CAST-USA GNY
2015 Convention

Chinese Association for Science and Technology, USA
Greater New York Chapter

May 2, 2015

Faculty House, Columbia University, New York
CAST-USA GNY 2015 Convention (http://convention2015.castusa-gny.org/)

**Convention Agenda & Program**

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<td>9:30-10:30 AM</td>
<td>Opening Remarks</td>
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<td>Welcome message from CAST-USA GNY leaders</td>
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<td>Prof. Jiajun Xiao, Chair and Board of Directors, CAST-USA GNY</td>
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<td>Congratulation message from VIPs</td>
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<td>Mr. Bonghai Ye, Counselor of Science and Technology</td>
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<td>Mr. Haining Wang, Chief Representative, CAEP</td>
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<td>Dr. Grace Sim, Deputy Director, US Federal Ministry of Health Advisory Board</td>
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<td>10:10-10:50 AM</td>
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<td>Microelectronics/Nanoelectronics: Past, Present, Future and Investment Opportunities</td>
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<td>Prof. Teo Ping Ma, Yale University, member of National Academy of Engineering,</td>
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<td>Foreign Member of Chinese Academy of Science, Academician of the Academia Sinica in Taiwan, IEEE Life Fellow</td>
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<td>11:00-12:00 PM</td>
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<td>Talk 2: Bigger Data and Bigger Models for Visual Recognition &amp; Social Media</td>
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<td>Dr. Liangjuan Cao, Yahoo Labs</td>
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<td>12:00-1:30 PM</td>
<td>Lunch at NIKKO, 1280 Amsterdam Ave., (La Salle St. &amp; 123rd St.)</td>
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<td>High School Student Poster Setup before 12:30pm, Robotic Projects Demonstration</td>
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<td>1:30-2:30 PM</td>
<td>Biomedical Engineering Session (生物医学)</td>
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<td>Prof. Hui Wu, Aca. and Patricia Springer Professor of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Senior Investigator, Program in Cellular and Molecular Medicine, Bssion Children's Hospital, Newly Elected Member of National Academy of Sciences</td>
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<td>Talk 2: Seeing the Invisible... Chemical Imaging for Biomedicine</td>
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<td>Education and Leadership Session (教育与领导力)</td>
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<td>Dr. David Normann, Co-founder and President of Expert Admissions, Former Admissions Officer at Barnard College/Columbia University</td>
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<td>Mr. Chi-Sung Lin, Eleanor Roosevelt High School</td>
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<td>Talk 3: National Science Foundation Graduate Research Fellowship Program Defines the Goals of US Undergraduate Education</td>
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<td>Dr. Yuying Gao, Research Assistant Professor of Structural Biology and Bioinformatics, Director of Student Research, Grove School of Engineering, CUNY City College</td>
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<td>3:30-4:00 PM</td>
<td>Coffee/Tea Break</td>
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<td>4:00-5:45 PM</td>
<td>Entrepreneurship (创业)</td>
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<td>Dr. Henry Shi (十座博士), Chairman &amp; Managing Partner of Realstone Venture Capital</td>
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<td>5:45-6:00 PM</td>
<td>High School Student Poster Competition Award Ceremony</td>
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<td>Competition Chair: Dr. Yi Sun</td>
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<td>Judges: Dr. Yi Sun, Dr. Yuying Gao, Chi-Sung Lin, Alvin Lu, Yi Pan, etc.</td>
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Title: Microeletronics/Nanoelectronics: Past, Present, Future and Investment Opportunities

Abstract: Since the invention of the transistor more than 6 decades ago, the tremendous progress of the electronics industry has been riding on the exponential growth of the IC technology, as characterized by the “Moore’s Law”, which basically says that the information storage capacity of a silicon chip, as well as its information processing power, grows exponentially with time. Recently, however, there is a growing concern that the “Moore’s Law” will end in the foreseeable future, and so will the CMOS technology. This talk will give an overview of the silicon chip technology and how we have got here, with a preview of what’s to come in the future. The various challenges in continuing the progress of CMOS technology will be highlighted, and emerging research opportunities will be discussed. This talk will also introduce an exciting startup company that is in the process of commercializing a novel semiconductor memory technology.

Dr. Tso Ping MA 马佐平博士 (耶鲁大学)

T.P. Ma is Raymond J. Wean Chair Professor of Electrical Engineering at Yale University, where he has been a faculty member since 1977. He also serves as a Co-Director of Yale Center for Microelectronics, and a Co-Director of the Yale-Peking Joint Center for Microelectronics and Nanotechnology. He was Chairman of the Department of Electrical Engineering at Yale University between 1991 and 1995, and between 2001 and 2007.

He is an elected member of the National Academy of Engineering (NAE) in USA, an elected foreign member of the Chinese Academy of Sciences, an elected Academician of the Academia Sinica in Taiwan, and a Life Fellow of the Institute for Electrical and Electronic Engineering (IEEE).

In 1974 he graduated from Yale University with a Ph.D. degree in engineering and applied science and went to IBM, where he did research work on advanced silicon device technology and ionizing radiation effects in MOS devices before he joined Yale University faculty in 1977.

Dr. Tso Ping MA (马佐平博士) 耶鲁大学教授，美国国家工程院院士，中科院外籍院士，台湾中央研究院院士，美国电机及电子工程院终身院士
**Information Technology Session**

**Session Chair: Dr. YingLi Tian**

**Talk 1.1: Towards Immortal Operating Systems**

**Dr. Eric Wu**  
IBM T. J. Watson Research Center  
Vice President of CIE-GNYC  
Chinese Institute of Engineers  
Greater New York Chapter

**Biography**
Dr. C. Eric Wu received his B.S. in electrical engineering, National Taiwan University, and his M.S. and Ph.D. degrees in computer science and engineering from Michigan State University. He is a research staff member at Commercial System Department, IBM T. J. Watson Research Center, currently working on research and development for system software, particularly on Inter-partition shared memory, SR-IOV, and software-defined networks (SDN). Most recently Dr. Wu and his teammates developed the world's first immortal operating system, an AIX OS which can resurrect itself in less than 3 seconds after an OS crash while all applications, except the one causing the OS crash, survive from the crash without checkpoint-restart or reboot. Dr. Wu has authored or co-authored over 60 technical papers in published journals or conference proceedings. He received Best Paper Awards in 2012 International Symposium on Computer Architecture and High Performance Computing and 1996 International Conference on Parallel and Distributed Processing, and Outstanding Paper Award in 1997 International Symposium on High Performance Computing. Dr. Wu is a senior member of IEEE and Vice President at CIE-GNYC.

**Abstract**
Numerous attempts have been made in the past to give applications a chance to survive OS (Operating System) crashes. With the increasing popularity of hypervisors such as the IBM pSeries’ PHYP, VMware’s ESXi, and Microsoft’s Hyper-V, the chance to recover from OS crashes is never better. In this presentation I will describe the ALDR (Automated LPAR Diagnosis and Recovery) technology for an immortal AIX (IBM’s UNIX) instance. With this technology, there is no need for checkpoint- and-restart. There is no need to modify individual applications or processes, and the approach is remarkably powerful with the help of the hypervisor. A small OS repair image, called ALDR-AIX image, is first dynamically created from the healthy running OS instance, and saved into a memory area hidden from the OS. When the OS crashes, the hypervisor loads the ALDR-AIX image, which diagnoses the crashed OS,
possibly performs repair by fixing some data-structures, and quarantines the offending process. The original fixed OS instance then resumes running without requiring a reboot. The entire process is automated and takes less than 3 seconds according to our experimental evaluations. All processes except the quarantined one continue to run as if the crash has never occurred. As far as we know, this is the first design and implementation capable of automatically resurrecting a crashed Operating System without requiring a reboot. This technology has the potential to significantly reduce the downtime and maintenance cost in enterprise data centers.

**Talk 1.2: Bigger Data and Bigger Models for Visual Recognition and Social Media**

**Dr. Liangliang Cao**  
Senior Research Scientist  
Yahoo! Labs  
[http://llcao.net](http://llcao.net)

**Biography**

Dr. Liangliang Cao is a senior research scientist at Yahoo! Labs. He also holds an adjunct faculty position at the Columbia University in the City of New York. He worked as a research staff member in IBM T.J. Watson Research Center from 2011 to 2015. His work has received three times the IBM Research Division Award (individual award) as well as one Outstanding Technical Accomplishment (group award). He is now leading the efforts of building big data learning toolkit for IBM Multimedia group. Before joining IBM, he did summer interns at Kodak, Microsoft, and NEC Research Labs and received his Ph.D. from University of Illinois at Urbana-Champaign. He received the best paper award from the International Workshop on Big Data Mining, 2012. He was listed as an IBM Emerging Leader in Multimedia and Signal Processing in 2010 and Facebook Fellowship Finalist in 2010. He was a general chair of Greater New York Area Multimedia and Vision Meeting from 2012 to 2013. He was also a founding chair of ACM workshop on Geo-Multimedia. He was an area chair of ACM Multimedia 2012 and WACV 2014.

**Abstract**

In the past decade, the field of visual recognition has experienced a number of significant changes. The size of the datasets collected by vision researchers has grown substantially. For example, the ImageNet LSVRC dataset in 2010 is 150 times bigger than the Caltech101 dataset in 2003. On the other hand, the visual recognition models also become dramatically bigger. The state-of-the-art deep CNN models have 1000 times more parameters than the tradition bag of words model in the early 2000s. In this talk, I plan to give a personal overview of these evolutions in visual recognition, and show how models and data reinforce each other’s growth. I would like to share our experiences of winning the First Place in ImageNet Large Scale Visual Recognition Challenge 2010 as well as the First Place in ImageCLEF medical image recognition 2012&2013 and examine the influence of scalable techniques in these visual recognition problems. A few our recent demos of visual recognition, text recognition and social media mining will be shown during the talk together with discussions of future research.
Biomedical Engineering Session (生物医药)

Session Chair: Dr. Lingyan Shi

Talk 2.1: Visualizing the Immune System in 3-D

Dr. Hao Wu
Asa and Patricia Springer Professor
Biological Chemistry and Molecular Pharmacology
Harvard Medical School
Senior Investigator
Program in Cellular and Molecular Medicine
Boston Children’s Hospital

Newly Elected Member of National Academy of Sciences

Biography

Dr. Wu received her pre-medical training at Peking University from 1982-1985 and studied Medicine at Peking Union Medical College from 1985-1988. She obtained her Ph.D. in Dr. Michael Rossmann’s lab from Purdue University in 1992 and performed postdoctoral research at Columbia University with Dr. Wayne Hendrickson. She became an Assistant Professor at Weill Cornell Medical College in 1997 and was promoted to Professor in 2003. In 2012, Dr. Wu moved to Harvard Medical School as the Springer Family Professor of Pediatrics, Professor of Biological Chemistry and Molecular Pharmacology, and Senior Investigator in the Program in Cellular and Molecular Medicine of Boston Children’s Hospital.

Dr. Wu has received a number of honors, including the Howard Hughes Medical Institute pre-doctoral fellowship, the Aaron Diamond Foundation postdoctoral fellowship, the Pew Scholar award (2000), the Rita Allen Scholar award (2002), New York Mayor’s Award for Excellence in Science and Technology (2003), the Margaret Dayhoff Memorial Award from the Biophysical Society (2003) and Purdue University Distinguished Science Alumni Award. She is an AAAS fellow and serves on the Scientific Advisory Council of the Cancer Research Institute and the Editorial Board of Cancer Cell.

Dr. Wu has published more than 110 articles, which appeared in the most prestigious scientific journals, including Nature, Science, Cell, Cancer Cell, and Proceedings of the National Academy of Sciences U.S.A. (Totally 13 corresponding authorships on CNS research articles).

Abstract

Dr. Wu’s lab focuses on elucidating the molecular mechanism of signal transduction by immune receptors, especially innate immune receptors. Her lab uses X-ray crystallography in conjunction
with other biochemical and biophysical methods, such as electron microscopy, to elucidate the protein-protein interactions involved in these processes. As a recurrent theme, the lab’s research revealed that upon ligand stimulation, many innate immune receptors assemble large oligomeric intracellular signaling complexes, or “signalosomes,” to induce the activation of caspases, kinases and ubiquitin ligases, leading to cell death, cytokine maturation or expression of gene products for immune and inflammatory responses. This talk will highlight some of the research achievements in Dr. Wu’s lab. Website: http://wulab.tch.harvard.edu/Research.html

Talk 2.2: Seeing the Invisible: Chemical Imaging for Biomedicine

Dr. Wei Min
Assistant Professor
Department of Chemistry
Columbia University
300 Broadway, MC 3116
New York, NY

Biography
Dr. Wei Min graduated from Peking University, China, with a Bachelor's degree in 2003. He received his Ph.D. in Chemistry from Harvard University in 2008 studying single-molecule biophysics with Prof. Sunney Xie. After continuing his postdoctoral work in Xie group, Dr. Min joined the faculty of Department of Chemistry at Columbia University in July of 2010. Dr. Min's current research interests focus on developing novel optical spectroscopy and microscopy technology to address biomedical problems. His contribution has been recognized by a number of honors, including George Fraenkel Fund Award (2014), Alfred P. Sloan Research Fellowship (2013), NIH Director's New Innovator Award (2012) and Faculty Finalist of Blavatnik Awards for Young Scientists of the New York Academy of Sciences (2012).

Abstract
Innovations in optical imaging technology have significantly impacted modern biology and medicine. While most of the contemporary bio-imaging modalities harness electronic transition (fluorescence), nuclear spin (magnetic resonance imaging) or radioactivity (positron emission tomography), vibrational spectroscopy has not been widely used yet. Here we will discuss an emerging chemical imaging platform, stimulated Raman scattering (SRS) microscopy, which is capable of generating concentration maps of targeted chemical bonds in living systems with high sensitivity, specificity and resolution. When coupled with stable isotopes (e.g., deuterium and $^{13}$C) or bioorthogonal chemical moieties (e.g., alkynes), SRS microscopy is well suited for probing in vivo metabolic dynamics of small bio-molecules which cannot be labeled by bulky fluorophores. Physical principle of the underlying optical spectroscopy and exciting biomedical applications such as imaging lipid metabolism, protein synthesis, DNA replication, protein degradation, RNA synthesis, glucose uptake, drug trafficking and tumor metabolism will be presented.
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❖❖❖  Session Three  ❖❖❖

Education and Leadership Session (教育与领导力)

Talk 3.1: How Can Chinese Students Stand Out in the College Application Process?

Dr. Bari Norman
Co-Founder and President of Expert Admissions
Former Admissions Officer at Columbia University
http://www.expertadmissions.com/

Biography

Dr. Bari Norman, Co-Founder and President of Expert Admissions, has more than 17 years of experience in highly selective college admissions, both as an admissions officer and as a college counselor for elite families in New York City and around the world. During her tenure as an Admissions Officer at Columbia University (Barnard College), she rendered decisions on thousands of applications, both domestic and international. Dr. Norman has been featured in international and national media, including the New York Times, Wall Street Journal, US News & World Report, NBC’s Today Show, ABC’s Good Morning America.

College Admissions Experience:
• Admissions Officer, Columbia University (Barnard College),
• Director of Pre-College Programs, Columbia University (Barnard College)
• Chair, Pre-College Admissions and Financial Aid, Columbia University (Barnard College)
• Curriculum Consultant, New York University
• Faculty, University of California - Irvine, Independent Educational Consultant Certificate Program

Education:
• Ph.D. in Sociology, University of Pennsylvania
• M.A. in Sociology, University of Pennsylvania
• A.B. in Sociology, magna cum laude, Columbia University (Barnard College)
• Certificate in College Counseling, UCLA
• Harvard Summer Institute on College Admissions

Abstract

There are many highly qualified Chinese students applying to college in the US. However they have difficulty differentiating themselves in the college application process, and as a result are not admitted to their top choice schools. In order to stand out, it is essential for Chinese
applicants to differentiate themselves on multiple levels, including academic profile, standardized test scores, essays, extracurricular activities and academic interests. Dr. Bari Norman will give an overview of the different components of the college application, and an explanation of the holistic application review process, which is the primary method used by the most prestigious and selective colleges and universities, including Ivy League schools. Dr. Bari Norman will then share what she has learned about the strengths and weaknesses of Chinese applicants, and provide advice specifically targeted to help Chinese students submit stronger college applications, and yield better results. There will be a brief period for Dr. Norman to address questions from the audience following the presentation.

http://www.expertadmissions.com/

Talk 3.2: Leadership Development and STEM Education

Mr. Chin-Sung Lin
Eleanor Roosevelt High School
411 East 76th Street, New York, NY 10021
clin@erhsnyc.net

Biography

Mr. Chin-Sung Lin earned his M.S.E.E. from Polytechnic University, NY in 1991. He was a senior hardware engineer focusing on digital video at Philips Research. In 2005, Mr. Lin entered the teaching career through the NYC Teaching Fellows program. He started teaching technology, physics, and various math classes at Information Technology High School. He earned his M.S.T. from Pace University in 2008. He is certified to teach math, physics and technology education. He is passionate to share the excitement of innovative problem solving in the STEM fields with students through project-based learning. Mr. Lin began teaching at Eleanor Roosevelt High School in 2010. He currently holds classes in Computational Thinking (10th), Physics/Lab (11th), Robotics and Engineering Design (11th & 12th), and Advanced STEM Research (12th).

Abstract

I. Leadership Development (Observed)

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<td>1. Confidence and Positive Attitude</td>
<td>1. Classroom Activities</td>
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<td>2. Big Pictures and High-order Cognition</td>
<td>2. Sport Teams/Clubs</td>
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<td>3. Commitment and Responsibility</td>
<td>3. Shows/Concerts</td>
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<td>4. Real-World Knowledge and Experience</td>
<td>4. Conference/Competition</td>
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<td>5. Collaboration and Organization</td>
<td>5. Community Service</td>
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<td>6. Communication and Influence</td>
<td>6. Field Trips</td>
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<td>7. Relationships and Networking</td>
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<td>8. Technology and Resource</td>
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II. Leadership Development (Participated)

Focus: Develop STEM strength
1. Problem Solving
2. Innovation and Creativity
3. Entrepreneurship

Platform: Project-based learning
1. Hand-on Experience
2. Instructional Scaffolding
3. Start-up Mentality

III. Leadership Development for Our Next Generation

Perspective and expectation
In addition to expecting our young Chinese American students to excel in the STEM field and become leaders in the STEM field, we might also expect many of them to be leaders, and receive STEM education as an important training or pathway to become leaders in their chosen fields.

Platforms and role models
With the abundant and outstanding resource of CASTUSA, we may initiate projects and form working groups/organizations that involve our young Chinese American students to address practical issues/needs/challenges facing our society.

STEM education opportunities
- STEM research connection
- STEM mentoring support
- STEM entrepreneur boot camp
- STEM-based competitions

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Talk 3.3: NSF Graduate Research Fellowship Program Defines the Direction of US Undergraduate STEM Education

Dr. Yuying Gosser
Research Assistant Professor
Director of Student Research
The Grove School of Engineering,
The City College of New York, CUNY
160 Convent Avenue, Steinman Hall, Rm 2M1
ygosser@ccny.cuny.edu

Biography
Professor Yuying Gosser earned her Doctorate in Physical Chemistry from Brown University, Providence, RI. She studied Nuclear Magnetic Resonance (NMR) Spectroscopy and did research on multi-dimensional hetero-nuclear NMR for protein structure determination in Yale University and Rockefeller University and appointed as an Associate Research Scientist in Memorial Sloan-Kettering Cancer Center.

She joined the City College of New York in 2002 and established the HHMI sponsored Gateway Laboratory for undergraduate research training in Structural Biology, and as a member of HHMI supported national Genomics Education Partnership (www.GEP.wustl.edu), she developed the computer-lab based research-oriented course of Genomics and Bioinformatics. Since 2008 she has been the Director of Student Research and Scholarship at the Grove School of Engineering and the Executive Editor of the Journal of Student Research (www.gsoejsr.org). She advocates students’ early participation in research and tirelessly helps students to apply for summer research programs and graduate research fellowships. In 2014, she served as a panelist for National Science Foundation Graduate Research Fellowship Program (NSFGRFP), and she found that the NSFGRFP defines the direction of US undergraduate STEM education.

Abstract
The NSF Graduate Research Fellowship Program (GRFP) is a most prestigious fellowship program for graduate students, in parallel with the Early Career Development (CAREER) Program for young faculty.

The NSF GRFP provides three years of financial support (~$130,000) for graduate study that leads to a research-based master's or doctoral degree in science or engineering. Starting from 2010, the number of awards has been doubled from 1000/year to 2,000/year. The award recipients are selected based on their demonstrated potential for significant achievements in science and engineering, judged by a) intellectual merit – research experience and proposal of innovative research, and b) broad impact – leadership in community service and science education outreach.

The purpose of the NSF GRFP is to ensure the vitality and diversity of the scientific and engineering workforce of the United States. It defines the direction and goals of US undergraduate STEM education – producing scientists and engineers with leadership skills in advancing science and engineering research and innovation. Students are encouraged to apply for this prestigious award. Preparation, proposal, selection criteria, and diversity will be further discussed. (Reference: http://www.nsfgrfp.org/).
Entrepreneurship Session (创业)

Session Chairs: Yong Guo and Fred Yan

Talk 4.1: Federal and State Assistance for Start-up Companies

Dr. John Blaho
Director for Industrial-Academic Research
Office of the Vice Chancellor for Research
City University of New York
Training Director of NYC Regional Innovation Node

Biography

John A. Blaho, Ph.D. is the CUNY Director for Industrial-Academic Research. He has been responsible for creating/maintaining productive Sponsored Research Projects between Industrial entities and CUNY research faculty, and is currently working to increase the amount of faculty entrepreneurial activities. Dr. Blaho was trained as a chemical engineer, received his Ph.D. in biochemistry, and was the PI of an academic research lab at the University of Chicago and the Mount Sinai School of Medicine for over 25 years. Subsequently, he served a CSO function at a biotech company in Princeton, NJ. Since joining CUNY, he has led the creation of two new NSF IUCRC centers at the City College of CUNY and has served as the Industrial Mentor for 3 CUNY NSF Innovation Corps (I-Corps) teams – all three subsequently formed NYS companies and are currently supported by NSF SBIR/STTR grants. Dr. Blaho led the creation of and serves as the Training Director and coPI of the NYC Regional Innovation NSF I-Corps Node (NYCRIN). Finally, Dr. Blaho is the lead of the CUNY Innovation Hot Spot for the NYC Regional Economic Development Council of Empire State Development.

Abstract

There is now universal recognition that new, productive start up companies are a major driver of regional economic development. Accordingly, the Federal and many State governments in the US are dramatically increasing resources and assistance to nurture these nascent industrial entities. This presentation will begin with a brief overview of the national SBIR/STTR grant program. The discussion will then proceed with a description of the exciting new Innovation Corps (I-Corps) process and how it is changing the entire SBIR/STTR competitive process. Finally, the discussion will end with an overview of all of the new opportunities New York State has recently developed that benefit start up companies, including STARTUP NY and the NYS Certified Incubator and Innovation Hot Spot programs. The goal of this presentation is to describe the numerous opportunities that are currently available to start up companies, particularly in the NYC region.
Talk 4.2: The Success Formula of Entrepreneurship

Dr. Henry Shi
Chairman and Managing Partner
Redstone Venture Capital
EMAIL: henryshi88@163.com, henryshi88@gmail.com;
Wechat: henryshi88
Mobile: 001-908-674-1452(US),011-86-13301011331(China)

Biography
Dr. Henry Shi is Chairman/Founding Partner of Redstone Venture Capital, an incubation centric value-added VC firm targeting early stage TMT (Telecom, Media, Technology) companies with destructive technologies/business models. As one of 2014 Top 100 Science and Technology Investors in China, he has near 30 years of rich experience with technology innovations, US/China corporate management, successful start-ups, and investment from angel to pre-IPO. As one of 2014 Top 60 Best Early Stage Technology VC Firms in China and 2013 Most Active Angel Investment Firms in Zhongguancun, Redstone’s unparalleled value lies in its team of industry veterans from Bell Labs/Tencent/Nortel/Baidu, who not only know technologies/business models/management very well, but also provide hands-on coaching/help with abundant industry resources of talents, products, customers, especially Chinese cell phone/equipment makers, carriers, and Internet companies.

Current Activities: Board member of Education Fund, University of Chinese Academy of Sciences, Adjunct professor of EMBA program at BUPT(Beijing University of Posts and Telecommunications- alma mater of executives of telecom carriers and Internet/equipment/cell-phone firms); EVP and Secretary General of Entrepreneur Association of WRSA (members include CEOs of Baidu, USB China, et.al.); Angel Investors 100 of Zhongguancun; Mentor/judge of China’s State Entrepreneurship Promotion Program, Technology Entrepreneurship of Nanjing Government, Entrepreneurship Center at Columbia University Business School, Microsoft’s Entrepreneurship Cloud Accelerator, China Telecom’s Innovation/Incubation Center, Silicon Valley Innovation and Entrepreneurship Forum, and many business plan/entrepreneurship competitions; Frequent VIP speaker at major wireless/Internet summits and EMBA programs of top institutions such as University of Chinese Academy of Sciences/Peking University/ BUPT.

Past Experience: Partner of Greenwoods Fund(top PE/VC firm with several IPO filed recent years; member of Decision Committee and Managing Committee, lead TMT team leader); Partner of Jingtu (early stage VC, several well known records in China’s mobile industry); CEO of Holley Communications (cell-phone/chip firm acquired from Phillips, led China’s earliest CDMA team and won Outstanding Asian in Business Award); board member of Zongyi (public firm; invested in NandaSoft that went IPO in HK and Longxin, China’s leading CPU firm); Co-founder/angel investor of Virtual Avenue (cloud service start-up, acquired by Paul Allen’s public company); Research scientist and product manager at Bell Labs/Lucent(led 3 key projects and represented Lucent in world telecom standards; Research scientist at Columbia(parallel computing invited by Nobel Laureate Prof. T.D. Lee) and Chinese Academy of Sciences (artificial Intelligence).
Past Activities: Executive Committee Chairman of TD-SCDMA Industrial Alliance (TD is an international wireless standard), advisor of Gerson Lehrman Group, EVP of China Business Angel Association (organized World Business Angel Association’s first global conference), visiting research fellow of Chinese Academy of Sciences, expert consultant of Ministry of Science & Technology of China and The United Nations, and president of CAST-USA, an influential Chinese science and technology organization. A report of Henry was published in The Mirror Post with English version to be compiled into “Chinese Elites”, a book about overseas Chinese including 2 Noble Laureates.

Education: Ph.D./M.Phil Electrical Engineering from Columbia University, M.S. Computer Engineering from University of Chinese Academy of Sciences, B.S. Computer Science (GPA4.0 with Graduate Medal) from Beijing Jiaotong University, EMBA certificate from Northeastern University.

Abstract
The talk will introduce the four elements of entrepreneurship and reveal the success formula. It will describe the different types of venture capital, explain how to select investors.

Talk 4.3: 若水合投－聚合投资的新探索

王开元
北大企业家俱乐部发起理事
若水合投俱乐部发起理事

主讲人简介:
王开元，北大企业家俱乐部发起理事，若水合投俱乐部发起理事，北大MBA校友会执行副理事长，可持续发展技术基金会副理事长，国研·斯坦福3.3学友会副会长，哥伦比亚大学访问学者，哈佛大学访问学者。

摘要: 若水合投俱乐部发展了一种新型的符合互联网精神的聚合智慧、资本和资源的合投模式，开辟了从期权到股权，从功利到公益的快乐投资新生态，其星云状联合体的新型组织模式，适应了广大高价值人群的理财、投资、交流、交友需要，其平等、共创、分享、去中心、活中心的文化体现了强大的凝聚力和高效的执行力。

Biography
Mr. Wang is currently a Research Fellow at Harvard Kennedy School. Before arriving at Harvard, he was a Visiting Scholar at Columbia University, where he also founded the Columbia University C.V. Starr East Asian Library W.K.W. endowment Fund, and became advisor to Columbia University Asia-Pacific Development Society.
Mr. Wang received his MBA degree from Guanghua School of Management, Peking University. He is a Founding Director of Peking University Entrepreneurs Club and Executive Vice Chairman of Peking University MBA Alumni Association. He also serves as an advisor to Chinese University Alumni Alliance of North America.

Mr. Wang worked in China's Ministry of Water Resources and Electric Power between 1984 and 1992, where he co-drafted one of China's earliest Power Grid Regulations. Since 1992 he has held senior positions in many public and private companies, including Vice President of Asia Power Corporation Ltd. (listed in Singapore). He is currently Chairman and CEO of Peking Heda Group, which consists of a number of investment and technology companies.

Mr. Wang is a keynote speaker in numerous forums and events. He is also an invited table leader in Wall Street Journal's Economics Forum and a special representative at the 3rd Sino-U.S. Innovation Dialogue in Beijing, as well as an invited guest of the Rio+20 United Nations Conference on Sustainable Development.

Panel Discussion

Panelist 1: Dr. George Wu (吳剛博士)

Biography

Dr. George Wu is a founding partner and the managing director of Newtown Global Capital. He is also the founder and President of DoubleBridge Technologies Inc. Dr. Wu specializes in information technology management and development, big data, mobile wireless technologies, online banking, wearable devices, energy, etc. He has extensive experience in cross-border company mergers and acquisitions. He is also board member for several companies. With his extensive experience in entrepreneurship, company operations, and venture capitalism, Dr. Wu has accumulated a deep understanding of both China and U.S. in the realms of science, technology, commerce and business management. All the while preserving a wealth of personal connections and resources.

Newtown Global Capital is an U.S.-China investment firm focused on angel investments in Technology, Media, Telecommunications (TMT) in China; and equity investments in petroleum, natural gas, wind, solar and real estate in the U.S. In the past five years Newtown Global Capital has successfully conducted dozens of angel investment in China in TMT. In The United States, Newtown Global Capital has invested equity in oil fields, and wind power plants with substantial gains. As a founding partner Dr. George Wu is responsible for all of the company's major investment activities. Dr. George Wu is serving as President and Chief Executive Officer (CEO) for DoubleBridge Technologies, Inc. As Founder and CEO, Dr. George Wu with his senior management team built DoubleBridge into a US based global company that provides technology services, software consulting, software solutions for Fortune 500 companies. In 2007
DoubleBridge became a member of ChinaSoft International (CSI). CSI is one of China's leading software companies. Dr. George Wu serves as Global Chief Technology Officer (GCTO) of CSI. He is responsible for coordinating the development of global business strategy along with the company's technology development. He has provided strategic consulting and technical guidance for ChinaSoft International’s cross-border mergers and acquisitions for the last 7 years.

Panelist 2: 宿大庆，创业投资嘉宾
大纽约地区清华大学校友会董事长，前会长，曾任职著名的布隆博格公司多年，获得南京创业奖励金，现在南京成功创业。

Panelist 3: Seamon Chen (陈希孟), 嘉宾、投资人
Seamon made his first angel investment in college and has built up a portfolio of internet, software, and hardware investments including Zenefits, Bench Accounting, SimpleLegal, and NanoSatisfi. He brings investment experience from Insight Venture Partners, a $7.6 billion VC firm with investments in Twitter, Tumblr, Shutterstock, and Jingdong. Seamon brings entrepreneurship experience through involvement with startups in the mobile app, gaming, advertising, and social networking spaces. He has experience working in corporations such as Hitachi Data Systems and Citigroup, as well as research labs such as Stanford Artificial Intelligence Lab and Center for Integrated Systems.

Panelist 4: Marshall Yang, 嘉宾、投资人
Panelist 5: Dr. Wei Zhong (钟伟博士)

Biography
Dr. Wei Zhong is the founder of Infinity Communication Engineering (ICE), located in Princeton, New Jersey. ICE is an outsourcing solution company for “The Internet of Things” related products, such as RFID/NFC campus systems and inventory control systems.

Dr. Zhong has over 20 years successful career in the electronics industry including Technology Startup, Sales, Strategic Marketing, Project Management and New Technology/Product Development. He has extensive experiences of conducting business in China. He was a VP of product line at Suzhou Dynax Semiconductor, CEO and founder at Hebei Envoltek, VP of North America Operation at Shanghai Fudan Microelectronics, Sales director and Senior Principal Engineer at ANADIGICS. Before Dr. Zhong went to USA to pursue his graduate study, he served at the Department of Materials Science of Fudan University from 1985 to 1990 as a research staff.

Dr. Zhong earned a B.S. degree in Electronics Engineering from Fudan University, a Ph.D in Electrical Engineering from the New Jersey Institute of Technology, and obtained an MBA degree from Rutgers University.

Panelist 6: Dr. Liangjie Zhang (张良杰博士)

Biography
张良杰博士现担任金蝶国际软件集团有限公司首席科学家、高级副总裁，负责国家云计算重大项目“中小企业管理云”示范工程的建设任务，是中组部“千人计划”国家特聘专家、广东省领军人才。并担任中国计算机学会大数据专家委员会副主任委员、深圳大数据产学研联盟理事长、贵州省大数据产业专家咨询委员会委员、国际电气与电子工程师协会院士（IEEE Fellow）和ACM杰出科学家。张博士曾任美国IBM华生研究中心资深研究员和商业应用架构及实现的重大专项总监。IBM软件集团工业化标准的首席架构师、IBM第一代互联网技术的产品经理(1996-1997)、IEEE服务计算汇刊（IEEE Transactions on Services Computing）的创刊主编，获得过IBM杰出创新奖、IBM杰出技术创新成就奖、IBM杰出研究成果奖等，为IBM创造了数十亿美元的项目业绩。受邀担任过北京大学、清华大学、武汉大学、北京邮电大学客座教授和深圳大学特约教授，发表过160篇论文，并获得过50个专利。
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中国旅美科技协会简介

中国旅美科技协会（旅美科协）是1992年夏在纽约成立的非政治性，非盈利性的民间团体。旅美科协的三大宗旨是：促进中美之间文化、科技、教育、经贸等领域的交流与合作，弘扬中国传统文化、促进中美两国人民的相互了解，加强旅美学人、华人专业人士之间的团结、合作与交流。

旅美科协是一个跨地区（美国）、跨行业的综合性科技团体，会员主要由来自科技、文化、教育、法律、金融、人文等各个领域的中国旅美专业人士组成，现有会员八千人。许多会员在世界500强跨国企业或美国知名大公司、高等院校或研究机构从事科技开发和研究工作，部分会员已经成为中、高层管理人员。目前在全美有十几个分会及专业学会，会员分布在全美数十个州，并在中国国内几个城市设立了联络处。总会设执行委员会负责日常工作，还设有董事会、理事会、学术协调委员会和顾问委员会。旅美科协成立以来的知名名誉顾问包括陈省身教授，宋健教授，杨振宁教授，朱光亚教授，陈香梅女士，田长霖教授，周光召教授，朱丽兰教授等学术及社会知名人士。

旅美科协总会及各分会举行定期学术研讨活动，为会员提供学术交流的平台。旅美科协总会定期出版《海外学人》杂志及实时通讯，内容包括介绍协会的学术活动与中美科技界、工商界的最新动态及各种工作与投资机会等会员们切身关心的内容。

每年总会及各分会举办包括全国年会及分会年会、学术讲座等在内的几十次大中型学术研讨活动，活动中旅美科协邀请中美各界知名人士对所关心的学术及社会问题进行探讨。旅美科协注重与其他专业协会的交流与合作，加强不同学科华人的交流，同时促进中美之间科技人才的沟通和科技的发展。旅美科协各分会也注重参加当地的华人社区活动，与所在地的其它侨团建立了良好的关系。

旅美科协总会现任会长宋云明，董事会主席于浩，理事会主席蔡逸强，候任会长陈志雄。旅美科协历任会长为周华康、章球、徐震春、陆重庆、马启元、周孟初、谢家叶、肖水根、石宏、邹有所、林民跃、王飞跃、李百炼、左力、沈陆、陆强、曾大军、方彤、盛晓明、蔡逸强、于浩。

网站和出版刊物
总会网站：www.cast-usa.net; 《海外学人》杂志及《实时通讯（网络版）》。
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- 大纽约分会 （创始分会）- Greater New York Chapter (New York, New Jersey)
- 北卡分会 - North Carolina Chapter
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- 华盛顿特区分会- Washington DC Chapter/Network Society

西部分会
- 亚利桑那分会 - Arizona Chapter
- 加州洛杉矶分会 - California Chapters at Los Angeles
- 加州圣地亚哥分会 - California Chapters at San Diego
- 加州硅谷分会 - California Chapters at Silicon Valley
- 德州分会- Texas Chapter (Dallas)
- 犹他分会 - Utah Chapter
Chinese Association for Science and Technology, USA, Greater New York Chapter

The Chinese Association for Science and Technology, U.S.A. (CAST-USA) was founded in August 1992 and registered as a non-political and non-profit professional organization. The majority of CAST members hold advanced degrees in science, technology, education, business, law, medicine, arts, and other endeavor. CAST-USA is growing at a rapid pace with thousands of members in more than 30 states, working in universities, industries, government agencies, and other sectors. CAST-USA is one of the most-recognized organizations among oversea Chinese professionals. It is the leading institution dedicated to the promotion of understanding between Americans and ethnic Chinese in the United States.

As the founding place for CAST-USA, CAST-USA Greater New York Chapter (GNY) was structured in 2002 to facilitate the nationwide expansion of CAST-USA. Its members reside in the State of New York and New Jersey.

Missions

- To promote academic exchanges and professional development of its members;
- To serve as a "bridge" between the United States and China for both personnel and information exchanges, and for the cooperation in science and technology, economic, trade and other areas;
- To promote friendships and communications among members and to enhance greater understanding of Chinese traditional culture in the United States.

Activities

- To organize seminars and conferences in various professional areas and to organize exchange programs between the American and Chinese people.
- To establish cooperative relations with American corporations, enterprises, institutions and organizations, to create favorable conditions and environment for cooperation between the American and Chinese people in seeking funds, market development, technology transfer and investment opportunities between the United States and China.
- To organize special activities for increased interaction among its members to facilitate exchanges of information and expertise in their fields.

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旅美科协衷心感谢林洁辉女士（Ms. Margaret Lam）、胡知宇律师、《侨报》及友军理财专栏对本次年会的友情赞助。

特别是林洁辉女士的鼎力支持，为中学生科技海报设计比赛提供了动力。林洁辉女士是美国森源行董事长、新泽西州中国日委员会主席、威大中国艺术中心名誉主任、美华联谊会连任五届的会长。她获得了2004年艾利斯岛“杰出移民奖”（Ellis Island Medal of Honor）、2012年威廉帕特森大学（William Paterson University）第22届“杰出贡献奖”。林洁辉女士自1967年移民美国新泽西州后，一直把美国这个第二故乡视为自己的家园，全身心奉献于这个社会。林洁辉女士先后受邀担任州政府的文化教育委员会顾问，推动华裔社区与主流社会的联系贡献智慧。1998年起任职于 The New Jersey State Board of Education’s School Ethics Commission，是服务于这个委员会的首任华裔官员。她是“新州中国日”（New Jersey Chinese Festival）的创始人，华裔社区智人曾经给林洁辉女士这样的评价：洁心洁行真颇若，辉天辉地耀中华。林女士认为这是她一生行为准则的体现，也是大家对她服务社区与主流社会行为的最好总结。
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旅美科协衷心感谢国际企业协会，Accord Power and Design，对本次年会的慷慨赞助。
The International Association of Enterprise Corp. (IAOEC) is a non-government, non-profit international organization originally founded in New York, USA.