainly on policy: genetic resources, intellectual property rights, and coherence issues that affect international agreements and processes; specific topics include life patents, GMOs, protection of traditional knowledge, enclosure of the biological/genetic commons, access to genetic resources, and proprietary science. Dr. Thornström was born June 18, 1946. He is married, with two children.

#### **TUCKER, William T.**

William T. Tucker was born in the U.K. and educated in Australia. He holds a B.Sc. (Hons) and a Ph.D. in Microbiology from the University of Queensland. Dr. Tucker has held postdoctoral research fellowships at Stanford University (with Professor Stanley Cohen) and at the Research School of Biological Sciences at the Australian National University in Canberra, Australia. He also holds an M.B.A. degree from St. Mary's College in Moraga, California.

Dr. Tucker's career has focused on agricultural biotechnology. During his ten-year tenure with Advanced Genetic Sciences, and later its successor organization, DNA Plant Technology, he worked first as a research scientist, and later in technology management and business development. He then joined Applera Corporation (Applied Biosystems in Foster City, California), where he was part of the team that licensed PCR technology for commercial applications. Dr. Tucker then joined the business development team at the agricultural genomics unit of Celera Genomics, where he sought out agricultural applications of molecular marker technology, high throughput sequencing, and related genomics platforms. He continued this work when Paradigm Genetics (based in North Carolina) acquired the plant-related part of Celera's agricultural genomics business.

In 2003, Dr. Tucker joined the Office of Technology Transfer at the University of California, Office of the President (UCOP), in Oakland, California, where he focused on the licensing of plant varieties developed by scientists at U.C. Davis and U.C. Riverside. Since 2004, Dr. Tucker has been the Executive Director of Research Administration and Technology Transfer at UCOP.

#### **VAN FLEET, Justin W.**

Justin W. van Fleet is the Founder and Principal educational consultant for The Advance Associates, an international education and development consulting company based in Washington, D.C. He specializes in the development of online and offline curricula, capacity-building and training programs, and evaluation methodologies for a variety of audiences. His most recent intellectual property and indigenous knowledge project involved the development and facilitation of a training program for South African small-scale farmers on intellectual property rights to promote and protect indigenous knowledge and resources.

Previously, he has held staff positions in educational capacities for NetAid (New York City), the Harvard University François-Xavier Bagnoud Center for Health and Human Rights (Boston), and the American Association for the Advance of Science's Science and Human Rights program (Washington, DC). He holds a Master of Education from the Harvard University Graduate School of Education and is currently pursuing his Ph.D. in International Education Policy at the University of Maryland.

#### **VAN MONTAGU, Baron Marc**

Baron Marc Van Montagu is an Emeritus Professor at Ghent University, and founder and Chairman of the Board of IPBO, the Institute for Plant Biotechnology for Developing Countries. He received a Ph.D. in organic chemistry/biochemistry from Ghent University in 1965, and served as the Director of the Department of Genetics at the Flanders Interuniversity Institute for Biotechnology, before joining the faculty at Ghent University in 1999.

Dr. Van Montagu has made pioneering contributions to plant gene discovery, including the discovery of the gene transfer mechanism between *Agrobacterium* and plants, which was central to the development of transgenic plants. His work at the Lab of Genetics, Ghent University, produced two spin-off biotech companies, Plant Genetic Systems (PGS) and Crop Design. His research at PGS led to the construction of the first herbicide tolerant plants, as well as the construction of the first plants producing the Bt (*Bacillus thuringiensis*) insecticide. His was listed among the top 100 living contributors to biotechnology by *The Scientist* magazine and, until 2004, was the most cited scientist in the field of Plant and Animal Science.

He is currently the President of the European Federation of Biotechnology (EFB) and the Chairman of the Public Research and Regulation Initiative (PRRI), and is a member of several other scientific advisory committees. He has been granted numerous prizes and awards in recognition of his pioneering research, including the Japan Prize and the Theodor Bucher medal. In 1990, he was granted the title of Baron by King Baudouin of the Belgians.

#### **VIJAYARAGHAVAN, K.**

K. Vijayaraghavan (Vijay) is a Certified Management Consultant (CMC) and a Fellow of the International Council of Management Consulting Institutes (ICMCI). He holds a Master's degree and Fellowship in public accounting and management consulting, with a focus on strategic and technology management consulting. He is the Chief Executive of Sathguru Management Consultants Pvt Ltd, a large consulting firm based in Hyderabad, India. Sathguru advises government organizations, multilateral and bilateral development institutions, private enterprises, and NGOs in several countries across the Asian region. Mr. Vijay is engaged in shaping a number of Indian policy initiatives in the life sciences, and is a member of selected national committees constituted for this purpose. Sathguru is also an Associate of the program Cornell-in-India. Mr. Vijay co-directs Cornell's program in India, which also extends to several other countries in Asia. He is a Regional Coordinator for ABSPII South Asian activities (in India and Bangladesh).

**VIKSINIS, Ann S.**

Ann S. Viksnins is an acknowledged expert in PCT law. She prepares and prosecutes patent applications in the biological arts, including molecular biology, immunology, plant sciences, and cellular biology. Ms. Viksnins graduated *cum laude* from St. Olaf College with a double major in biology and religion. At the University of Minnesota Law School, Ms. Viksnins earned a Juris Doctor degree *cum laude* and was an Editor of the *Minnesota Law Review*. Ms. Viksnins is also a graduate of the College of Biological Sciences at the University of Minnesota, where she earned a Master of Science degree in genetics. Ms. Viksnins has been practicing intellectual property law since 1992. She is a frequent writer and speaker on patent law issues, and has served in leadership roles in various professional organizations at the national level. Ms. Viksnins is a member of the Minnesota bar, a registered U.S. patent attorney, registered to practice before the U.S. Court of Appeals for the Federal Circuit, and the managing partner of the law firm of Viksnins Harris & Padys PLLP.

**VILJAMAA, Kimmo**

Kimmo Viljamaa is consultant at Advansis Ltd, Finland. He also works as a part-time researcher at the Research Unit for Urban and Regional Development Studies at the University of Tampere. His current work deals with various domestic and international development projects related to national and regional innovation policies. Recently, he has worked actively with these issues, particularly in several Eastern European countries. Before taking his current positions, he worked for seven years at the University of Tampere on various research projects related to regional innovation policy and regional development, including the Local Innovation Systems (LIS) project coordinated by the Industrial Performance Center at MIT. His recent research focuses on the dynamics of regional innovation systems, the interplay of technological development and regional development policy, regional industrial clustering, the role of universities in regional innovation systems, and the role of knowledge management in regional innovation policy.

**VU, Bui Minh**

Professor Bui Minh Vu is an economist with special expertise in forest economics. He is Director of the Institute for International Business Management and Training, Vietnam, and Chairman of the Forest Economics branch, Vietnamese Forestry Science Association. He is best known for his research on Agro-forestry economics. His work has been honored by the Vietnamese Agriculture and Rural Development Ministry, which presented him with its Hung King Award in 1981, and an Award of Science and Technology in 1986. He also received the Award for Forestry Development of Vietnam. Throughout his academic career, Professor Bui Minh Vu was associated with Hanoi University of Economics, Hanoi University of Agriculture, and the Institute for Agricultural Science Research, Hanoi University of Forestry. At the moment, he is a special expert in community development through a micro-loan program.

**WATAL, Jayashree**

Jayashree Watal has been a Counsellor in the Intellectual Property Division of the WTO since February 2001. Ms. Watal has more than 22 years of experience working in the Indian government; for ten of those years, she was devoted to policy, diplomacy, research, and administration on intellectual property rights. She worked in the Indian Ministry of Commerce as Director of the Trade Policy Division in New Delhi from 1995 to 1998, representing India at a crucial stage in the Uruguay Round TRIPS negotiations in 1989-90.

She has researched and published articles on issues related to intellectual property rights, including a book, *Intellectual Property Rights in the WTO and Developing Countries* (Oxford University Press, India and Kluwer Law International, 2001). She was a Visiting Scholar at the Center for International Development at Harvard University (2000), the Institute for International Economics, Washington, D.C. (Oct. 1998-August 2000), and the George Washington University Law School, Washington, D.C. (1997-2000).

**WATANABE, Kazuo N.**

Kazuo N. Watanabe is a research professor who studies plant genetic resources, IP rights issues, biosafety, and bioethics research at the Gene Research Center of the University of Tsukuba, Japan (2001–present). He has a part-time service to the International Plant Genetics Resource Institute (IPGRI) for providing his scientific expertise on plant genetics and biotechnology, including biosafety and IP rights aspects for developing countries.

After receiving his Ph.D. in plant breeding and plant genetics from the University of Wisconsin-Madison, Dr. Watanabe worked from 1988 to 1996 on the germplasm enhancement of tuber-bearing *Solanum* species for the Centro Internacional de la Papa (CIP) in Lima, Peru. CIP gives scientific and technical support regarding potato production and breeding to developing countries. From the end of 1991 to 1996, he was seconded to the Department of Plant Breeding at Cornell University as an adjunct assistant professor as part of a shuttle research program on *Solanaceae* molecular genetics. He was also an advisor to ISAAA for issues of biotechnology transfer in developing countries. Dr. Watanabe returned to Japan and was an associate professor at the Institute of Biology-oriented Science and Technology at Kinki University from 1996-2001. His work dealt with transgenic crops and biosafety issues associated with environmental risks to plant genetic diversity. Since his return to Japan, Dr. Watanabe has been serving the Japanese government in negotiation sessions at the Cartagena Protocol on Biosafety for the Convention on Biological Diversity (CBD). He also serves developing countries on plant genetic resources associated with issues related to the CBD and FAO-IT. Dr. Watanabe has served as a technical expert for projects involving plant genetic resources in several developing countries, as well as the global PGR program that has been run by the Japan International Cooperation Agency since 1996. Currently, he serves as a research review board member for the National Genebank Project, the Rice Genome Project, and the STAFF research institute of the Japan Bioindustry Association. Dr. Watanabe

is also an adjunct professor at Cornell University and the Institute of Advanced Studies at the United Nations University. He teaches courses on multi-disciplinary research activities that use plant genetic resources to build capacity and create policies in developing countries.

#### **WEIDEMIER, B. Jean**

B. Jean Weidemier is the principal of Cambridge Licensing Law, LLC. Ms. Weidemier's legal practice concentrates on technology transfer, and she has extensive experience in the following areas: patent and software licensing in life sciences and high-technology industries, university and nonprofit technology transfer, strategic collaboration agreements, research and development contracts, and related agreements. Prior to founding her own firm in 2005, Ms. Weidemier was employed in the following capacities: at Testa, Hurwitz & Thibault as Counsel in the Licensing Group; at the Massachusetts Institute of Technology as Counsel and Technology Licensing Officer; and at Hershey Foods Corporation as Counsel. Ms. Weidemier is a graduate of Dickinson College (B.A., Psychology) and the University of Richmond School of Law.

#### **WHITHAM, Michael E.**

Michael E. Whitham is a principal in the law firm of Whitham, Curtis, Christofferson & Cook. He has worked in the field of intellectual property law for over 20 years and has been frequently invited to lecture on topics such as inventorship, licensing, technology audits, and patent practice. His law firm is focused on intellectual property law. It handles the following issues: intellectual property licenses; litigation; contractual matters, including employee/consulting agreements, joint development agreements, material transfer agreements, supply agreements, and so on; counseling, including technology audits, patent evaluations, strategic acquisitions, patent development strategies, trademark branding strategies, and copyrighted material acquisition and distribution; patent preparation and prosecution; trademark and copyright registration; and antitrust. Mr. Whitham represents large and small companies, as well as several nonprofit research organizations and universities throughout the world (particularly in the U.S., Germany, Japan, Korea, and Brazil). Mr. Whitham is a licensed attorney and holds degrees in biochemistry, chemistry, and law. Mr. Whitham also serves on the Board of the Albert B. Sabin Vaccine Institute, a nonprofit organization dedicated to the development, supply, and use of vaccines by people throughout the world, particularly those in most need.

#### **WOLSON, Rosemary**

Rosemary Wolson is Intellectual Property Manager at the Council for Scientific and Industrial Research (CSIR) in Pretoria, South Africa. She has a B.Sc. (Hons) degree in Microbiology and an LL.B., both from the University of Cape Town. In her previous position as Intellectual Property Manager at the University of Cape Town (UCT), she participated in establishing UCT Innovation, the division responsible for UCT's technology transfer and research contract management functions. Her experience as an early technology transfer practitioner in a developing country sparked her interest

in broader policy issues related to the roles of innovation and intellectual property rights in promoting development; she takes on selected applied-research projects in these areas from time to time. She is also involved in various capacity-building and information-sharing initiatives in South Africa, other countries in Africa, and other parts of the world. She is a member of the International Advisory Committee of Public Interest Intellectual Property Advisors (PIIPA) and sits on the Executive Board of the Southern African Research and Innovation Management Association (SARIMA), a regional network of stakeholders.

#### **WYSE, Roger E.**

Roger E. Wyse is Managing Director and General Partner of Burrill & Company, a life sciences merchant bank and leading life sciences venture capital firm located in San Francisco, California. Dr. Wyse joined Burrill & Company in 1998 and has overseen venture capital investing, partnering, and the spinout of technology from large companies in the agricultural, nutraceutical, health and wellness, and industrial biotechnology fields. The firm has over \$850 million under management.

Dr. Wyse chairs or serves on the boards of 11 private companies. He is Co-Chairman of the newly formed \$150 million Malaysian Life Capital Fund. He is also a member of the International Advisory Panel for Biotechnology (BioIAP) for the Prime Minister of Malaysia. He was founder and Chairman of the Alliance for Animal Genome Research.

He has over 27 years of experience as an internationally recognized scientist and as a dean at two major research universities, Rutgers and the University of Wisconsin-Madison. Before joining Burrill & Company, Dr. Wyse served for five years as Dean of the College of Agricultural and Life Sciences at the University of Wisconsin-Madison. From 1986 to 1992, he was Dean of Research at Rutgers University.

Dr. Wyse earned international recognition for his basic studies in plant biochemistry. He has published over 150 scientific papers. In 1982, he received the prestigious Arthur Flemming Award for the Outstanding Young Scientist in the U.S. Federal Service. He was elected a Fellow of both the Crop Science Society of America and The American Society of Agronomy. He has also served as a consultant to numerous Fortune 500 companies.

#### **XU, Ji**

Ji XU, graduated from China Agricultural University, received post-graduate education in the United States (University of Maryland and California State University), and on-the-job training by United Nations Specialized Organizations in Italy/Rome, Thailand/Bangkok, and the Philippines/Cebu. He served the Chinese Ministry of Agriculture as a government officer and was then appointed by the Central Government as the Alternate Permanent Representative of P. R. China to the United Nations Agencies on Food and Agriculture in Rome. He has also served the Food and Agriculture Organization of the United Nations and was assigned by FAO as the Assistant FAO Representative in China. Currently, he is a Professor and Advisor of International Relations in China Agricultural University.

**XUAN, L. T.**

A plant physiologist, biochemist, and biotechnologist by training, Dr. Le Thi Xuan has dedicated more than 20 years of her research to plant tissue culture technology. She has been a major contributor in the establishment of plant biotechnology facilities and training in many research institutes throughout Vietnam, from 1975 to the present. From 1994 through 1999, she led a MacArthur Foundation-funded project as its Principal Investigator on the discovery of bioactive compounds in plants from the Cuc Phuong National Park, Vietnam. Since 1998, she has been Project Leader of an International Cooperative Biodiversity Groups (ICBG) program, responsible for implementing the bio-conservation of bioactive and threatened plants of Cuc Phuong National Park.

**XUAN, Vo-Tong**

Dr. Vo-Tong Xuan is a distinguished agricultural scientist, an outstanding educator, a low-profile institution builder, and a national and international leader in agricultural development.

As a scientist, he is widely recognized for his expertise in the management of saline and acid-sulphate soils and other problem soils in Vietnam. He is an expert in rice production and in rice-based farming systems, as well as in agricultural diversification in the Mekong Delta. His technical expertise and strong farmer-focused leadership in the Mekong Delta greatly increased rice productivity and contributed to the emergence of Vietnam as the third-largest rice exporting country in the world. Xuan has authored and co-authored six books and more than 100 technical papers about agricultural, rural development, and sustainable food security.

As an educator, he emphasized scientific as well as down-to-earth hands-on-training in the University of Cantho, at which he served as Chairman of the Departments of Bio-Agronomy and Agronomy, and Assistant Dean of Agriculture. He rose to the rank of Vice Rector of the University of Cantho and, in 2000, was elected President of Angiang University, a position he still holds.

As an institution builder, Xuan developed and strengthened the Mekong Delta Farming Systems Research and Development Institute and served as its Director from 1983 to 2001. He also served as FAO Project Coordinator for the establishment of Agricultural Service Centers for Small Farmers. He organized the Vietnam Farming Systems R & D Network and has been serving as its Coordinator since 1991.

As a national leader in agriculture, Dr. Xuan was appointed member of the National Council on Science and Technology, the National Council on Education, the National Council on Professorial Titles Advisory Council of the Vietnam Chamber of Commerce and Industry, the Steering Committee of the Vietnam-Holland Research Program on Rural Development, and the Consultants' Group to the Prime Minister.

As an international leader in agriculture, he is widely recognized for his integrated approaches to agricultural development and deep concern for efficient and effective use of natural resources, sustainability, and environmental issues, as well as, for food security problems of developing countries. He is a strong advocate of the farming system approach in agricultural development.

He has served in key positions in the following international organizations: Member, Board of Governors, Asian Institute of Management in Manila; Member, Board of Trustees of IRRI; Member, Board of Trustees of The Rockefeller Foundation; Member, Board of Trustees of the International Potato Center at Lima, Peru; Member, FAO's Advisory Committee on Farmer-Centered Agricultural Resource Management Program; Member, Technical Advisory Committee of the CGIAR; Member, Policy Advisory Council, Australian Centre for International Agricultural Research; Member, Advisory Council of the Asian Development Research Forum.

Dr. Xuan served as international consultant, lecturer of IFAD, FAO, DANIDA, SIDA, and IDRC-Singapore since the 1980's.

He received from the Prime Minister of Canada a certificate of recognition for his "dedication and contribution to the world of sciences." The Ministry of Agriculture, Fisheries and Forestry of the Republic of France, awarded him the "*Chevalier de l'Ordre du Merite Agricole Medal*." He was elected the 2002 Nikkei Asia Prize for Regional Growth; Most Distinguished Alumnus of the University of the Philippines College of Agriculture Alumni Association; Ramon Magsaysay Award for Government Service; and the 2005 ASTD Derek Tribe Award. Other awards include: the People's Teacher Award, Vietnam Farmers' Federation Medal "For the Cause of the Farmers' State Award as "Hero of the Working Class," Outstanding Scientific Achievement Award from the Prime Minister, Most Distinguished Alumnus Award from the University of the Philippines at Los Banos.

**YIN, Ronald**

Ronald Yin is a partner with DLA Piper US LLP. He specializes in patent law and has over 30 years of experience in this field. He received a B.S. in Physics from M.I.T., an M.S. in Applied Physics from Cornell University, and a J.D. from Georgetown University. He began practicing patent law at RCA Corporation in Princeton, New Jersey. He later moved to California, where he joined a small, multi-national company, Measurex Corp., where he was the sole in-house counsel. At Measurex, he had responsibility for general matters, as well as patent matters. After Measurex, he practiced for 20 years with the firm of Limbach, Limbach & Sutton, headquartered in the historic Ferry Building in San Francisco. After the firm dissolved, he joined the firm of Gray Cary Ware & Freidenrich, which merged with Piper Rudnick and DLA in 2004 and subsequently became DLA Piper. He is a member of the bar of the states of California and New Jersey, and is registered to practice before the U.S. Patent and Trademark Office. He is also a former member of the Executive Committee of the Intellectual Property Section of the State Bar of California.

**YOUNG, Terry A.**

Terry A. Young has more than 20 years experience in IP rights, innovation management, and technology commercialization. He was Assistant Vice Chancellor for Technology Transfer for The Texas A&M University System and Executive Director of its Technology Licensing Office. He currently serves as the Director of Research Development at the University of South Dakota.

He has started three technology transfer offices (TTOs) from scratch and led each office to success. He has also started two companies, one of them a university spinout that licensed university technology. From 2001-2002, he served as President of the International Association of University Technology Transfer Managers, which has nearly 4,000 members. He has made more than 55 trips abroad in the capacity of an expert consultant on IP rights and technology transfer issues. He has authored more than ten book chapters or journal articles on IP rights and technology commercialization, including a chapter entitled National Innovation Systems to be published in *Innovation and Business Partnering in Japan, Europe and the United States*, (London: Routledge, September 2006). In 2002, he was appointed a member of the National Academy of Engineering of the Czech Republic, in recognition of his work establishing an intellectual property and innovation commercialization regime in that country. In 2004, he was recognized by Nigerian academicians as the country's intellectual property Man of the Year. In 2005, he received a U.S. National Service Award for his contributions to economic growth in Eurasia. Also in 2005, he was appointed by U.S. President George W. Bush as one of only five members of the U.S.-Russian Innovation Council on High Technologies, whose goal was to improve scientific cooperation between the two countries.

**ZABLOCKI, Edward M.**

Mr. Edward M. Zablocki, M.S., C.I.P. has worked for 24 years in the area of research administration at the State University of New York at Buffalo. He graduated from Williams College *magna cum laude* with induction into the Phi Beta Kappa national honor society. Mr. Zablocki has a master's degree from the University at Buffalo, with a concentration in the area of public administration. He has been involved in a range of research administration activities, including developing a technology incubator, fostering university/industry relations, creating research centers, promoting the

University's contribution to local economic development, and promoting research compliance. He is presently the Research Subjects Protection Administrator, overseeing compliance with the ethical imperatives and regulatory mandates that apply to research involving humans and animals. Mr. Zablocki is a Certified IRB Professional (C.I.P.), which demonstrates his knowledge in the field of human research subject protection.

**ZUCKER, Howard A.**

Dr. Howard Zucker, M.D., J.D., is the Assistant Director General of the WHO for Health Technology and Pharmaceuticals and also the Representative of the WPO Director General for Intellectual Property, Innovation, and Public Health. He received his B.S. degree from McGill University and his M.D. from George Washington University School of Medicine. He trained in pediatrics at Johns Hopkins Hospital, anaesthesiology at The Hospital of the University of Pennsylvania, pediatric critical care medicine and paediatric anaesthesiology at The Children's Hospital of Philadelphia, and pediatric cardiology at Children's Hospital Boston at Harvard Medical School. He was an Assistant Professor at Yale University School of Medicine, an Associate Professor at Columbia University College of Physicians and Surgeons, Adjunct Associate Professor at Cornell University Medical School, research affiliate at M.I.T. and on the faculty at the National Institutes of Health. He received his J.D. from Fordham University School of Law and his Masters in Law from Columbia Law School. Dr Zucker served as a White House Fellow and most recently was Deputy Assistant Secretary of Health at the U.S. Department of Health and Human Services. He completed the National Preparedness Leadership Initiative Executive Education program at the Kennedy School of Government/Harvard School of Public Health and is admitted to the Bar of the Supreme Court of the United States. Dr Zucker is also a member of the Council on Foreign Relations and listed in Best Doctors in America and Who's Who in the World.