



美洲中國工程師學會大紐約分會
Chinese Institute of Engineers – USA
Greater New York Chapter
(CIE-USA/GNYC)
<http://www.cie-gnyc.org>

Saturday, November 13, 2010

2010 Annual Convention Proceedings

Newark Liberty International Airport Marriott
Newark, New Jersey
<http://www.marriott.com/hotels/einterface/ewrap>

CIE-USA/GNYC 2010 Annual Convention Program

Theme: Fueling Engineering Education and Innovation
加強推廣工程教育與創新

12:00 AM **Registration**

1:00 PM **Opening Remarks** - Dr. Rong Chang (張榮), Convention Chair

1:05 PM **State of the Institute** – Dr. Paul Lin (林少達), President, CIE-USA/GNYC

1:10 PM **Plenary Session** Chair: Dr. Kuo-Kuang Hsu (許國光)

Dr. Jason Hsuan (宣建生), Chairman & CEO of TPV Technology Ltd., “TPV’s Way of Growth In Display Industry”

Dr. Jun Ni (倪军), Shien-Ming (Sam) Wu Collegiate Professor of Manufacturing Science and Professor of Mechanical Engineering at the University of Michigan, Ann Arbor, “Comparison of the Engineering Education and Innovation Systems in US and China”

Dr. Andrew Wang (王惠鈞), VP of Academia Sinica & Distinguished Research Fellow of the Institute of Biological Chemistry, Academia Sinica, “Reminiscing 40 years of structural biology”

2:45 PM – 3:00 PM **Tea & Coffee Break**

3:00 PM – 5:00 PM **Parallel Sessions**

Program Chair – Dr. Howard Chen (陳浩), IBM T.J. Watson Research Center

Session I – Cloud Computing Services & Management (Room: Gateway)

Chair – Dr. Jih-Shyr Yih (易繼實), IBM T.J. Watson Research Center

Dr. Rong Chang, (張榮), Manager, IBM TJ Watson Research Center, “Experience with Creating Development, Test and Production Clouds”

Dr. Wu Chou (周蕪), IEEE Fellow & Avaya Lab Research, “Managing and Delivering Services from the Cloud”

Mr. Johnson Lam, VP & Head of China Business, Tata Consultancy Services America, “TCS’ Cloud Computing Strategy, Offerings and Case Studies”

Ms. Erica Lan (藍遂青), Manager, Microsoft, “Cloud Computing in Microsoft: History and Evolution”

Session II – Financial Engineering & Management (Room: Skylands)

Chair – Dr. Darwen Rau (饒達源), Aricent, Inc., “Hedge Funds, Quantitative Analysis and High Frequency Trading”

Dr. Kevin Chen (陳凱丰), Senior Portfolio Manager, Crédit Agricole, "Recent Developments in Hedge Funds Industry"

Dr. Donggen Gong (龚东赓), Director, Quantitative Trading Group, Bank of America, Merrill Lynch, Global Markets, “ETF High Frequency Trading”

Mr. David Lin (林东), VP, Equities Quantitative Asset Management, J P Morgan, “Dancing with Bears – A Few Trends in Quantitative Investment Technologies”

Dr. Tianhua Zhu (朱天华), Managing Director, Quantitative & Algorithmic Trading Strategies, Goldman Sachs, “Challenge and Opportunity for the High Frequency Trading Business”

Session III –Green & Smarter Planet Applications (Room: Essex)

Chair – Dr. Henry Chang (張鴻洋), Collaboratory Director, IBM Intelligent Living Services Research in Taiwan

Dr. Jing David Dai (戴晶), IBM Research, “Improving Sustainability for Smarter Cities”

Dr. Qing He (何慶), IBM Research, “Smarter Transportation Analytics”

Dr. Pei-Yun Sabrina Hsueh (薛沛芸), IBM Research, “An Open Platform for Forming Wellness Management Ecosystems on Cloud”

Dr. Li-Chi Cliff Po (濮勵志), Founder President, Micro-Simulation Technologies, “New Nuclear Power Plant Designs”

Session IV – Emerging Applications: From Multimedia to Mobile (Room: Liberty)

Chair – Dr. Woody Huang (黃允武), IBM Research, “Mobile Collaboration Systems & Applications”

Dr. Leslie S. Liu, IBM Research, “New Trend and Challenges in Mobile Development”

Dr. Yuanqiu Luo (罗远秋), Huawei Technologies USA, “Broadband Access via Next Generation Passive Optical Network”

Dr. Chiao-Fe Shu (徐秋風), CTO, IBM GTS Physical Security Service, “Smart Surveillance Systems and Applications”

Dr. Zhen Wen (文镇), IBM Research, “Social Networking Technologies & Applications”

Forum -- Fueling Next Generation With Science & Engineering Education for Innovation & Competiveness (Room: Erie Hudson)

Moderator – Dr. Jun-Min Liu (劉主民), Integrated Solutions Inc.

Dr. Raymond Eng, High Tech High School

Dr. Feng-Bao Lin (林豐堡), City College of New York

Dr. Jun Ni (倪军), University of Michigan, Ann Arbor

Mr. Bruce Niswander, JD, Polytechnic Institute of NYU

Ms. Connie Truong, IBM

5:00 PM – 6:00 PM **Social Hour with Cash Bar and Birds of a Feather (BOF)**

BOF -- From Early Childhood Education to Innovative Green Industries - Gathering Suggestions for a Five-Year Economic Plan to Help All Prosper (Room: Erie Hudson)

Moderator – Dr. Paul Lin (林少達), AT&T

6:00 – 8:45 PM **Banquet**

Master of Ceremony – Ms. Evelyn Chern (陳亞雯)

Welcome Address – Dr. Paul Lin (林少達), President, CIE-USA/GNYC

CIE/USA-GNYC Heritage – Dr. Benjamin Cheng (鄭國賓)

Presentation of High School Scholarship Award – Mr. Xin He (何鑫)

Presentation of CIE-USA/GNYC Annual Awards – Dr. Wen Lin (林文)

Distinguished Achievement Award:

– Dr. Jason Hsuan (宣建生), Chairman & CEO of TPV Technology Ltd.

– Dr. Andrew Wang (王惠鈞), VP of Academia Sinica and Distinguished Research Fellow of the Institute of Biological Chemistry, Academia Sinica.

Distinguished Service Award:

– Dr. Jun Ni (倪军), Shien-Ming (Sam) Wu Collegiate Professor of Manufacturing Science and Professor of Mechanical Engineering at the University of Michigan, Ann Arbor.

Institute Service Award:

– Dr. Jun-Min Liu (劉主民), AAEOY Chair (2010) and CIE-USA/GNYC President (2009)

Keynote Speech

– Dr. Bernadette Yu-ning Li (李又寧), Professor and Director, Institute of Asian and Asian American Studies, St. John's University, "Chinese Contributions to America (華族對美國的貢獻)"

8:45 – 11:00 PM **Entertainment** – Mr. Fred Yan (顏為民)

- Singing Performance – Ms. Qing Gu (顧青): 梅花 (Plum Flower), 龍船調 (Dragon Boat Melody)
- Magic Show – Ms. Ying Li (李穎) and Mr. Wei Cui (崔偉)

Program Chair

Dr. Howard Chen (陳浩)

Research Staff Member
IBM Research Division
1101 Kitchawan Road
Yorktown Heights, NY 10598
haowei@us.ibm.com



Biography

Dr. Howard Chen received his B.S. degree from the National Taiwan University in 1979, and Ph.D. degree from the University of California, Berkeley in 1987. Since then, he has been with the IBM Research Division, Thomas J. Watson Research Center, in Yorktown Heights, New York, where he is currently a research staff member. Dr. Chen pioneered the research in power supply noise analysis and developed the leading-edge methodology and tools for the design and implementation of IBM eServer products, including S/390 Alliance G4 (Overture), G5 (Symphony), G6 (Opera), G7 (Freeway), AS/400 Pulsar, N-Star, I-Star, S-Star, PowerPC 604 Helmwind, Lonestar, Longhorn, Glacier, pSeries GP (Power4 Regatta), GR, zSeries T-Rex, T-Saurs, GPUL (Apple Power Mac G5), Gekko (Nintendo GameCube), Waternoose, Loki, Vejle (Microsoft Xbox), and STI (Sony, Toshiba, IBM) cell processors. Dr. Chen has received the IBM Invention Achievement Awards for 26 U.S. patents issued, the IBM Research Division Award for contributions to the design and realization of the Alliance G4 microprocessor, the IBM Outstanding Contribution Award for design and realization of the Alliance G5 microprocessor, the IBM Research Division Award for design and implementation of Freeway G7 microprocessor, and the IBM Outstanding Technical Achievement Award for NOVA-ALSIM-CPAM-IREM multi-site multi-division awards package. He has also given tutorials and workshops at the Design Automation Conference (DAC), Asia and South Pacific Design Automation Conference (ASP-DAC), the European Solid-State Circuits Conference (ESSIRC), and the International Solid-State Circuits Conference (ISSCC).



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Session I

**Cloud Computing Services & Management
3:00 PM – 5:00 PM
Room: Erie Hudson**

Moderator

Dr. Jih-Shyr Yih (易繼實)

IBM T.J. Watson Research Center

Panelist

Dr. Rong Chang (張榮)

IBM T.J. Watson Research Center

Dr. Wu Chou (周蕪)

Avaya Lab Research

Mr. Johnson Lam

Tata Consultancy Services America

Ms. Erica Lan (藍遂青)

Microsoft

Session Chair

Dr. Jih-Shyr Yih (易繼實)

Research Staff Member, Manager
IBM T. J. Watson Research Center
19 Skyline Drive
Hawthorne, NY 10570
(jjyh@us.ibm.com)



Biography

Dr. Jih-Shyr Yih completed his undergraduate study in Computer Science and Information Engineering at National Taiwan University. He received his philosophical degree in Computer Science and Engineering from The University of Michigan, Ann Arbor. He has twenty years of research, development and management experiences at IBM T. J. Watson Research Center and two other business solution divisions.

From 1990, Dr. Yih worked on high speed networking VLSI designs, and was on the Fiber Channel Standard reference implementation team. In 1995, he designed and developed IBM's RFID base-station system, which was one of the first in the world. He took two assignments with Retail Core Banking Solutions in Copenhagen, Denmark, and Networked Applications & Services Division in White Plains, NY. From 2000, Dr. Yih managed R&D teams in creating IBM's advanced commerce solutions, such as the Common Commerce Engine, Global Asset Reuse Services, and Websphere Commerce multichannel solutions. He has led in many complex client engagements worldwide. He also served on the architecture board of IBM Value Chains Transformation for the company's sales and distribution infrastructure. From 2005 to 2008, Dr. Yih was chief of staff to VP Services Research, for strategy, hiring, communications, technical planning and awards of eight global labs with 550 researchers and budget over \$100M.

Presently, Dr. Yih leads the services transformation research for IBM Strategic Outsourcing business. His current interests are in the services software engineering and delivery research. He is an adjunct faculty member at the Columbia University. He has been awarded with two IBM Outstanding Innovations Awards and published over 50 technical journal and conference papers.

Experience with Creating Development, Test and Production Clouds

Speaker

Dr. Rong Chang (張榮)

Research Staff Member, Manager
IBM T.J. Watson Research Center
19 Skyline Drive
Hawthorne, NY 10570
(rong@us.ibm.com)



Biography

Dr. Rong Chang is Manager of Service Management Environments at the IBM T.J. Watson Research Center. He received his Ph.D. degree in computer science and engineering from the University of Michigan at Ann Arbor in 1990 and his B.S. degree in computer engineering with honors from the National Chiao Tung University in Taiwan in 1982. Before joining IBM in 1993, he was with Bell Communications Research (Bellcore) creating advanced personal ubiquitous application services for broadband networks. He has received his ITIL (IT Infrastructure Library) Foundation Certificate in IT Services Management (ITSM). His accomplishments at IBM include completion of a nomination-based Micro MBA Program, one IEEE Best Paper Award and many IBM awards, including two corporate-level Outstanding Technical Achievement Awards and four division-level Accomplishment Awards in the areas of cloud computing, IT infrastructure Healthcheck, SLA management, e-commerce, and monitoring & event management. He is a principal investigator of the IBM Common Cloud Management Platform, Smart Business Development and Test Cloud offering, Shared Private Production Cloud offering, and IBM CIO Development-Test Cloud. From 2007 to 2008, he was Chairperson of IBM Research's Professional Interest Community on Services Computing, an emerging new computer science discipline advocated by ACM and IEEE. He holds 14 patents, and has published more than 40 refereed technical papers at reputable international conferences and journals. He is a member of Eta Kappa Nu and Tau Beta Pi honor societies.

Dr. Chang is a lifetime member of Chinese Institute of Engineers in USA (CIE-USA) and is on the Managing Committee of Emerging Information and Technology Conference (EITC). He is Convention Chairperson of 2010 CIE-USA Greater New York Chapter (GNYC), the Founding Chapter of CIE-USA.

Managing and Delivering Services from the Cloud

Speaker

Dr. Wu Chou (周燕)
Fellow, IEEE
Director, Avaya Lab Research
(wuchou@avaya.com)



Biography:

Dr. Wu Chou is an IEEE Fellow. He received his Ph.D. degree in electrical engineering from Stanford University, and joined AT&T Bell Labs in 1990. Currently, he is a Director at Avaya Labs Research, leading a research group on communication systems, cloud computing, web centric architecture, web services, distributed and cloud based service platforms, software-as-a-service (SaaS), intelligent dialogue systems, and multimodal interaction.

He has over 20 year professional career on cutting-edge technology research, and product development. He is a member of IEEE Computer Society, Signal Processing Society, and Communication Society. He served at various technical program committees, industry standard bodies, professional journal and transaction editorial boards. He has been granted 24 US and international patents, over 100 journal and conference papers, three book chapters, and one edited book. He received Bell Laboratories President's Gold Award in 1997 and Avaya Leadership Award in 2005.

Abstract:

Cloud computing has a fundamental impact to many industry sectors as it is well positioned to support the increasing demands and dynamic nature of the software-as-a-service model, and the needs to make services ubiquitous through a web centric infrastructure.

However, as with other emerging technology trends, cloud computing provides both opportunities and technical challenges, especially in the area of managing and delivering applications and services from the cloud. We will discuss some recent developments in this area, e.g. web services, cloud based service deployment, SaaS endpoints, etc., with a focus on its impact to telecommunications and new capabilities that arise with this exciting technology advance.

Speaker

Johnson Lam

Vice President, Head – China Business
Tata Consultancy Services America
(johnson.lam@tcs.com)



Biography

Mr. Johnson Lam has more than 20 years of experience in the Information technology industry, with key roles in operations as well as management at AT&T, IBM Global Services, GE Astro and Lenovo AsiaInfo. He received a Master's Degree in Electrical Engineering from Rutgers University. From 1996 to 2000, Johnson served as the senior manager for AT&T Solutions in Hong Kong, providing System Integration and Outsourcing services to customers in China, Hong Kong and Taiwan. During his watch, AT&T became the No. 1 Network Access Point (NAP) provider in Taiwan. Until 2010, Johnson served as the CEO of a Joint Venture (JV), comprising of TCS, the Chinese government, and Microsoft in Beijing, China. Directly supported by the Chinese government, the JV was intended to be a role model for the Chinese IT Outsourcing Industry. With his leadership, TCS has achieved major wins including Bank of China and China Foreign Exchange Trades System (CFETS), a subsidiary of Central Bank of China. Currently, as VP and head of China Business in Tata Consultancy America, Johnson is responsible for the business development on the unexplored Chinese opportunities in the United States.

Abstract

TCS's definition of cloud computing is a set of IT optimization techniques rolled into capabilities offered as a shared service to customer, providing extremely large scale through a very simple and easy-to-consume interface, in an extremely granular, usage-based pricing model. Cloud Computing will prove very attractive to the Enterprise IT world and specifically to IT service providers, primarily due the infinite opportunities around innovative business models. The Cloud could be a disruptive change for some enterprises, or it could be an evolution beyond virtualization and utility computing for others. Many challenges remain in leveraging Cloud Computing – but it will become an increasingly viable option for enterprise IT.

The discussion will provide TCS's Cloud Computing Strategy, Offerings and the TCS Co-Innovation (COIN) Network. Some case studies will also be provided.

Cloud Computing in Microsoft: History and Evolution

Speaker

Ms. Erica Lan (藍遂青)

Manager, Microsoft

(erical@microsoft.com)

Biography

Ms. Erica Lan joined Microsoft from the University of Washington, Seattle, in 1995, as a Software Engineer. She is currently a Principal Development Manager in charge of “Forefront for Office,” which includes next generation email filtering services for the newly announced Microsoft Office 365. Erica has extensive experiences in Microsoft desktop, server and service product development, as well as in Microsoft online services infrastructure and tooling. For product development, she has worked on desktop applications such as Visual Basic for Application, Access97, and enterprise platform server components such as Federated Identity. For service products, she has worked on the early Microsoft hosted services, MSN consumers billing system service delivery platform, and Microsoft OneCare consumer protection service, and in this area, Erica holds an US Patent on the service deployment pattern. For research and pioneering experiments, she has led corporate cloud services effort in tooling and management infrastructure areas for Microsoft.



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Session II

**Financial Engineering and Management:
Hedge Funds, Quantitative Analysis and High Frequency Trading
3:00 PM – 5:00 PM
Room: Skylands**

Moderator

Dr. Darwen Rau (饒達源)

Consultant, Aricent

Panelist

Dr. Kevin Chen (陈凯丰)

Crédit Agricole

Dr. Donggen Gong (龚东赓)

Bank of America, Merrill Lynch

Mr. David Lin (林东)

J P Morgan

Dr. Tianhua Zhu (朱天华)

Goldman Sachs

Session Chair

Darwen Rau (饒達源)

Consultant, Aricent
329 Dover Court, Morganville, NJ 07751
darwenrau@yahoo.com



Biography

Darwen Rau has worked for AT&T Bell Labs, Lucent Technologies, John Hopkins University Applied Physics Lab., Aricent, etc, as a researcher, a distinguished MTS, a manager, and a consultant. His career spans the entire business value chain including product development, portfolio management, and marketing/sales. He has done quantitative technology and business modeling and valuation incorporating technology characteristics, engineering rules, competitive insight, risk factors, statistical analysis and financial optimization. He earned a BS. of Industrial Engineering from Tsing-Hua University in Taiwan, an MS of Mechanical Engineering from U. of Massachusetts, and an MS and a Ph.D. of Electrical Engineering from Purdue University. He is actively participating in financial industry conferences like Institutional Investor (I.I.) Hedge Fund Symposium, I.I. Commodity Investment Conference, I.I. Infrastructure Investment Conference, etc. He has organized and moderated financial engineering panel sessions for Chinese Institute of Engineer annual conventions inviting speakers from Wall Street firms, hedge funds and academia. He is an avid reader of Harvard Business Review, Journal of Finance, J. of Portfolio Management, Financial Analyst Journal, etc.

Abstract

Former Federal Reserve Chairman Paul Volcker scrapped a prepared speech in Sept. 23, 2010, and instead delivered a blistering, off-the-cuff critique. “We had all our best schools in the United States pouring out financial engineers, every smart young mathematician and physicist said ‘I don’t want to be a civil engineer, a mechanical engineer. I’m a smart guy, I want to go to Wall Street.’ Financial engineering and new financial products are blamed for the global financial crisis. The financial markets have evolved with the advent of high-frequency and algorithmic trading, and time horizons by many players being measured in seconds and minutes. Many of these players are active in the same asset classes, sectors and securities while employing similar trading tactics. Is financial engineering a boon to the financial innovations and economy efficiency, or it’s a bane to repeat the recent global financial crisis in the future? This session invites Wall Street speakers to present and discuss the state of the economics and financial markets, fundamental and quantitative financial analysis, high frequency trading, outlook of financial engineering, etc.

Speaker

Kevin Chen (陈凯丰)

Senior Portfolio Manager
Crédit Agricole Structured Asset Management
kevin_chen_dr@yahoo.com



Biography

Kevin Chen is a Senior Portfolio Manager at Crédit Agricole Structured Asset Management, responsible for constructing and managing multi-billion dollar hedge funds portfolios for institutional clients. Previously, he was a Vice President of Morgan Stanley and his responsibilities included designing and delivering comprehensive hedge funds advisory solutions to high-net-wealth and institutional clients of U.S. and International. Kevin joined Morgan Stanley after graduating with a Ph.D. in Finance from International Center for Financial Asset Management and Engineering (FAME), Geneva and University of Lausanne, Switzerland in 2004. Kevin also served as a consultant for several Swiss-based organizations, including Swiss Organization for Facilitating Investments, a joint initiative of the Swiss State Secretariat for Economic Affairs (seco) in cooperation with KPMG. Prior to that, Kevin did Master's in Finance at CentER for Economic Research, Tilburg University, the Netherlands and Bachelor's in Economics at Renmin University of China. Kevin spent two years with China Development Bank's International Finance Department and Investment Banking Department.

Abstract

My talk will be titled "Recent Developments in Hedge Funds Industry". I will talk about post crisis, the asset flow, performance, liquidity terms, fees changes in the industry, various hedge fund strategies, and new transparency demand from the hedge fund investors.

Speaker

Donggeng Gong (龚东赓)

Director
Quantitative Trading Group
Bank of America Merrill Lynch
New York, NY 10036
dggong@yahoo.com



Biography

Dr. Gong received an MS in applied math from Institute of Atomic Energy, Academia Sinica, Beijing. After getting a Ph.D in math in 1992, he spend two years in the well-known Math Science Research Institute, Berkeley, and Max Planck Math Institute, Bonn, as a postdoctoral fellow and a visitng professor. He worked three years in the math department, Univ. of Chicago, as a faculty. Since 1997, he has been working in the financial markets, such as two international banks, well-established hedge fund and proprietary option trading firm, as a chief quant researcher, senior VP in modeling, and director of financial engineering group. He has written more than sixty five documents and working papers. He is curretnly working in the autmated market making team of quantitative trading Group, BAML, as a head quant.

Abstract

Title: ETF High Frequency Trading

In this talk we will discuss the status of current ETF (exchange traded fund, a fasinating product) market and most recent development in leveraged ETFs. We will briefly explain some general methods of ETF high frequency trading.

Speaker

David Lin (林东)

Vice President

Quantitative Equity Technologies

JPMorgan Chase Asset and Wealth Management

david.d.lin@jpmorgan.com



Biography

For the past 10 years, David Lin has served various functions at JPMorgan Chase Investment Management America, and is currently responsible for Quantitative Equity Technologies. Before that, David was the Head of Software Development for Investment Services, covering Equities, Alternative Investments and Compliance, after years of being principle architect at Fixed Income, Distribution and Common Services. Before joining JPMorgan Chase, David was the Chief Architect and Head of Software Development at CNBC.com. For the 10 years prior to that, David managed and consulted for various firms across industries, including sell side banks, as well as financial data/rating, insurance and technology firms. David received his B.Sc. from University of Toronto in Computer Science, and MBA from Columbia University. He is also an alumnus of Fu-Dan University. David is a member Global Quant Council (GQC) at JPMorgan Chase Asset and Wealth Management, as well as Society of Quantitative Analysts (SQA). David lives at Upstate New York with wife and a young son

Abstract

Title: Dancing with Bears – A Few Trends in Quantitative Investment Technologies

From Aug 07 Quant debacle, to Lehman bankruptcy, to crisis in PIGS and now QEII, Quant Investment Strategies have endured a roller-coaster 3 years. Added in between, volume in HFT spiked to unprecedented level, with opaque market impact.

While the Market is moving swiftly in random walk, the regulatory framework is changing significantly. Adverse market condition by popular resentment toward financial sector only heightened the sense of uncertainty.

With above, Questions abound for Quant Strategies? To be “Quant” or to be “Qual”? How to differentiate and stretch the half-life of Alpha Models? Should “Barra” still be the Risk Model? How to avoid the “Sharks” (HFT) in the “Tanks”, where buy-side shops liquidity? Is it still possible to stay a focused value-shop, while investment horizon is been compressed remarkably, and pressure to perform in short term is everywhere?

In this discussion, we’ll focus on some of the challenges facing quant equity strategies, and trends in its technologies, from the perspectives of buy-side institutions.

If time permits, for those with a heart in do-it-yourself financial-engineering, we’ll touch upon basic techniques in building a personal Quant Investment Process, from mid to high Frequency.

Speaker

Tianhua Zhu (朱天华)

Managing Director,
Quantitative & Algorithmic Trading Strategies
Goldman Sachs
tianhua_98@yahoo.com



Biography

Tianhua Zhu is a Managing Director in the Fixed Income, Currency, and Commodity division of Goldman Sachs. He is responsible for the quantitative and algorithmic trading business for fixed income interest rate products. Before joining Goldman, Tianhua Zhu was header of fixed income high frequency trading desk in the Global Proprietary trading group of Credit Suisse. From 2003 to 2005, he worked as a vice president and a proprietary trader in the fixed income division of Lehman Brother. From 2000 to 2003, he was a vice president in the fixed income electronic market making group in Goldman Sachs. Tianhua Zhu received his Ph.D. in Physics from Columbia University and his B.S. in Physics from the University of Science and Technology of China

Abstract

Two competing forces exists in today's market. One is the continually deleverage. Both consumers and corporations are hoarding more and more cash. The savings rate in the US has increased dramatically over the last two years. This is deflationary. The other is the Fed's quantitative easy. Fed is and will print more and more money in effort to stimulate the economy and to bring down the unemployment rate. To prevent their currencies appreciating too much against dollar, other countries might do the same things. This is inflationary. How will this two forces fight with each other? What's their effect to the economy, to the stock market and debt market?

Quant trading, particularly high frequency trading did extremely well during the financial crisis. The ever-exploding electronic trading volume and the tendency of moving more security instruments into center clearing and electronic trading platform in the post crisis era provides even great opportunity for the business in the future. On the other hand, there is also growing controversy over quantitative and high frequency trading. Many people blamed high frequency trading as the underlying cause for the flash crash happened in May 6, 2010. Is high frequency trading good or bad for the market? How far will the arm race on speed in high frequency trading go? What's the challenge and opportunity for the high frequency trading business?



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Session III

**Green and Smarter Planet Applications
3:00 PM – 5:00 PM
Room: Essex**

Moderator

Dr. Henry Chang (張鴻洋)

IBM T.J. Watson Research Center

Panelist

Dr. Rong Chang (張榮)

IBM T.J. Watson Research Center

Dr. Jing David Dai (戴晶)

IBM T.J. Watson Research Center

Dr. Qing He (何慶)

IBM T.J. Watson Research Center

Dr. Pei-Yun Sabrina Hsueh (薛沛芸)

IBM T.J. Watson Research Center

Dr. Li-Chi Cliff Po (濮勵志)

Micro-Simulation Technologies

Session Chair

Dr. Henry Chang (張鴻洋)

Collaboratory Director
IBM Intelligent Living Services Research in Taiwan
IBM T. J. Watson Research Center
(hychang@us.ibm.com)



Biography

Dr. Henry Chang is the collaboratory director of Intelligent Living Services research in Taiwan, a multi-year effort to enable healthcare cloud services for a facilitated network of holistic wellness care. He is a senior technical staff member and a research manager in Business Informatics department at the IBM T.J. Watson Research Center. He is the research innovation lead of the IBM Websphere BPM suits and IBM internal supply chain visibility. His recent research interests include Wellness transformation for smarter healthcare, business event processing, continuous process improvement, and event-based business collaboration. He received an IBM Innovation Award for his work on model-based B2B collaboration solutions.

He specializes in model-driven analysis and solution generation for dynamic business performance management and the business modeling and collaboration for supply chain. He has conducted research in the areas of business process visibility with a “sense and respond” system for internal IBM integrated supply chain. His industrial experiences include dynamic web service hub for Taiwan design collaboration among chip designers, business process analytics study for IBM BTO, and business performance monitoring for Amex strategic outsourcing account. He has developed event-driven platforms to support loosely coupled design processes across enterprises for virtual team integration and design-time e-sourcing. Henry’s main industrial experiences include managing the IBM B2B fulfillment extranet with 300 business customers, IBM semiconductor supply chain inventory monitoring system, and electronics component supply and demand integration and optimization. Before joining IBM at the Thomas J. Watson Research Center, he received Ph.D. in Computer Sciences from U. Wisconsin-Madison at 1987 and a B.S. in Electrical Engineering from National Taiwan University. He is a long time member of ACM and IEEE.

Improving Sustainability for Smarter Cities

Speaker

Dr. Jing (David) Dai (戴晶)

Research Scientist, Smarter City Services
IBM T. J. Watson Research Center
jddai@us.ibm.com



Biography

Dr. Jing Dai received the B.S. degree in information science from Fudan University, M.S. degree in computer science from the National University of Singapore, and his Ph.D. degree in computer science from Virginia Tech. He is a postdoctoral researcher for Smarter City Services, IBM T. J. Watson Research Center, working on data management and analytics for smarter water, smarter energy, and smarter transit. Before that, he was working with Virginia Department of Transportation as a major contributor to a freeway performance monitoring and analysis system, which won award on the National Academe of Engineering Grand Challenges Summit. Dr. Dai is an active researcher in spatial data management, data mining, human activity analysis, and ITS/GIS areas. He has served as organization committee of several AI and GIS conferences. Dr. Dai is a member of IEEE and ACM SIGSPATIAL.

Abstract

The majority of the human race now resides in cities. By 2050, city dwellers are expected to make up 70% of Earth's total population, or 6.4 billion people. Urban migration trends for cities in developing economies are causing significant stress on city infrastructure as demand outpaces supply for water, energy, transportation, healthcare, education and safety. To tackle these challenges during unprecedented economic crises, cities are increasingly looking to the technology to shift the paradigm, help bend cost curves, improve efficiencies, and enable sustainable ways of delivering the quality of life that citizens expect while also balancing budgets. Information plays a key role in managing sustainability to meet the need for this transformation. Utilizing information to understand, model, and influence how city residents behave in using resources such as water, energy, and transportation, we can help cities become more sustainable.

Smarter Transportation Analytics

Speaker

Dr. Qing He (何慶)

Post Doc Researcher,
Business Analytics and Mathematical Science
IBM T. J. Watson Research Center
qhe@us.ibm.com



Biography

Dr. Qing He received the B.S. and M.S. degrees in electrical engineering and automation from Southwest Jiaotong University, China, in 2003 and 2006, and the M.S. and Ph.D. degrees in systems & industrial engineering from the University of Arizona, in 2009 and 2010.

He is currently a post doc researcher with the Department of Business Analytics and Mathematical Science, IBM T. J. Watson Research Center, Yorktown Heights, NY. He is now working on several projects of IBM smarter transportation, especially IBM traffic prediction tool (TPT) and decision support system (DSS). His research interests include traffic control, traffic short-term prediction, vehicle routing and scheduling, robust optimization, GPS positioning, and railway control.

Dr. He is a member of IEEE, Transportation Research Board (TRB) and Institute for Operations Research and the Management Sciences (INFORMS).

Abstract

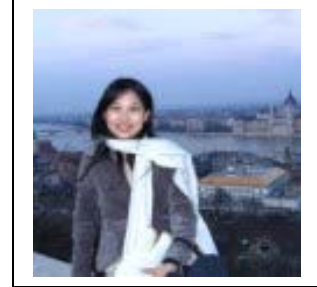
Every human being, company, organization, city, nation, natural system and man-made system is becoming interconnected, instrumented and intelligent. This is leading to new savings and efficiency—smarter transportation to ease congestions and reduce emissions. It should not only permit transportation, but enable important functionalities such as monitoring transportation infrastructure, across modes, integrating data, planning and operational tools, alerting control centers and other authorities as needed and optimizing the entire infrastructure to accommodate growth as well as changes in requirements. In this talk, we will briefly introduce some of the smarter transportation analytics developed at IBM Research. First, we present the Traffic Prediction Tool and the Bus Arrival Prediction algorithm that make use of time series-based models to provide real-time forecasts of road traffic and bus arrivals at bus stops. Second, the framework of Decision Support System (DSS) is proposed to produce on-line optimized control actions for Traffic Management Center (TMC) when traffic incident occurs.

An Open Platform for Forming Wellness Management Ecosystems on Cloud

Speaker

Dr. Pei-Yun (Sabrina) Hsueh (薛沛芸)

Health Transformation Group
IBM T. J. Watson Research Center/
IBM Taiwan Research Collaboratory
19 Skyline Drive, Hawthorne, NY 10532
pshsueh@us.ibm.com



Biography:

Dr. Pei-Yun Hsueh received the Ph.D. in computer science and M.S. degrees in information management & systems from the University of Edinburgh and University of California, Berkeley. She is currently a member of the Healthcare Transformation Group at IBM T.J. Research Center and Taiwan Research Collaboratory, responsible for the development of evidence-based analytics personalized lifestyle intervention services. Before that, she was at the Business Analytics and Mathematical Science department, working on social media analytics and patent quality projects. Her research efforts focus on applying machine learning techniques to construct models from noisy contexts and developing adaptive intelligent interfaces that help users synthesize information from very large data collections. Prior to IBM, she worked for Genentech Inc. and Accenture Technology lab and was a Google Anita Borg scholar.

Abstract:

Due to increasing life expectancy, many countries are now facing aging societies. In US, the cost of treating seniors with chronic diseases amounts to \$1.65 trillion annually, which accounts for 75% of total healthcare spending in 2009. In Asia, the aging population poses an even greater challenge due to the all-time-low birthrate. How to sustain existing healthcare systems under an aging population has therefore become a key issue. Healthcare researchers have conducted large scale clinical trials and presented evidences on the effectiveness of lifestyle interventions. How do we translate these learned lessons into system design? What kind of roles can cloud computing play in the scene? In this talk, we will summarize the overall directions in the IBM Taiwan Research Collaboratory, including the development of GreenOlive, a cloud-enabled platform that aims to facilitate evidence use and personalized services in a multi-provider ecosystem environment. We will also introduce some of the challenges and building blocks in providing personalization services, for example, wellness monitoring and compliance checking, and active learner scheme for online personalization from multiple sources.

New Nuclear Power Plant Designs

Speaker

Dr. Li-Chi Cliff Po (濮勵志)

Founder President

Micro-Simulation Technologies

info@microsimtech.com



Biography:

- Founder president of Micro-Simulation Technology in Montville, New Jersey. Its product is nuclear power plant simulator.
- 40 years experience in nuclear industry. Lecturer Director of IAEA since 1996.
- Has provided consultation in many countries.
- During aftermath of the TMI-2 event, Dr. Po participated in the post-accident investigation and restart of the undamaged Unit 1.

PhD in physic University of Manchester in England (1973)

B.Sc. in physic National Taiwan University (1968)



**Chinese Institute of Engineers, USA
Greater New York Chapter
2010 Annual Convention**

Newark Liberty International Airport Marriott, Newark, New Jersey
Saturday, November 13, 2010

Session IV

**Emerging Applications: From Multimedia to Mobile
3:00 PM – 5:00 PM
Room: Liberty**

Moderator

Dr. Woody Huang (黃允武)

IBM T.J. Watson Research Center

Panelist

Dr. Leslie S. Liu

IBM T.J. Watson Research Center

Dr. Yuanqiu Luo (罗远秋)

Huawei Technologies USA

Dr. Chiao-Fe Shu (徐秋風)

IBM T.J. Watson Research Center

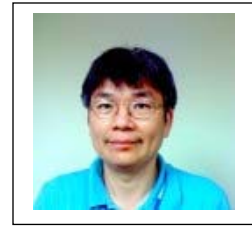
Dr. Zhen Wen (文镇)

IBM T.J. Watson Research Center

Session Chair

Dr. Woody Huang (黃允武)

Research Staff Member
IBM T. J. Watson Research Center
ywh@us.ibm.com



Biography

Dr. Woody Huang completed his undergraduate study at National Chiao-Tung University. He received the Ph.D. degrees in computer science from the University of Michigan at Ann Arbor. He has been a research scientist at IBM T. J. Watson Research Center in New York since 1997. He has worked on research projects related to database, Java component framework, web client and mobile computing. His past research work helped IBM Websphere team build the highly competitive Java modularity framework. For the past three years, Dr. Huang have been a project leader in design and implementation of IBM's mobile collaboration systems. His work in mobile online meeting application was the highlight of Lotus' annual user conference in January 2009. This mobile meeting application has since been show-cased at numerous trade shows as part of IBM's latest mobile offerings. Dr. Huang's current research work focuses on building smart mobile applications that help user retrieve and manage information.

New Trend and Challenges in Mobile Development

Speaker

Dr. Leslie Liu

Research Staff Member, Mobile Services Product
IBM T.J. Watson Research
Hawthorne, NY USA
lesliu@us.ibm.com



Biography

Dr. Leslie Liu is a Research Staff Member at the IBM Thomas J. Watson Research Center where he works on innovations and research for secure and scalable mobile systems in enterprise. Before joining IBM Research, he co-founded a small startup with seed funding from a NSF SBIR grant to design and implement a peer-to-peer based low-latency voice streaming system for groups with large number of dynamic participants. Dr. Liu's interests include mobile security, service management, multimedia streaming and large-scale interactive applications. Dr. Liu graduated from the USC Viterbi School of Engineering in 2007 with a PhD on computer science and has authored many technical papers in multimedia and scalable systems design.

Abstract

With the successful acceptance of the new breed of smart phones into our daily life and work, it has become much clearer than ever before that a company without mobile strategy doesn't have a real strategy. One of the most significant factors behind this wave of mobile revolution is a new programming paradigm called "Hybrid" programming, which essentially employs web-programming languages for native cross-platform mobile applications development. In this talk, I will introduce the hybrid programming model and the challenges to use it in enterprise environment. I will also present some application examples to demonstrate some solutions we developed at IBM Research to address those issues.

Broadband Access via Next Generation Passive Optical Network

Speaker

Dr. Yuanqiu Luo (罗远秋)
Senior Research Engineer,
Huawei Technologies USA
(yuanqiu.luo@gmail.com)



Biography

Dr. Yuanqiu Luo is a senior research engineer in the advanced technology department of Huawei Technologies USA, Bridgewater, NJ. Before joining Huawei, she was with NEC Laboratories America, Princeton, NJ. Her research interests are in the areas of broadband access networks, next generation optical access, network modeling, and integrated optical/wireless networks. She has published over 30 papers in journals and conferences, 2 book chapters. She applied over 15 patents, with one approved and others pending.

She is actively involved in the standards of next generation passive optical networks. She is an editor of ITU-T G.987, G.987.3 and a clause editor of IEEE 802.1AS. She received both her Bachelor degree in electronics and information systems and her Master degree in electrical engineering from Shandong University, China. Her Ph.D. degree in electrical engineering was received from New Jersey Institute of Technology, Newark, NJ.

Abstract

With an ever growing bandwidth demand for emerging services, the next generation passive optical network (NG-PON) is expected to provide much higher bandwidth and protect legacy investment. These requirements motivate the research and standard of NG-PON.

This talk starts with a brief introduction of broadband access and PONs. Candidate technologies for NG-PON will be examined with a focus on cost efficiency and available bandwidth. The selection of 10-gigabit-capable PON (XG-PON) in Full Service Access Network (FSAN) and International Telecommunication Union Telecommunication Standardization Sector (ITU-T) will be reviewed by comparing different proposals. Key characteristics of XG-PON will be described to highlight smooth migration and improved performance. The first XG-PON field trial will be reviewed to discuss challenges and feasibility. Possible directions for future research will be presented in the last part of this talk.

Broadband Access via Next Generation Passive Optical Network

Speaker

Dr. Chiao-Fe Shu (徐秋風)

Senior Technical Staff Member, IBM Research
Chief Technologist, IBM GTS Physical Security Service
(cfshu@us.ibm.com)



Biography

Dr. Chiao-Fe Shu has received his Ph.D. from Computer Science and Engineering Department of University of Michigan in 1993. He is an expert programmer and researcher with over 9 years of industrial experience. He has co-founded Virage Inc. in 1994. His research covers the areas of oriented texture pattern analysis, classification, and segmentation, in-situ wafer inspection system based on Fourier Imaging, Multimedia Indexing and Retrieval, and Surveillance Video Analytics and Systems. Since joined Virage, he focused on developing viable commercial applications based on Content-Based Retrieval technology. They include Stock Photo Image System, Trademark Search System, Image Informatics System, Audio/Video Indexing/Retrieval System. The image informatics application developed by him has led to another well-funded private company called Scimagix.

Dr. Chiao-Fe Shu has published extensively in his research areas and owns 14 US patents. Dr. Chiao-Fe Shu also has solid software product development and management experience through all phases of development cycle. He has joined IBM Research in 2004 and led a successful commercialization of Smart Surveillance Systems. He is currently CTO for IBM GTS Physical Security Service.

Social Networking Technologies & Applications

Speaker

Dr. Zhen Wen (文镇)

Research Staff Member

IBM T. J. Watson Research Center

(zhenwen@us.ibm.com)



Biography

Dr. Zhen Wen has broad interests in data mining with applications on social network analysis and multimedia analysis. He is currently a co-PI and leads a task in the Social and Cognitive Networks Academic Research Center (SCNARC) sponsored by Army Research Lab (<http://scnarc.rpi.edu/>). His task focuses on mining large-scale organizational networks, as well as modeling human behavior in the networks. Previously, Zhen's PhD thesis work was on tracking and classifying human identity and activities based on face appearance and motion. His ICCV 2003 paper was among of the early works that integrated geometric models and appearance model for facial expression analysis under diverse lighting conditions. The work received a Certificate of Appreciation from Army Research Lab in Fed Lab Symposium 2001, and will play a key role in the proposed research. Zhen is currently a research staff member at IBM T. J. Watson Research Center. His past research includes context-sensitive visualization for visual analytics. Specifically, he has worked on generating visualization that is appropriate for user analytic tasks using contextual cues. His work has been used in a DHS project on monitoring and analyzing shipment through US Customs, as well as in a project on business intelligence (e.g., IBM Cognos). His work received a best paper award at ACM Conference on Intelligent User Interfaces (IUI) 2005, an IBM Research division award in 2005, and an IBM invention achievement award in 2007, 2010.



**Chinese Institute of Engineers, USA
Greater New York Chapter
2010 Annual Convention**

Newark Liberty International Airport Marriott, Newark, New Jersey
Saturday, November 13, 2010

Forum

**Fueling Next Generation With Science & Engineering Education for
Innovation & Competiveness
3:00 PM – 5:00 PM
Room: Erie Hudson**

Moderator

Dr. Jun-Min Liu (劉主民)

Integrated Solutions Inc.

Panelist

Dr. Raymond Eng

High Technology High School

Dr. Feng-Bao Lin (林豐堡)

The City College of New York

Dr. Jun Ni (倪军)

University of Michigan

Mr. Bruce Niswander, JD

Polytechnic Institute of NYU

Ms. Connie Truong

IBM

Moderator

Dr. Jun-Min Liu (劉主民)

Managing Director
Integrated Solutions Inc.
2137 State Route 35
Holmdel, NJ 07733
(732)-335-9877 x25 (O)
junminliu@gmail.com



Biography

Dr. Jun-Min Liu is Managing Director of Integrated Solutions Inc. He has led research and management of software product development in the areas of bio-informatics software application, advanced scheduling system, and C4ISR application. He also headed projects in wireless network planning and design, MPLS network transformation of OSS architecture and business process improvements in AT&T. Jun-Min has assumed several leadership roles in his professional career: program manager of AT&T Transformation project across all AT&T business units, assistant vice president of Delta Technology in charge of Operations Research Department in Delta Airlines, and managing director of ASIFT. Jun-Min served as a CIE-USA NC representative in served as a CIE-USA NC representative in National Engineers Week (EWeek) and a judge for “New Face of Engineers” contest hosted by EWeek.

Jun-Min received his bachelor degree in Mathematics from Soochow University in Taiwan, master degree in Mathematics from Wichita State University at Wichita, Kansas and Ph.D. degree in Operations Research and System Analysis from University of North Carolina at Chapel Hill, North Carolina.

Panelist

Dr. Raymond Eng

High Technology High School
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Lincroft, New Jersey 07738
732-536-4950
rayeng@alum.mit.edu



Biography

Dr. Eng's professional degrees are from Massachusetts Institute of Technology, a B.S. in Chemistry and Ph.D. in Nuclear Engineering and a Masters in Engineering Administration from George Washington University. He worked for several nuclear engineering firms until 1998, when became a full time educator.

Dr. Eng, an M.I.T. Educational Counselor, has been interviewing high school students applying to MIT for over 25 years. He is also serving his fifth term on the Marlboro Township Board of Education. Dr. Eng is teacher of mathematics at High Technology High School, currently teaching an accelerated one-year Geometry/Algebra2 course for freshmen and Multi-variable Calculus for advanced students. Dr. Eng is also Math Curriculum Coordinator for the Career Academies at the Monmouth County Vocational School District. During the summers, he is Adjunct Instructor of Mathematics at Brookdale Community College.

Abstract

Title: Project Lead the Way at High Technology High School

Project Lead The Way [PLTW] is a national pre-engineering curriculum being offered in middle and high schools across the country to make STEM courses more exciting and to stimulate the imagination, innovation and learning. The PLTW Pathway to Engineering 4-year high school sequence at High Tech is presented: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Civil Engineering and Architecture, Computer Integrated Manufacturing, and Engineering Design and Development. Further information about PLTW is provided on its website, www.pltw.org.

Panelist

Dr. Feng-Bao Lin (林豐堡)

Professor of Department of Civil Engineering
The City College of New York,
160 Convent Avenue
New York, NY 10031
212-650-8001 (O)
flin11357@yahoo.com



Biography:

Dr. Feng-Bao Lin earned his Bachelor's degree in Civil Engineering and Master's degree in Structural Engineering both from National Taiwan University in Taipei, and received his Ph.D. in Structural Mechanics from Northwestern University in Evanston, Illinois. He joined Polytechnic University in New York as a faculty member soon after he graduated from Northwestern University, and then joined The City College of New York in 2002. He has been teaching a variety of courses, such as Reinforced and Prestressed Concrete Structures, Steel Structures, Inelastic Structural Analysis, Stability of Structures, Structural Dynamics, Elasticity and Plasticity, Finite Element Methods, etc. Many of his Ph.D. students after graduation either work with renowned organizations or teach at well-known universities.

Dr. Lin has conducted various research projects for National Science Foundation, Air Force, NASA, AISC, Argonne National Laboratory, etc. Currently, he is working on research topics such as Seismic Evaluation and Isolation Retrofit of Long-Span Bridges, Structural Integrity Monitoring System for Buildings Damaged by Fire, Characterization of Stress Separation Relation and Boundary Element Analysis of Crack Propagation in Cementitious Materials, Investigation and rehabilitation of Cracking in Bridge Decks, and Photonic Breast Tomography and Tumor Aggressiveness Assessment. He has published more than sixty journal and conference papers.

Dr. Lin has been active in various professional societies and has served on a number of international professional committees. In addition, he has been active in Chinese community and professional organizations. The positions he has served include Board member of International Chinese Transportation Professional Association/Northeastern Chapter (ICTPA-USNE), President and Board Chairman of Chinese American Academic and Professional Society (CAAPS), and Principal of Chinese Cultural Association of Long Island and Chinese School. Because of his dedication to research and professional activities, he has received several Outstanding Merit, Outstanding Service, and Outstanding Science and Technology Research Paper awards.

Dr. Lin earned a professional license in Civil Engineering in 1977 by passing the highest professional examination in Taiwan. He is also a practicing licensed engineer in the states of New York and Connecticut. He has worked as a consultant, besides his diversified research interests, on many design projects of building and bridge structures.

Panelist

Dr. Jun Ni (倪军)

Shien-Ming (Sam) Wu Collegiate Professor of
Manufacturing Science
Professor of Mechanical Engineering Department
University of Michigan, Ann Arbor
(734) 936-2918 (O)
junni@umich.edu



Biography:

Professor Jun Ni is the Shien-Ming (Sam) Wu Collegiate Professor of Manufacturing Science and Professor of Mechanical Engineering at the University of Michigan, USA. He is the founding Dean of the University of Michigan – Shanghai Jiao Tong University Joint Institute located in Shanghai, China (2006-2011). He serves as a Special Counselor to the President at Shanghai Jiao Tong University. He also serves as the director of the S. M. Wu Manufacturing Research Center and the co-director of a National Science Foundation sponsored Industry/University Cooperative Research Center for Intelligent Maintenance Systems at the University of Michigan. From 2003 thru 2006, he served as the deputy director of a National Science Foundation sponsored Engineering Research Center for Reconfigurable Manufacturing Systems at the University of Michigan. He also held the position of the director of another National Science Foundation sponsored Industry/University Cooperative Research Center for Dimensional Measurement and Control in Manufacturing (1993-1998). He received his undergraduate education at Shanghai Jiao Tong University and earned a MS and a Ph.D. degree from the University of Wisconsin-Madison in 1984 and 1987, respectively.

Panelist

Mr. Bruce Niswander, JD

Director – Polytechnic Institute of New York University
Office of Innovation & Technology Transfer
Office of Entrepreneurial Initiatives
Polytechnic Institute of NYU
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614-657-8300 Cell
bniswand@gmail.com



Biography

Mr. Bruce Niswander, JD serves as the director of Polytechnic Institute of New York University's Offices of Innovation and Technology Transfer as well as the Office of Entrepreneurial Initiatives. Part of his responsibilities includes all technology transfer activities relating to the Institution's rapidly growing intellectual property / patent portfolio. He is also responsible for the day to day management of the institution's 3 business incubators as well as the integration of the activities of those facilities into the school's academic infrastructure in accordance with the University's i2e philosophy of Invention, Innovation and Entrepreneurship. Niswander applies expertise from more than 25 years of creating, developing and leading new business ventures. He was appointed to his current position in 2006.

As director of NYU-Poly's incubators he guides start-up companies through early stage periods of business development, providing guidance on financing, intellectual property management, marketing and sales strategies, organizational structure and contract negotiations. He heads the school's first incubator, Brooklyn Enterprise on Science and Technology (BEST), founded in 2004; the Varick Street Incubator in lower Manhattan, which is a partnership with New York City, and the New York City Accelerator for a Clean and Renewable Economy (NYC ACRE), a partnership with New York State Energy and Research Development Authority (NYSERDA) that nurtures green-technology companies in the Varick Street space. He also has responsibility for the operation of NYC SEED, which supports and funds seed-stage technology entrepreneurs in New York City.

Niswander's first company, Objective Financial Services, was created as a partnership between Niswander and Bank One Corporation, in Columbus, Ohio, in 1983. He served as its president and CEO for seven years. He also spent 6 years working with Battelle Memorial Institute, the largest independent research institute in the world, commercializing a variety of new technologies and business initiatives. In 1995 he founded Synergetic Solutions, a business commercialization and intellectual property consultancy, in Columbus and served as CEO and president for 12 years. During this

period he was also involved with a variety of other start-ups in various capacities from CEO to Vice President of Marketing.

Niswander attended the University of Cincinnati for Chemical Engineering, and holds a bachelor's degree in finance Summa Cum Laude and master's degree in business administration from Ohio State University, and a juris doctor from Ohio State University. He is also a Certified Financial Analyst (CFA).

Niswander also teaches graduate-level courses in Technology Entrepreneurship, Entrepreneurial Finance and Management of Intellectual Property for NYU-Poly's Technology Management Department.

Abstract

Culture of Peace Economic Initiative

- Introduction
- The Evolving Economic Environment – A JOB and A FUTURE
- Education and Science are the Common Denominators
- Small Business Catalyst
- Global Collaboration
- The Ultimate Culture of Solutions

Panelist

Ms. Connie Truong

Manager of The Unit Process Development Engineering
IBM Semiconductor Research and Development Center
(845)-892-0898
ctruong@us.ibm.com



Biography

Ms. Connie Truong is the Unit Process Development Engineering Manager at IBM Semiconductor Research and Development Center, East Fishkill, NY. She is the Chapter Chairperson for Tri-State Asian Diversity Networking serving Asian American IBM employees in the NY/NJ/CT tri-state area. She had served as the National Program Development Grant Committee Chairperson for Society of Women Engineers. Ms. Truong received her B. S. in Chemical Engineering from the University of Massachusetts in 1988, her M.S. in Materials Science from Columbia University in 1994, and her M.B.A. degree from Marist College in 2001. She is also a Project Management Professional (PMP®), certified by Project Management Institute (PMI) and IBM since 2001. She is married with two teenager children and living in Hyde Park, NY.

Abstract

General development engineering process tasks at IBM

Marriott Hotel Floor Plan

