

a conference at Stanford University

photos courtesy Keita Suzuki and NASA



The Shape of Things to Come

Fisher Conference Center
Frances C. Arrillaga Alumni Center
Stanford University
January 17-18, 2008

New Patterns and Paradigms in Global Innovation Networks

A Forum on January 17, 2008

A Global Perspective on Regional Innovation Indicators

An Academic Workshop on January 18, 2008



STANFORD PROGRAM ON REGIONS OF
INNOVATION AND ENTREPRENEURSHIP
THE WALTER H. SHORENSTEIN ASIA-PACIFIC RESEARCH CENTER

Presented by SPRIE with generous support from:



工業技術研究院
**Industrial Technology
Research Institute**





The Shape of Things to Come

New Patterns and Paradigms in Global Innovation Networks

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8:15 REGISTRATION AND CONTINENTAL BREAKFAST

8:45 – 9:00 WELCOME

Henry S. Rowen, Co-Director, SPRIE

9:00 – 10:00 MORNING KEYNOTE

From Patterns and Paradigms to Pathways: Harnessing the Potential of Global Collaboration

John Hagel, Co-Chairman, Deloitte Center for Edge Innovation, Director, Deloitte Consulting LLP; co-author of *The Only Sustainable Edge*

Moderator: Marguerite Gong Hancock, Associate Director, SPRIE

10:00 – 12:00 SHIFTING INNOVATION NETWORKS IN CHINA

Innovation at Tencent

David Wallerstein, Senior Executive VP, International Business, Tencent

Internet Services—entrepreneurial innovation success stories & challenges for state-driven innovation-on-demand

Duncan Clark, Chairman, BDA

Innovations in China's e-Payment Market

Bin TANG, CEO and Co-Founder, YeePay

ICT Development Report for China

JIN Ju, Minister-Counsellor for S&T, Embassy of the People's Republic of China in the United States of America

Moderator: Harry S. Rowen, Co-Director, SPRIE

12:00 – 1:00 LUNCH

1:00 – 3:00 VENTURE CAPITAL AS NETWORK BUILDER: NEW PATTERNS

Comparing the Venture Capital Industries in China and India

Martin Kenney, Professor, Department of Human and Community Development, UC Davis; co-author of *Locating Global Advantage*

1:00 – 3:00 VENTURE CAPITAL AS NETWORK BUILDER: NEW PATTERNS (CONT.)

Partnering for Global Networks

Neal Bhadkamkar, Managing Partner, Monitor Ventures

The Role of Venture Capitalists in Innovation Networks

GAO Jian, Professor & Chair, Department of Innovation & Entrepreneurship, Tsinghua University, Beijing

How networks made the change from the “20-minute walk” domain to the “20 hour flight” domain

Robert Eberhart, Executive in Residence, Pacific Rim Partners

Moderator: William F. Miller, Co-Director, SPRIE

3:00 – 3:15 BREAK

3:15 – 4:30 PERSPECTIVES ON RAPIDLY MOVING TECHNOLOGIES

Benchmarking the Global “Cleantech” Venture Industry

Martin Haemmig, Co-Chairman for Research & Statistics at the Swiss Venture Capital Association (SECA)

Some Technology Development Experiences at AU Optronics

Fan LUO, Chief Technology Officer, AU Optronics, Taiwan

Moderator: Kyung H. Yoon, Vice Chairman, Heidrick & Struggles, Menlo Park

4:30 – 5:30 AFTERNOON KEYNOTE

Open Innovation in China's Semiconductor Industry

Henry Chesbrough, Executive Director, Center for Open Innovation, Haas School of Business, UC Berkeley; author of *Open Innovation: The New Imperative for Creating and Profiting from Technology*

Moderator: Chintay SHIH, Special Advisor, ITRI

5:30 – 6:30 NETWORKING RECEPTION



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FREEMAN SPOGLI INSTITUTE
FOR INTERNATIONAL STUDIES

This event made possible by generous support from:



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The Shape of Things to Come: New Patterns and Paradigms in Global Innovation Networks

Speaker Profiles for Thursday, January 17, 2008



Since 2007, **John Hagel III** has been the Co-Chairman of the Deloitte Center for Edge Innovation and Director, Deloitte Consulting LLP. From 2001 - 2007 he was an independent management consultant and author; from 1984 - 2000 he was a Principal with McKinsey & Company, where he founded and led McKinsey's Strategy Practice and Electronic Commerce Practice (1993-2000). At McKinsey he served a broad range of clients across the world, focusing on strategic management and operational performance improvement using information technology as a key enabler.

Hagel has authored numerous books, including: *The Only Sustainable Edge: Why Business Strategy Depends on Productive Friction and Dynamic Specialization* and *Out of the Box: Strategies for Achieving Profits Today and Growth Tomorrow through Web Services* (both with John Seely Brown); *Net Worth: Shaping Markets When Customers Make the Rules* (with Marc Singer); *Net Gain: Expanding Markets Through Virtual Communities* (with Arthur Armstrong), and others. He has published articles in a broad range of business publications, including the *Harvard Business Review*, the *Wall Street Journal*, the *Financial Times*, the *McKinsey Quarterly* and *CIO Magazine*.

Hagel earned the BA from Wesleyan University, the B.Phil from Oxford University, the JD from Harvard Law School and the MBA from Harvard Business School.

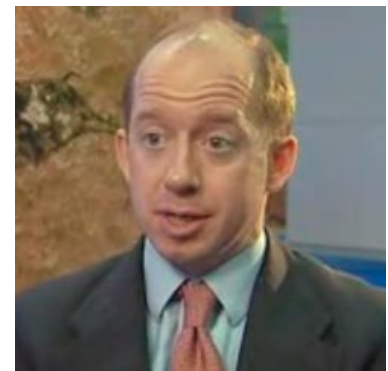
Duncan Clark is Chairman of BDA (www.bdaconnect.com), a company he founded in 1994. With a team of over 40 in Beijing covering China and North East Asia and an office of 10 in New Delhi opened in 2006, BDA is a leading advisory firm serving investors and participants in the telecom, media and technology (TMT) sectors in Asia.

BDA's initial client was Morgan Stanley, where Duncan had spent four years as an investment banker in London and Hong Kong focusing on corporate finance transactions in the TMT sectors. Today BDA's clients include telecom, media and technology clients and an array of financial institutions. Outside its home markets of China and India, BDA is engaged on assignments in other fast growing markets such as Vietnam and Indonesia, and has Japanese and Korean-language analysts tracking emerging technologies in North East Asia.

Duncan chairs the Advertising and Media Forum of the European Chamber of Commerce in China and has recently been elected to serve on the Executive Committee of the British Chamber of Commerce in China.

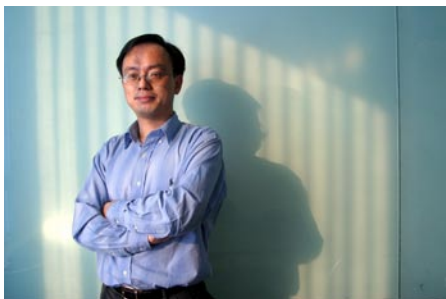
Duncan has also served on the Advisory Board of Chinese Internet portal Netease.com (Nasdaq: NTES) and as a Non-Executive Director of a Beijing-based software company invested by the International Finance Corporation (IFC).

Duncan holds a B.Sc degree in Economics with Honours from the London School of Economics & Political Science, and currently chairs the school's alumni group in China. A UK citizen, Duncan was raised in the UK, United States and France.



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Bin TANG is the CEO & Co-founder of YeePay; under Bin's leadership, YeePay has quickly become a leading electronic payment company in China. YeePay was named the Best e-Payment Platform by *China Electronics Society & China E-commerce Magazine* in 2006 and a Top Innovator by China Internet Society in 2005 and 2006. Before founding YeePay, Bin was in charge of server performance and scalability at Silicon Valley based Embrace Networks, a device to Internet service intelligent middleware platform provider. Before Embrace Networks, Bin held various positions at several Silicon Valley based software and Internet companies.

A frequent speaker at international conferences, Bin is also the co-founder and former president of SVCWireless, a Silicon Valley-based premier professional association with deep ties to the China wireless industry. He was instrumental in building SVCWireless from scratch to an influential association focused on wireless industry and cross-pacific business exchange with more than three thousand members. Bin received his MS in Electrical Engineering from Stanford University and BS in Physics from Nanjing University.

Martin Kenney is a Professor at the University of California, Davis and a Senior Project Director at the Berkeley Roundtable on the International Economy. He is a fellow at the Center for Entrepreneurship at UC Davis. He has authored or edited five books and over 120 scholarly articles on the globalization of services, the history of venture capital, university-industry relations, and the development of Silicon Valley. His two recent edited books *Understanding Silicon Valley* and *Locating Global Advantage* (with Richard Florida) were published by Stanford University Press where he is the editor of a book series in innovation and globalization. Currently, he is preparing a book on the history and globalization of the venture capital industry. He was a visiting professor at the Copenhagen Business School, Cambridge University, Hitotsubashi University, Kobe University, and Tokyo University. He has consulted for or presented to various organizations including the InterAmerican Development Bank, the World Bank, Presidential Council of Advisors on Science and Technology, National Academy of Engineering, National Academy of Sciences, National Research Council, Association of Computing Machinery, and the OECD and consulted for various firms. His research is currently supported by the NSF, the Sloan Foundation, and the Kauffman Foundation.



JIN Ju is now Minister-Counsellor for Science and Technology in the Chinese Embassy. In education background, he obtained a Bachelor of Mechanical Engineering, Master of Science in S&T Information, and Master of Science in Technology Management as a result of studying in United Kingdom. He has long been working in international cooperation in science and technology. From 1995 to 1997, he was posted as First Secretary in the Chinese Embassy in the United States. From 1997 to 2000, he was posted as Science & Technology Counsellor in the Chinese Embassy in Australia. From 2000 to 2005, he was Deputy-Director General in the Department of International Cooperation of the Ministry of Science and Technology. He was appointed as the Chinese Representative in the Commission of Science and Technology for Development in the United Nation from 2004 to 2005.

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Neal Bhadkamkar is co-founder and Managing Partner of Monitor Ventures. Before co-founding Monitor Ventures, Neal had a successful career in technology commercialization. As VP of Manufacturing and Engineering at Zowie Entertainment, Neal managed the design and development of analog and digital chips, PC software, as well as complex plastic components. At Interval Research, Paul Allen's research and commercialization company, Neal served as member of the research staff as well as heading the commercialization process. In that capacity he was responsible for transforming mature research projects into spin-off companies. Neal started his business career at the Boston Consulting Group where he worked closely with Teymour Boutros-Ghali (the two have had a long-standing professional and personal relationship since).

As a partner of Monitor Ventures, Neal focuses on transforming technologies for industrial and enterprise applications. He is on the Board of Directors of Nanostellar, an active Monitor Ventures investment. Neal is a graduate of the Indian Institute of Technology in Electrical Engineering, and holds an MBA from Harvard Business School and a PhD in Electrical Engineering from Stanford University.



GAO Jian is Professor and Chair of the Department of Innovation and Entrepreneurship, Executive Associate Director of the Research Center for Technological Innovation and Associate Director of the National Entrepreneurship Research Center in Tsinghua University.

He received his PhD from Tsinghua University and studied at the Sloan School in MIT and GSB in Stanford University as a visiting scholar. His papers on innovation and entrepreneurship have been published in *Research Policy* and *Asia Pacific Business Review*.

In addition to his role as Visiting Scholar in the US-Japan Technology Management Center at Stanford University where he conducts research on corporate governance, **Robert Eberhart** also serves as Executive in Residence at Pacific Rim Partners, LLC.

Formerly founding Chairman and Chief Executive Officer of WineInStyle KK in Tokyo, Japan, along with its wholly owned subsidiary in the United States, San Sonoma, Inc., Mr. Eberhart spent many years distributing California wines to the Japanese, Korean, Taiwanese, Chinese and other Asian markets using an innovative supply chain system. Before founding WineInStyle, Mr. Eberhart served as an executive at several semiconductor and electronics hardware companies including Applied Materials, Performance Semiconductor, and Plantronics, Inc.

Mr. Eberhart received a Master's degree in Economics from the University of Michigan after undergraduate studies in Finance completed at Michigan State University.



The Shape of Things to Come: New Patterns and Paradigms in Global Innovation Networks

Speaker Profiles for Thursday, January 17, 2008



Martin Haemmig specializes as international researcher, lecturer and consultant in “The Globalization of Venture Capital”, covering 13 countries in Asia, Europe, Israel, and the United States. His research and/or teaching are in conjunction with leading schools, such as INSEAD France, UniBW in Munich, the Swiss Federal Institute of Technology ETH Zurich, Stanford and the University of California. In Asia, he lectures at China’s Tsinghua, Peking, Renmin, Fudan and JiaoTong University, as well as at the Indian Institute of Technology (IIT) in New Delhi and Mumbai, the Indian Institute of Management (IIM) Bangalore and the Indian School of Business (ISB) in Hyderabad.

Haemmig is co-chairman for Research & Statistics at the Swiss PE/VC Association (SECA) and co-chairs the Swiss National PhD Coaching Program for dissertations on Venture Capital for all Swiss universities, and was trainer at America’s NVCA on “Globalizing Venture Capital”. In November 2007, he was appointed ‘Senior Advisor on Venture Capital’ at Stanford University (APARC-SPRIE). He is also founding professor of the world’s first PhD program in venture capital at Renmin University in Beijing, as well as an advisor to the Thunderbird University Private Equity Center (TPEC) and the China Research Center (CRC) of the University of California Berkeley. He was involved in the workshops for China’s early-stage venture investment climate at the World Economic Forum in China for two years. Martin Haemmig consults a few leading global venture capital firms, investors and governments and is a frequent conference speaker on all continents.

He has both a doctorate degree in business, the MBA, and an engineering degree in electronics from Switzerland. During his over 20 years of industry experience as technologist and business executive, he became Swiss national marketing champion in 1994.

Fang-Chen LUO has been AUO’s CTO and Vice President since 2001. As AUO’s CTO, Dr. Luo is, through IP right developments, leading AUO to become a dominant TFT-LCD technology company in the world. Under his leadership, AUO has accumulated more than 1700 issued patents and 4000 pending applications world-wide.

In 1974, Dr. Luo demonstrated the world’s first working TFT-LCD panel at Westinghouse R&D Center in the United States, a significant historical breakthrough for the flat panel industry. At GE and OIS in the US, he successfully developed TFT-LCD panels for avionic applications, replacing CRTs in the aircraft cockpits. Since returning to Taiwan in 1996, he has made significant contributions to the growth of Taiwan’s TFT-LCD industries. Between 1997 and 2003, he served as Director, SID Taipei Chapter, promoting FPD activities in Taiwan. Currently, he is Vice President, SID Asia Region, coordinating all SID activities in Asia region. He was Program Chair for SID 05 Symposium and General Chair for SID Symposium 07. He has been Chairman, Technology Committee, TTLA (Taiwan TFT LCD Association) and the Principal Investigator, Advanced Research Projects, TTLA, leading 6 advanced research projects which are jointly sponsored by major TFT-LCD manufacturing companies in Taiwan.

Dr. Luo joined Westinghouse in 1973 and later Xerox in 1979. In 1986 he was the manager of the TFT-LCD pilot line for GE. From 1990 to 1996, Dr. Luo was Vice President of R&D and Engineering, OIS in the United States. He served as Vice President, Technology Development, Unipac Optoelectronics from 1996 to 2001.

Dr. Luo received a Special Recognition Award for his contributions in TFT-LCDs in 1990 from SID and has been a Fellow of SID since 1992. Recently, he received the Award for Industrial Technology Advancement in 2004 and the Outstanding Industrial Contribution Award in 2005, both from the Ministry of Economics, ROC.

Dr. Luo received his Bachelor’s Degree in Electrical Engineering from Cheng Kong University in 1966 and his Ph.D. from Northwestern University in 1973.



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Henry Chesbrough is Executive Director of the Center for Open Innovation at the Haas School of Business at UC Berkeley. Previously, he was an assistant professor of business administration, and the Class of 1961



Fellow at the Harvard Business School. He holds a Ph.D. in Business Administration from the University of California-Berkeley, an MBA from Stanford University, and a BA from Yale University, summa cum laude.

His research focuses on managing technology and innovation. His book, *Open Innovation* (Harvard Business School Press, 2003), articulates a new paradigm for organizing and managing R&D. In this new approach, companies must access external and well as internal technologies, and take them to market through internal and external paths. This book was named a “Best Business Book” by *Strategy & Business* magazine, and the best book on innovation on NPR’s All Things Considered. *Scientific American* magazine named him one of the top 50 technology and business leaders in recognition of his research on industrial innovation. An academic version of open innovation, *Open Innovation: Researching a New Paradigm*, with Wim Vanhaver-

beke and Joel West, was published in 2006 by Oxford University Press.

His most recent book, *Open Business Models* (Harvard Business School Press, 2006), extends his analysis of innovation to business models, intellectual property management, and markets for innovation. It was named one of the ten best books on innovation in 2006 by *BusinessWeek*, and is being translated into six languages.

His academic work has been published in *Harvard Business Review*, *California Management Review*, *Sloan Management Review*, and other journals. He is the author of more than 20 case studies on companies in the IT and life sciences sectors, available through Harvard Business School Publishing. He contributes a monthly column on innovation to BusinessWeek.com, and is a member of the Editorial Board of Research Policy and the California Management Review.



The Shape of Things to Come

A Global Perspective on Regional Innovation Indicators

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8:15 WELCOME

8:30 – 10:15 FRAMEWORKS

The Challenge

Marguerite Gong Hancock, Associate Director, Stanford Project on Regions of Innovation and Entrepreneurship

Innovation Indicators: Frameworks for Communicating a Message

Doug Henton, President, Collaborative Economics

Regional Economic Dynamism and Enterprise Ecosystem Vibrancy: Conceptual Framework & Indicators

Poh Kam WONG, Director, National University of Singapore Entrepreneurship Centre

Indicators of Entrepreneurship from Initial Public Offering Filings

Don Patton, Research Associate & **Martin Kenney**, Professor, UC Davis

Moderator: **Martin Kenney**, UC Davis

10:15 – 10:30 BREAK

10:30 – 12:00 UNITED STATES

Knowing When Regional Transformation Occurs: Metrics Suited to the Knowledge Economy

Mary Walshok, Associate Vice Chancellor, Public Programs and Dean, University Extension, UC San Diego

Measuring Global Talent, Idea and Capital Flows: Lessons from Silicon Valley and San Diego

Tracey Grose, Senior Research Manager, Collaborative Economics

Assessing Massachusetts as a Global Hub of Innovation

Michael J. Tavilla, Program Manager, Research & Analysis, John Adams Innovation Institute, Massachusetts

Moderator: **Steven Casper**, Keck Graduate Institute

12:00 – 1:00 LUNCH (@ ENCINA HALL, 3RD FLOOR, PHILIPPINES ROOM)

1:00 – 2:50 ASIA

Implication of Indicators from A Value-added Perspective—Taiwan's IC Industry As A Case

Jack Chang, Deputy General Director, Industrial Economics & Knowledge Center, Taiwan

R&D-based Technology Spillovers and Competitiveness Indicators for High-Tech Industries in Hsinchu Science Park

CHYI Yih-Luan, Professor & Chair, Economics Department, National Tsing-Hua University, Taiwan

New Policies on Venture Capital at Zhongguancun Science Park

XIA Yingqi, Deputy Director, Administrative Committee of Zhongguancun Science, Beijing

Chinese Science and Technology Park Innovation Indicator System Design and Research

WANG Delu, CEO, & **ZHAO Mulan**, Consultant, Greatwall Enterprise Institute, Beijing

Moderator: **Poh Kam WONG**, National University of Singapore

2:50 – 3:00 BREAK

3:00 – 5:00 EUROPE

Indicators for an innovation regional policy in two different regions: Madrid and Castilla y Leon

Jaime del Castillo, Professor, University of Bilbao, Spain

Tampere, Finland: Very Innovative, Less Entrepreneurial

Mika Kautonen, University of Tampere, Finland

Cross Border Regional Innovation and Networks in Scandinavia

Jan Vang Lauridsen, Associate Professor, Aalborg University, Denmark

Creating Successful Biotech Clusters: Comparing Europe with California

Steven Casper, Associate Professor, Keck Graduate Institute

Moderator: **Jack Chang**, ITRI

5:00 – 5:30 WHAT HAVE WE LEARNED?

Moderator: **William Miller**, SPRIE



The Shape of Things to Come: A Global Perspective on Regional Innovation Indicators

Speaker Profiles for Friday, January 18, 2008

Doug Henton has more than 30 years of experience in economic and community development at the national, regional, state, and local levels. He was project manager for the start-up of the Joint Venture: Silicon Valley Network and is the architect of Joint Venture's annual *Index of Silicon Valley*. For over a decade, he has been a strategic advisor to the California Economic Strategy Panel which develops state and regional economic development and workforce strategies.

Doug founded Collaborative Economics in July 1993 after a decade as assistant director of SRI International's Center for Economic Competitiveness. At SRI, Doug directed projects on the economic future of Hong Kong, the technopolis strategy in Japan, and regional development in China.

Doug holds a bachelor's degree in political science and economics from Yale University and a master of public policy degree from the University of California, Berkeley.

Poh-Kam WONG obtained two BSc.'s., an MSc. and a Ph.D. from MIT and currently holds joint Associate Professorship appointments at the NUS Business School and LKY School of Public Policy. He is concurrently the Director of the Entrepreneurship Centre at NUS, where he spearheads the university's entrepreneurship education program and various university technology commercialization and spin-off support programs including incubation, seed funding and mentoring. He has published extensively on innovation policy and technology entrepreneurship in journals like *Organization Science*, *Journal of Business Venturing*, *Research Policy and Entrepreneurship Theory & Practice*, and has consulted widely for many international organizations, government agencies and high tech firms in Asia. An active angel investor, he is chairman of Business Angel Network Southeast Asia (BANSEA) and partner of an angel fund (BAF Spectrum) co-invested in by the Singapore government.



Donald Patton is a Research Associate in the Department of Human and Community Development at the University of California, Davis.

Patton has been associated with the Department of Human and Community Development at UC Davis since 2001. His areas of research are the economic geography of entrepreneurship, and new firm formation. He received his PhD in economics at UC Davis, and taught for two years in Bratislava, Slovakia from 1993-1995.



The Shape of Things to Come: A Global Perspective on Regional Innovation Indicators

Speaker Profiles for Friday, January 18, 2008



Mary Lindenstein Walshok Ph.D. is Associate Vice Chancellor for Public Programs at the University of California, San Diego; Dean, University Extension and Adjunct Professor of Sociology. She received her B.A. from Pomona College and her M.A. and Ph.D. in Sociology from Indiana University. She has been a visiting professor at Stockholm School of Economics for many years and in 2004 held an International Appointment, Department of Continuing Education, Oxford University, Oxford, England. Walshok is responsible for UCSD's outreach activities including such regionally focused programs as Executive Education, continuing professional education, UCSD-TV and a variety of community and economic development initiatives, such as the well-respected Global CONNECT and the San Diego Dialogue. Responsible for a staff of 275 and annual revenues of over 30 million dollars, Walshok is the author of two books, *Blue Collar Women* and *Knowledge Without Boundaries* (dealing with the role of research universities in the economy); over fifty published articles and book chapters, as well as a variety of reports on the "new economy" and research capabilities for local and state agencies. She is the recipient of numerous awards including the distinguished Kellogg Foundation's Leadership Fellowship and, most recently, induction into Sweden's Royal Order of the Polar Star. Active on boards of a number of arts and philanthropic organizations, Walshok chaired the board of the 400 million dollar San Diego Community Foundation during 2002-2004 and is currently the Chair of the Board of the International Community Foundation and also serves on the boards of the La Jolla Playhouse, the San Diego Public Library Foundation, and the Girard Foundation.

Tracey Grose is a Senior Research Manager with Collaborative Economics. She has in-depth experience conducting quantitative analyses related to regional development and workforce issues. Since joining Collaborative Economics in 2006, Tracey has designed and led analytical studies, and she has provided training to government and education officials as well as business people on regional economic analysis methods.

As project manager for the *Index of Silicon Valley*, she has developed new methodologies and explored new data sources that help illustrate the economic, social and environmental development of Silicon Valley. Her recent work includes adding a global component to the study of Silicon Valley through the use of internationally comparable data to measure relative strengths as well as connections between Silicon Valley and foreign countries as well as sub-national regions. Currently, she is developing the analysis for two state-wide index reports, the *California Progress Report* and the *California Green Innovation Index*.

Grose has a Masters degree in Political Science with minors in Economics and Sociology from the JWG-University in Frankfurt, Germany. In other university work in Europe, she took part in a study of socio-political transformation of post-socialist countries that spanned from Lithuania to Bulgaria. She is fluent in German and maintains a basic proficiency in French.

Michael J. Tavilla is a Program Manager in Research & Analysis at the John Adams Innovation Institute. Tavilla leads the research, analysis, and writing of the annual *Index of the Massachusetts Innovation Economy* and spearheads other research reports and projects focusing on technology-driven cluster and economic development. He brings more than 7 years of experience in the IT and emerging technology sectors from various roles in high-technology and public policy, professional research and consulting, and economic development.

Prior to his work at the Innovation Institute, Tavilla was Research Director at the Association for Competitive Technology (ACT), a global, 3,000 member IT trade association headquartered in Washington, DC. He has also been an industry and market Research Analyst at the Aberdeen Group and at Forrester Research, both Massachusetts-based, professional high-tech research and advisory firms. He earned his B.A. in Political Science from The George Washington University, studied at Boston University's London Programme, and did his graduate study at American University.

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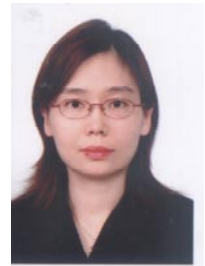


Chau-chyun (Jack) CHANG is Deputy General Director at the Industrial Economics & Knowledge Center (IEK), Industrial Technology Research Institute (ITRI), Hsinchu, Taiwan, R.O.C. He is also on the Board of Directors of the Asia Pacific Industrial Analysis Association, Taiwan and a part-time Assistant Professor at the Graduate School of Business, Chang Gung University, Taiwan, R.O.C.

Chang has been at ITRI since 1991, in a number of positions. Most recently, from 2002 to 2005, he was Director of the Biotechnology and Healthcare Industry Intelligence Division; from 2000-2003 he was Director of the Chemical and Material Industry Intelligence Division.

Dr. Chang earned the BS in Chemical Engineering from Tatung Institute of Technology, and the MS and PhD in Chemical Engineering from Louisiana State University. He also has participated in the 2006 Stanford Executive Program, Graduate School of Business, Stanford University.

CHYI Yih-Luan's academic and professional experiences are in macroeconomics, econometrics and economic growth. She received a BA in economics from National Taiwan University (NTU) in 1983. She studied economics in the U.S. for five years, and completed the PhD in economics at the Northwestern University in 1989. In the fall of 1989, Chyi returned to Taiwan and joined the Department of Economics at National Tsing Hua University as an associate professor. In 1998, she became a tenured full professor. Funded by the National Science Council in Taiwan, she visited the London School of Economics and Political Science from 1998 to 1999.



Dr. Chyi has served as an associate editor for the *Taiwan Economic Forecast and Policy* and *Taipei Economic Inquiry* since 2002; published articles (several forthcoming) in the *Review of International Economics*, the *Review of Development Economics*, *Applied Economics*, *Applied Financial Economics*, *Economic Modeling*, the *Academia Economic Papers*, the *Taiwan Economic Review*, the *Asian Economic Journal*, and *Contemporary Economic Policy*.

Chyi's current work focuses on indicators of high-tech industrial clusters, knowledge spillovers in clusters and regions, contribution of venture capital to the industry performance, and knowledge-based service industries under collaborations with faculty colleagues, research institutes, and graduate students. Starting from January 2006, she was honored to be elected as the first director of the Economic Research Center on Globalization (ERCG), College of Technology Management, National Tsing Hua University. Dr. Chyi has been the department chair since August 2007.



Since 1999, **Dr. XIA Yingqi** has been Deputy Director for the Administrative Committee of Zhongguancun Science Park, The People's Government of Beijing Municipality. Prior to that, from 1995-1999 he was General Manager of the Department of International Business and Assistant President of the China National Investment and Guarantee Corporation. From 1991-1994, Dr. Xia was Division Chief of the World Bank Department at the Ministry of Finance of the People's Republic of China, and from 1987 to 1990 he was First Secretary at the Embassy of the People's Republic of China in USA, Washington, D.C.

Dr. Xia earned the BSc from the Department of Mechanical Engineering at the Beijing Institute of Technology and the PhD from the Department of Mechanical Engineering at the University of Ottawa.

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Mr. Wang Delu, President of Greatwall Enterprise Institute in Beijing, graduated from China Petroleum University in 1982. Wang Delu began to deal with research of scientific sociology, science and technology policy, science and technology system reforming and private-running high technology companies in 1985. He originated GEI in 1993, mainly engaged in the research and consulting of enterprise strategy, enterprise system reforming, enterprise management, knowledge management, distribution management, human resource management, region strategy, industrial strategy and public policy. Wang Delu presides over publication of "Report of Enterprise Research" (monthly magazine) and "Innovation China Research Series."

Wang led the GEI team to undertake many national and Beijing municipal projects of economy, science and technology development strategy. These projects are mainly the serial research on Z-park development, research on high technology industrial development strategy and research on development strategy of "made in China".

From 1994 to 2007, Wang completed more than ten projects about Z-park. These projects included "Second pioneering work", "One science park has many special sub-parks", "Regional innovation", "Knowledge economy", "Development strategy", "Policy and environment of starting enterprise", "Digital Zhongguancun" and so on.

In addition, Wang has been researching on "Science and technology development strategy", "Science and technology plan management" and "Science and technology resource collocation" for many years.

Mrs. Zhao Mulan, specially invited expert and consultant of GEI, graduated from Beijing University in 1982. Zhao worked in the Beijing Municipal Economy System Reform Committee for 6 years. From 1991 to 2006, Zhao Mulan worked in the Administrative Committee of Z-Park, retiring in 2006.

Zhao Mulan has personally experienced the course of the Chinese economy system reform and has been involved in many important decision process of Z-Park development, as well as working on theory and research. Zhao has a rich work and research experience on the science park development of China.



Jaime del Castillo Hermosa is President of INFYDE consulting firm (since 1987) and a Professor of Applied Economy at the University of the Basque Country (since 1992).

Infyde is part of the LEED partners, and in this condition he has collaborated with the LEED programme of the OECD in different projects.

Mr. del Castillo is experienced in working in the fields of Innovation and Technological Development; definition and design of policies of promotion of innovation and technology transfer; the establishment of co-operation networks and assessment in the creation, management and animation of technology parks.

He specialises in the definition and setting up strategies of territorial development in regions and areas with development problems and has wide knowledge of procedures and instruments of European regional development policy in general and the European structural support in particular

He has worked on several occasions for the EU, OECD, BID, CEPAL and for regional and local governments in Spain, Portugal, France, Italy, Greece and Bulgaria.

The Shape of Things to Come: A Global Perspective on Regional Innovation Indicators

Speaker Profiles for Friday, January 18, 2008



Mika Kautonen, Ph.D., is a Senior Researcher in the University of Tampere, Institute for Social Research, at the Unit for Science, Technology and Innovation Studies, where he is the head of the innovation studies theme.

Mika is currently leading a research project on knowledge intensive business services and their role in innovation systems, funded by the Finnish Funding Agency for Technology and Innovation (Tekes) under the Innovative Services Technology Programme; Recently he was also involved with the EU 5FP research project titled "Cities as Intelligent Territories", coordinating the Finnish research of the project.

He was recently also the Chairman of the Local Organizing Board, XVII International RESER Conference "Service Competitiveness and Cohesion - Balancing Dynamics in the Knowledge Society", 13-15 September 2007, Tampere, Finland, which hosted attendants from more than 20 countries worldwide. Currently Mika is involved as an invited expert to participate into the preparation of the Finnish National Innovation Strategy. For years, he has been active member of the Centre of Expertise Programme (national-regional innovation strategy design and implementation) especially in his home city Tampere.

Mika's research interests include innovation systems and milieus, firms' innovation activities, knowledge intensive business services/professional business services, innovation policies, regional development and regional policies, clusters and industrial agglomerations. He has more than 50 publications on these issues.

Jan Vang-Lauridsen is associate professor at Aalborg University (Copenhagen Campus), Denmark, previously affiliated with Lund University, Sweden, where he was awarded his PhD. He has published a large number of papers and books on the interplay between globalization and regional innovation systems, with special attention paid to regional innovation systems in Asia and Scandinavia.



Steven Casper is Associate Professor and Director of the MBS Program at the Keck Graduate Institute. He



teaches courses on bioscience business strategies and successful entrepreneurship. Dr. Casper's research interests include comparative studies of the development of new technology industries, with a special interest in processes by which biomedical science has been commercialized across European countries. He is also interested in using computational social science methods to examine the emergence of social networks within biotechnology clusters. Dr. Casper came to KGI from the University of Cambridge, UK, where he was a University Lecturer in Innovation and Entrepreneurship at the Judge Institute of Management Studies. He was previously employed as a Senior Research Fellow at the Social Science Center Berlin (WZB), and has been selected as a Fellow at the Netherlands Institute of Advanced Studies (NIAS). He received a Ph.D. in government from Cornell University. Dr. Casper has been elected to the Executive Council of the Society for

the Advancement of Socio-Economics.

Stanford Program on Regions of Innovation and Entrepreneurship Leadership



SPRIE Co-Director **Dr. William F. Miller** has spent about half of his professional life in business and about half in academia. He was the last faculty member recruited to Stanford University by the legendary Frederick Terman, who was then Vice President and Provost of Stanford. Miller himself later became Vice President and Provost of Stanford. He conducted research and directed many graduate students in Computer Science.

In 1968 Dr. Miller also played a role in the founding of the first Mayfield Fund (venture capital) as a special limited partner and advisor to the general partners.

As President and CEO of SRI International (1979-1990) Miller opened SRI to the Pacific Region; he established the spin-out and commercialization program at SRI and established the David Sarnoff Research Center (now the Sarnoff Corporation) as a for-profit subsidiary of SRI, and he became the

Chairman and CEO of SRI.

In 1982 Miller was appointed to the National Science Board. He has served on the board of directors of several major companies such as Signetics, Firemans Fund Insurance, First Interstate Bank (and later) Wells Fargo Bank, Pacific Gas and Electric Company, Varian Associates, WhoWhere? Inc. (Chairman), and Borland Software Corp. (Chairman).

He co-founded SmartValley, Inc. and aided the formation of CommerceNet and serves on the board of directors. Dr. Miller was a founding director of the Center for Excellence in Non-profits. He currently serves as Chairman of the Board of Sentius Corporation and is a Founder and Chairman of Nanostellar, Inc.

Dr. Miller is a Life Member of the National Academy of Engineering, Fellow of the American Academy of Arts and Science, Fellow of the American Association for the Advancement of Science, Life Fellow of IEEE, and Member of the Silicon Valley Engineering Hall of Fame.

SPRIE Co-Director Henry S. Rowen is a senior fellow at the Hoover Institution, a professor of Public Policy and Management emeritus at the Stanford University's Graduate School of Business and a senior fellow emeritus of the Walter H. Shorenstein Asia-Pacific Research Center (Shorenstein APARC) at the Freeman Spogli Institute for International Studies at Stanford University. Rowen is an expert on international security, economic development, and high tech industries in the U.S. and Asia. His current research focuses on the rise of Asia in high technologies.

In 2004-05, Rowen served on the Presidential Commission on the Intelligence of the United States Regarding Weapons of Mass Destruction. From 2001-04, he served on the Secretary of Defense Policy Advisory Board. Rowen was Assistant Secretary of Defense for International Security Affairs in the U.S. Department of Defense from 1989 to 1991. He was also chairman of the National Intelligence Council from 1981 to 1983. Rowen served as president of the RAND Corporation from 1967 to 1972 and was assistant director, U.S. Bureau of the Budget, from 1965 to 1966.

Rowen's most recent work is co-editing *Making IT: The Rise of Asia in High Tech* (Stanford University Press, 2007). He co-edited *The Silicon Valley Edge: A Habitat for Innovation and Entrepreneurship* (2000); *Behind East Asian Growth: The Political and Social Foundations of Prosperity* (1998); and *Defense Conversion, Economic Reform, and the Outlook for the Russian and Ukrainian Economies* (1994), which he co-edited with Hoover fellow Charles Wolf and Jeanne Zlotnick. Among his articles are "Kim Jong-Il Must Go," *Policy Review* (2003); "The Short March: China's Road to Democracy," *National Interest* (1996); "Inchon in the Desert: My Rejected Plan,," *National Interest* (1995); "The Tide underneath the 'Third Wave,'" *Journal of Democracy* (1995); and "Vietnam Made Him," *National Interest* (1995/96).

Born in Boston in 1925, Rowen earned a bachelors degree in industrial management from the Massachusetts Institute of Technology in 1949 and a masters in economics from Oxford University in 1955.



Stanford Program on Regions of Innovation and Entrepreneurship Leadership (continued)



Marguerite Gong Hancock is the associate director of the Stanford Program on Regions of Innovation and Entrepreneurship (SPRIE). For SPRIE, she manages project research, conferences and seminars, publications, and oversees the project's affiliated academic and government research partners in six countries in Asia. She leads SPRIE's China team, guiding research on high tech regions, case studies of information technology companies, and new work on the globalization of R&D and high tech leadership in Greater China.

She is co-editor of *Making IT: Asia's Rise in High Tech* (Stanford University Press, 2007) and *The Silicon Valley Edge* (Stanford University Press, 2000). She continues to be an active member of Stanford's Entrepreneurship Task Force and a speaker to university and business leaders, including presentations for executive education and conferences in Silicon Valley and Asia.

A specialist on government-business relations in the development of information technology, Hancock has worked as director of Network Research for the Stanford Computer Industry Project at the Graduate School of Business; as a research associate at the East Asia Business Program of the University of Michigan; and as a company consultant in Boston and Tokyo. She holds a BA in humanities and East Asian studies from Brigham Young and an MA from Harvard in East Asian studies. While pursuing a PhD at the Fletcher School of Law and Diplomacy, she focused on computer industry development in China.