美東華人學術聯誼會第四十屆年會紀念

表率群倫

馬英九

中華民國一〇四年五月

用箋

美東華人學術聯誼會第四十屆年會紀念

與時俱進

吳敦義

中華民國一〇四年五月

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美東華人學術聯誼會
第四十屆年會誌慶

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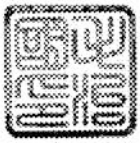

美東華人學術聯誼會第40屆年會紀念

英才濟濟

惠僑興邦

僑務委員會
委員長 陳士魁 敬題

敬 祝

美東華人學術聯誼會

第 40 屆年會暨研討會

飛躍四十

群英薈萃

中華民國駐美國代表 沈呂巡 敬賀

中華民國一〇四年八月十五日

THE CITY OF NEW YORK
OFFICE OF THE MAYOR
NEW YORK, NY 10007

Dear Friends:

I am pleased to welcome everyone to the Chinese American Academic and Professional Society's 40th Annual Convention.

New York is home to talented and tenacious residents who hail from all around the world and our diversity is the source of our singularity and strength. For four decades and counting, CAAPS has enriched our City by fostering inclusion and cross-cultural exchange and promoting cooperation and fellowship among Chinese American professionals and scholars to help them advance in their careers. With the goal of celebrating the innovative contributions Chinese Americans have made in the fields of medicine, education, technology, the arts, sustainable urban planning and more, this year's convention also showcases New York's legacy as an incubator of creativity and progress. I applaud CAAPS and its affiliates for the vital role they play in the five boroughs and beyond.

On behalf of the City of New York, please accept my best wishes for an inspiring convention and another 40 years of success.

Sincerely,

Bill de Blasio

Bill de Blasio
Mayor

GRACE MENG
HOUSE OF REPRESENTATIVES
Washington, D.C. 20515

August 15, 2015

Chinese American Academic & Professional Society
P.O Box 527496
Flushing, New York 11352

Dear Chinese American Academic & Professional Society:

I am pleased to extend my warmest greetings to all gathered at the 40th Annual Convention of the Chinese American Academic & Professional Society.

Since its founding in 1975, Chinese American Academic & Professional Society (CAAPS) has been a major Chinese-American organization supporting the aspirations of its members, most of whom are scholars and professionals. It promotes fellowship and cooperation in various activities and educational undertakings conducive to the interests, concerns and well-being of its membership. CAAPS is also steadfast in its commitment to fostering understanding and communication between the Chinese-American community and a multitude of others.

This year, CAAPS will celebrate "40 years of Excellence and Innovation" through the following eight technical sessions: Medical Technology, Healthy Life, Emerging Information Technology, Smart Architecture and Environmental Protection, Multidisciplinary Education, Economy and Business, Technology Innovation & Application, and Urban Planning and Transportation. I commend CAAPS for its unwavering dedication to enhancing fellowship amongst Chinese-American and Greater Queens community.

Please accept my best wishes for a wonderful celebration and much continued success!

Sincerely,

Grace Meng
Member of Congress

MELINDA KATZ
PRESIDENT

CITY OF NEW YORK
OFFICE OF THE
PRESIDENT OF THE BOROUGH OF QUEENS
120-55 QUEENS BOULEVARD
KEW GARDENS, NEW YORK 11424

(718) 286-3000
www.queensbp.org
info@queensbp.org

August 15, 2015

Moses Chang, PhD
Chairman
Chinese American Academic & Professional Society
P.O.Box 527496
Flushing, NY 11352

Dear Mr. Chang:
Greetings to all the members, friends and supporters of the Chinese American Academic & Professional Society (CAAPS) on the occasion of your 40th Anniversary Convention.

This evening's event is a wonderful opportunity to celebrate the success the Chinese American Academic and Professional Society has had promoting cooperation and exchange among professionals and scholars in the field of science and technology, culture and the arts. Since its founding in 1975, CAAPS has become one of the most influential academic Chinese American organizations in the community; it encourages its members to enhance the expertise in the interest of advancing scientific knowledge, social and human values.

On behalf of 2.3 million residents of the Borough of Queens, "The World's Borough", I congratulate the CAAPS for its extraordinary contribution to our community and for making academic life prosperous. I also hope all in attendance enjoy tonight's 40th Anniversary Convention and I wish you and your entire organization continued success in all your endeavors.

Sincerely,

Melinda Katz
President
Borough of Queens

美東華人學術聯誼會成立四十週年誌賀與回顧

歲月匆匆，誕生於一九七五年的 [美東華人學術聯誼會] 轉眼間已四十歲了。我們看到本會在這段日子裡欣欣向榮、蓬勃發展，成為華人在美最聲譽卓著的學術社團、也是華裔團結合作與聯絡友誼的平台，同時也建立了與故國互相關心交流的橋樑。這些不凡的成就，達成了創立本會的心願，得來不易。是眾多志同道合的伙伴們共同打拼而成功的。特別要歸功於歷屆董事長、會長及會務與研討委員會的各位負責人的不辭辛勞、犧牲奉獻、熱心公益，與睿智的領導。今天正逢難得的四十大慶，與大家分享本會成功帶來的喜悅。撫今追昔，無限珍惜這個機遇與緣份。

回顧四十年前的時代，我們這些早期從台灣到美的留學生。幼年時在抗日的烽火中長大，求學時又遭受內戰簸波流離之苦，風雲際會、飄洋過海到美讀書。然後擠進了美國的各行各業，憑著華人堅韌卓越的精神，在白人優勢的社會中贏得了一片天地。我們在這種艱難困苦的環境下一路走來，雖然不得已身處異域，但自幼灌輸入腦中的故國情與同胞愛、無時或忘。 [海內存知已，天涯若比隣] 的民族思維，在心中油然而生。憑著"初生之犢不畏虎　的勇氣和傻氣，會同知友、決心發起成立—個以華人為中心的社團。在我們籌備會的全力號召下，很快獲得了各地華人學者的共鳴，熱烈地來加入我們共同的陣營。在一九七五年十一月在紐約舉辦成立大會，定名為[美東華人學術聯誼會]，英文名為“Chinese American Academic & Professional Association”。宗旨是 [團結聯誼、學術交流、互助合作、共創未來]。 我們章程的特點是董事有任期限制，以求輪流服務，新血與續任董事配合，永保本會年青、活力與穩定。四十年來，本會一脈相承、吸引了眾多年青精英，是本會成功的最大要訣。

在一九七六年本會舉辦首次年會時，依照創會宗旨走純學術路線。當時中華民國經濟部長孫運璿與救國團主任李煥等領導龐大代表團來參加。這一消息在國內外媒體的首頁報導，十分醒目 。此次年會有 600 餘人出席， 孫部長在研討會與晚會上介紹了中華民國經濟起飛、工業升級的情況。並與李煥主任共同歡迎海外學人與政府合作，發展新技術工業。引起了全場熱烈的掌聲， 給大會帶來了最大的高潮。從出席第一次大會的人潮與熱烈情況，可知本會的誕生引起共鳴與肯定。好的開始是成功的一半，由於首屆大會奠定了優良基礎、此後會務繼續發揚光大，使本會今天能有卓越杰出的成就。

展望未來：在本會累積的堅固基礎上、站在以純學術為本位， 只要是學術卓著的炎黃子孫，我們都歡迎同心協力、共同創造一個全球華人的學術社團，巍立世界、造福人群!

在此四十週年大喜時日，我們謹向本屆董事長張彰華、會長范姜光男、及慶祝四十週年特立委員會主席鄭向元等各位的周密策劃、盡心盡力，使大家能歡聚一堂、共襄盛舉，敬此由衷表示最誠摯的感謝，並預祝大會圓滿順利成功。

李宗正
第一任董事長
1976創會會長

錢　煦
第二任董事長
1978會長

虞華年
第三任董事長
1983, 1984會長

同此敬賀　二O一五年六月

Chairman's Welcome Statement

On behalf of the Chinese American Academic and Professional Society (CAAPS), it is my great pleasure to welcome you to our 40th Annual Convention. Thanks to your enthusiastic participation and generous support, these past four decades you have made CAAPS one of the most prestigious and influential Chinese American organizations in the United States.

Over the past 40 years, CAAPS has dedicated its efforts to promoting collaboration and fellowship among Chinese professionals and scholars to advance science, technology, culture, and the arts — as well as improve communication and mutual understanding among Chinese Americans and other ethnic groups in America. The theme of our convention is "Celebrating 40 Years of Excellence and Innovation" —"四十年光輝 持續卓越創新". Our goal is to promote innovative approaches in all disciplines and celebrate extraordinary scholars — especially ones of Chinese descent.

We are honored to have Dr. Wei Kuo-yen, Minister of Taipei EPA as the 2014 Convention Opening Keynote Speaker. His speech is titled "The Environmental Protection and Knowledge Bank in Taiwan - 臺灣環保及知識經濟" and President Chang Ching-Fong of National Taiwan Ocean University speaks on海洋與珊瑚生殖的奧妙New Perspective in Coral Reproduction. Ambassador Andrew Hsia, Minister of Mainland Affairs Council is invited as the Convention Banquet Keynote Speaker. Ambassador Shen Lyu-shun, ROC representative to the U.S. and Dr. Jenn-Chuan Chern, CEO of Tang Prize Foundation, will also give a speech at the banquet.

This year, CAAPS is proud to be recognized by the World Journal (who is the largest Chinese newspaper in the United States and will also be celebrating its 40th anniversary soon). In celebrating both CAAPS and the World Journal 40th anniversary, the World Journal published a book to acknowledge 40 outstanding Chinese-Americans. Among those recognized, many were past CAAPS keynote speakers or leaders. These outstanding Chinese-Americans are: Dr. Shu Chn, 錢煦院士, Dr. Yu Ying-shih 余英時院士, Dr. Hwa-Nien Yu 虞華年院士, Grace Meng, 孟昭文, Elaine L. Chao 趙小蘭, Dr. James Chao 趙錫成博士, Dr. Henry Lee李昌鈺博士, Mr. T.C. Wang 王鼎鈞大師. We salute their outstanding achievements and acknowledge their positive influence on all Chinese Communities around the world.

My special gratitude goes to the following sponsors for their encouragement and financial support to make this convention possible: Dr. James Pi, Dr. James Chao, Mr. Tony Wang, Mr. Thomas Chen, Mr. Michael Lee, Mr. Gene Wang and the Taipei Economic and Cultural Offices (TECOs) in the U.S. and Overseas Community Affairs Council for their extensive support. I would like to thank CAAPS' Board of Directors and Executive Council for their assistance, guidance, encouragement and dedicated devotion. Most importantly, I thank you all for your participation in recognizing CAAPS' contribution to academia, professionals and local communities.

Moses C. Chang, Ph.D. 張彰華
Chairman of the Board, CAAPS, August 15, 2015

President's Welcome Statement

It is a great pleasure to welcome everyone to the 40th Annual Convention of the Chinese American Academic and Professional Society (CAAPS). Your continuous participation and generous support have made CAAPS one of the most prestigious and influential Chinese American organization.

Commemorating 40 years lends a special luster to our past accomplishment, and as we are celebrating CAAPS' 40 years of young life, we should never forget to continue foster our young academic scholars and engineers. We should provide platforms for them to be active on the stage rather than as audiences. We should expand our horizon to look for recruiting young second and third generation Chinese–Americans in addition to those who have recently immigrated from abroad.

The theme of this year's convention is "Celebrating 40 Years of Excellence and Innovation". We are honored to have the distinguished keynote speakers to deliver their addresses. Thanks to the chair of re-union committee, Jerry Cheng, we have many of our senior chairs and past presidents gathering here to celebrate with us.

As the main events of the annual convention, this year's technical sessions have been organized into the following eight groups: (1) Medical Technology; (2) Healthy Life; (3) Information and Communication Technology; (4) Smart Architecture and Environmental Protection; (5) Multidisciplinary Education and Cultural Innovation; (6) Economy Development and Business Outlook; (7) Technology Innovation and Application; and (8) Urban Planning and Transportation. We sincerely appreciate the time spent out of their busy schedules by all speakers and organizers.

Special gratitude goes to the corporations and individuals for their encouragements and financial supports to make this convention possible. I would also like to thank CAAPS' Board of Directors for their guidance and all members of the Executive Council for their tireless dedication. Last but not the least, I thank you all for participating CAAPS convention and together we should make CAAPS stronger every year.

Guang-Nan Fanjiang, 范姜光男

President of CAAPS

Chinese American Academic & Professional Society

Proceedings of CAAPS 40th Annual Convention

Celebrating 40 Years of Excellence and Innovation

四十年光輝　持續卓越創新

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美東華人學術聯誼會

Chinese American Academic & Professional Society (CAAPS) www.caaps.us

Celebrating 40th Anniversary

Theme : Celebrating 40 Years of Excellence and Innovation
四十年光輝 持續卓越創新

Date: 日期: Saturday, August 15, 2015: 12:00 PM ~ 11:00 PM

Place: 地點: 紐約法拉盛喜來登大飯店 Sheraton LaGuardia East Hotel
135-20 39th Avenue, Flushing, NY 11354, Tel: (718) 460-6666

Time	Session	Room
12:00~1:00PM	Registration	Gallery 7th Floor
1:00 ~ 2:00PM	**Opening Ceremony** Honorable Guest's Greeting 貴賓致詞 Ambassador Paul W.L. Chang The Director General, TECO in New York 中華民國駐紐約臺北經濟文化辦事處處長 章文樑大使 Mr. Peter Koo, New York City Council Member 紐約市市議員顧雅明 Director Karen Wang, The Director of CC of TECO in New York 紐約華僑文教服務中心王映陽主任 Open Ceremony Keynote Speaker Minister Kuo-Yen Wei The Minister of Environmental Protection Administration 中華民國環保署署長 魏國彥博士 **Topic:** Taiwan Environmental Protection and Knowledge Bank Plenary Keynote Speaker Dr. Ching-Fong Chang The president of National Taiwan Ocean University 國立臺灣海洋大學校長 張清風博士 **Topic:** New Perspective in Coral Reproduction	Gallery Conference Room 7th Floor
2:15 ~ 3:45PM	**Medical Technology 醫學新知** **Organizer 召集人:** Mr. Ethan Kuo, 郭秋義先生 Hudson Spine and Pain Management, NYC **Chair主持人:** Prof. Spencer Kuo 郭思平教授	Ballroom East 2nd Floor

	NYU-Polytechnic School of Engineering Speaker主講人: Lingpin Hung, M.D Syosset Medical Service, PLLC **Topic:** Internal Medical Disease and Diet Modification. 內科常見疾病及其食療 Speaker主講人: Prof. Jenghwa Chang, 張正華教授 New York Presbyterian Hospital/Weill Cornell Medical College **Topic:** Optimizing Radiotherpy Process 優化放射治療流程 Speaker主講人: Jason J.C.Yu M.D. 尤人哲醫師 Hudson Spine and Pain Management, New York City **Topic:** An Overview of Pain Management and Treatment 疼痛管理與治療	
4:00 ~ 5:30PM	**Healthy Life 健康人生** **Organizer** 召集人: Prof. Yue J. Lin, 林友直教授 St. Johns University **Co-Organizer** 召集人: Ms. Alice Lee, 李芳女士 New Inspiration Care 心泉新生活協會會長 **Chair** 主持人: Prof. Heng-Chun Li, 李衡鈞教授 (retired) Mount Sinai School of Medicine Speaker 主講人: Dr. George Liu 劉季高醫師 President and CEO of the Chinese American Independent Practice Association, Inc. **Topic:** The Prevalence of Diabetes in China and Asian-American Speaker 主講人: Dr. Yao-wen Huang 黃耀文教授 Professor Emeritus of the University of Georgia. **Topic:** Current Food Safety Issues and Strategies Speaker 主講人: Mrs. Yung Yung Tsuai Lerner 崔蓉蓉女士 Founder of Yung Yung Dance Company and the Byrdcliffe Performing Arts Organization. **Topic:** Balancing our energies through understanding of our chakras and physical/emotional/mental/spiritual bodies	Ballroom East 2nd Floor
2:15 ~ 3:45PM	**Information and Communication Technologies** **資訊與通訊科技** **Organizer** 召集人: Prof. Ping-Tsai Chung 鍾炳采教授 Long Island University, Brooklyn, New York **Co-Organizer** 召集人: Dr. Shu-Ping Chang 張書平博士 The manager of IBM System S (Streams) Laboratory, IBM T. J. Watson Research Center **Co-Organizer** 召集人: Dr. Jen-Yao Chung 鐘健堯博士	Gallery Conference Room 7th Floor

	Associate Vice President, the Quanta Cloud Technology **Chair** 主持人: Prof. Ping-Tsai Chung 鍾炳采教授 Speaker主講人: Dr. Ming-Yee Lai 賴明毅博士 ConnectiLife, USA, **Topic:** Internet of Things for Aging in Place 互聯網於居家養老的應用 Speaker主講人: Dr. Ching-Yung Lin 林清詠博士 IBM T. J. Watson Research Center **Topic:** Network Sciences & Big Data Analytics網路科學與大數據分析 Speaker 主講人: Dr. George Chang 張至先院長 The College of Natural, Applied and Health Sciences Kean University, New Jersey, **Topic:** Immersive Technology: Virtual Reality 沉浸式科技:虛擬實境	
2:15 ~ 3:45PM	**Smart Architecture and Environment Protection** **智慧建築與環境保護** **Organizer** 召集人: Dr. Moses Chang 張彰華博士 United States Environmental Protection Agency, Region 2, New York **Organizer** 召集人: Mr. Kevin Gwo-Shenq Wey 魏國勝建築師 Senior Associate, VOA Associates, Inc. **Chair** 主持人: Prof. Feng-Bao Lin 林豐堡教授 City College, City University of New York Speaker 主講人: Dr. Zhou (Joe) Xu 徐洲博士 Professional Engineer in the State of New York, Structural Engineer and Civil Engineer in the state of California. **Topic:** Green Building Construction in New York City -An Overview from the Private Sector Speaker 主講人: Mr. Alfred Huang 黃仁輝建築師 AIA , LEED AP, Massforma Architecture, PLLC **Topic:** Smart Architecture: Innovations toward Smart Architecture Speaker 主講人: Dr. Tzung-Yuh Yeh 葉琮裕博士 Professor of National University of Kaohsiung. **Topic:** Algal Growth Control Within Natural Water Purification Systems: Macrophyte Light Shading Effects	Topaz Conference Room 7th Floor
2:15 ~ 3:45PM	**Multidisciplinary Education and Cultural Innovation** **多元教育與文化創新** **Organizer** 召集人: Dr. Hui-Yin Hsu, 徐慧茵教授 Associate Professor, New York Institute of Technology	Ballroom West 2nd Floor

	Chair 主持人: Dr. Shiang-Kwei Wang, 王向葵副院長 Associate Professor and Associate Dean of School of Education, New York Institute of Technology Speaker 主講人: Dr. Ya-Ning Hsu, 許雅寧博士 Teachers College, Columbia University **Topic:** Collaborative Learning-the Implementation in the Classroom 小組互動式教學 – 實行篇 Speaker 主講人: Dr. Grace Ho and Mr. Neal Lee 何璧君博士及李正寧先生 The Graduate Center, City University of New York **Topic:** From Awareness to Oneness: Self-Healing Unfolding 從覺察到合一: 開口自我療癒之路 Speaker 主講人: Ms. Catherine Lan 藍巧茹女士 Yale School of Art **Topic:** Painting, Material, Experiment, Creating , and Contemporary Art 繪畫, 材料, 實驗, 創作與當代藝術	
4:00 ~ 5:30PM	**Economic Development and Business Outlook** **經濟發展和商業展望** **Organizer** 召集人: Dr. John Tseng 曾令寧博士 St. John's University **Chair** 主持人: Dr. Steve Chang 張東隆博士 Long Island University Speaker 主講人: Dr. Peter C.Y. Chou 周鉅原博士 City University of New York **Topic:** Technology Frontier and Middle Income Countries' Trap: Taiwan's Industrial Policies to Cope with Globalization Speaker 主講人: Dr. H.J. Abraham Lin 林宏政博士 Brooklyn College, CUNY **Topic:** Shadow Banking: Kill It or Save It? Experiences from Taiwan and China Speaker 主講人: Dr. Leon Shyue-Liang Wang 王學亮博士 National University of Kaohsiung, Taiwan **Topic:** Big Data Analytic for Business Applications	Ballroom West 2nd Floor
4:00 ~ 5:30PM	**Technology Innovation & Applications** **科技創新與應用** **Organizer** 召集人**:** Dr. Imin Kao 高一民副院長 Associate Dean, College of Engineering and Applied Sciences (SUNY) **Co-Organizer** 召集人**:** Guang-Nan Fanjiang 范姜光男先生 Principal, Weidlinger Associates, Inc.	Gallery Conference Room 7th Floor

	Chair 主持人**:** Mr. Stephen Lee 李賢治先生 Manager, Cleveland Tungsten Inc. **Co-Chair** 主持人**:** Dr. Frank Hsu 許德標教授 Clavius Distinguished Professor at Fordham University Speaker 主講人: Mr. William Yeh 葉振忠先生 President and CEO of CSI Technology Group. **Topic:** Cloud and mobile computing technology for crime scene investigations & forensic intelligence. 雲端平台上的犯罪現場調查及微物鑑識系統 Speaker 主講人: Dr. Ya Wang 王娅教授 Assistant Professor, Mechanical Engineering, State University of New York, Stony Brook. **Topic:** A Brief Introduction on Energy Harvesting 能源收集的簡單介绍 Speaker 主講人: Dr. Nilanjan Chakraborty Assistant Professor, Mechanical Engineering, State University of New York, Stony Brook. **Topic:** Towards Solving Peg-In-a-Hole Problems with Bi-Manual Manipulators	
4:00 ~ 5:30PM	**Urban Planning and Transportation** **都市計劃與運輸** **Organizer** 召集人**:** Jerry S. Y. Cheng 鄭向元先生 Retired Principal City Planner, NYC Dept. of City Planning **Co-Organizer** 召集人: Jack Chung-Kuo Chiang Ph.D.蔣忠國博士 Consultant Manager, New York State Dept. of Transportation **Chair** 主持人: Steven I-Jay Chien, Ph.D. 錢一之博士 Professor of New Jersey Institute of Technology Speaker 主講人**:** Peter Lai, P.E. CEO & President VP International Limited, USA. Adjunct Professor, New Jersey Institute of Technology. **Topic**: Balancing Urban Transportation Supplies and Demand – Consideration from Customer Perspective Speaker 主講人: Buckley Yung, AICP Director, Bus Service Planning, MTA New York City Transit. **Topic**: New York City Bus Rapid Transit Program -- Select Bus Service Speaker 主講人: Yi-Chang Chiu, Ph.D. Associate Professor, Department of Civil Engineering and Engineering Mechanics, University of Arizona, Tucson, USA, **Topic**: Mobility Ecosystem – Personalized Mobility Options Discovery and Behavior Change	Topaz Conference Room 7th Floor

6:00 ~11:00PM	**Banquet, Welcome Remarks, Keynote Speech, Awards and Entertainment 晚宴** Honorable Guest's Greeting 貴賓致詞 Ambassador Lyushun Shen The Representative of TECRO in the United States 中華民國駐美國臺北經濟文化代表處 沈呂巡大使 Mr. Eric Y. Ng The President of Chinese Consolidated Benevolent Association 紐約中華公所主席 伍銳賢先生 The Honorable Elaine L. Chao The Formal Secretary of the Department of Labor 前美國勞工部長 趙小蘭女士 Congresswoman Grace Meng The Member of the United States House of Representatives 國會眾議員孟昭文女士 Special Greetings on Celebrating 40th Anniversary Introduce "Dialogue with 40 Outstanding Chinese- Americans" Host by: 張彰華董事長(CAAPS) 楊仁烽社長(世界日報) Dr. Shu Chien 錢煦院士 Dr. Yu Ying-shih 余英時院士 Dr. James Chao 趙錫成博士 Dr. Hwa-Nien Yu 虞華年院士 Mr. T.C. Wang 王鼎鈞大師 Hon. Elaine L. Chao 趙小蘭前勞工部長 Dr. Henry Lee 李昌鈺博士 Hon. Grace Meng 孟昭文國會議員 Dr. David Ho 何大一院士 Dr. Cho-Yun Hsu 許倬雲院士 Dr. Li-Huei Tsai 蔡立慧院士 C.E.O.William Wang 王蔚執行長 Plenary Keynote Speaker Ambassador Lyushun Shen The Representative of the Taipei Economic and Cultural Representative Office in the United States 中華民國駐美國臺北經濟文化代表處 沈呂巡大使 **Topic**: 紀念抗戰勝利70週年與現今台美關係 Banquet Keynote Speaker Minister Andrew Li-Yan Hsia The Minister of the Mainland Affairs Council 中華民國行政院大陸委員會主任委員 夏立言先生 **Topic:** Taiwan's Mainland China Policy and Cross-Strait Relations 大陸政策與兩岸關係 Awards and Entertainment	Phoenix Ballroom 2nd Floor

美東華人學術聯誼會

Chinese American Academic & Professional Society (CAAPS)

Celebrating 40th Anniversary

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Chinese American Academic & Professional Society (CAAPS)

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2015 Executive Committee

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美東華人學術聯誼會

Chinese American Academic & Professional Society (CAAPS)

P. O. Box 527496, Flushing, New York 11352, USA website: www.caaps.us

40th Anniversary Celebration/ Reunion Party

August 14, 2015, Friday, 6:30 PM ~ 10:00 PM

Agenda

Master of Ceremony	Jennifer Tung 童惠珍
Welcome Remarks	Moses Chang 張彰華 Guang-Nan Fanjiang 范姜光男 Jerry Cheng 鄭向元
VIP Guest's Greetings	Ambassador Paul Chang 章文樑大使
Recognize CAAPS Major Supporters	Moses Chang 張彰華 Guang-Nan Fanjiang 范姜光男
Celebration/Reunion Program	Jerry Cheng 鄭向元

- **A slide show about the history of CAAPS**
- **回憶及展望 (李宗正, 虞華年,林友直, 岳鋼, 鄭向元, 魏幼武, 雷倩, 許亦誠, 李弘祺, 金政, 趙循經, 林豐堡, 楊彰興, 童惠珍, 鄭力原, 張東隆, 李衡鈞, 曾令寧, 郭思平, 鍾炳采, 張彰華, 范姜光男, 鄭均華, 錢煦).**
- **Special gift presentation from Founding President Lester Lee.**

Entertainment by Violinist Andy Lin

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Celebrating CAAPS 40th Anniversary Committee

慶祝四十週年特立委員會由本會最早三任及近幾年董事長組成:

鄭向元(主席), 錢煦, 李宗正, 虞華年, 趙循經, 林友直, 李衡鈞, 曾令寧, 林豐堡, 鄭力原, 郭思平, 鍾炳采, 張彰華, 范姜光男

Opening Program

開幕節目表

13:00～14:15

Master of Ceremony 主持人 Dr. Hui-Yin Hsu 徐慧茵博士

Mr. Joe Chang 張仲翹先生

Welcome Remarks 董事長及會長致歡迎詞

Dr. Moss C.H. Chang Chairman 董事長張彰華博士

Mr. Guang-Nan Fanjiang President 會長范姜光男先生

Guests′ Greeting 貴賓致詞

The Director General of TECO in New York

Ambassador Paul W.L. Chang

中華民國駐紐約臺北經濟文化辦事處處長章文樑大使

Mr. Peter Koo, New York City Council Member

紐約市市議員 顧雅明議員

Mrs. Karen Wang, The Director of CC of TECO in New York

紐約華僑文教服務中心 王映陽主任

Opening Ceremony Keynote Speech:

The Minister of Environmental Protection Administration

Minister Kuo-Yen Wei

中華民國環保署署長 魏國彥博士

Taiwan Environmental Protection and Knowledge Bank

Plenary Keynote Speech:

Dr. Ching-Fong Chang

The president of National Taiwan Ocean University

國立臺灣海洋大學校長/前國科會副主任委員 張清風博士

New Perspective in Coral Reproduction

Banquet Program
晚宴節目表
18：00～23：00

Master of Ceremony 主持人 Mr. Richard Hsueh薛純陽先生
Mrs. Weilien Wen文維廉女士

Welcome Marks董事長及會長致歡迎詞
Dr. Moses C. Chang Chairman 董事長張彰華博士
Mr. Guang-Nan Fanjiang President 會長范姜光男先生

Guests' Greeting 貴賓致詞
The Representative of the Taipei Economic and Cultural Representative Office in the United States, Ambassador Lyushun Shen
中華民國駐美國臺北經濟文化代表處沈呂巡大使
The President of Chinese Consolidated Benevolent Association, Mr. Eric Y. Ng
紐約中華公所主席伍銳賢先生
The Formal Secretary of the Department of Labor, the Honorable Elaine L. Chao
前美國勞工部長趙小蘭女士
The Member of the United States House of Representatives Congresswoman Grace Meng 國會眾議員孟昭文女士
The president of National Taiwan Ocean University
國立臺灣海洋大學校長/前國科會副主任委員張清風博士

Special Greetings on Celebrating 40th Anniversary – Introduce "Dialogue with 40 Outstanding Chinese- Americans"
Host by: 張彰華董事長(CAAPS) 楊仁烽社長(世界日報)
Dr. Shu Chien 錢煦院士, Dr. Yu Ying-shih 余英時院士, Dr. Hwa-Nien Yu 虞華年院士
Dr. James Chao 趙錫成博士, Hon..Elaine L. Chao 趙小蘭前勞工部長, Dr. David Ho 何大一院士
Mr. T.C. Wang 王鼎鈞大師, Dr. Henry Lee 李昌鈺博士, Hon.Grace Meng 孟昭文國會議員
Dr. Li-Huei Tsai 蔡立慧院士, Dr.Cho-Yun Hsu 許倬雲院士, C.E.O.William Wang 王蔚執行長

Keynote Speech 主題演講
The Representative of TECRO in the United States, Ambassador Lyushun Shen
中華民國駐美國臺北經濟文化代表處沈呂巡大使
紀念抗戰勝利70週年與現今台美關係

The Minister of the Mainland Affairs Council, Minister Andrew Li-Yan Hsia
中華民國行政院大陸委員會主任委員 夏立言先生
Taiwan's Mainland China Policy and Cross-Strait Relations--大陸政策與兩岸關係

Award Ceremony 頒獎 Presented by Dr. Moss Chang and Mr. Guang-Nan Fanjiang
Distinguished Lifetime Achievement Award to Dr. Ying-shih Yu 余英時院士
Outstanding Professional Achievement Award in Technology Innovation to
Dr. Samuel Yen-Liang Yin 尹衍樑博士
Distinguished Service Award in Public Affairs to Dr. Kuo-yen Wei魏國彥博士
Mr. Andrew Li-Yan Hsia夏立言先生
Dr. Lyushun Shen沈呂巡博士
Outstanding Leadership Award to Dr. Lester Tsung Cheng Lee李宗正博士

Entertainment 娛樂節目 Host by Mrs. Jennifer Lin 林映君女士
校園民歌40週年合唱 古典樂鋼琴弦樂四重奏 懷念歌謠演唱 現代舞
Featuring College Folk Music 40th Anniversary Chorus and Solo, Chamber Music, Opera, Dance

2015 CAAPS Awards

Distinguished Lifetime Achievement Award

卓越終身成就獎

Dr. Ying-shih Yu 余英時院士

Outstanding Professional Achievement Award in Technology Innovation

傑出科技創新專業成就獎

Dr. Samuel Yen-Liang Yin 尹衍樑博士

Distinguished Service Award in Public Affairs

傑出公共服務獎

Dr. Kuo-yen Wei 魏國彥博士

Mr. Andrew Li-Yan Hsia 夏立言先生

Dr. Lyushun Shen 沈呂巡博士

Outstanding Leadership Award

傑出領導獎

Dr. Lester Tsung Cheng Lee 李宗正博士

余英時博士 (Dr. Ying-shih Yu)

唐獎第一屆漢學獎得主

余英時教授是享譽國際的史學大師，為全球最具影響力的華裔知識分子，他在中國歷史、尤其是思想史和文化史方面所作的研究，皆扮演開創性的角色。二〇〇六年十二月，余先生獲頒美國國會圖書館「克魯格」人文與社會科學終身成就獎（John W. Kluge Prize），中西方學界皆推崇先生為二十一世紀中國史學之泰斗。

余先生於一九六七年出版首部英文專書Trade and Expansion in Han China: A Study in the Structure of Sino-Barbarian Economic Relations，開始在美國學界嶄露頭角。其後，有感於自己英文研究成果在東方學界讀者有限，余先生乃改用中文撰述，期待研究成果可以傳布至西方漢學圈外。《歷史與思想》一書是余先生在台灣刊行的第一部論文集，此書不僅準確呈現余先生的治學取向，例如中國文、史、哲之間的相互關聯，以及中、西文化與思想之間異同的比較。具體的研究論題而言，集中所收的少數論文後來也都發展成為專書，如《論戴震與章學誠》、《紅樓夢的兩個世界》和《陳寅恪晚年詩文釋證》等。其次，此書是余先生中年以後，改用中文為學術著作主要媒介的開端。

余先生著作等身，從一九五三年開始發表著作以來，六十年間，余先生出版中英文著作五十九本，論文四百餘篇。舉其重要者，有《歷史與思想》、《中國古代知識階層史論》（古代篇，增訂版《士與中國文化》）、《中國思想傳統的現代詮釋》、《中國近世宗教倫理與商人精神》、《朱熹的歷史世界》、《史學與傳統》、《中國近代思想史上的胡適》、《猶記風吹水上鱗：錢穆與現代中國學術》等書。二十一世紀後，大陸亦陸續出版《余英時作品系列》（北京三聯書店）、《余英時文集》（廣西師範大學出版社）、《余英時英文漢譯論著集》（上海古籍出版社）、《余英時作品系列》（北京大學出版社），使余先生的學術影響遍及學界。

余先生是研究中國傳統的歷史學家，但由於他對於傳統與近現代中國歷史、思想與文化具有同等深厚的理解與掌握，他對近現代中國歷史、思想與文化領域的著作，因此具有同等的重要性。在《重尋胡適的歷程：胡適生平與思想再認識》與《陳寅恪晚年詩文釋證》、《猶記風吹水上鱗：錢穆與現代中國學術》等書裡，他對近代重要知識分子學術地位及治學理念的闡發，乃有目共睹。如陳寅恪在共產極權統治下所作的隱語詩，經過余先生的破譯，方能窺知他的興亡遺恨與時局針砭，也更深入把握這一個對傳統中國文化精神深入骨髓而同時深具世界眼光的傑出學者的悲涼與清醒。

余先生平日撰述多為專業論著，閒時亦關注文化及政治問題，發而為文，關心的層面由學術擴展及時事，而且劍及履及，嘗多方聲援兩岸的民主運動。然余先生雖然觀察與評論兩岸政治，並不實際參與政治，對政治只有遙遠的興趣，其出發點乃基於知識份子的社會關懷。芝加哥大學的余國藩教授盛讚其人道：「余英時教授就是他筆下的中國『士』的典型，一生的研究與經歷都在反映這一點。」

尹衍樑博士 (Dr. Samuel Yen-Liang Yin)

尹衍樑博士是台灣潤泰集團總裁、唐獎創辦人、台灣大學土木系暨研究所兼任教授、北京大學教授及博士生導師，尹總裁自1991年接掌潤泰集團以來，集團營收從1990年至2014年成長百餘倍達430億美金，事業版圖也由紡織擴展到營建、金融、流通量販、醫療、保全、壽險、生技…等領域，成績傲人，而尹總裁秉持取之於社會用之於社會的精神，長期熱心教育及公益活動，其中多數為匿名捐助，並於2012捐設國際級之唐獎，更計畫將95%財產捐出成立公益基金。

尹總裁平日在處理集團龐大業務之餘，營建工程是他最熱愛的工作，在集團營建團隊中，尹總裁的角色搖身一變為總工程師暨研發長，憑藉著豐富的經驗、學識及過人的觀察力，帶領同仁不斷突破傳統技術框架，發展更好、更快、更省的營建工程技術，數十年來如一日，成功將潤泰打造成台灣建築營造第一品牌，更不吝與同業分享技術研發成果，對營建產業自動化、建築BIM管理及永續營建工程具有重大的貢獻。

尹博士1972年畢業於文化大學歷史系，1980年取得台大MBA碩士，1985年取得政大企業管理博士，跨領域的教育背景，追根究柢的求知精神，加上豐富的管理及工程實務經驗，讓他所涉及的知識領域遠較一般人廣博，尹博士曾任教於台大財金所、政大會計研究所及北京大學，而他在工程方面的傑出成就與貢獻，也引起兩岸三地頂尖學府的重視，尹博士2004年起受聘於台大土木系，自2007年起受聘於北京清華大學土木學院及台灣科技大學營建系擔任客(講)座教授。

尹衍樑博士是一個極具天份的工程師與發明家，他個人專利件數累積已達448件，專利地區遍及臺灣、大陸、日本、韓國、美國、英國、加拿大、歐盟等8地，這在全世界營建工程領域乃少有人能及的成就，堪稱罕見的奇才。尹博士的專利多是從解決實務問題而來，專利內容涉及柱梁鋼筋籠、預鑄工法、預鑄產製、建築隔減震技術、機電管線、機械設備及智慧建築等領域，其發明大部分具有實用價值，可對產業技術提升及永續營建工程產生具體貢獻，以柱多螺箍筋為例，在相同設計強度基準下，可減少柱箍筋用量達50%，減少勞力需求70%，並可增加柱的側向變形能力60%，對鋼筋混凝土產業乃革命性的技術。有鑑於營建工程對地球生態有重大影響，且技術革新的速度普遍落後其他工程領域，尹博士秉持大公無私的精神，於2010年公開拋棄具通用價值的21項專利，供同業無償使用，其中包含柱多螺箍、柱一筆箍、梁點焊鋼絲網彎折箍及各式複合化箍筋等，此舉除讓產業可共享其研發成果外，也希望拋磚引玉，帶動產業創新研發氣氛，為地球永續發展、節能減碳盡一分心力。

尹博士從1978年獲得臺灣傑出青年紡織工程師獎後，便與工程科技結緣，數十年間的無私耕耘與奉獻使他在國內外工程科技領域備受肯定，也因此獲頒許多難得的殊榮，當中包含經濟部於2005年頒贈的台灣創作發明獎金牌、俄羅斯工程院於2008年頒贈全球第八面「工程榮譽」勛章(目前全球共頒發十面)、獲選為俄羅斯國際工程院院士(2008年)及俄羅斯工程院院士(2010年)、於2010年獲美國土木工程師學會(ASCE)頒贈全球第12面Henry L. Michel Award for Industry Advancement of Research等。而包含台灣大學、陽明大學、國立交通大學、香港理工大學、上海同濟大學、北京大學、武漢大學及中國科學院水利水電科學研究所等兩岸三地八所知名研究所也頒給他榮譽(名譽)博士頭銜，並獲台灣大學(2008)及政治大學(2012)推選為傑出校友。

尹博士對於國際工程學會組織的參與也十分熱心，他曾擔任台灣中國土木水利工程學會兩岸交流委員會主任委員(2002年)，臺灣中國土木水利工程學會理事(2004年)，亞洲土木工程聯盟(ACECC)規劃委員會主任委員(2005年)、臺灣混凝土學會(TCI)副理事長暨國際關係委員會主委(2006年)、TCI理事長(2008年)，期間大力支持、參與兩岸及亞洲地區的工程科技與學術交流活動，對促進國際社會之土木工程科技交流有重大貢獻。尹博士目前是俄羅斯國際工程院第一副院長(2011年迄今)，尹博士高度的專業與無私的精神贏得俄羅斯國際工程院的信賴與友誼，不僅成為該院第一位非俄籍的副院長，也為台俄工程科技交流開啟新頁，從2008年起至今已促成20餘件交流活動暨合作研究案，在相對封閉的俄羅斯體系中，能深入核心進行合作交流實屬難得的成績。

魏國彥博士 (Dr. Kuo-yen Wei)

台灣地質科學學者，於美國羅德島大學海洋學取得博士，曾於美國加州大學聖塔芭芭拉分校海洋研究所博士後研究以及擔任耶魯大學地質與地球物理學系助理教授，也曾任行政院研究發展考核委員會副主任委員及台北市研究發展考核委員會主任委員，現為台灣大學地質系教授，中央研究院地球科學研究所兼任研究員。

2014年2月26日，行政院宣布，台大地質系教授魏國彥接任中華民國行政院環境保護署署長。

學歷：

- 美國羅德島大學海洋學博士 **(民國69年-76年)**
- 國立臺灣大學地質研究所碩士 **(民國64年-67年)**
- 國立臺灣大學地質學學士 **(民國60年-64年)**

個人簡歷：

- 行政院環境保護署署長（民國**103**年～）
- 中華民國地質學會常務監事**(民國102年-民國103年)**
- 臺北市政府都市計畫委員會委員**(民國102年)**
- 臺北市政府人權委員會諮詢委員**(民國102年)**
- 中華民國海洋學會監事**(民國99年-103年)**
- 臺北市政府研究發展考核委員會主任委員**(民國99年-101年)**
- 行政院研究發展考核委員會副主任委員**(民國98年-99年)**
- 東吳大學通識教育客座講座教授**(民國97年-98年)**
- 臺北市政府永續發展委員會副執行長**(民國96年-98年)**
- 中央研究院地球科學研究所兼任研究員**(民國90年-迄今)**
- 國立臺灣大學地質學系教授**(民國83年-迄今)**
- 國立臺灣大學地質學系客座副教授**(民國82年-民國83年)**
- 美國耶魯大學地質暨地球物理系助理教授**(民國78年-83年)**
- 美國加州大學聖塔芭芭拉分校博士後**(民國76-77年)**

夏立言先生（Mr. Andrew Li-Yan Hsia）

夏立言先生長期服務於華人駐外僑界，從一九九〇年至一九九六任台北駐紐約經濟文化辦事處處長,期間與紐約僑界達成非常融合的關係,也成為僑界團結一致支持中華民國的基楚。 曾擔任駐印度尼西亞經濟貿易代表處代表、中華民國外交部政務次長、駐紐約辦事處處長以及駐印度代表、外交部北美司專員。**2013年10月22日**，夏立言由駐印尼代表，回國接任國防部軍政副部長。**2015年2月16日**，夏立言接任中華民國行政院大陸委員會主任委員。

學歷：

- 英國倫敦大學法律研究所碩士**(民國68年-70年)**
- 英國牛津大學法律學系碩士**(民國67年-69年)**
- 國立政治大學外交學系碩士**(民國63年-65年)**
- 輔仁大學法律學系學士**(民國57年-61年)**

經歷：

- 國防部軍政副部長**(民國102年-104年)**
- 駐印度尼西亞代表處代表**(民國98年-102年)**
- 外交部政務次長**(民國97年-98年)**
- 駐印度代表處代表**(民國96年-97年)**
- 駐紐約辦事處處長**(民國90年-96年)**
- 外交部國際組織司司長暨**APEC**資深官員**(民國87年-90年)**
- 駐加拿大代表處副代表**(民國85年-87年)**
- 駐美國代表處組長**(民國83年-85年)**

沈呂巡博士 (Dr. Lyushun Shen)

駐美國台北經濟文化代表處大使銜代表

Representative of Taipei Economic and Cultural Representative Office in the United States

Education:

Ph.D., International Relations, University of Pennsylvania, Philadelphia, USA (1981)
M.A., International Relations, University of Pennsylvania, Philadelphia, USA (1979)
L.L.B., National Chung-Hsing University, Taipei, Taiwan (1972)
Honorary Ph.D., International Affairs, Park University, Missouri, USA (1993)

Professional Experience:

- Representative (Ambassador), Taipei Economic and Cultural Representative Office in the U.S. (2014/04/01~)
- Representative (Ambassador), Taipei Representative Office in the U.K. (2011/12/15~2014/03/31)
- Deputy Minister of Foreign Affairs, ROC (2009/10/21 ~ 2011/12/14)
- Representative, Taipei Representative Office in the EU and Belgium (2008~2009)
- Director-General (Title of Ambassador conferred), Délégation Culturelle et Economique de Taipei - Bureau de Genève (2003 ~ 2008)
- Deputy Representative, Taipei Economic and Cultural Representative Office in the United States (TECRO) (1999~2003)
- Director-General, Department of North American Affairs, Ministry of Foreign Affairs, Taipei, Taiwan (1996~1999)
- Director, Public Affairs (Congressional Liaison) Division, Taipei Economic and Cultural Representative Office in the United States (TECRO) – Formerly CCNAA (1994~1996)
- Director, Secretariat (Political Affairs) Division, Coordination Council for North American Affairs (CCNAA), Office in USA (1993~1994)
- Director-General, Coordination Council for North American Affairs (CCNAA), Office in Kansas City, USA (1991~1993)
- Senior Specialist and Chief of the First Section, Department of North American Affairs, Ministry of Foreign Affairs, Taipei, Taiwan (1988~1991)
- Staff Consultant for Congressional Liaison, Coordination Council for North American Affairs (CCNAA), Office in USA (1982~1988)
- Visiting Adjunct Professor of International Studies, University of Kansas, Lawrence, Kansas USA (1992~1993)
- Research Associate, School of Law, University of Maryland, Baltimore USA (1981~1982), and concurrently Executive Editor, Chinese Yearbook of International Law and Affairs
- Pre-Doctoral Fellow, Foreign Policy Research Institute (FPRI), Philadelphia USA (1980~1981)

李宗正博士 (Dr. Lester Tsung Cheng Lee)

Some 40 years ago, Dr. Lester Tsung Cheng Lee gathered a group of friends to form an association composed of Chinese scholars and professionals. As a result of the dedicated efforts of this group's planning committee, the “Chinese American Academic and Professional Association” was founded in 1975, and Lester Lee was elected as the first President, then later elected as the first Chairman of the Board in 1977. Dr. Lee also founded Taiwan Manufacturing Pollution Control Equipment Association in 1992, and Chi Lu Culture and Industrial Association in Taiwan in 1995.

Dr. Lee graduated from Taiwan Chia Kuo High School in 1951 and National Taiwan University in 1956. With a 3-M scholarship, he traveled to the U.S. and obtained an MS degree in Chemical Engineering at Syracuse University, and then a PhD degree in Chemistry from State University of New York at Buffalo. He graduated with honors and was selected as an honorable member of the Buffalo Chapter of Sigma Xi Society.

After finishing his studies, Dr. Lee joined the head office of Allied Chemical Corporation in Morristown, New Jersey. His research and guidance yielded 16 commercially successful U.S. and world patents. In 1978, he was invited by National Taiwan University and National Science Directorial to teach Membrane Technology at NTU as a lecture professor. This was the first time this course was ever taught in Taiwan.

In 1979, Dr. Lee started a new company in Taiwan, Hwa Tech. His new filtration and purification membrane products were in great demand in Taiwan, not only needed by highly advanced industries like those of the semiconductor and medical fields, but also in the pollution control fields. With the success of his company, Dr. Lee was elected as BOD and Chairman of several important committees by the National Industrial Association, and participated in many problem-solving tasks for concerns such as counterfeiting, intellectual property protection, and environmental protection.

When the government in Taiwan held an election in 1985 to increase the number of National Assembly members, Dr. Lee easily won a seat in representing the Industrial Group. At the same time, Dr. Lee was directing membrane research in the Chemical Engineering Department and teaching at the National Taiwan University of Science and Technology in Taipei.

After being elected in 1992 a non-regional legislator in the Legislative Yuan, Dr. Lee devoted most of his efforts to passing more than 20 environmental protection laws, and he became known as an "Environmental Protection Legislator," a nickname for which he has much pride. Busy with legislative work and continuing his professorship and research at the university, he left Hwa Tech in 1995. In 1996, he was elected to a National Assembly seat in a district of Taipei City. In 2001, Dr. Lee retired officially from public life to the U.S. to be with his four grandchildren.

美東華人學術聯誼會

Chinese American Academic & Professional Society (CAAPS)

Dinner Banquet Keynote Speaker

沈呂巡博士 (Dr. Lyushun Shen)

歷任：

- 中華民國駐美國大使
- 駐英國代表處代表
- 中華民國外交部政務次長
- 駐歐盟代表
- 駐比利時代表處代表
- 駐日內瓦辦事處處長

沈呂巡博士將詳述「紀念抗戰勝利70週年與現今台美關係」

夏立言先生（Mr. Andrew Li-Yan Hsia）

歷任：

- 行政院大陸委員會主任委員
- 國防部軍政副部長
- 駐印度尼西亞代表處代表
- 外交部政務次長
- 駐印度代表處代表
- 駐紐約辦事處處長

晚宴中，夏立言先生將詳述「大陸政策與兩岸關係」

臺灣環保及知識經濟

臺灣地狹人稠，社經活動熱絡，環境負荷沉重，環保署自民國76年成立以來，結合政府各部門與民間資源，在典章制度建立、污染防治推展、空氣品質提升、水體水質改善、廢棄物管理等各方的推動成果，皆反映在國民生活環境品質的提升上。
地球的「氣、水、林、地」環環相扣，生態環境是一個動態的系統，臺灣環境保護工作也一直以新的前瞻思維來面對新的挑戰，例如：推動溫室氣體減量及管理法，因應氣候變遷；訂定細懸浮微粒(PM2.5)空氣品質標準，持續削減空氣污染物；徵收水污防治費，強化水質管理工具；推動資源循環，導入「城市礦產」、「搖籃到搖籃」、「永續物料管理」等管理觀念；運用大數據的觀念與工具，建構「環境雲」，讓產官學研一同挖掘環境資料礦場，加值應用
環境是全體國民的公共財，是支撐國家發展的基石，提升環境品質，維護自然資源，追求永續發展，是21世紀各國共同的施政方向，也是為子孫留下淨土的良心工作。我們將持續以「前瞻而正義的環境政策」、「循環而多樣的自然生態」、「再生而節能的低碳家園」、「潔淨而健康的生活環境」及「優質而幸福的社會氛圍」五願景為主軸，以「堅持環境正義、善用科學技術、捍衛世代正義、擴大民眾參與、建立永續典範」為方向，擘劃我國邁向永續環境的策略與行動，以提升環境品質，維護自然資源，確保世代正義，守護美麗家園。

主講人 行政院環境保護署署長 魏國彥博士

學歷：

- 美國羅德島大學海洋學博士（民國69年-76年）
- 國立臺灣大學地質研究所碩士（民國64年-67年）
- 國立臺灣大學地質學學士（民國60年-64年）

海洋與珊瑚生殖的奧妙
New Perspective in Coral Reproduction

Professor Ching-Fong Chang
National Taiwan Ocean University, Keelung 20224, Taiwan

Coral reefs are facing the serious decrease in the oceans because of human activities and global warming. Sexual reproduction of scleractinian corals is among the most important means of establishing coral populations. However, so far, very little is known about the mechanisms underlying coral gametogenesis. To increase our understanding of sexual reproduction in corals, we analyzed the germ cell development in a stony coral *Euphyllia ancora* by the approaches of histology, molecular and cellular biology, and endocrinology. Some important gene markers and hormones were conducted in the studies including piwi, vasa, vitellogenin, egg protein, sex steroids (estradiol and testosterone) and gonadotropin-releasing hormone (GnRH). Our recent data shed light on the mechanism of the sexual reproduction of corals and also provide the possible solution for the restoration of coral reefs in the future.

主講人：國立臺灣海洋大學 張清風校長

學歷

- 臺灣省立海洋學院 水產製造學系學士 (1975年)
- 美國華盛頓州立大學 動物科學系碩士（1983年）、博士 (1986年)

經歷

- 國立臺灣海洋大學水產養殖學系副教授、教授、終身特聘教授
- 國立臺灣海洋大學水產養殖學系系主任、國立臺灣海洋大學教務長、副校長
- 行政院國科會生物處 處長、國科會 副主任委員

曾獲國科會傑出研究獎3次、教育部學術獎、教育部國家講座、海洋大學傑出校友、國科會「臺法科技獎」、美國華盛頓州立大學動物科學系傑出校友、全國十大傑出青年等重要榮譽

Session 1

Medical Technology

醫學新知

CAAPS 2015 Annual Convention

August 15, 2015, Saturday
2:15 PM ~ 3:45 PM, 2nd Floor, Ballroom East

召集人 **Organizer: Mr. Ethan Kuo** 郭秋義

Hudson Spine and Pain Management, New York City

主持人 **Chairperson: Professor Spencer Kuo** 郭思平教授

NYU-Polytechnic School of Engineering

主講人 **Speaker: Lingpin Hung, M.D.**

Syosset Medical Service, PLLC

講題 Title: Internal Medical Disease and Diet Modification

內科常見疾病及其食療

主講人 **Speaker: Professor Jenghwa Chang** 張正華博士

NewYork Presbyterian Hospital/Weill Cornell Medical College

講題 Title: Optimizing Radiotherpy Process

主講人 **Speaker: Jason J.C.Yu M.D.** 尤人哲

Hudson Spine and Pain Management, New York City

講題 Title: An Overview of Pain Management and Treatment

疼痛管理與治療

召集人 Organizer

Ethan C. Y. Kuo (郭秋義) is the General Manager of the Hudson Spine & Pain Medicine, a comprehensive Spine and Pain Wellness Center. He retired in 2010 as the Education Counselor (教育部參事) serving as the Director of the Education within the Division of the Taipei Economic & Cultural Office in New York City. Mr. Kuo has dedicated 38 years of public service for the Taiwanese government as a career diplomat serving first in Washington, D C., in 1983 as the First Secretary to the Taipei Economic & Cultural Representative Office, and then in 1993 and 2006 respectively assigned as the Director of Cultural Division to Taipei Economic & Cultural Office in Boston and New York.

Mr. Kuo graduated from the Eastern Languages and Literature at the Chinese Cultural University in Taiwan and received his master degree from the Graduate School of Education and Center for Japanese Language (CJL) at Waseda University (早稻田大學) in Tokyo, Japan. Mr. Kuo educational background led him to continue his professorship as a Japanese language lecturer in National Taiwan University, and associate professor at a multitude of internationally acclaimed schools, including the Chinese Cultural University; National Taipei University of Education; General Staff Headquarter Center for Foreign Language Training, Ministry of National Defense, Taiwan. ; all the way to St. John's University in New York City.

During the 24 years of foreign service in the US, Mr. Kuo frequently traveled to the campuses all along the East Coast to collaborate with university officials to promote and seek cultural and educational exchanges between the US and Taiwan. One of Mr. Kuo's strengths was his pride in taking care of Taiwanese students and their needs while being in a foreign country studying abroad. Acting as a liaison between cultural and educational institutions, Mr. Kuo was tasked with documenting and learning the different developmental trends in culture and education to report back to the Ministry of Education in Taiwan. Mr. Kuo through his active role in foreign service, chaired the popular "Academic Forum" for 8 years, which featured over 150 scholars and academics sharing their discourse on culture, social and educational topics. Mr. Kuo was also responsible for launching the Chinese University textbook 'Chaoyue' in collaboration with Columbia University for American students learning Chinese.

主持人 Chairperson

Spencer P. Kuo (郭思平教授) received B.S. and M.S. degrees from National Chiao-Tung University, Taiwan R.O.C. in 1970 and 1973, and Ph.D. degree in 1977 from Polytechnic Institute of New York. Since 1986, he has been a Full Professor in the ECE Department, Polytechnic University (now known as NYU-Polytechnic School of Engineering). He initiated and ran a "summer research program for college juniors" in the ECE department from 1985 to 1991. This program, which has gained nationwide popularity, has since been adopted in many universities and national laboratories.

Dr. Kuo is a fellow of the IEEE. He was Principal Investigator (PI) for more than thirty research projects awarded by the AFOSR, NSF, NASA, and ONR. His research activities cover areas in microwave plasma interactions, waves in the ionosphere and magnetosphere, plasma torches, plasma mitigation of shock waves, and plasma for industrial and medical applications. He demonstrated the photon acceleration by a rapidly created plasma and created a plasma crystal to trap photons. His wind tunnel experiment mimicked that onboard-generated plasma can eliminate the shock waves in front of the aircraft – potentially solving the problems of sonic booms and severe wave drag in supersonic flight. He invented an air plasma blood coagulator.

Dr. Kuo published 200 journal papers and 87 proceedings issued articles; and he holds six U.S. patents and four foreign patents. Thirteen students received doctorates under his supervision. He received an outstanding research award from the scientific research society Sigma Xi in 1990. The Chinese Institute of Engineers (CIE-USA) named him a 2005 Asian-American Engineer of the year. He was honored a "distinguished alumnus" of his Alma Mater, National Chiao-Tung University (NCTU), R.O.C., in 2013.

Internal Medical Disease and Diet Modification

內科常見疾病及其食療

Lingpin Hung, M.D.

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1. Overview

Almost every patient does not like take medication. The commonly asked questions in primary care doctor's office include what to eat or what not to eat for my disease. The talk today will include disease process and principle of diet modification – something patients can contribute their efforts.

2. Disease process and Treatment:

Gout is commonly seen in South East Asian who ate lots of seafood and drinks alcohol. There are difference between Gouty arthritis, Hyperuricemia, Urate nephropathy and uric acid stone. High purine diet (Fig 1) is one major cause of high uric acid. It source from over production or decrease excretion. The contributing factors include obesity, psoriasis, chemotherapy, diet intake, trauma, surgery or renal failure or dehydration. Men or post-menopause women are more affected. The more accurate diagnosis of gouty arthritis will be needle aspiration and bipolar microscopy exam. Serum level of uric acid can be reference but sometimes will cause confusion. It is the changing of level makes disease flare up rather the absolute level. The commonly seen malpractice is to lower the uric acid level in acute stage. Anti-inflammation treatment is what we can do in acute stages. We can start lower uric acid treatment only after no more arthritis.

Figure 1.

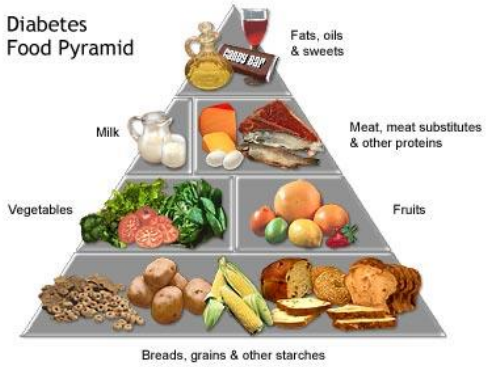

Figure 2.

Diabetes cause lots of complications including kidney, eyes, nerve, heart and also contribute to stroke. It is multifactorial, including genetics, diet and life style. Low carbohydrate diet is the key. The important thing is what to eat and also the order of what to eat. Patient can still enjoy lots of food including desert, sweat fruits, even candies if eat them with not empty stomach. One commonly seen phenomenon in early diabetes is postprandial hypoglycemia. Substitute fine, delicate food with something not easy digested will help. Take whole wheat or brown rice will be better than white rice. (Fig-2)

DASH stands for Dietary Approaches to Stop Hypertension. The DASH diet helps to treat or prevent high blood pressure. The DASH diet encourages patient to reduce the sodium in your diet and eat a variety of foods rich in nutrients that help lower blood pressure, such as potassium, calcium and magnesium. By following the DASH diet, patient may be able to reduce systolic blood pressure by up to seven to 12 points, which can make a significant difference in your health risks. (Fig-3)

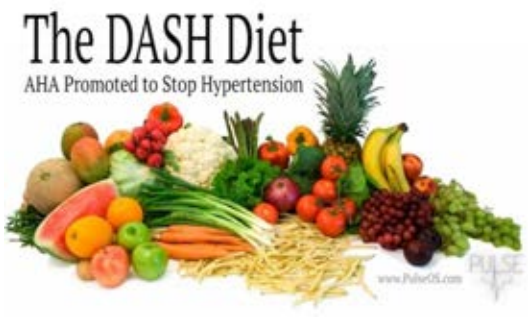

Figure 3.

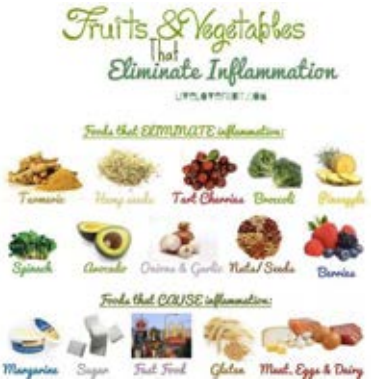

Figure 4.

Osteoarthritis bothered almost every aging people. Cyclooxygenase-1 (COX-1) and Cyclooxygenase-2 (COX-2) are major causes of joint inflammation. Medicaiton that block COX-1 and COX-2 enzymes will treat the arthritis. Researchers discovered that COX-2 enzymes become more active and cause more joint inflammation when you take in more omega-6 fatty acids than omega-3 fatty acids. Omega-3s are the inflammation-fighting fatty acids found in cold water fish such as salmon and tuna. Omega-6 fatty acids are found in egg yolks, meats, corn, sunflower, soybean and cottonseed oil. It is prevalent in many snack foods, fried foods, margarines and other spreads. In fact, many of the foods are linked to increasing joint inflammation and obesity. (Fig-4)

Figure 5.

It is possible to lower your cholesterol level with proper healthy diet. Body gets one third of cholesterol from diet and two thirds if cholesterol from liver production. That is why it is sometimes difficult to bring back your normal cholesterol level by just lowering dietary intake of fatsIf there is defect in liver's controlling mechanism, it may lead to high level of cholesterol. Omega-3 fatty acids from fish oil can decrease serum triglyceride concentrations by 25% to 30%, with accompanying increases in LDL cholesterol of 5% to 10% and in HDL cholesterol of 1% to 3%. Red wine reduce the heart disease rate by 20%. Wine and beer seem better than other alcohol do. Red wine contains "Resveratrol" a flavonoid antioxidant compound in grape skins. If you are a non-drinker, do not start, because alcohol can affect your liver and cause Cirrhosis. Tomato juice decreases LDL cholesterol levels and increases LDL resistance to oxidation. (Fig-5)

主講人 **Speaker: Lingpin Hung, M.D** is a practicing attending physician in internal medicine and geriatrics at Syosset Medical Service located in Flushing NY. He received M.D. degree in Taiwan. He was fully trained at National Taiwan University and again at New York Hospital Queens that affiliated with Weil Cornel University. He is board certified internist and also geriatrician

Optimizing Radiotherpy Process

Professor Jenghwa Chang, Ph.D

Department of Radiation Oncology, NewYork Presbyterian Hospital/Weill Cornell Medical College, New York, NY E-mail: jec2046@med.cornell.edu

1. Overview

Radiotherapy (RT) has changed rapidly in the past two decades due to the advancement of information, treatment planning, radiation delivery and imaging technologies. The wide adoption of image-guided radiotherapy (IGRT) [1] has significantly reduced the treatment margin but at the same time, requires the use of more complex image-based (taken at the treatment position) target localization than the simpler traditional method relying solely on the external markers. Stereotactic body radiotherapy (SBRT) and stereotactic radiosurgery (SRS) [2, 3] have gradually become the standard of care for many treatment sites. Since the fractionation scheme (<5 fractions per treatment course) of SBRT/SRS is much shorter than that (20-30 fractions per treatment course) of conventional RT, a much higher throughput for the treatment plans is needed to maintain the same staff level for the treatment machine. Finally, although the simulation, planning and treatment are traditionally sequential events, they are tightly intertwined and become an iterative process for the emerging adaptive radiotherapy. Efficiency of the simulation-planning-treatment cycle is therefore more critical and poses serious challenge to the quality assurance (QA) of radiotherpy.

2. Advancement

"Lean manufacturing" or "lean production," or simply "lean", was first coined by John Krafcik in 1988 [4]. It is a systematic method for eliminating waste within a manufacturing process [5]. Derived mostly from the Toyota Production System (TPS), "Lean" method focuses on adding values by reducing everything else. This method is widely viewed as the key to how Toyota could quickly grow from a small company to the world's largest automaker [6]. Although the automobile industry is different from the RT industry, a lot can be learnt from the success of the TPS. The RT treatment process from the treatment simulation to radiation delivery is essentially a production line, each step of which requires specially trained personnel performing specific tasks with complex equipment. Similar to the TPS, there are cost and time requirements associated with the RT production process that needs to be optimized.

The TPS believe that there are two major flaws in mass production. First, producing components in large batches result in large inventories, which takes up costly capital and warehouse space and lead to a high number of defects. Second, mass production is unable to accommodate consumer preferences for product diversity. To correct these two flaws, TPS produces and receives components and parts in small lot sizes. For this to work, the changeover procedures need to optimized and shortened so that TPS can produce a growing variety in smaller lot sizes. For RT work flow, mass production has been successfully implemented in large medical centers. However, transferring the experiences of larger medical centers to smaller institutions is always problematic. The major obstacles are the cost concern since most small centers do not have the same resources per patient as the major medical centers. As a results, eliminating the wastes while maintaining the same treatment quality become critical, particularly for SRS/SBRT procedures that were originally

experimented in major medical centers and have gradually been accepted and performed at smaller clinics.

In this talk I will use the SRS/SBRT procedure as an example to discuss the RT process and illustrate effective techniques for optimizing workflow, including (1) treatment simulation, (2) treatment planning, (3) planning checking and QA, (4) patient immobilization/setup, and (5) treatment delivery. "Lean" tools will be used to identify and eliminate the “wastes” of the SRS/SBRT process so that the demand for time and personnel level is minimized while still maintaining the treatment quality required by the standard of care.

3. Conclusion

Modern radiotherapy is a very complicated process that demands enormous resources. The lean method provides a systematic to identify and eliminate wastes so that the smaller clinics can deliver high quality radiotherapy as the major medical centers.

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Short Bio of the Presenter

主講人 Speaker

Dr. Jenghwa Chang (張正華博士) (PhD, Polytechnic University) Associate Professor and Director of Centralized Treatment Planning of the Department of Radiation Oncology, NewYork Presbyterian Hospital/Weill Cornell Medical College. Dr. Chang is a medical physicist certified by the American Board of Radiology and is currently practicing radiation oncology physics at NewYork Presbyterian Hospital. His major clinical responsibility is supervising the production of treatment plans and quality assurance of the radiation treatment process. Prior to his current position, Dr. Chang was an Associate Professor and the Director of Physics Research of the Radiation Oncology Department of NYU Langone Medical Center (2008-2009), and an Assistant/Associate Attending Physicist of Memorial Sloan-Kettering Cancer Center (1997-2008). His research interest involves applying engineering and physics principles to medicine, particularly, in the fields of radiology and radiation oncology. Dr. Chang was a pioneer in optical diffusion tomography for early detection of breast cancers. He has also implemented the cone-beam computed tomography on a medical linear accelerator to improve the treatment setup accuracy and critical organ avoidance for radiation oncology patients. Dr. Change is a member of IEEE, AAPM and ASTRO.

An Overview of Pain Management and Treatment

疼痛管理與治療

Yu, Jason[1], Kuo, Ethan[2]

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Chronic pain is estimated to be one of the most common reasons for seeking medical attention with a reported 20 to 50 percent of patients seen in the primary care setting

1. Overview

As the population continues to age, physicians from all disciplines are seeing an increase in comorbidities, namely those stemming from cardiovascular disease, diabetes, advanced arthritis, and cognitive dysfunction. This observation in itself may be due to advances in evidence-based medical care, pharmaceuticals, surgical technique, and biotechnology which all continue to flourish at unprecedented rates as we see a seemingly parallel within innovation and technology itself. An often-overlooked facet of medicine that has also mirrored these age-related illnesses is the field of pain management, where it is estimated that 100 million people in the United States alone suffer from chronic pain. This patient population alone accounts for 20 percent of outpatient visits, 12 percent of all prescriptions, and over 100 billion dollars in direct and indirect expenses [1,2].

Pain-related expenditures in the United States exceed those for cancer, heart disease, and diabetes combined. Pain management has also seen its share of the use and unfortunately misuse of opioids for the management of chronic pain, notably those of drug dependency, drug diversion, and an often un-recognized under-treatment of chronic pain symptoms for fear of opioid abuse. Thus, it is becoming increasingly clear how chronic pain has become a major social and medical issue, affecting the quality of life not only of the patient, but friends and family, the work environment, and society as a whole. Despite these real concerns, advances in pain management have lead to multimodal approaches to caring for the whole patient involving interventional procedures, non-opioid adjuncts, multidisciplinary team approaches, incorporation of stress management, and improvement in overall patient well being [3].

2. Advancements

Several developments in pain management over recent years have encompassed advances in the understanding of the pathophysiology of pain, genetic testing, newer concepts in analgesic therapy, non-opioid adjuncts, and the ever-growing field of interventional pain management (Fig. 1 and 2) to diagnose and treat pain. Despite the advances in medical technology, the ability to gather a proper history and physical from each patient garners an overwhelming amount of useful information to the physician. It is the responsibility of every physician to establish a proper rapport with each individual and determine the quality, type, location, severity, alleviating and exacerbating factors involved in a patient's presenting illness. With each follow up evaluation, the physician is able to introduce and reevaluate whether further modalities may be needed to enhance ones' quality of life.

Fig. 1 Lumbar epidural Steroid injection

Fig. 2 Hip injection

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主講人 Speaker

Jason J.C.Yu M.D. 尤人哲 , is a practicing Attending physician in anesthesiology and interventional pain management at Hudson Spine and Pain Management located in Manhattan, New York. He received his M.D. from the University of Vermont College of Medicine and completed his internship in internal medicine at the Johns Hopkins College of Medicine. Upon completion of his internship he received specialty training in both anesthesiology and interventional pain management at Maimonides Medical Center and Mount Sinai School of Medicine's St. Luke's Roosevelt Medical Center, respectively. He has published and presented numerous case reports and abstracts at national conferences and continues to be an active member of the New York Society of Anesthesiologists and the American Society of Anesthesiologists.

Session 2

Healthy Life

健康人生

CAAPS 2015 Annual Convention
August 15, 2015, Saturday
4:00 ~ 5:30 PM, 2nd Floor, Ballroom East

召集人 **Organizer: Prof. Yue J. Lin,** 林友直教授, St. Johns University

召集人 Co-Organizer: Ms. Alice Lee, 李芳女士, 心泉新生活協會會長

主持人 Chair: Prof. Heng-Chun Li, 李衡鈞教授 **(retired) Mount Sinai School of Medicine**

Speakers and Topics 主講人及講題**:**

主講人Speaker: Dr. George Liu 劉季高醫師, President and CEO of the Chinese American Independent Practice Association, Inc.
講題 Topic: The Prevalence of **Diabetes in China and Asian-American**

主講人 **Speaker: Dr. Yao-wen Huang, Professor Emeritus of the University of Georgia.**
講題 **Topic: Current Food Safety Issues and Strategies**

主講人 Speaker: Mrs. Yung Yung Tsuai Lerner,崔蓉蓉女士，Founder of Yung Yung Dance Company and the Byrdcliffe Performing Arts Organization.
講題 Topic: Balancing our energies through understanding of our chakras and physical/emotional/mental/spiritual bodies.

Organizer 召集人: Professor Yue J. Lin, 林友直教授 is a graduate of National Taiwan University and received a Ph.D. from the Ohio State University. He worked at the Taiwan Agricultural Research Institute as a crop breeder and then taught biology and genetics in the United States before assuming his current faculty position at St. John's University. His research interests are genetics and cytogenetics and he has published many full research articles in various scientific journals. He was president of CAAPS in 1988, and chairman of CAAPS in 2002, and 2003. He is a life member of CAAPS and other professional societies.

Co-Organizer 召集人: Ms. Alice Lee, 李芳女士, the Founder and President of New Inspiration Care Association, was a registered nurse in Taiwan, and immigrated to the United States in 1991. She has been working in the health care insurance industry since 1999, and still works with Anthem Insurance Company. Alice has been very active in community services, and in 2009, she founded New Inspiration Care Association, promoting Medical Tourism, Eco-being, and Art Education in the community. Among the wide ranges of Alice's civic accomplishments include:

. Current Board Member of Great Flushing Chamber of Commerce
. Current President of New Inspiration Care Association
. Current Member of Pan-Pacific and South East Asia Women's Association of USA, NY
. Current Member of Global Insurance Network Professional Members
. Former Evergreen Senior Association Adviser
. Former Taiwan Senior Center Adviser

Chair 主持人: Prof. Heng-Chun Li 李衡鈞教授 obtained his B.S. degree from the Dept. of Agricultural Chemistry, National Taiwan University in 1962. He came to the United States of America in September 1963, and obtained his Ph.D. degree from the Dept. of Biochemistry, Cornell University, Ithaca, NY, in 1968. After 3 years of postdoctoral training in the Dept. of Biology, Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts, he was appointed in 1971 as an Assistant Professor in the Dept. of Biochemistry, Mount Sinai School of Medicine (MSSM) in New York City, NY. He was subsequently promoted to Associate Professor in 1976, and Professor of Biochemistry in 1986 at MSSM. His research interests are in the field of hormone action and biological signal transduction. He retired from MSSM in 2008.

The Prevalence of Diabetes in China and Asian-American
糖尿病的蔓延在中國及美裔華人

George C K Liu, MD, PhD 劉季高醫師
President and CEO of Chinese American Independent Practice Association, Inc.

In China, the prevalence of diabetes has increased significantly in recent decades and is now reaching epidemic proportion. The prevalence of diabetes was less than 1 % in the Chinese population in 1980. In subsequent national surveys conducted in 1994 and 2000 – 2001. The prevalence of diabetes was 2.5 % and 5.5 % respectively. The latest survey in 2007 reported that it had increased to an alarming 9.7 %, representing an estimated 92.4 million adults in China with diabetes. Although different sampling methods, screening procedures, and diagnostic criteria were used, the data showed a rapid increase of diabetes in the Chinese population. Recently, the American Diabetes Association (ADA) integrated glycated hemoglobin A1c (HbA1c) into the diagnostic criteria for diabetes in its 2010 guidelines. Just as there is less than 100 % concordance between fasting plasma glucose and 2-hour plasma glucose tests, there is not full concordance between HbA1c and either glucose-based tests. Therefore, the prevalence of diabetes could be underestimated in the previous surveys based on the ADA 2010 criteria. Additionally, the earlier surveys could not assess diabetes control in the Chinese population because HbA1c was not measured. To estimate the prevalence and control of diabetes in the general Chinese population, we measured HbA1c, fasting plasma glucose, and 2-hour plasma glucose in a large and nationally representative sample of 98,658 adults who were 18 years or older in 2010. This study estimated that approximately 11.6 % of Chinese adults may have had diabetes.

The weighted results further suggested that half (50.1 %) of the entire Chinese adults may have had prediabetes, which is an important risk factor for the development of overt diabetes and cardiovascular disease. Among patients with diabetes, it was found that less than one-third (30.1 %) were aware of their condition and only a quarter (25.8 %) reported receiving treatment for diabetes. It was also noted that 39.7 % of patients treated for diabetes had adequate glycemic control. These data suggest that diabetes have reached an alarming level in China, and, without an effective intervention, a major epidemic of diabetes related complications will occur in the near future.

In America, the Asian-Americans typically develop type 2 diabetes at a lower body mass index (BMI) than the rest of the population. As a result, the ADA has reduced its threshold for screening this demographic group. In January, 2015, the ADA is set to release its updated guidelines in the journal diabetes Care. The ADA recommends that Asia-Americans get tested when their BMI reaches 23 or higher, while the general population will be tested at a BMI of 25 or higher. The recommendation does not lay out new definition for Asian-Americans' overweight or obesity standards. Given that established BMI cut points indicating elevated diabetes risk are inappropriate for Asian-Americans, a specific BMI cut point to identify Asian-Americans with or at risk for future diabetes would be beneficial for the potential health of millions of Asia-American individuals.

主講人 **Speaker: George C. K. Liu, MD, PhD,** 劉季高醫師 currently serves as the President and CEO of the Chinese American Independent Practice Association, Inc. (CAIPA) and as Chairman of the Asian American Accountable Care Organization (AAACO) and New York Community Preferred Providers (NYCPP) Boards. As an Internist and Endocrinologist, Dr. Liu has been providing quality care to his patients and contributing to the well-being of the communities he has been serving since 1985. In addition to his private practices, he is an assistant professor at Weill Cornell Medical College and NYU School of Medicine and attending physician at New York Presbyterian-Lower Manhattan Hospital, Beth Israel Medical Center and NYU Langone Medical Center.

He received his medical degree in 1978 from Cornell University Medical College and completed his residency in 1981 at NYU Medical Center. After his residency, Dr. Liu completed his fellowship in Endocrinology in 1983 at Stanford University Medical Center.

Dr. Liu has received numerous distinctions and honors. He was named by Castle Connolly as one of "America's Top Doctors" every year since 2009. He has been recognized by the Consumer Research Council as one of "American Top Physicians" every year since 2003. He was also named by New York Magazine as the "Best Doctor in Metropolitan New York". Over the years, he has had various research articles published in collaboration with other distinguished physicians.

In 1994, Dr. Liu united a group of downtown community physicians and founded The Chinese Physician Partnership (CPP), which in 1998,was restructured as CAIPA. Since then, CAIPA has flourished into a strong organization with over 850 members and affiliates serving over 400,000 residents in the greater New York area. Under Dr. Liu's leadership, CAIPA is regarded as a model IPA by its peers and New York health plans.

Dr. Liu founded the Asian Diabetes Center in March of 2011 to improve the quality of diabetic care for the Asian American community. Diabetes has become a prevalent health problem in Asian Americans. The clinic in Manhattan's Chinatown provides comprehensive care and education services to assist the community to prevent or better manage diabetes.

Current Food Safety Issues and Strategies
目前食品安全及措施

Yao-wen Huang, PhD
University of Georgia, Athens, Ga USA
Shanghai Jiao Tong University, Shanghai, China

People regard food as their prime want and safety is the primary requirement of food. Food is the most important thing to our life; yet, the food safety is the number one concern for

consuming food. In recent years, the food safety issues have been gaining public awareness worldwide; however, the terminology regards food safety are not clearly and correctly recognized by most general public. "Food Safety," "Food Security," "Food Defense," and "Food Fraud" are terms dealing with safe food; however, they have been interchangeably or incorrectly used in media. "Food Safety" deals with "ensuring a safe food by preventing food product from unintentional contaminations with biological, chemical and/or physical hazards," while "Food Defense" deals with "ensuring a safe food by preventing food product from intentional contamination, especially via the terrorists' action." "Food Safety" focuses on qualitative issues of a food product, but "Food Security" emphasizes on quantitative problems ensuring all people to be able to get enough foodstuffs so that to prevent anyone from hunger. Like "Food Defense," "Food Fraud" is also an intentional action; however, it is motivated by economic gain. "Food Fraud," also called as "Blacken-Heart Food," may be harmful or harmless to human health. "Food Safety" issue is an on-going event that will not be ended soon or at any time. Six current issues have been identified as follows: (1) Food fraud has caused the loss of consumers' confidence to food supplies and government credibility; (2) Food safety laws and regulations have not been updated ; yet, the laws have not been effectively enforced; (3) The food additives have been abused in food productions; (4) Food industry has no societal responsibility in running business; (5) Consumers' food safety knowledge is mostly getting from media; and (6) Food laws and regulations are different in different countries.

To helping solve problems, some strategies are suggested including (1) Revising domestic food laws to meet global standards; (2) Establishing risk assessment and management system as a tool to deal with the preventative methods; (3) Setting up a traceability system for food products from farm to table; and (4) Reinforcing food safety education and training programs for academia, government, industry and consumer. Only if these strategies correctly implemented, the risk of getting food borne illness can be reduced to an acceptable level. In this presentation, examples of current food safety issues will be listed and discussed.

主講人 **Speaker: Yao-wen Huang**, Professor Emeritus of the University of Georgia, is a Professor of the Shanghai Jiao Tong University (SJTU) serving on the Board of Directors of SJTU Bor S. Luh Food Safety Research Center; he is also a Chair Professor of the Shanghai Ocean University. Dr. Huang is a "Fellow" of the International Academy of Food Science and Technology (IAFoST), the highest honor in the field of food science and technology worldwide. He was also a "Fellow" of the Institute of Food Technologists (IFT). Dr. Huang is a Certified Food Scientist (CFS; certified by IFT); Certified Hazard Analysis and Critical Control Point (HACCP) trainer (certified by IHA, AFDOS and GMA); Certified ServSafe Restaurant Food Safety Manager Certification instructor (certified by NRA); and New Product Development Professional (NPDP; certified by PDMA). Dr. Huang has been very active in variety of professional organizations; he served as President for the following organizations during the past thirty years. These include Chinese American Academic and Professional Association in SE USA (CAPASUS), Chinese American Food Society (CAFS), Monte Jade for Science and Technology Association in SE USA (MJSTAES USA), Atlanta Chinese Community Federation (ACCF), and Georgia Association for Food Protection (GAFP). Currently, he is the President of National Taiwan Ocean University Alumni Association in Atlanta (NTOUAAA), the Executive Board Director of Global Monte Jade for Science and Technology Association (GMJSTA), and the Vice President of Atlanta Chinese Community Center (ACCC). Dr. Huang's expertise includes food safety and microbiology as well as product development and innovation. He has been conducting training programs on food safety and food laws for food industry at home and abroad.

Balancing our energies through understanding of our chakras and Physical/emotional/mental/spiritual bodies

Yung Yung Tsuai Lerner, 崔蓉蓉女士
Founder of Yung Yung Dance Company and the Byrdclffe Performing Arts Organization

Part one – Warm up exercises
Part two – Guided meditation

Part three – Introducing seven chakras in our bodies
The 7 chakras are the energy centers in our body in which energy flows through. Blocked energy in any of 7 chakras can often lead to illness, so it is important to understand what each chakras represents and what we can do to keep the energy flowing freely.

1. Root Chakra – Represents our foundation and feeling of being grounded.
2. Sacral Chakra – Our connection and ability to accept others and new experiences.
3. Solar Plexus Chakra – Our ability to be confident and in-control of our lives.
4. Heart Chakra – Our ability to love.
5. Throat Chakra – Our ability to communicate.
6. Third Eye Chakra – Our ability to focus on and see the big picture.
7. Crown Chakra – The highest chakra represents our ability to be fully connected spiritually.

Part four – Physical, Emotional, Mental, and Spiritual Health
We are comfortable when talking about our physical bodies and yet we know very little about how our bodies actually work. Our bodies are the physical containers for our organs, systems, brains, minds emotions and souls. Besides foods, drinks and daily living routines, our bodies also respond to different thoughts and emotions. The chemical processes in our bodies change depending on which types of emotions we are feeling. Often an emotion we are feeling in the present moment is linked not only to the present situation but also to a past situation, which occurred a long time ago. Our mind speaks of "intention and desire and the conscious and unconscious adaptive mental activity of an organism". Very often, we feel comfortable and safe believing in what we can see, touch, feel, taste and smell and become quickly uncomfortable with concepts things we cannot see, touch, feel, taste, and smell. As a result we have difficulty with the concepts about energy and the energetic properties and fields of individuals, objects and nature. And yet everything on this planet with a life force is made of energy. In order to keep ourselves healthy, we need to understand all the components of our bodies, therefore, to keep our physical, emotional, mental, and spiritual bodies in a well balanced state.

Part five – Questions and Answers.

主講人 **Speaker: Yung Yung Tsuai Lerner,** 崔蓉蓉女士**,** was born in China and grew up in Taiwan. She came to New York under a personal scholarship from the Modern Dance Icon, Martha Graham, in 1970. Since then, she has worked with Martha Graham, Pearl Lang, Daniel Nagrin, Susan Stroman, and other choreographers. She founded the Yung Yung Tsuai Dance Company and the Byrdcliffe Performing Arts Organization in 1979. Her company has toured throughout the USA, Spain, Italy, and Japan during the 80's and 90's.

In the past three decades she has worked with the Yangtze Repertory Theater, La Mama Theater, Bank Street Theater, Naked Feet, and the Papermill Playhouse among others as an actress, a dancer and a choreographer. She also worked as a rehearsal director for the Cloud Gate Dance Company in the early 90's. She has taught extensively at the Martha Graham School of Contemporary Dance, the Alvin Ailey American Dance Center, NYU, George Washington University, SUNY Purchase, Long Island University, and many other colleges and schools. Since 1972, Ms. Tsuai Lerner has begun her search in spiritual growth and emotional healing. She has gone through psychotherapy, to Gestalt therapy, to Primal therapy, to past life regression. She has studied with many spiritual teachers, such as Al Huang, Dr. Kaushik, Shepherd Hoodwin, Terry Hu and Carlos Castaneda's foundation, Clear Green. In addition, she has studied Chinese Tai Chi Chuan with Master Liang and Da Lu.

She published her memoir, the Difference in Butterflies, with her co-author, Marilyn Meeske Sorel in 2007.

Session 3

Information and Communication Technologies Session
資訊與通訊科技研討會

CAAPS 2015 Annual Convention
August 15, 2015, Saturday
2:15 ~ 3:45 PM, 7th Floor, Gallery Conference Room

Organizer 召集人: Prof. Ping-Tsai Chung 鍾炳采教授
Long Island University, Brooklyn, New York
Co-Organizer 召集人: Dr. Shu-Ping Chang 張書平博士
The manager of IBM System S (Streams) Laboratory, IBM T. J. Watson Research Center
Co-Organizer 召集人: Dr. Jen-Yao Chung 鐘健堯博士
Associate Vice President, the Quanta Cloud Technology
Chair 主持人: Prof. Ping-Tsai Chung 鍾炳采教授

Speakers and Topics 主講人及講題:

Dr. Ming-Yee Lai 賴明毅博士, ConnectiLife, USA, "Internet of Things for Aging in Place, 物聯網於居家養老的應用".

Dr. Ching-Yung Lin 林清詠博士, IBM T. J. Watson Research Center "Network Sciences & Big Data Analytics, 網路科學與大數據分析".

Dr. George Chan, 張至先院長, the College of Natural, Applied and Health Sciences Kean University, New Jersey, "Immersive Technology: Virtual Reality, 沉浸式科技:虛擬實境".

Organizer 召集人: Prof. Ping-Tsai Chung, 鍾炳采教授 is a Professor of Computer Science with Long Island University, Brooklyn, New York, where **he has served as Chair of Computer Science Department of LIU-Brooklyn for nine years from June 2004 to August 2013.** Earlier, he has worked with AT&T Bell Labs in U.S.A. for developing High Speed Network Management Systems, and he has participated a Broadband ISDN Services Project at Telecommunications Labs (TL) in Taiwan. He is an Associate Editor of Journal of Convergence Information Technology, AICIT, and is an Associate Editor of the Journal of Selected Areas in Bioinformatics (JBIO), Cyber Journals: Multidisciplinary Journals in Science and Technology, The Canadian-based Cyber Journals. His research interests are Network Computing, Intelligent Systems, Web Services and Biomedical Informatics.

Prof. Chung received his Ph.D. degree in Computer Science from New York University, Polytechnic School of Engineering. He is an Alumnus of Department of Electronic Engineering of National Taipei University of Technology (a.k.a., Taipei Tech.), where he received Outstanding Alumni Award at NTUT 95th Anniversary Ceremony, Taipei, in 2006. He is also an Adjunct Professor of Computer Science and Engineering with NYU-Poly since 2013.

Prof. Chung is **the Founding Chair of the New York Chapter of IEEE Systems, Man, & Cybernetics (SMC) Society and the Chair of Education Committee of IEEE New York Section**. He established Student Branch Chapter of IEEE Society at LIU Brooklyn, where the student chapter of IEEE SMC Society is the first student chapter of SMC Society in North America. **Since September, 2012, Prof. Chung has conducted Twenty-Seven IEEE technical seminars in Information and Communication Technologies areas for supporting *"Lifelong Learning for Professionals and Students."*** , http://ny-ieee-smc.weebly.com/.

Prof. Chung received **IEEE Outstanding SMCS Chapter Award, 2014** for the best SMC Chapter (New York Chapter) that has consistently shown outstanding leadership and service to its members at the 2014 IEEE International Conference on Systems, Man, Cybernetics (SMC) in San Diego, California, October 2014. He served as **CAAPS President in 2010, Chairman of Board of Directors in 2013 and in 2014 for two terms. He is a Life Member of CAAPS.**

Co-Organizer 召集人: Dr. Shu-Ping Chang 張書平博士 is **the Manager of IBM System S (Streams) Laboratory**, a cluster of 600+ physical nodes with 2500+ CPU cores, at IBM T.J. Watson Research Center. IBM System S project, the base of IBM Big Data product InfoSphere Streams, uses streams processing architecture for massive information computing and management as decision making support. His primary function is System S Laboratory management, prototype systems development and cluster system administration automation especially in faults management. **Dr. Chang has more than 25 years research and product development experiences in the Computer and Information technology arena**. He

has broad and in depth knowledge in computer system hardware architecture and software structure in computer communication, relational database, internet web based solutions and multimedia systems.

Dr. Chang has a Ph.D. in Computer and Information Sciences from University of Minnesota with special focus in Computer Communication and System. He has a Master of Science degree from University of Minnesota with major in Computer and Information Sciences and minor in Electrical Engineering. His master project is in Computer Vision area. He also has a Bachelor of Sciences degree, first place honor, from National Chiao-Tung University, Republic of China, in Communication Engineering. **Dr. Chang was Chair of IEEE New York Section in 2013, was the president of Chinese Institute of Engineers-Greater New York Chapter (CIE-GNYC)美洲中國工程師學會大紐約區分會會長 in 2012. He is a member of the board of Chinese American Academic and Professional Society (CAAPS), USA.**

Co-Organizer 召集人: Dr. Jen-Yao Chung, 鐘健堯博士

received the B.S. degree in Computer Science and Information Engineering from National Taiwan University and the M.S. and Ph.D. degrees in Computer Science from the University of Illinois at Urbana-Champaign. **Dr. Chung has more than 25 years Industrial research and development experiences. Since August 2014, he has been with the Quanta Cloud Technology as an Associate Vice President** where he is responsible for creating hyper converged cloud solutions. Before that, **he was the senior manager for Industry Technology and Solutions, IBM T. J. Watson Research Center**, responsible for identifying and creating emerging solutions with focus on Smart Cities, Green Computing and Business. Before that, he was **Chief Technology Officer for IBM Global Electronics Industry.** Dr. Chung is co-Editor in Chief of the International Journal of Service Oriented Computing and Applications (published by Springer). Dr. Chung is the co-founder and co-chair of the IEEE technical committee on Electronic Commerce. He has served as general chairs and program chairs for over 25 international conferences. He has authored or co-authored over 180 technical papers in published journals or conference. He was awarded an IEEE Outstanding Paper award in 1995, two IBM Outstanding Technical Achievement awards, in 1994 and 2000, an IBM Outstanding Contribution award in 1997, and five IBM Research Division awards, in 1990, 1996, 2001 and 2008. **He is an IEEE Fellow, a Distinguished Engineer of ACM and a Member of IBM Academy of Technology. He is a Board of Director of CAAPS.**

Chair 主持人: Prof. Ping-Tsai Chung, 鍾炳采教授

Internet of Things for Aging in Place
物聯網於居家養老的應用

Ming-Yee Lai, Ph.D.
Co-Founder of ConnectiLife, USA
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Aging in place (AIP) means living at home as one gets older, instead of being in other environment of choice, such as nursing home, assisted living. Physical and mental conditions permit, most of seniors and their care takers prefer aging in home to other unfamiliar places, where seniors are faced with unknown, frightening, stress, adjustments, and high care costs.
The common concerns for AIP seniors include falls, memory problems, incontinence, depression, loneliness, safety, incapability to perform activities of daily living (ADL), and multiple chronic conditions and medications. More than half of adults age 65 and older have 3 or more medical problems, such as heart disease, diabetes, arthritis, Alzheimer's disease, or high blood pressure.

Global demand for home health care services is on the rise as a result of an aging population (baby boomers), the lengthening human life span, the increase in chronic illnesses, and the elapse time needing long term care. Senior adults are projected to account for over 22% of Japan population today, 20 percent of the US population by 2030, and 30% of Taiwan population by 2050.

The technologies to aid in home health services has been expanding rapidly from assistive tools for handicaps, personal emergency response, tele-medicine to Internet of Things (IOT). In this talk, we focus on the application of IOT in AIP. IOT connects mobile and fixed devices to the home network and Internet, enabling information gathering, new services, as well as device control locally and remotely.

International Data Corporation (IDC) cites IOT is expected to reach 3 trillion by 2020. Gartner predicts Internet-connected devices will grow from 900 million in 2009 to 26 billion units in 2020. However, many of the IOT devices today are targeted for technology early adopters and hobbyists, not for seniors and their care takers who need devices to be easy to use (e.g., user interface, configuration setup and change, battery charging, data analysis diagrams, not requiring to learn to use a smart phone) and enticing to adopt (e.g., saving life, stylish fit for seniors, design reflecting dignity, privacy protection).

We discuss the existing IOT devices that can be used to address key AIP concerns, which include falls, memory problems, loneliness, safety, ADL issues, and chronic conditions.

(1) A fall can be detected by wearable devices, cameras, and combinations of devices, without manual steps on senior's part (who may lose consciousness after a fall). Once a fall is detected, the fall detection system sends an alert to care takers or emergency responders.

(2) The symptoms caused by memory problems, such as getting lost outdoor, forgetting medication, diet, or therapy regimen, and other symptoms (e.g., behavior changes), can be mitigated or improved by wearable devices, fixed smart home devices, or combinations of them.

(3) Loneliness, caused by no or far-away children and loss of old friends and relatives, can be eased by simple-to-learn & use devices that support tele-presence, photo sharing, social networking as well as artificial pets that can learn and grow via interacting with seniors and over-the-air information enrichment.

(4) To protect seniors from fire, smoke, burglars, flooding at home, fixed smart home devices can be interworked to prevent these events from happening with sensors and threshold control, alert the seniors with the type and the location of the events, notify first responders automatically, and provide coordinated light, door control and audible instructions to guide seniors to a safe place.

(5) Seniors unable to perform ADL (things we normally do, such as feeding ourselves, bathing, dressing, grooming, work, homemaking, leisure, or move around) currently requires human aid and labor. The price, capabilities, and performance of the multi-task household and home care robots are improving rapidly, which can help relieve the serious issues of lack of home care aides, growing senior populations, and escalating costs. Finally,

(6) To cope with seniors' chronical conditions (e.g., diabetes, seizures, heart, cerebral vascular, respiratory, urinary, kidney diseases, age-related dementia, and mental or physical disabilities), IOT devices can be used to monitor body conditions, help administer the medicines, monitor the diets, control the environment, handle the emergency situations. Through analyzing and deriving advices from the collected data via body or home sensors, the seniors' health conditions can be maintained and improved.

Connecting IOT devices from multiple vendors described above into robust, easy-to-use, personalizable, incrementally expandable systems and services is critical to the success of next generation senior home care.

Dr. Ming-Yee (Ming) Lai 賴明毅博士 received the M.S. and Ph.D. degrees in computer science from Harvard University and B.S. degree from National Taiwan University. He is a co-founder of Connectilife, which focuses on systems, integration, services, and management for senior home care. Ming was the head for Machine to Machine Communication (M2M) and Broadband Wireless Program at Applied Communication Sciences (ACS), responsible for developing new technologies and business with focus on M2M, broadband wireless services, and mobile data analytics.

Dr. Lai was also the ACS representative to OneM2M, ATIS M2M Committee, Open Mobile Alliance, NPSTC 700MHz Broadband Group, and WiMAX Forum. Ming has over 30 year experience in information and telecom technologies through his work in ACS, Telcordia,

Bellcore, Bell Labs, and Rand Corporation. Ming initiated, directed, managed, and contributed to a wide spectrum of projects and products in M2M, broadband wireless, network management, architecture design, software tools, database systems, system reliability and performance and has worked with key telecom service providers, equipment vendors, government agencies, and research organizations successfully. In recent years, his R&D focus centers on connected health, M2M service platform, device management, portable gateway, and vertical application integration. Ming has over 60 paper publications, book, and patents. Dr. Lai has been invited to give a talk on connected health for senior home care at 『第25屆近代工程技術討論會-永續化銀髮族健康照護』at Modern Engineering and Technology Seminar, METS 2014, Taipei, Taiwan, R.O.C. in November, 2014.

Network Sciences & Big Data Analytics
網路科學與大數據分析

Ching-Yung Lin, Ph.D
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From the scientific aspect, Network as a new inter-disciplinary scientific field is emerging. Entities — people, information, societies, nations, devices — connect to each other and form all kinds of intertwined networks. Network theories are being formed for describing the dynamics, behaviors, and structures. A systematic mathematical formalism that enables predictions of network behavior and network interactions is also emerging. Trans-disciplinary approaches are usually required to lay the foundations of this science and to develop the requisite tools. We are now envisioning the emerging of 'Network Science'. In this lecture, I am going to introduce recent R&D works in Network Science, including Cognitive Networks (such as Large-Scale Bayesian Networks, Deep Learning Tools, and Brain Network Analysis tools), Cognitive Analytics (such as visual sentiment and emotion analysis), Spatio-Temporal Analysis (for moving objects and IoT), and Behavioral Analysis.

From the technical aspect, processing connected and related data has been a big challenge for Big Data Analytics. Most traditional IT systems were designed for processing independent data. Linked Big Data Analytics requires novel graph computing platforms. There are three major aspects of graphs — graph storage & retrieval, graph topological analysis, and graphical models. Graph database is a tool for efficiently managing large-scale graph data, especially important for contextual and relationship analysis. Graph analytics is important for finding the important vertices or edges that are more central, that are clustered, or that form abnormal patterns. Graphical models are essential to artificial intelligence, information reasoning and predictive analysis, which requires combining many factors to create actionable insights. We are creating

comprehensive software algorithms, middleware, and infrastructures to handle various issues of Linked Big Data, to pave a potential foundation for the requirement of next generation big data challenges.

Dr. Ching-Yung Lin 林清詠博士 is the IBM Chief Scientist, Graph Computing Research and an IBM Distinguished Researcher. He is also an IEEE Fellow and IEEE Distinguished Lecturer. He has been also an Adjunct Professor in Columbia University since 2005 and New York University since 2014. His interest is mainly on fundamental research of large-scale multimodality signal understanding, network graph computing, and computational social & cognitive sciences, and applied research on security, commerce, and collaboration. Since 2011, he has been leading a team of more than 40 Ph.D. researchers in worldwide IBM Research Labs and more than 20 professors and researchers in 9 universities (Northeastern, Northwestern, Columbia, Minnesota, Rutgers, CMU, New Mexico, USC, and UC Berkeley). He is currently the Principal Investigator of three major Big Data projects: DARPA Anomaly Detection at Multiple Scales (ADAMS), DARPA Social Media in Strategic Communications (SMISC), and ARL Social and Cognitive Network Academic Research Center (SCNARC). He leads a major IBM R&D initiative on Linked Big Data called **IBM System G**. Dr. Lin was the first IEEE fellow elected for contributions to Network Science. His team recently earned the Best Paper Awards on ACM CIKM 2012 and IEEE BigData 2013.

Dr. Lin's team focuses on all aspects of large-scale **Graph Computing** -- graph database, high performance computing graph infrastructure, network graph analysis and graphical models library, and graph visualization. The goal is to create innovative foundation to solve the biggest challenge of Big Data when data are dependent. It is applied to (1) Social/Economic Networks (2) Information/Knowledge Networks (3) Natural/Bio/Cognition/Brain Networks and (4) Communication/Mobile Networks. On **Social Cognitive Analytics**, the team's focus is on machine-based people understanding for Cognitive Security, Social Analytics, Behavioral Analytics, Neuron Network Analytics, and Audio-Visual Sensing Analytics. His team is consisted of researchers with backgrounds of Signal Processing, Network Science, Machine Learning, Information Retrieval, Natural Language Processing, High Performance Computing, Visualization, Economics, Database, etc.

Dr. Lin invented and created **the *SmallBlue* system**, an IBM effort for Enterprise Social Network Analysis, Expertise Search, and Knowledge Recommendation. SmallBlue has been featured in more than 120 press articles and were featured 4 times in BusinessWeek, including being the Top Story of the Week in April 2009. SmallBlue helped IBM Corporation won the 1st place in 2012 Most Admirable Knolweldege Enterprise (MAKE) Award in enterprise-wide collaboration knowledge-sharing environment. In May 2013, SmallBlue was selected by APQC, the World Leader in Knowledge Sharing Benchmarking and Practices, as the Industry Leader and Best Practice in Expertise Location. **In October 2013, SmallBlue was recognized as having made $100M+ productivity contribution to IBM.**

Dr. Lin's Cognitive Security system (ADAMS) focuses on anomaly detection and has the best performance in the latest program review in October 2013. It has been used for insider threat detection such as espionage, sabotage, or fraud detection. Another **system -- SMISC** focuses on social media monitoring, forensics, and predictive analysis, and has 25 research threads on various aspects of social media analysis. **Dr. Lin is an author of 160+ publications and 19 awarded patents (~6000 citations, h-index 41, 1st-author citations: 3000+). In 2010, IBM Exploratory Research Career Review selected Dr. Lin as one of the five researchers "*mostly likely to have the greatest scientific impact for IBM and the world*."**

Immersive Technology: Virtual Reality
沉浸式科技:虛擬實境

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Immersive technology is the bridge between the physical world and digital or simulated world. Many hardware/software technologies are developed to stimulate one or more of the five senses in order to achieve a fully immersive environment. Most notably, the advances in 3D display and haptic devices enable developers to create and deploy meaningful and useable applications in the training and entertainment industry. Human-Computer Interaction (HCI) technology has also advanced to allow better interaction between the physical and the virtual world.

1. Introduction

It has been almost fifty years since Ivan Sutherland created the world's first immersive virtual reality (VR) and augmented reality (AR) world known as the 'Sward of Damocles' [1]. The system has a head-mounted display (HMD) with head tracking and is driven by 3D graphics that gives the user a simple virtual world with the sense of immersion. In order to achieve a fully-immersive and perceptually-real environment that the five senses must be stimulated. These senses are sight, sound, touch, smell, and taste (visual, auditory, tactile, olfactory, and gustatory). Notably, the most important senses to achieve full immersion are visual, auditory and tactile. Since auditory can be easily achieved by having a surround sound Hi-Fi stereo component integrated into a system, visual and tactile technologies, are more complex, and thus are the focus of this presentation.

2. Visual

The visual cortex of the brain is the part of the cerebral cortex responsible for processing visual information. Sensory-motor coupling enables us to process visual information and provide

a response. That is, if a projected device can fool our eyes, then we can achieve the effect of full immersion. To this end, three types of devices have been created to provide full visual immersion [2].

***Head-Mounted Display* (HMD)** – is a display device worn on the head or as a part of a helmet that has a small display optic set in front of one or both eyes. The display can be either direct or indirect reflecting projected images, which can also be seen through. This is a single user device by the person who is wearing it [3].

VR Dome – Horizontal or tilted is an immersive dome-based projection environment that displays real-time or pre-rendered animations, live or composited imagery. The projection system can either be single or multiple. A small group of from 2-5 users can participate in an interactive dome while non-interactive dome allows a larger audience [4].

***CAVE* – Cave Automatic Virtual Environment** is an immersive virtual reality environment based on projections from either three, four, five or six walls of room-sized cube. The user wares 3D glasses inside the CAVE to see 3D graphics and can walk inside the cube. The graphics will render a real-time experience based on the position of the user. CAVE2 was released in October 2012 and is based on LCD panels rather than projections. Usually around 10 users can participate in a CAVE [5].

3. Tactile

Full Immersion also involves the sense of touch. To this end, various haptic devices were introduced for kinesthetic communication which provides tactile feedback, vibrations, or motions to the user. Haptics is the science of applying tactile sensation for the purpose of interacting with a computer. Haptics devices include joystick, haptic glove, stylus control arm, and motion chair [6].

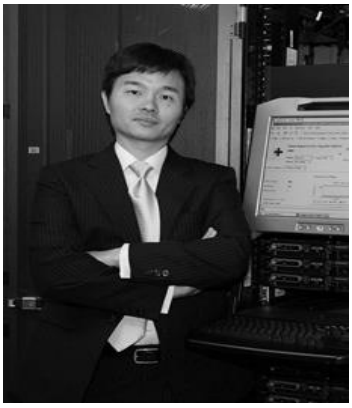
4. Applications

From gaming to training, there are many applications that are suitable for using immersion technologies. These application include entertainment, gaming, adult industry, military training, medicine, research, architectural planning. As immersive technology becomes increasingly mainstream and as technologies such as HMD and supporting software are getting less expensive, many new applications will emerge in different industries to make the virtual reality even more of a reality.

References

[1] Sutherland, I. E. "A Head-Mounted Three dimensional Display", Proceedings of AFIPS 68, 1968.
[2] Immersive Technology https://en.wikipedia.org/wiki/Immersive_technology, June, 2015.
[3] Head-Mounted Display https://en.wikipedia.org/wiki/Head-mounted_display, June, 2015.
[4] VR Dome https://en.wikipedia.org/wiki/Fulldome, June, 2015.
[5] CAVE https://en.wikipedia.org/wiki/Cave_automatic_virtual_environment, June, 2015.
[6] Haptic Technology https://en.wikipedia.org/wiki/Haptic_technology, June, 2015.


Advanced Visualization Laboratory's CAVE at Kean University



Dr. George Chang 張至先院長 is **the Dean of the College of Natural, Applied and Health Sciences and Professor of Computer Science at Kean University.**

Kean is the third largest public university in New Jersey, and the largest producer of teachers in the state. Today, the University boasts New Jersey's first comprehensive program dedicated to the development of a new generation of mathematics, science and technology teachers and researchers—the New Jersey Center for Science Technology and Mathematics (NJCSTM).

Dr. Chang earned his B.S. in Computer Science and Applied Mathematics and Statistics from SUNY Stony Brook, M.S. and Ph.D. in Computer and Information Science from New Jersey Institute of Technology. Chang has authored or co-authored more than twenty peer-reviewed journal and conference publications and one book. He was a co-principal investigator (Co-PI) on three National Science Foundation (NSF) grant-funded projects, for high-performance computing, virtual and augmented realities, totaling over US $1.6 million dollars.

Dr. Chang is the lead author of the book Mining the World Wide Web - An Information Search Approach, Kluwer Academic Publishers, 2001 (Japanese language translation published 2004) and has authored many journal and conference publications. His research interests include Databases, Bioinformatics Systems, Data Mining, Visualization Systems, High-Performance Computing and Educational Technology. He is a Redhat Certified Engineer, a member of The Honor Society of Phi Kappa Phi and ACM. He is currently the chair of Computational Science Group and the Director of the High-performance Computational Laboratory at Kean University.

Session 4

Smart Architecture and Environment Protection

智慧建築與環境保護

CAAPS 2015 Annual Convention
August 15, 2015, Saturday
2:15 PM ~ 3:45 PM, 7th Floor, Topaz Conference Room

Organizer 召集人: Dr. Moses Chang 張彰華 博士
United States Environmental Protection Agency, Region 2, New York

Organizer 召集人: Mr. Kevin Gwo-Shenq Wey 魏國勝 建築師
Senior Associate, VOA Associates, Inc.

Chair 主持人: Prof. Feng-Bao Lin 林豐堡 教授
City College, City University of New York

Speakers and Topics 主講人及講題:

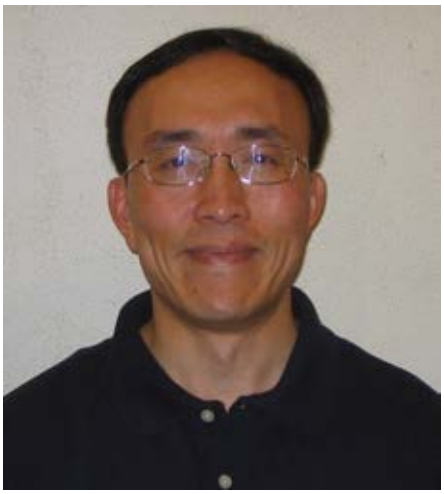
主講人 **Speaker: Dr. Zhou (Joe) Xu, 徐洲博士, Professional Engineer in the State of New York, Structural Engineer and Civil Engineer in the state of California.**
講題 Topic: **Green Building Construction in New York City -An Overview from the Private Sector**

主講人 **Speaker: Mr. Alfred Huang, 黃仁輝建築師 AIA , LEED AP, Massforma Architecture, PLLC**
講題 **Topic: Smart Architecture: Innovations toward Smart Architecture**

主講人 **Speaker: Dr. Tzung-Yuh Yeh, 葉琮裕博士 , Professor of National University of Kaohsiung.**
講題 **Topic: Algal Growth Control Within Natural Water Purification Systems: Macrophyte Light Shading Effects**

Organizer 召集人: Dr. Moses Chang 張彰華 博士 received his B.S. in Fishery Science from National Taiwan Ocean University, and M.A. and Ph.D. in Biology from the City College and the City University of New York, respectively. His initial research interests were in the area of fishery, marine science, marine ecology, and ichthyology. His career in Region 2 of the U.S. EPA began in 1987. His major responsibilities include the implementation of the Clean Water Act Sections 301(h), 403(c) and 316 Programs in Region 2. These programs are related to ocean or thermal discharge impact assessment, water quality evaluation, biological including bioaccumulation monitoring development and analysis. In addition, Moses serves as EPA Region 2's representative on the EPA's Intake Structure Workgroup and Coral Reef Biocriteria Workgroup. Furthermore, as the Region's Aquatic Biologist, he is responsible for the biological evaluation, assessment, and played a major role in the region's decision-making processes related to the biological opinion, including issues on: marine aquaculture, coral reef, biological monitoring, fish bioaccumulation, essential fish habitats, invasive, threatened and endangered species. He taught environmental science related courses as a visiting professor in the Fishery and Environmental Science Department of the National Taiwan Ocean University and the National Kaohsiung Marine University in Taiwan since 2000, and 2005, respectively. He is an adjunct associate professor in the School of Earth and Environmental Science of the Queens College of the City University of New York since 2007.

Organizer 召集人: Mr. Kevin Gwo-Shenq Wey 魏國勝 建築師 is a New York State Registered Architect (RA) and a LEED Accredited Professional since 2007. He has a broad range of experience from working in architectural design and in real estate development. His projects included luxury housing, corporate offices, institutional and commercial buildings, religious centers, healthcare centers, senior-living residences, interior and furniture design. Currently, Kevin works as a senior associate in VOA, an award-winning firm in NYC. Kevin received his Bachelor of Architecture from Tamkang University in Taiwan in 1997 and Master of Science in Advanced Architectural Design from Columbia University in 2001. He received notable recognitions in various competitions such as the 2001 Far Eastern International Digital Architectural Design Competition in Taiwan and The Virtual Museum Competition 2001 in Italy. These projects have been published and exhibited internationally. He was also a contributing writer and reporter in Chinese-English for Dialogue Magazine in Taiwan and a speaker at the 38th/39th Annual Chinese American Academic & Professional Society (CAAPS) Convention in 2013. He is serving as a CAAPS Board of Director fro the term 2014-2016.



Chair 主持人: Prof. Feng-Bao Lin 林豐堡 教授

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 Systems 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 organizations in the US, such as ASCE, ACI, and AISC, and has served on a number of committees of these international professional societies. In addition, he has been active in Chinese community and professional organizations. The positions he has served at different Chinese organizations include President and Board Chairman of Chinese American Academic and Professional Society (CAAPS), President of National Taiwan University Alumni Association of Greater New York, Principal of Chinese Cultural Association of Long Island and Chinese School, and Treasurer of Phi Tau Phi Scholastic Honor Society of America. Currently, he is the President of International Chinese Transportation Professionals Association/Northeastern Chapter(ICTPA-USNE).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 and construction projects of building and bridge structures. Email: flin@ce.ccny.cuny.edu

Green Building Construction in New York City
-An Overview from the Private Sector

Zhou Xu[1], Jing Wang[2]

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Including in this paper is an overview of the green building characteristics and practice with emphasis on how to implement the green building provisions in New York City. The green building components, the rating system, and the current practices are presented in this paper.

1. Introduction

New York City is the world's most unique city in terms of its abundant aspects with a very high density of buildings. There are more than one million of buildings concentrated in an area of about 300 square miles. In New York City, buildings consumes more than 90% of electricity, 75% of GHG emissions, 50% of solid waste, 85% of portable water, 55% of land area, and 90% of time spent indoors. Determination of policy and its implementation are critical issues for the city's sustainability and further growth and development.

2. Green Building Practice

Buildings are such important part of the city; their design and operation affect our environment significantly. Starting on December 31, 2014, the new 2014 New York City Construction Codes went into effective. The Construction Codes consist of the General Administrative Provisions, Building Code, Plumbing Code, Mechanical Code, Fuel Gas Code, and Energy Conservation Code. These updated regulations ranging from detailed specifications to general administrative laws have been enforced for the building designs and constructions in the city. This presentation will particularly focus on the new Energy Conservation Code.

Green buildings are designed to reduce the overall impact of the built environment on human health and the natural environment through efficiently using resources such as energy and water, reducing waste, pollution and environmental degradation, and improving productivities. A green building is also known as a sustainable or high performance building. New York City is a pioneer city in leading the green building construction in the US. As it is defined by the EPA, green building construction is "the practice of creating structures and using processes that are environmentally responsible and resource-efficient throughout a building's life-cycle from siting

to design, construction, operation, maintenance, renovation and deconstruction". The practice aims to expand and improve the traditional building design concerns with respect to economy, utility, durability, and comfort.

To implement effectively the green building regulations and policy, the US Green Building Council created the green building rating system for new buildings or major renovations in the US. The rating systems include Building Design and Construction (BD+C), Interior Design and Construction (ID+C), Building Operations and Maintenance (O+M), Neighborhood development (ND) and Homes.

In this presentation, an overview of the green building constructions in the New York City area with emphasis on the practice and implementation of the green building policy is provided.

3. Reference:

1) US Environmental Protection Agency, http://www.epa.gov
2) New York City Building Code, New York City Department of Building, http://www.nyc.gov/Buildings
3) US Green Building Council, http://www.usgbc.org

主講人 **Speaker:** Dr. Zhou (Joe) Xu (**徐洲**) received his Ph.D. from the City University of New York. He is a registered Professional Engineer (PE) in the State of New York, registered Structural Engineer (SE) and Civil Engineer (CE) in the state of California, and a LEED Accredited Professional (LEED AP) by USGBC. Dr. Xu is the founder of Times Buildings PC, which provides a wide-range of engineering services for private and public sectors, including architectural and structural designs, field inspections, and project management. Before started his own practice, Dr. Xu had worked for Weidlinger Associates, Inc. and Yaseral Seinuk, P.C. for many years, specialized in high-rise and special structures. Dr. Xu is also an adjunct professor in the Department of Civil Engineering, The City College of New York where he initiated and has been teaching the graduate course of "High-rise Building Design and Analysis". Dr. Xu has authored more than 15 journal and conference papers in structural engineering, particularly in the area of seismic mitigation and materials.

Smart Architecture: Innovations toward Smart Architecture

Mr. Alfred Huang, AIA, LEED® AP

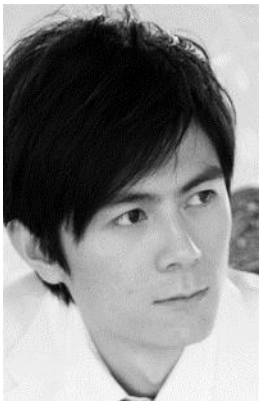
Massforma Architecture, PLLC, New York City

Email: alfred@massforma.com

Architecture and construction is chaotic and messy. Multiple parties – owners, users, architects, engineers, contractors, workers, suppliers, vendors, manufacturers – all converge on one site to build an idea. Then throw in money, schedules, deadlines, politics and liabilities, and we can see how there are many opportunities for things to go wrong. And because construction remains to this day a human-craft (since we still build buildings by hand), architecture's challenge is not just engineering but also effective communication.

Despite modern innovations in building technologies, architecture is becoming increasingly harder to deliver today. This is because of new expectations from architects, engineers, and contractors, while design tools and construction methods are increasingly outdated. Fear of risks and liabilities increasingly outweigh the drive for innovation and invention. Politics restrain developments and limit visions for community change and renewal. In order to meet these new challenges, the industry is changing how projects are communicated and delivered. The digital revolution is transforming how we design, how we communicate about design, and how we build.

This talk will focus on innovative project delivery methods being developed in the industry today. We will examine how institutions and government agencies have embraced the internet and cloud computing. We will see how architects, engineers and contractors are looking to the next generation 3D tools to advance their designs. We will also reveal how prefabrication and 3D printing are ready to revolutionize how we put buildings together.



主 講 人 Speaker: Alfred Huang, AIA, LEED® AP, co-founded Massforma Architecture, PLLC in 2010 after seven years as a Senior Designer at the New York office of Skidmore, Owings & Merrill, LLP. He participated in the design of iconic projects including One World Trade Center in New York City and Lotte Supertower in Seoul and Busan. Alfred is also a leader in advanced design strategies with BIM and continues to collaborate with industry leaders on parametric design and integrated project delivery. He received his Bachelor of Architecture from Cornell University in 2003 graduating magna cum laude and recognized by the Merrill Presidential Scholarship. He received a number of design and academic recognitions, including the York Prize and the AIA Certificate of Merit. He obtained his architectural license in 2007 and LEED® Accredited Professional status in 2008.

Algal Growth Control Within Natural Water Purification Systems: Macrophyte Light Shading Effects

T. Y. Yeh & T. Y. Ke & Y. L. Lin

NUK, Department of Civil and Environmental Engineering, Taiwan
e-mail: tyyeh@nuk.edu.tw

Natural water purification systems including oxidation ponds and surface flow wetlands are commonly used to treat wastewater in tropic regions, however, the water quality of the effluent fluctuated and often failed to comply with regulatory water criteria due to algae bloom. Separation of algae is inevitable to produce high effluent quality and to comply with local effluent standards. Algal growth control measures including emergent and floating macrophytes as well as back cloth physical light shading and algaecide application were studied and were aimed to reuse the effluent for water resource conservation and groundwater recharge. The results demonstrated that emergent and free-floating macrophytes light shading on algal growth control were viable in both batch experiments and field-scale hybrid natural water purification systems such as surface flow wetlands. Water quality parameters including COD, turbidity, SS were positively correlated with the algal concentrations and could be used as indictors of the trophic status of aquatic systems. Emergent macrophytes assisted control algal growth by preventing sunlight from reaching the water column in surface flow wetlands. Results of this study can be used by similar hybrid natural water purification systems to control algal activity and to prevent effluent deterioration.

Reed Cattail

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主講人 **Speaker**: Dr. Tzung-Yuh Yeh (葉琮裕博士) (PhD, Pennsylvania State University) is a Professor of Department of Civil and Environmental Engineering at the National University of Kaohsiung. His expertise is Environmental Engineering, Soil and Groundwater Pollution Remediation, Sewage Treatment and Constructed Wetlands Water Purification Project. Dr. Yeh was recently invited to serve as Hydrology current research, Journal of electric and electronic systems, Current environmental engineering and Jacobs Journal of civil engineering editors. He has published 28 articles in the last year.

Session 5

Multidisciplinary Education and Cultural Innovation

多元教育與文化創新

CAAPS 2015 Annual Convention

August 15, 2015 Saturday

2:15 PM – 3:45PM, 2nd Floor, Ballroom West

召集 人 **Organizer: Dr. Hui-Yin Hsu,** 徐慧茵教授

Associate Professor, New York Institute of Technology

主持人 **Chair: Dr. Shiang-Kwei Wang,** 王向葵副院長

Associate Professor and Associate Dean of School of Education, New York Institute of Technology)

Speakers and Topics: 主講人及講題

主講人 Speaker: Dr. Ya-Ning Hsu, 許雅寧博士, Teachers College, Columbia University

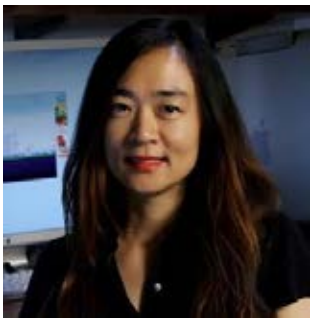
講題 Topic: Collaborative Learning-the Implementation in the Classroom 小組互動式教學 – 實行篇

主講人 Speakers: Dr. Grace Ho and Mr. Neal Lee, 何璧君及李正寧, The Graduate Center, City University of New York

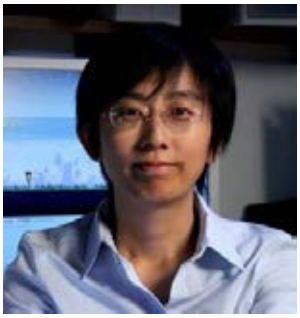
講題 Topic: From Awareness to Oneness: Self-Healing Unfolding 從覺察到合一: 開口自我療癒之路

主講人 Speaker: Catherine Lan, 藍巧茹, Yale School of Art

講題 Topic: Painting, Material, Experiment, Creating , and Contemporary Art 繪畫,材料, 實驗, 創作與當代藝術



Organizer and Chair: Dr. Hui-Yin Hsu, 徐慧茵教授 is the associate professor and chair of the teacher education program at the New York Institute of Technology. She has years of teacher preparation experience, published papers on how to integrate technology into literacy learning and language learning, and made numerous presentations and workshops on this topic. She is the author of the book The Amazing iPad Book for Teachers, and the Co-PI of a current National Science Foundation grant on using mobile devices and ICTs to facilitate science learning.



Chair: Dr. Shiang-Kwei Wang , 王向葵副院長, is the associate professor and associate dean of NYIT School of Education. Dr. Wang has years of teacher preparation experience. Her research interest includes how to use mobile device to conduct training and facilitate learning. She has papers published on this topic and has made many presentations and conducted workshops on mobile learning. She is the principal investigator of a current National Science Foundation grant on using mobile devices and ICTs to facilitate science learning. She authored the book the Amazing iPad Book for Teachers.

Collaborative Learning-the Implementation in the Classroom

小組互動式教學--實行篇

Ya-Ning Hsu (許雅寧博士)

Adjunct Assistant Professor

Bilingual and Bicultural Education,

Teachers College, Columbia University. New York, NY 10027

Hsu2@tc.edu

在美式教育中，小組互動式教學早已蔚為主流，且行之有年。這個觀念在一些亞洲國家中也慢慢成形。互動式教學有諸多優點，但是若是沒有正確的認識和操作方法，教室會陷於混亂，孩子學習成效不彰，老師也會有很大的挫折感。此講座旨在介紹小組互動式教學的理論基礎及有效率的實行方法，幫助老師, 家長，學生能有效地認識，運用此學習模式，增進學習效果。

Collaborative learning facilitates student-centered learning where students, through interaction, internalize, advance, and deepen their learning. Such a concept has become the corner stone in the U.S classrooms and has started influencing the educational development in Asia. However, collaborative learning needs thoughtful planning and careful execution to be effective. This presentation provides theoretical foundations and practical strategies in collaborative learning and hopes to support teachers, students and parents in understanding and implementing the collaborative learning model.

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主講人: 許雅寧教授擁有美國哥倫比亞大學英語教學碩士及雙語博士學位，目前為哥倫比亞大學雙語研究所教授並活躍於英文教育領域。許雅寧教授在美國中小學有多年實務經驗，持有美國中小學英文教師執照，曾任紐約州英文協會幹部,為美國著名學術期刊及協會審稿委員。除了教育領域，許雅寧教授並跨足金融財務界，曾任美國會計師並持有美國會計師執照。

Speaker: Dr. Ya-Ning Hsu received her M.A. in TESOL and Ed. D. in Bilingual/Bicultural Education from Teachers College, Columbia University where she currently works. Her specialties and research interests include bilingualism, reading, literacy, pedagogy, dual language model design and implementation, teacher training, interactive learning/teaching, differentiation. She combines her classroom experience in K-12 grades and theoretical foundations to support learning communities in the U. S. and Asia. She also has a background in business and finance and is a licensed certified public accountant.

From Awareness to Oneness: Self-Healing Unfolding

從覺察到合一: 開啟自我療癒之路

Grace Ho (何璧君博士)

Certified Laban Movement Analyst and PhD candidate Bilingual and Bicultural Education,

The Graduate Center, City University of New York, 10017

Graceho6688@hotmail.com

Neal Lee (李正寧)

Psychotherapy and Counseling

Human body moves within its own socio-cultural history. We use the body to perceive the self, to bridge relationships with others and the world, to cope with constant change. We are always sensing, feeling, creating, and connecting through movement. Conscious awareness of our body and movement is vital to experiencing and transforming the wholeness of our life. As we acknowledge life as an interesting journey of creation, learning and experiencing, the goal of this presentation is to introduce how to initiate our multi-dimensional awareness in understanding the relationships between ourselves and the Universe in order to increase our wisdom of becoming Oneness. The notion of "awareness" we proposed can be identified as an experience of self-observation, beyond the bodily system, that includes such concepts as emotion, mind, and spirit. We will invite participants to explore how conscious engagement in the experience of breath, body movement, and sound healing can serve them, and re-discover how tapping into our ongoing movement baseline promotes self-awareness and has implications in layers of self-healing.

主講人 **Speaker: Grace Ho,** 何璧君, is a Certified Laban Movement Analyst and is currently a PhD candidate in the psychology program at The Graduate Center, City University of New York. Grace has been danced with Martita Goshen's Earthworks since 2007, and is also a certified yoga/chair yoga teacher, Thai Yoga Bodywork and Reiki Practitioner and is currently completing the Dance/Movement Therapy training. She has been offered yoga/chair yoga and healing sessions at various community settings, such as Bamboomoves, Graduate Center at CUNY, Urban Yoga Foundation, FGS temple, and Annie Black Physical Therapy Center. She is inspired by various healing modalities and has been

observed herself growth through embodying the holistic lifestyle. She is grateful and honored to share her practice with others and support more people.

主講人 Speaker: Neal Lee　李正寧

簡歷 (Experiences)：
心理諮商輔導 4 年(Psychotherapy and Counseling for 4 years)
廣播主持 7 年 (Radio Programs Host for 7 years)
中醫師 14 年 (Study & Practice Chinese Herbal Medicine and Acupuncture since 2001)
催眠及能量治療 5 年 (Study & Practice Hypnotherapy and different Energy Healing modalities: Chiropractic, Reiki, Cranio-sacral and Polarity Therapy, Tibetan Singing Bowls & Sound Healing, and Matrix Energetics since 2010)

My personal goal is to write books and lead workshops and seminars to teach people using different healing modalities to help themselves integrating body, mind, spirit, and have a healthy and happy life.

Painting, Materials, Experiment, Creating and Contemporary Art

繪畫，材料，實驗，創作與當代藝術

Catherine Lan (藍巧茹)

Yale School of Art, Artist Diploma from National Higher School of Art of Paris, and Bachelors in oil painting from Central Academy of Fine Arts in Beijing.

Catherinec.lan@gmail.com

當代藝術有很多不同的形式可以呈現－繪畫，版畫，雕塑，裝置，行為，攝影。身為一個創作繪畫的當代藝術工作者，如何創作？如何選擇表現的藝術形式？如何找尋靈感？ 如何可以堅持一邊創作，一邊生活。藝術如何能夠影響社會，提升精神生活。藝術就在身邊，生活裡有藝術。如何保持創作的精神？一旦有了問題，就開始創作。這個問題是包括

各方面的，有藝術語言的，社會的，人文的，歷史的，國家的，政治的，經濟的。只要有問題就可。此講座通過自己的創作經驗介紹當代藝術繪畫領域的發展。

Contemporary art can be presented in many different forms – painting, printmaking, sculpture, installation, performance, and photography. As a contemporary artist, the question is how to create? How to choose specific art forms? How to find inspiration? How does one insist the creativity while living as a young artist? How can art affect the society and enhance the spiritual life? One can begin to create once there is a question. This question includes all aspects of the artistic language, social, cultural, historical, national, political, economic. As long as there is a question, you can. This talk session introduces the progress of painting now through my own experiences as an art creator.

Speaker: Catherine Lan received her M.F.A in Painting/Printmaking from Yale School of Art, Artist Diploma from National Higher School of Art of Paris, and Bachelors in oil painting from Central Academy of Fine Arts in Beijing. She continues to explore and experiment with painting as a physical category of art. Focusing on the material itself, Lan explores new possibilities of painting combining different textures or 'eliminating', a technique that "cannot go back", termed since 2008.

主講人: 藍巧茹凱（凱薩琳藍）在耶魯藝術學院的繪畫／版畫系獲得藝術碩士學位，在巴黎國立藝術學院獲得藝術家文憑，在北京中央美術學院的油畫系獲得學士學位。她繼續探索和實驗繪畫藝術領域裡的。專注於材料本身，藍探索與結合不同的質地或運用“什麼都回不去”的“除去”創作技法， 自 2008 年以來，她自創的一個觀念與技術.

Session 6
Economic Development and Business Outlook
經濟發展和商業展望

CAAPS 2015 Annual Convention
August 15, 2015
4:00 PM – 5:30 PM, 2nd Floor, Ballroom West

Organizer 召集人: Dr. John Tseng 曾令寧博士 St. John's University

Chair 主持人: Dr. Steve Chang 張東隆博士 Long Island University

Speakers and topics 主講人及講題

主講人 Speaker: Dr. Peter C.Y. Chou 周鉅原博士 City University of New York

講題 Topic: Technology Frontier and Middle Income Countries' Trap: Taiwan's Industrial Policies to Cope with Globalization

主講人 Speaker: Dr. H.J. Abraham Lin 林宏政博士 Brooklyn College, CUNY

講題 Topic: Shadow Banking: Kill It or Save It? Experiences from Taiwan and China

主講人 Speaker: Dr. Leon Shyue-Liang Wang 王學亮博士 National University of Kaohsiung, Taiwan

講題 Topic: Big Data Analytic for Business Applications

召集人/Organizer Dr. John Tseng 曾令寧博士

Dr. John Tseng is a graduate of National Chengchi University and received his PhD. from the State University of New York. He worked at the Central Bank of China and gained practical experiences. He teaches MBA business and economics courses at St. John's University. His research interests are risk management and corporate Finance, with publication of finance papers and books. He is a former Advisor, Chairman, President, and life member of CAAPS. Email: tseng0001@hotmail.com

主持人/Chairperson Dr. Tung-lung Steven Chang 張東隆博士

Dr. Tung-lung Steven Chang is Professor and Chair of International Business and Marketing at LIU-Post. He has taught MBA programs at the headquarters of Northrop Grumman, Olympus, Motorola and Verizonas well as IMBA/EMBA in Switzerland, the US, China and Taiwan. He has conducted seminars at various locations, including Beijing, Chengdu, Nanjing, Shanghai, Taipei, London, Miami, New York and the Headquarters of WTO in Geneva. Dr. Chang is a board member of New Jersey City University Board of Trustees. He was the former president of the Chinese American Academic and Professional Society and a member of the New Jersey State Export Finance Company Advisory Council. He previously served as a management advisor to the Ministry of Economic Affairs of Taiwan, ROC. He is a Fulbright Scholar and has received the United Nations Development Program grant, the Elite grant and the Taiwan Fellowship, among others.Dr. Chang has centered his research on the development of global expansion strategy with managerial implications for multinational corporations. He also published papers in the areas of FDI and international technology diffusion. His research has appeared in *Journal of World Business (SSCI), International Marketing Review (SSCI), Decision Support Systems (SSCI), Technological Forecasting and Social Change (SSCI), Journal of Global Information Management (SSCI), etc.* Email: Steven.Chang@liu.edu

Technology Frontier and Middle Income Countries' Trap: Taiwan's Industrial Policies to Cope with Globalization
前端科技和中等收入國家陷阱：臺灣應對全球化的工業政策

Peter C. Y. Chow

Professor, City University of New York

Abstract

Long term sustainable economic growth in any country, developed or not, can be achieved only through increasing factor productivity. It is generally understood that economic growth in matured economies (industrialized countries) comes from increasing factor productivity while that of developing countries comes mainly from increasing use of resources.

Economic growth in East Asia, other than industrialized Japan, is mainly through increasing resource use by " catching up" the leader; typical example are the high growth in the four little tigers in the 1960's to 1990's, ASEAN -4 in the 1970's to 2000's, China in the 1980's to 2010's. Technology innovation is rare until recently.

East Asia is trade dependent economy; its growth was mainly contributed by "export –led growth. Trade and industrial development is a parallel development (Chow, 2012). Late comers of industrialization rely on "technology spillover" from industrial leaders. Japan took the lead of industrialization since Meiji reform. The Newly Industrialized Countries (NICs) followed Japan's post-war industrialization by picking the industries which Japan left out after Japan moved to upper ladder of technology advancement. High economic performances in the NICs in the past decades were due technology catch up.

It is easier to duplicate the existing technology by "following the leader" than to innovate new technology. Economic stagnation in the NICs in recent years was due to approaching technology frontier because industrial leaders are more reluctant to any transfer technology to late comers now than they were before.

Therefore, innovation becomes more and more important for the late comers as their economies reach the "technology frontier". Other than Japan, most East Asian countries are vulnerable to the challenge of "middle income trap" unless further development of "knowledge-based economy" through innovation.

Reference

Peter C.Y. Chow, 2012. “Trade and Industrial Development in East Asia: Catching up or falling behind”. New York: Edward Elgar.

Short Bio of the Presenter

Speaker 主講人

Chow is professor of economics at the City College and the Graduate Center of the City University of New York. He was a visiting research fellow at the Hoover Institution, Stanford University, and University of California at Berkeley, a visiting scholar at the Institute of Social Science and Philosophy in Academia Sonica in Taiwan, and a visiting professor at the National Taiwan University in Taiwan and Nagoya National University in Japan. Chow was invited to lecture extensively in Tokyo University, Tokyo Metropolitan University, Hitotsubashi University in Tokyo, Meiji Gakuin University in Yokohama, SOAS at the University of London, London School of Economics and several universities in Taiwan and Hong Kong. Chow is specialized in trade and development, with special interest in comparative developments in latecomers of industrialization Asia-Pacific region. His recent research focused on the economic transformation and integration in the Pacific Basin countries, technological transfers and modernization in the late industrialized countries. He served as the Executive Director for the American Association for Chinese Studies, the economics editor of the American Journal for Chinese Studies, and a referee for several professional and academic journals in the world.

In addition to more than 50 journal articles in professional journals, Chow published 10 books. One of his most recent books on *“Mega- Regionalism in Asia Pacific: The Trans Pacific Partnership and the Path to FTAAP”* is coming out in December 2015.

Shadow Banking: Kill It or Save It? Experiences from Taiwan and China
影子銀行：消除它或保存它？來自臺灣和中國的經驗

H.J. Abraham Lin

***Associate Professor of Finance, Brooklyn College of the City University of New* York**

Abstract

Shadow banking is important in financial systems. Its businesses have increased rapidly in the US. It also contributes to the fast economic growth but it also causes high financial risk in China. This paper reviews the literature in the shadow banking and lists it pros and cons. Then the policy implication and a concise history of the shadow banking in Taiwan are discussed. We can learn from the experience of Taiwan and further scrutinize the current policies and regulations in China. Further the paper predicts the future trend according to economic theories and historical events.

The technology-based P2P credit is a new trend of dis-intermediation in both the US and China. The previous waves of dis-intermediation shifted corporate finance from commercial banking to investment banking by issuing stocks and bonds; and this wave of dis-intermediation provides micro-loans to small and medium size enterprises and possibly, will shift firms from commercial banking to shadow banking. The growth rate of the lending club is fast and its transaction fee is low. (See https://www.lendingclub.com/public/about-us.action.) When Chinese government have adopted and imposed the high standard of bank regulation in its banking, will more and more non-bank financial institutions (shadow banks) be created to bypass the regulation? If yes, should we kill them or help them?

If the shadow banking improves its corporate governance, accounting disclosure, and risk management, could it become a solution to current problems in the financial markets? The current financial markets lack liquidity. People blamed the non-bank financial institutions' operations (financial innovations?) are the main cause of the financial meltdown in 2008, while some others respond that good disclosure is the problem, and the financial innovation is not. Any type of government control or intervention will be eventually invalid. Therefore, the ultimate problem of a financial institution is not about its form but about the transparency. For instance, hedge funds had increased the systematic risk before and during the 2008 meltdown because it is opaque in its information disclosure. Once it is transparent and well governed, the systematic risk will be better monitored by the markets and investors are able to evaluate their risks rationally.

The Chinese Financial Zone becomes a possible solution to the problems of regulation. After centralizing small private financial companies and insurance firms and even pawn shops or gold smiths, the regulator or the central bank can supervise and monitor the transactions and operations more effectively. The regulator can also require the P2P online credit clubs or unions to have physical entities in the financial zones. Of course, the supervision is still difficult,

particularly in the supervision over internet loans. Nevertheless, the government-monitored financial zones could at least alleviate the problems in regulation.

Nevertheless, the issues of supervision in China are very serious. We sometimes may use regulation and supervision interchangeably. However, it is important to differentiate them, particularly in China. Supervision means to watch over financial institutions to make sure their operations safe and sound, and complied with the regulation. It is easier to define the rules in China than to supervise/monitor the banking and non-banking financial institutions. When Chinese shadow banks are eager to search for loopholes of regulation and supervision to make money through it, the supervision can never be effective.

When we are talking about "overbanking in Taiwan", please keep in mind that the underground banks in Taiwan still exist. Entrepreneurs in Taiwan still cannot find credits and complain that it is impossible to have start-ups in Taiwan. Therefore, it makes sense to re-think about the further deregulation and re-regulation in Taiwan to improve the efficiency of the use of funding and resources. And a new model of P2P e-banking can be considered when supervision over it becomes possible, and the corporate governance of it is reasonable, and its information disclosure is transparent.

References

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Short Bio of the Presenter

Speaker 主講人

Dr. Hong-Jen Abraham Lin is currently an associate professor and deputy chair of Department of Finance in Brooklyn College of the City University of New York. Lin devotes his research efforts to the issues related to risk management and technology management of insurance and banking firms across nations.His scholarly work has been published in two books and more than ten professional journals. He has been granted research awards by Society of Actuaries and PSC-CUNY.

Big Data Analytic for Business Applications
大數據解析在商務上的應用

Leon Shyue-Liang Wang

Academic Vice President, National University of Kaohsiung, Kaohsiung, Taiwan 81148

Big data and its analysis have been one of revolutionary research topics in recent years. Big data pays a great attention from the various areas, such as academic researches, government, industry, healthcare, finance, business, and eventually the society. These data are generated from the structured data, ex. online transactions, health records, search queries logs, the unstructured data, ex. email, videos, audios, images, mobile data, sensor data, posts, click streams, and semi-structured data, ex. social web sites interactions, scientific data. However, these data are difficult to capture, store, manage, share, and analyze, which use the traditional tools. The characteristics of big data lie in three aspects: (1) data are huge and various, (2) data are not suitable for relational database, (3) data are generated, captured and analyzed rapidly. A major challenge is that the data growth rate exceeds the ability to design a suitable platform for data analysis. So that the cloud computing is one of the solution for enterprises to construct a powerful architecture and perform large scale and complex computing.

To define big data, there are various views of *3Vs* and *4Vs*. The well-known definition of big data is proposed by Gartner in 2012, "Big data are high-volume, high-velocity, and/or high variety information assets that require new forms of processing to enable enhanced decision making, insight discovery and process optimization", which is characterized by three *Vs*: *volume*, *velocity* and *variety*. The *volume* refers to the sizes of datasets, such as the amount of all types of data sources, are huge. The velocity refers to the speed of data transfer, such as in and out. The variety refers to the data types and sources are various, such as the different types of data collected from sensors, IoT devices, social networks, data logs, text, video, and so on, in structured, semi-structured or un-structured format. The 4^{th}*V* is usually extended to veracity which refers to the biases, noises, and abnormality in data.

In this talk, we present real-world examples to demonstrate the wide applications of big data. The first example is that the Netflix Prize used big data to construct the winning algorithms for movie recommendation system. It not only implemented the winning algorithm for accuracy, awareness and diversity to recommend the videos for subscribers, but also construct a new profit-taking business model. The second example is that the 2012 United States presidential election campaign was radically changed by big data analytics. The funding raising and decision making used big data integrating information from the Web, Social networking and others with huge success and winning of the election.

Challenges faced by big data analytics include scalability, data integrity, data transformation, data quality, data heterogeneity, privacy and governance. We need novel technologies and data science teams to face the big data competition. In addition, how to store and handle the increasingly huge scaled data in an appropriate manner is a big issue. The technologies for integrity, cleaning and transformation between different types of data and variation of decision making model under different cultures are also required.

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Short Bio of the Presenter

Speaker 主講人

Leon Shyue-Liang Wang received his Ph.D. from State University of New York at Stony Brook in 1984. From 1984 to 1994, he joined the University of New Haven and New York Institute of Technology as assistant/associate professor. From 1994 to 2002, he joined I-Shou University in Taiwan and served as director of computing center, chairman of information management department, and director of library. From 2003 to 2007, he rejoined NYIT. From 2009 to 2013, he was professor, chairman, and Dean of College of Management at National University of Kaohsiung, Taiwan. From August 2012, he started to serve as Vice President of the University. He is recipient of the 2011-2014, 2014-2017 national flexible wage awards from Ministry of Education in Taiwan, and a Fellow of Institute of Engineering and Technology in UK. He is president of Taiwanese Association of Social Networks and Editor-In-Chief of International Journal of Information Privacy, Security and Integrity. He has published over 200 papers in the areas of data mining, privacy preservation, soft computing, and served PC member and session chair of over120 international conferences.

Session 7

Technology Innovation & Applications

科技創新與應用

CAAPS 2015 Annual Convention
August 15, 2015, Saturday
4:00 PM ~ 5:30 PM, 7th Floor, Gallery Conference Room

召集人 Organizer: Dr. Imin Kao 高一民副院長
Associate Dean, College of Engineering and Applied Sciences, and professor of the Department of Mechanical Engineering at Stony Brook University (SUNY)

召集人 Co-Organizer: Guang-Nan Fanjiang 范姜光男先生
Principal, Weidlinger Associates, Inc.

主持人 Chair: Mr. Stephen Lee 李賢治先生,
Manager, Cleveland Tungsten Inc.

主持人 **Co-Chair: Dr. Frank Hsu** 許德標教授
Clavius Distinguished Professor of Science and Director of the Laboratory of Informatics and Data Mining at Fordham University

Speakers and Topics 主講人及講題:

主講人 **Speaker: Mr. William Yeh, 葉振忠先生, President and CEO of CSI Technology Group.**
講題 Topic: Cloud and mobile computing technology for crime scene investigations & forensic intelligence. 雲端平台上的犯罪現場調查及微物鑑識系統

主講人 **Speaker: Dr. Ya Wang,** 王婭 教授 **, Assistant Professor, Mechanical Engineering, State University of New York, Stony Brook.**
講題 Topic: A Brief Introduction on Energy Harvesting. 能源收集的簡單介绍

主講人**Speaker: Dr.** Nilanjan Chakraborty, Assistant Professor, Mechanical Engineering, State University of New York, Stony Brook.
講題 Topic: Towards Solving Peg-In-a-Hole Problems with Bi-Manual Manipulators.
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Organizer 召集人: Dr. Imin Kao 高一民副院長

is an Associate Dean of the College of Engineering and Applied Sciences, and a professor of the Department of Mechanical Engineering at Stony Brook University (SUNY). He is also the founding Faculty Director of the Information and Technology Studies Undergraduate College (ITS College) – one of the six thematic Undergraduate Colleges at Stony Brook University, established to transform the way in which undergraduate students experience University life. He is responsible for the academic degree programs of CEAS at SUNY Korea in the Republic of Korea (South Korea), a global campus of Stony Brook University. Being the Director of the Systems Engineering and Integration Laboratory (SEIL) at Stony Brook, he conducts research in the areas of Microsystems and MEMS, intelligent fault detection and diagnosis, robotics, intelligent contact interface, stiffness control, wafer manufacturing, and wafer slicing using wiresaw. His research has been supported by NSF, DoE, NASA, and numerous industrial sponsors. Prof. Kao received a B.S. degree from National Chung Hsing University, Taiwan, in 1981 and his M.S. and Ph.D. degrees in Mechanical Engineering from Stanford University, California, in 1986 and 1990, respectively. He served as an Associate Editor of the IEEE Transaction of Robotics and Automation and the International Journal of Advanced Manufacturing Systems. Currently, he is a member of the ROBOMECH Journal Editorial Board. He is a member of the IEEE, the ASME, and the ASEE. In addition, he received various awards of excellence in teaching, including the SUNY Chancellor's Award of Excellence in Teaching. Dr. Kao's Contact Information is imin.kao@stonybrook.edu.

CO-Organizer 召集人: Mr. Guang-Nan Fanjiang

范姜光男先生 Principal of Weidlinger Associates, Inc.

since 1989. Mr. Fanjiang's outstanding leadership and prominence in complex bridge engineering have contributed significantly to the firm's success. Since joining Weidlinger, Mr. Fanjiang has risen to become the Managing Director of firm's prominent bridge engineering practice, as well as suspension and long-span bridges. He has had a significant influence in expanding the firm's complex bridge engineering practice. Since the mid-1990s, he has tripled the firm's business in bridge design.

In 2002, he received an Outstanding Achievement Award in Bridge Engineering from the International Chinese Transportation Professionals Association (ICTPA), and in 2008, he was selected one of the 50 Outstanding Asia American in Business Award. Mr. Fanjiang graduated from the National Taipei University of Technology and received his M.S. in Civil Engineering from Kansas State University. He received an NTUT Outstanding Alumni Award in NTUT 97th Anniversary Ceremony in 2008. He was a speaker in the Engineering and Applications Technical Session at CAAPS 2013 Annual Convention, and is serving as a CAAPS President in 2015.

Chair 主持人 : Mr. Stephen H. C. Lee 李賢治先生 graduated from National Taipei

University of Technology in 1970 and received his M.S. in Chemical Engineering from New Jersey Institute of Technology in 1978. He worked for the Chinese Petroleum Corporation in Taipei as a petroleum engineer from 1971 to 1975. He is currently the Engineering Manager at Cleveland Tungsten Inc. and Cleveland Tungsten (S) PTE. LTD. where he works on tungsten processes development, chemical and powder plant design, tungsten and tungsten carbide powder production and quality control. In addition, he has designed ammonium paratung state plants in China and a tungsten plant in Singapore. Furthermore, he has designed, set up and been in charge of the daily operations of a tungsten and tungsten carbide powder plant in upstate New York. He is a fellow of AIChE and member of ACS, TMS, APMI.

Co-Chair 主持人: Dr. Frank Hsu 許德標博士 is the Clavius Distinguished Professor of Science and director of the Laboratory of informatics and Data Mining at Fordham University. He was chair of the Computer and Information Science dept. and associate dean of the Graduate School of Arts and Sciences. He was a visiting professor at Keio University (as the IBM Chair), JAIST (as the Komatsu Chair), and Taiwan University. Dr. Hsu has received a best paper award from IEEE Advanced Information Networking and Applications (IEEE-AINA'2005) and Brain and Health Informatics Conference (BHI'2013). He received an IBM Faculty Award in 2012. Dr. Hsu is a Fellow of the New York Academy of Sciences (NYAS) and the International Institute of Cognitive Informatics and Cognitive Computing (ICIC). His editorial services have included IEEE Transactions on Computers, Pattern Recognition Letter, Networks, Brain Informatics, and Journal of Interconnection Networks (JOIN) (as Founding Editor and Editor-in-Chief). Dr. Hsu is chair of the New York Chapter of the IEEE Computational Intelligence Society, on AdCom of the IEEE New York Section, and a member of the IEEE Biometric Council. He served CAAPS on Board of Directors 2009-2014.

Cloud and Mobile Computing Technology for

Crime Scene Investigations & Forensic Intelligence

雲端平台上的犯罪現場調查及微物鑑識系統

William Yeh, President and CEO CSI Technology Group

CSI Technology Group (CSI), has been developing cutting edge, total solutions for law enforcement agencies that protect the public. From the initial Call for Service (CFS) to the court's final disposition. The firm's integrated InfoShare™ products help manage and process almost every aspect of any incident, from a minor burglary to a major disaster. This presentation will focus on the latest product to support efficiency and accuracy in gathering and analyzing crime scene forensics.

A total crime scene toolkit that will revolutionize the entire crime scene investigation process will be presented. This toolkit has been developed with the collaboration with Dr. Henry Lee, world renowned forensic scientist known for his contributions to many famous cases. This portable, high-performance crime scene toolkit will be a ready-to-go, complete kit to take to any crime scene investigation. It will guide investigators through Dr. Lee's perfected forensic protocols, while also enforcing the agency's own standard operating procedures. When finalized, using the toolkit's advanced technology for forensic analysis will be like having Dr. Lee himself guiding your investigative team!

This presentation will highlight how technology can be used to augment the entire investigative process and discuss some of the key features which will be included in its mobile platform:

- Maps and dashboards for all participants in the investigation, guiding them according to Dr. Lee's expert system for crime scene reconstruction and investigation.
- Incorporation of Standard Operating Procedures (SOP's) to ensure all potential evidence is properly preserved and collected
- Camera/Video/GPS: all part of the application so there is no searching for extra equipment when an emergency arises.
- 3D motion and depth sensing can be captured by the investigator automatically just by walking around the crime scene with their laptop/notebook.
- Using cloud technology, a live sync to the "forensic lab" will enable analysis and comparison to compare blood spatter, DNA, ballistics, fingerprints, footprints and more, and begin the process immediately.
- Total integration of case management for investigations, intelligence, major incident management and other criminal justice modules.

The toolkit utilizes cloud technology for secure, digital storage, combined with the capability of immediate data retrieval for data analysis, presentation and reporting. CSI Technology Group has been exploiting the capabilities of secure, cloud technology to enhance all of its case management and law enforcement products and increase their functionality, portability and ease of support by government agencies.

主講人 **Speaker: William Yeh** 葉振忠先生 founded CSI Technology Group in 1990 and continues to serve as President and CEO. He has led the operations and strategic direction of his company to realize his vision of offering superior information technology to public safety and other government agencies, increasing their capacity to serve and protect their citizens. Mr. Yeh has partnered with forensic experts, including the world-renowned Dr. Henry Lee, law enforcement leaders and legal scholars to develop solutions that help his customers fully utilize and share critical information across horizontal and vertical boundaries at all levels of government. He contributes to law enforcement technology forums and associations and brings the latest advances in technology, data sharing, communication and analysis to his clients. "Our goal is to make society safer," he explains, as he continues to guide CSI to be a company that makes a difference in public safety and government services.

William Yeh holds a BS in Chemical Engineering from the National Taipei University of Technology and an MS in Engineering from the New Jersey Institute of Technology. He is a past chairman of Monte Jade Science and Technology Association (East Coast) and has served as a board member for the Telecommunications Advisory Committee of the Ministry of Transportation and Communications in Taiwan.

Brief Introduction on Energy Harvesting

能源收集的簡單介绍

Ya Wang 王婭, Ph.D.

Assistant Professor, Mechanical Engineering, State University of New York, Stony Brook

This talk introduces the basics of energy harvesting using smart materials. These principles are illustrated through several applications of harvesting energy from a shock event [1], human walking, wind, ocean wave, UVA vibrations [2] and magnetic field changes. The harvested energy can be used to power low-energy-consumption electronics, such as implanted medical devices (pacemaker) and on-board sensors/actuators. Special attention is given to scientific issues not well studied and addressed in the literature, in terms of nanofabrication, electromechanical modeling. The engineering challenges and potential research opportunities are discussed.

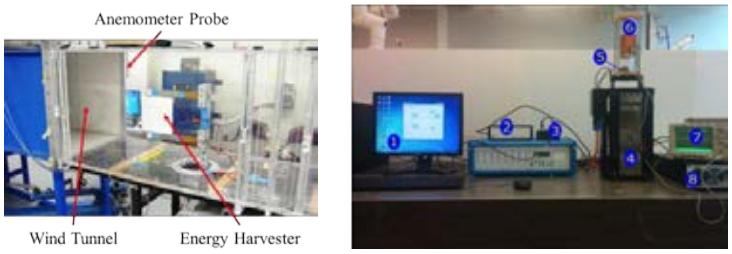

Figure 1. Energy Harvesting Prototypes

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Dr. Ya Wang is an Assistant Professor of Mechanical Engineering, Stony Brook University (2013 - date). Before then, she was a Postdoc Research fellow in Aerospace Engineering, University of Michigan (2012 - 2013). She received her Ph.D. (2007 – 2012) in Mechanical Engineering from Virginia Tech under the supervision of Clarence “Kelly” Johnson Professor, Dan Inman, from the University of Michigan. Dr. Wang is active in research involving smart materials and structures as applied to sensing, energy harvesting and vibration control. Her latest research interests focus on nanoparticle synthesis, characterization for bio-sensing and cancer treatment. She is currently leading several projects sponsored by DOE, ONR, DOT, NY State and Long Island companies. She has authored 1 book chapter, 14 journal papers and 24 proceeding papers.

Towards Solving Peg-In-A -Hole Problems With Bi-Manual Manipulators

Nilanjan Chakraborty, PhD

Stony Brook University, Stony Brook, NY 11790, USA. Email: nilanjan.chakraborty@stonybrook.edu

In this talk we present solutions to a fundamental capability that robots with two arms (bi-manual manipulators) must possess to ensure its widespread application in industrial assembly operations and service applications, namely, the capability to solve peg-in-a-hole problems.

1. Introduction: Peg-in-a-hole problem is a fundamental problem that arises in many application scenarios ranging from industrial assembly to domestic service robotics. In peg-in-a-hole problems two parts with conforming geometry has to be mated. For example, in industrial operations, a robot capable of putting a gear onto a shaft or a washer onto a bolt has to solve a peg-in-a-hole problem. Similarly, in service robotics, a domestic helper robot capable of assembling a furniture or plug-in a coffee-grinder into an extension cord, needs to solve a peg-in-a-hole problem multiple times. Peg-in-hole problem has been studied widely in an industrial setting [1]. Usually in assembly operations to solve peg-in-a-hole problem, it is assumed that either the peg or the hole is immobilized by the use of fixtures. The task of the robot is to insert the other part (say peg) and the fixturing ensures that the hole does not move when force is applied by the peg against the hole during assembly. Movement of the hole may cause an unsuccessful assembly. However fixturing is not an option for using robots in domestic environments, and furthermore, for products with small life cycles fixturing is not a commercially viable option. In such cases, using a robotic system with two arms may be a viable alternative, where one arm is used to hold a part (peg or hole) and the other arm is used to insert the part. Thus for dual-handed assembly none of the parts are fixed and can move when one part comes in contact with other part. Furthermore, the part and holes can be of different sizes and shapes and the robot should be capable of handling them gracefully. Thus, devices like remote centered compliance (RCC) devices that are usually used in industrial peg-in-a-hole systems when the peg of same diameter has to be inserted in the hole of same diameter many times are not useful for these applications. To use dual handed (or bimanual) robots in either assembly or in service robotics, robots need to have the capability of solving different types of peg-in-a-hole problems quickly and robustly. In this paper we present solutions for peg-in-a-hole problems for bi-manual robots in the presence of sensing uncertainty about the configuration of the peg.

2. Proposed Solution: We will first introduce and categorize the different types of peg-in-a-hole problems that are commonly seen in domestic and assembly environments. This is because the conditions for successful assembly are highly dependent on the part geometry, the part sizes, and the difference between the dimensions of the mating parts (or the clearance between peg and hole). Our solution to the peg-in-a-hole problem consists of two phases: (a) Computing control laws for the robot manipulator joints to bring a peg *near* a hole (*approach control problem*) (b) Computing control laws for the robot joints to ensure that there is successful assembly between the peg and the hole (*insertion control problem*). The approach control problem ensures that the relative configuration of the peg and the hole is such that the peg does not miss the hole completely when the peg touches the part containing the hole. The reason for dividing the problem into an approach control problem and the insertion control problem is that it is well known that if the peg and the hole are not within a set of relative configurations, then insertion will not be successful due to *jamming* or *wedging* of the peg in the hole [1]. In the presence of uncertainty about sensing the configuration of the peg and the hole the problems get exacerbated. We will discuss our solution to the approach problem that takes into consideration the sensing uncertainty and proposes a

solution that minimizes the uncertainty along the direction of relative motion during insertion. We will also discuss our model predictive approach to control the manipulator arms during insertion in the presence of intermittent contact between the peg and the hole. This will build on our motion planning approach in [2]. Simulation results that demonstrate our approach will be presented.

References:

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主講人 **Speaker:** Nilanjan Chakraborty is currently an Assistant Professor of Mechanical Engineering at Stony Brook University. He also worked as a Project Scientist and a post-doctoral fellow at the Robotics Institute, Carnegie Mellon University, Pittsburgh, PA. He received the B.E. degree in mechanical engineering from Jalpaiguri Government Engineering College, Jalpaiguri, India, the M.Sc.(Engg.) degree from the Department of Mechanical Engineering, Indian Institute of Science, Bangalore and the Ph.D. degree from the Department of Computer Science, Rensselaer Polytechnic Institute, Troy, NY. He has won the best paper award at the Annual Proceedings of the Human Factors and Ergonomics Society (HFES) in 2013, and the best student paper award at Robotics: Science and Systems (RSS) in 2007. His research focuses on robot motion planning and control, multibody dynamics, multirobot (multiagent) coordination, and human interaction with multirobot systems.

Session 8
Urban Planning and Transportation

CAAPS 2015 40th Annual Convention
August 15, Saturday, 2015
4:00 – 5:30 PM, 7th Floor, Topaz Conference Room

召集人 **Organizer: Jerry S. Y. Cheng** 鄭向元
Retired Principal City Planner, NYC Dept. of City Planning.

召集人 **Co-Organizer: Jack Chung-Kuo Chiang, Ph.D., P.E.** 蔣忠國
Consultant Manager, New York State Dept. of Transportation, New York City Region.

主持人 **Chair: Steven I-Jay Chien, Ph.D.** 錢一之
Professor, Director, Transportation Program, Dept. of Civil & Environmental Engineering.
New Jersey Institute of Technology.

Speakers and Topics:

主講人 **Speaker: Peter Lai**, P.E., CEO & President – VP International Limited, USA.
Adjunct Professor, New Jersey Institute of Technology.
Project Director & VP – WSP/Parsons Brinckerhoff (Asia) Ltd, China.
講題 Topic: "Balancing Urban Transportation Supplies and Demand - Consideration from Customer Perspective".

主講人 **Speaker**: **Buckley Yung,** AICP
Director, Bus Service Planning, MTA New York City Transit.
講題 Topic: "New York City Bus Rapid Transit Program – Select Bus Service".

主講人 **Speaker: Yi-Chang Chiu**, Ph.D.

Associate Professor, Department of Civil Engineering and Engineering Mechanics, University of Arizona, Tucson, USA, chiu@email.arizona.edu

Founder, Metropia Inc. Tucson, USA, yc.chiu@metropia.com
講題 Topic: "Mobility Ecosystem – Personalized Mobility Options Discovery and Behavior Change"

召集人 **Organizer**: **Jerry S.Y. Cheng** 鄭向元 With over 37 years of experience in city planning and urban transportation planning, Mr. Jerry Cheng was a Principal City Planner with the Transportation Division of the New York City Department of City Planning when he retired in October 2008.

Since 1971, he has managed more than 30 major planning studies for New York City, such as the Midtown Circulation and Surface Transit Study, the Lower Manhattan Transportation Management Study, the Express Bus Route Policy Study, the Commuter Van Service Policy Study and the Far West Midtown Transportation Study, Chelsea Transportation Study and Jamaica Transportation Study. He was the Deputy Director of the Transportation Division of New York City Department of City Planning between 1991 and 1996.

Since 1982, Mr. Cheng has frequently been invited to provide assistance for the transportation development in Taiwan and Mainland China. In 1982, at the request of Taipei Mayor Teng-Hiu Lee, Mr. Cheng was officially lent by New York City Mayor Edward Koch to assist with Taipei City's transportation problems. From 1987 to 1988, he was the Science and Technology Advisor to the Ministry of Communication and Transportation, ROC. In addition to being an invited consultant to Taipei County and Kaohsiung City between 1983 and 1984, Mr. Cheng was also the advisor to the Department of Mass Rapid Transit of Kaohsiung City (1992 to 1993), the Bureau of Taiwan High Speed Rail (2001) and the City government of Taipei (1999 to present). He has also provided assistance to Shanghai City Comprehensive Transportation Planning Institute, Kunming Urban Planning and Design Institute and Shenzhen Urban Transport Planning Center in Mainland China.

Mr. Cheng earned his B.S. in Civil Engineering from Cheng Kung University (1966) and M.S. in City and Regional Planning from Culture University (1968) in Taiwan. He also earned a M.S. in Urban Planning at Columbia University (1971) and a M.S. in Transportation Planning and Engineering at Polytechnic University (1982) in New York. At Polytechnic University, he completed his Ph.D. course work requirements for Transportation Planning and Engineering and passed the qualifying exam in 1987.

召集人 **Co- Organizer: Dr. Jack Chiang, 蔣忠國博士** Ph.D., P.E. was born in Taipei, Taiwan, ROC. He received his M.S. and Ph.D. degrees in Transportation Planning and Engineering from New York University Polytechnic School of Engineering (NYU-Poly). Earlier, he graduated from National Taipei University of Technology (NTUT), National Taiwan University of Science and Technology (NTUST) and received a Master degree from the Institute of Traffic and Transportation of National Chiao-Tung University (NCTU). Dr. Chiang

is a Licensed Professional Engineer, P.E., in States of New York, New Jersey, Pennsylvania, Connecticut, and Massachusetts. He served as an Adjunct Professor with State University of New York, (SUNY), Old Westbury Campus, Continuing Education Program for developing its PE program.

Dr. Chiang has been working with New York State Department of Transportation, NYC Region's Planning and Development Group over twenty years, he is currently a Consultant Manager and Project Developer. Earlier, he worked for Parsons Brinckerhoff (PB) Consultant firm in the PB's New York City Civil/Highways Department as a Supervision Engineer and Professional Associate.

Dr. Chiang is a Board of Director of CAAPS (Chinese American Academic & Professional Society) and Board of Director of ICTPA/USNE (International Chinese Transportation Professionals Association, US Eastern Chapter). He was the former President of NTUT Alumni Association in Greater New York, and is current is Vice-President of ICTPA/USNE. Dr. Chiang served as Vice President of CAAPS in 2015, 2012, 2011 and 2010, he was actively participated as a Session Organizer, Chair and Speakers for CAAPS Technical Programs from 2010 to 2014. Due to his dedicated services, he received Service Awards from NTUT Alumni Association in Greater New York in 1998, 1999, 2000, an Outstanding Professional Award from ICTPA/USNE in 2011, and a CAAPS Service Award in 2014. Dr. Chiang is a life member of CAAPS.

主持人 Chair: Dr. Steven Chien 錢一之博士， Director and Professor of Transportation Program, Department of Civil & Environmental Engineering, New Jersey Institute of Technology, holds a Ph.D. degree from the University of Maryland at College Park. Before his appointment at NJIT, Dr. Chien has worked in the transportation industry for many years. Since 1996, Dr. Chien has supervised more than 60 research grants sponsored by public and private sectors. His total research dollars to date have exceeded US$14 million dollars.

Dr. Chien also holds other academic standings overseas. He served as a Distinguished Scholar, Visiting Professor at National Cheng Kung University, Taiwan. Dr. Chien has served as a Distinguish Visiting Professor at Chang'an University in China, at which he has received the Research Excellence Award in Sustainable Transportation and Infrastructure. In 2012, he was appointed as an Honorary International Chair Professor at the National Taipei University of Technology, Taiwan. Dr. Chien has authored and co-authored more than 200 articles which have been published in journals and conferences symposia proceedings. He currently serves in the editorial board for the Journal of Enterprise Information Management and the Journal of Traffic and Transportation Engineering, and the Associate Editor for the Journal of Advanced Transportation.

"Balancing Urban Transportation Supplies and Demand - Consideration from a Customer Perspective"

Peter Lai
CEO & President – VP International Ltd. USA

Urban cities around the world are busy finding ways to manage traffic congestion that increasingly reduces the quality of life and productivity of the city. Many governments of developed countries had already learned that building your way out of congestion is totally cost ineffective and counterproductive, and is certainly not a recommended long-term strategy for congestion management. Therefore, transportation professionals including both planners and engineers are calling the attention of the policymakers to focus on the integration of land use and transportation as an effective mean to manage congestion, as well as facility design that encourages the use of non-motorized transportation modes.

While coordinated land use planning can certainly help to enhance the movements of people and goods for the two primary modes of transportation - automobiles and public transport; this presentation will first introduce the concept of Transit Oriented Development (TOD) and the principles for successful development around stations/terminals. Implementation of TOD will help to improve the market share of public transportation services and thereby reduce the demand on highway facilities.

The presentation also introduces another system element that can further reduce travel demand on automobiles; the "Smart Streets / Complete Streets" design concept emphasizes the "equal rights" of all forms of non-motorized travel modes, and stresses that consideration must be given to non-motorized modes in the design of highway facility.

While we fully understand that none of the above mentioned concepts can be the "silver bullet" solution in the battle of urban congestion, however, combining the effectiveness of these people-oriented approach with all other system-based solutions will at a minimum, help to slow down the pace of congestion in our urban systems.

Introduction:

In order to gain a better understanding on the concept in integrating land use and transportation, it would be helpful to begin with the big picture that describes the relationship among the five major elements in urban development and transportation. As illustrated in Figure 1 below, new land developments will attract and/or produce new social activities to the location, and these extra activities will generate additional travel demand; as travel demand increase so will the needs for more transportation systems and services to accommodate the demand. With the support and implementation of new or improved transportation systems and services, additional economic growth will be induced, which in turn, would simulate the market for more land development.

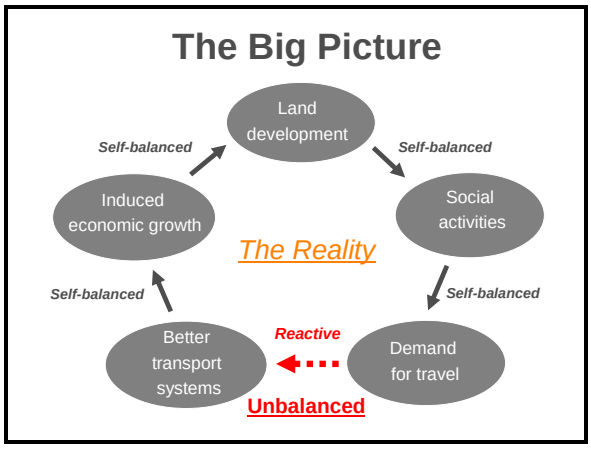

Figure 1. The big picture in land use and transportation

Under an ideal condition, the above hypothesis would interact perfectly as the development cycle continues its course, however in reality; the outcomes are not exactly as expected because not all of the relationships between these elements are self-balanced and self-adjusted. For examples, the interaction between land development and social activities is self-balanced such that the amounts of new activities is a function of the new developments added; However, it will not be the case for travel demand and transportation systems because the increasing in travel demand will not automatically triggered the capacity increasing in transportation systems and services. In fact, the relationship between these two elements is always in an unbalanced and reactive nature. This condition helps to explain the reason why congestion continues to come back no matter how much transportation investments are committed.

In order to balance the transportation demand and supply relationship, considerable amounts of investments will be necessary, while these investments constitute in various types and forms, there are certain areas of commitment that are very important, they include:

- Planning visions – how well we anticipate the future and how appropriate we prepare for them
- Land and right-of-way – this is the basic requirement for any kind of transportation system expansions or in some cases for service enhancements as well
- Financial resources – stable financial commitment would be required for planning, design, implementation and operation of the needed projects
- Political determination – ability to make the appropriate political decisions and the commitments to standby the transportation policies are very critical
- Public acceptance – to obtain the support from the general public on transportation policies and projects is perhaps the most challenging and crucial parts of the mission

Another critical element is the development of an integrated planning approach to ensure that the transportation investments are spent effectively. Traditionally, the planning approach taken was single-mode and single focus in nature, and it typically produced individual stand-alone plans and reports, such as land use plans, highway development plans, public transportation plans, freight plans, etc.

As the nature of the transportation market changes over time, a new innovative planning approach has quickly earned the recognition as the better and more efficient approach under the modern day environment. In contrast to the traditional approach, the innovative approach is multiple-focus and produces integrated and coordinated multi-modal plans. Some example products include integrated land use and transportation plans, regional intermodal plans, and corridor management plans.

One of the most challenging elements in taking the new approach is the requirement of significant cooperation and partnership from all stakeholders, in particular, the public agencies that responsible for various components of the transportation systems.

主講人 **Speaker: Peter Lai**, CEO & President of VP International Limited, USA, is a civil/transportation engineer with 40+ years of international experience in the public and private sectors. In addition to his own consultancy services, he services as project director (China Region) for WSP/Parsons Brinckerhoff, an international consultant firm with 30,000 professional staffs worldwide. Peter is specializing in transportation policy planning, planning and design of transportation systems, and has been responsible for many significant projects in US, China and the Asia region - including over 200 toll roads in Asia.

Peter has accumulated a wealth of knowledge from his international assignments particularly from Asia, where his appreciations of local culture and traditions coupled with his ability to communicate ideas with global clients, had brought him many successes in building client relationship, advising private and public clients on complex projects, and leading the governments in public consultation and involvement efforts on transport projects with regional significance such as LRT and grade-separated highway networks.

Peter is very active in the transportation professional arena; in addition to the capacity as immediate past presidents for International Chinese Transportation Professionals Association (ICTPA), he is also a founding member and past council member of the ITS-Hong Kong, a fellow of Hong Kong Institution of Highway and Transportation, member of Hong Kong Institution of Engineers (HKIE), as well as an advisor to the Macau Institution of Engineer (MIE).

Peter has a long-term relationship with the New York Polytechnic University (now part of the New York University) where he earned his BS in civil engineering, MS in structural engineering, MS in transportation planning and engineering, and a post-master Degree of Engineer in transportation planning & engineering.

“New York City Bus Rapid Transit Program – Select Bus Service”

Buckley Yung
MTA New York City Transit

In 2004, MTA New York City Transit (NYCT), the New York City Department of Transportation (NYCDOT), and the New York State Department of Transportation (NYSDOT) began a joint study of how Bus Rapid Transit (BRT) could be implemented in New York City on high bus ridership corridors throughout the city. These BRT routes are branded as **Select Bus Service** (SBS).

A key element of the success of these projects has been the continued partnership between NYCT and NYCDOT. NYCT is a division of the New York State Metropolitan Transportation Authority (MTA), which is the largest public transit system in North America. NYCT operates the subways and buses in New York City, carrying 5.2 million subway trips and 2.7 million bus trips daily. NYCDOT operates the city’s street network, including over 12,000 traffic signals and 19,000 roadway lane miles. Improving surface transportation requires extensive cooperation between these agencies, as both bus operations and street design changes must work together to achieve project outcomes. NYCT and NYCDOT work very closely together at both staff and executive levels to ensure that all of the SBS projects achieve success.

A total of 8 routes have been implemented since 2008. New York City’s BRT program consists of several features to improve bus performance, including off-board fare collection, bus lanes, transit signal priority, street geometry redesign, and new branding. Each of the projects implemented to date has seen substantial success, in terms of travel time improvements in (15-23% faster), higher ridership (5-10%), as well as high public satisfaction rates. In 2015, three routes are planned to be implemented. This presentation will outline the features and process towards their implementation.

主講人 **Speaker: Buckley Yung, AICP**, is the Director of Bus Service Planning in MTA New York City Transit. After receiving his Masters in City Planning from the Massachusetts Institute of Technology, Buckley began his work in the public sector at the New York City Department of City Planning, where he was a Transportation Planner. He has also served as a planner for the New York City Housing Authority. Buckley now works as Director of Bus Service Planning for New York City Transit where he oversees 230 bus routes as well as the Bus Rapid Transit program.

"Mobility Ecosystem - Personalized Mobility Options Discovery and Behavior Change"

Yi-Chang Chiu, PhD.

Associate Professor, Department of Civil Engineering and Engineering Mechanics, University of Arizona, Tucson, USA, chiu@email.arizona.edu

Founder, Metropia Inc. Tucson, USA, yc.chiu@metropia.com

This presentation starts from offering historical perspectives on the developments of urban transportation systems in the United States since 1950s, then discusses the rise of social media, open Data, and shared-mobility focusing on four trends: (1) pervasive mobile computing and user attachment to smartphone, (2) expanded funding opportunities, (3) changing mindset and lifestyle of young Americans (Millennials[1]), and (4) downtown revitalization.

It becomes clear that the GPS-enabled smartphone-delivered shared-mobility services have made it much easier for commuters to discover and utilize on-demand mobility options ubiquitously. Owning and driving the same car each day is perhaps no longer the most economical and attractive commuting option particularly for those who have chosen to live and work in an area where a range of options are affordably accessible at their fingertips through various smartphone App services.

The key differentiator between these emerging transportation services and the traditional government established traveler information/services is "personalized signaling". More and more people spend time on social media, trusting Facebook or Google+ enough that they allow these companies to collect and analyze personal data with the hope of receiving a more convenient or better service. The rise of cloud storage like Dropbox or Google Drive means people are used to let private companies serve as the steward for their private data. As a result, these providers are able to deliver personalized services which are timely and contextually

[1] Those who were born between 1983 and 2000.

relevant. Used to such experience, users become much less interested in generic traveler information traditionally posted on websites, dynamic message signs, or highway advisory radios. In one of our recent studies, it was found that 90% of users signed the consent form to share detailed trajectories data with the sponsor agency because it was clearly communicated with users how their data would be used to contribute to helping the agency make more informed decisions and operate more efficiently.

Transportation agencies need to play an active role in this new game, rather than being a spectator or being pushed to react to political pressure or constituents' request without having a game plan. A city official raised several legitimate questions that underscore the need for active participation of agencies. First, the technology space has become rather fluid and fragmented, and it may not be realistic to expect the market to reach equilibrium, if it ever will reach equilibrium. What if the fragmentation and volatility causes harm to our citizens? Our role is to protect our citizens, but how do we ensure we play that role effectively? What if Uber practices their business so aggressively that they cause excessive amounts of Uber cars to start running around, causing increased VMT and emission, or induced demand, to the point of offsetting the benefit brought by increased occupancy? Should cities determine and regulate the optimal number of Uber vehicles or let the market naturally reach equilibrium if equilibrium exists?

There is no easy answer to these questions, but asking these questions means an active participation mindset. The bottom line is that no company but the agency would adhere to the mission to act on behalf of the entire city's residents and taking actions to drive a better city to live in. Taking an active role in this

The new opportunities lie in the creation of the Mobility Ecosystem recognizing and solving the congestion problem. This requires the participation of all community stakeholders, including commuters, agencies, employers, and merchants/vendors. The crux of the strategy is to quantify total improvements and its demand-supply side contribution elements and respective costs and benefits. These incremental improvement strategies could be implemented by the cities or other private-sector partners through customizing the Mobility Ecosystem platform to tailor for unique localities.

The well-known economics theory "Tragedy of the Commons" (Hardin 1968) underscores the phenomenon that if all act purely based on self-interest, then the commonly shared resources will no longer be sufficient to sustain the need of the population in the long run. The notion of induced demand in transportation is linked to this theory in that when the level-of-service (LOS) is improved and more capacity (common resource) is made available, people start to consume that resource (induced demand) at their pleasure, causing same congestion but more externality costs (VMT and emissions).

Wardrop's theory also points out that in order to reach system optimal (SO) from user equilibrium (UE), some users need to take a longer route than others. Evidence has shown that our existing transportation system is so inefficient that we are not even close to UE; therefore continuing to deliver services to improve personal efficiency will lead to overall system efficiency improvement toward UE. Although I support this viewpoint, I would also argue that reaching UE first, then SO should not be the paradigm we all shoot for. While we are delivering the next generation transportation services and management framework, we should leapfrog and directly aim for SO by simultaneously improving personal and system efficiency through

proper compensation/rewards for those who are willing to take action toward system goals. The rewards could be a combination of extrinsic and intrinsic rewards that may or may not cost much. We have many tools because we know humans are motivated by several drivers – arousal, passion, incentives and morality – they all are part of our toolbox for social change and system management.

主講人Speaker: Dr. Yi-Chang Chiu is an Associate Professor at the Department of Civil Engineering and Engineering Mechanics at the University of Arizona (UA) and founder of Metropia, Inc. with a doctoral degree in transportation engineering from the University of Texas at Austin in 2002, MS degree in transportation engineering from Institute of Traffic and Transportation at National Chiao-Tung University in 1994 and BS in civil engineering from National Taiwan University in 1992.

Dr. Chiu's research has been supported by the National Science Foundation (NSF), Federal Highway Administration (FHWA), Oak Ridge National Laboratory (ORNL), USDOT and more than 30 DOT and MPO in the U.S. Dr. Chiu has delivered over 100 presentations and technical publications to national/international conferences and refereed journals such as ASCE Journal of Urban Planning and Development, Transportation Research Board, Journal of Transportation Research Board, IIE Transactions, IEEE Transaction on Intelligent Transportation Systems, Transportation Science, Transportation Research Part B, C, D, and E, and Journal of Infrastructure Systems. Dr. Chiu is current the committee member for TRB ADB30 Transportation Network Modeling, ANB80T Emergency Evacuation Task Force, subtask vice chair for the ITE Intelligent Traffic Signal Operations Committee, and the associate editor for International Journal of Transportation Science and Technology, and editorial board member for the ASCE Journal of Urban Planning and Development.

Dr. Chiu has also been the principal developer and consultant to FHWA on the Dynamic Traffic Assignment (DTA) program and has served as domain expert in more than 20 expert panel meetings for various FHWA offices such as Operation, Planning, Safety, and RITA programs such as Integrated Corridor Management (ICM), Dynamic Mobility Application (DMA), and Active Traffic Demand Management (ATDM). One of the landmark models from Dr. Chiu's research career is DynusT a large-scale open source DTA model currently used by more than 1000 users internationally.

Dr. Chiu's recent leadership in developing Metropia, a commuter incentive technology, marks a revolutionary approach to ATDM and is being adopted by major U.S. cities. Metropia utilizes real-time traffic and incident data and advanced traffic prediction and incentive algorithms to predict future traffic condition and to use dynamically adjusted incentive as the mechanism to shift demand to less congested times, routes, and modes.

Entertainment Program

節目表

9:30～11:00 PM

Master of Ceremony 主持人 Jennifer Lin 林映君女士

Chorus 來音合唱團 王惠津老師指揮 • 吳同良團長

校園民歌組曲

Chorus 海天合唱團 蕭壁珠老師指揮 • 薛純陽團長

守著陽光 守著你　古月照今塵　明天會更好

Chamber Music 古典樂四重奏

Piano 鋼琴：Kelly Lin 林雨潔
Violin 小提琴：Willy Wei 魏靖儀
Viola 中提琴：Andy Lin 林維洋
Cello 大提琴：Nan-Cheng Chen 陳南呈

Mozart Piano Quartet in g minor 莫札特鋼琴四重奏G小調 Section 1
Astor Piazzolla -- Libertango

Unchained Melody 懷念旋律 Part I Hsing-Lih Chou 周興立老師

思慕的人　望春風

Broadway Opera百老匯歌劇 Tony Wu 吳同良

Memory (from the Cats)

Chamber Music 古典樂四重奏

Piano 鋼琴：Kelly Lin 林雨潔
Violin 小提琴：Willy Wei 魏靖儀
Viola 中提琴：Andy Lin 林維洋
Cello 大提琴：Nan-Cheng Chen 陳南呈

Mozart Piano Quartet in g minor 莫札特鋼琴四重奏G小調 Section 2

Unchained Melody 懷念旋律 Part II Hsing-Lih Chou 周興立老師

More than I can say　O'Sole Miro

Dance 空小舞蹈團 Kity Ho 謝翠萍團長

Air Force One 空中一號

美東華人學術聯誼會

Chinese American Academic & Professional Society (CAAPS)

www.caaps.us

CAAPS 歷史沿革

美東華人學術聯誼會四十周年光輝史紀

（本光輝史紀1975至1986年部分由龔選舞編寫，1987至2009年部分由林友直增編，2010至2014年部分由編輯委員會增編。）

美東華人學術聯誼會成立迄今已四十周年，歷經各負責人及會員本著立會宗旨，胼守胝足，辛勤耕耘，本會之組織已相當完善，規模亦日趨宏大，並先後成立了分會，在海外社團歷史上有輝煌與燦爛之一頁。值此本會成立四十週年之際，謹以此文回顧本會之歷史及發展，與會員共勉，以精益求精，更進一步。

本會成立之目的在促進學術上之研究及文化上之發展，砥礪學行，敦睦友誼，其要旨有三：(一) 促進會員在學術及專業方面之活動、合作及聯誼。(二) 鼓勵會員間交流，加強及應用其技術專長，以期增進科學知識與人生意義。(三) 促進在美華人與其他種族及他處華人社會間之瞭解與聯繫。三十八年來，會眾遵此推行會務，所有職務均由熱心人士於公餘之暇義務擔任，期間並蒙各界人士支援協助，使本會得以壯大成長。目前本會組織上有董事會作政策上之決定，並負責選舉會長、董事事宜；由理事會執行會務；會員均為學術界、專業人士，多分布於各大學及企業界研究發展部門。

一九七四 ~ 一九七五：

基於"海內存知已，天涯若比鄰"的民族思維與同胞愛,在美東地區的海外華人於一九七四年五月在紐澤西決心成立一個以華人為中心的學術團體，而發起成立了籌備委員會，公推李宗正為召集人，林國本、黃世璋、熊玠、姜孟餘等為副召集人。在籌備會的號召與努力下，獲得美東各地華人學者的共鳴，熱烈響應加入。於一九七五年十一月在紐約市紅樓餐廳成立「美東華人學術聯誼會」，並投票選出李宗正為首任會長，同時成立了三個學術研討委員會: 財稅與貿易、科技與工業、文化與教育。理事會並通過每年召開年會一次，學術研討會一次或数次。並決定本會全體負責人皆為義務奉獻，依章程輪流服務。

一九七六 ~ 一九七七：

本會於一九七六年十二月四日，在紐約希爾頓大飯店舉辦首次年會與學術研討會。邀請了中華民國經濟部孫運璿部長與救國團李煥主任為大會貴賓，並在有六百餘人出席的晚宴中向大會作專題演講，除了介紹國家经濟起飛，工業創新之外，並呼籲

學人返國發展高科技工業。第二屆理事會成員由選舉產生十二位理事，於一九七七年四月接任一年，由李宗正擔任理事長。會務則由林國本會長及童世綱副會長推動。至該年八月，林會長因工作關係無法再擔任會長，而選出崔岦為會長，谷家泰為副會長。第二屆年會於一九七七年十二月十七日於聖若望大學舉行，出版年會刊物並致贈成就獎給薛光前、雷震遠、童世綱、余南庚。

一九七八：

本年度在會務組織上有重大改變：理事會改用董事會的名稱，功能是政策性之決定，由李宗正任主席，而會務執行則由理事會負責。是年會長由錢煦榮任，副會長由陳大威榮任。第三屆年會於十二月十六日在比特摩旅館，出版了中文年刊，並頒特別榮譽獎給李煥、王惕吾、梁敬錞及林同棪。

一九七九 ~ 一九八一：

第四任會長由嚴雋森獲選，董事會主席〈董事長〉由錢煦榮任。一九八 0 年，第五任會長由嚴雋森連任，董事長由錢煦連任。年會於十月十一至十三於比特摩旅館舉行。一九八一年, 第六任會長由曾燕山榮任，副會長為周肇基、李慶華。董事長由錢煦連任。年會於十一月十四、十五日於史特摩旅館舉行，討論內容有中美關係、美國經濟、西洋畫及資訊科學與技術等。年會出席人數已達數百，此後每年年會均有數百人出席。

一九八二：

本屆會長由全泰勳榮任，副會長由朱榮慶、傅萍榮任。是年會員已達四百。董事會由錢煦任董事長。該年度之活動包括許多次座談會及研討會。十一月二十至二十一日於史特勒旅館舉行第七屆年會，並由陳琅予主編厚達兩百三十頁的年刊，是屆年會討論內容以電腦、資訊、環境衛生科學為主。

一九八三：

第八屆會長由虞華年榮任，副會長為劉兆寧。董事長為錢煦，該屆年會於十一月四、五日在潘達旅館舉行，分個人電腦、文藝、教育及畫展四個項目舉行。晚宴中致贈學術成就獎給厲鼎毅、余英時；服務獎給傅萍、熊玠、崔岦及全泰勳。

一九八四：

第九屆會長由虞華年連任，副會長為劉兆寧、呂仲濂、粟慶雄。董事長仍由錢煦擔任。由於多年來本會在多位負責人領導下，已一切進入軌道，故明訂董事任期之時機已成熟，乃修改會章，明訂董事任期為三年，每年更換三分之一董事，即十五位董事中，每年改選五位。是年有五位董事自願於八三底任滿退職，新規定乃於八四年開始實施至今。為提供會員間溝通之園地及報導會務，是年決定正式出版通訊。第一期八版的中文鉛印「美東華人學術聯誼會通訊」由粟慶雄、陳琅予主編，於八四年九月十五日出版。這份通訊一直出版至今，頗具學術水準，並保持了最完整的本會活動及成長之紀錄。本年度七月第一屆北美華人學術研討會於洛杉磯舉行。本

會參與了籌備工作，並有多位代表出席。本屆年會於十一月十七日在潘達旅館舉行，內容有遺傳工程、管理技術、食品科學、經濟等，晚宴時致贈成就獎給丁肇中、服務獎給朱榮慶、高雙英、呂芳烈、粟慶雄。年刊包括了所有講員之論文摘要。自此，本會每屆年會之年刊均登載論文摘要。

一九八五：

第十屆會長由呂仲濂榮任，副會長由黃威、陳匡齊、呂芳烈榮任。董事長則由虞華年榮任。通訊主編為陳琅予、程士齡。本屆董理事會繼續提供各項服務與貢獻，並開始與美洲中國工程師學會於年中和辦座談會。是屆年會於十一月九、十日於潘達旅館舉行，並出版十週年紀念專刊，共三百餘頁，由陳匡齊主編。研討會計有華人從政、高等教育、科技、創業及投資等。晚宴中致贈學術成就獎給錢煦，服務獎給陳琅予、黃威及李宗正。

一九八六：

第十一屆會長由黃威榮任，副會長為陳慶，陳淑蘋、陳匡齊、鄭向元，董事長由虞華年連任。通訊主編為林友直。本屆工作人員舉行了數次專題研討會，與工程師學會合辦法律座談會。亦為留學生舉行了兩次就業座談會。年會於九月二十七、二十八日於潘達旅館舉行，研討主題則擴大為十二組計有生物醫學、中國藝術、中國文學、經濟〈二組〉、高科技發展與創業、修身齊家、政治、超大型積體電路、教育、都市發展及電腦與通訊等，共有五十多位專家學家發表論文。晚宴中，費景漢榮獲學術成就獎，鄭向元、劉兆寧、呂仲濂榮獲服務獎。

一九八七：

第十二屆會長由劉兆寧榮任，副會長為李慶珠、林汶、林友直。董事長由虞華年榮任。通訊主編由林友直連任。本屆之活動有數次專題演講會，與工程師學會合辦座談會，與全美學聯亦合辦了一次座談會。是年第二屆北美華人學術研討會於休士頓舉行，本會亦參與籌備並派代表出席。該年亦出版了最新會員通訊錄。年會首次提前至春季舉行，於五月二十三、二十四日在維士達旅館舉行，共有十二組研討會包括文、教、經濟、科技、政治等項目。晚宴中致贈朱經武學術成就獎，李慶珠、林友直、祖乃元榮獲服務獎。

一九八八：

本屆會長由林友直擔任，副會長為呂芳烈、虞孝成、柳鍾坦。董事長由黃威擔任。通訊主編為廖香生。本屆會務除了舉辦數次學術演講會及與工程師學會合辦「新聞與歷史」座談會外，並正式成立了紐約上州奧本尼分會及賓州匹茲堡分會。奧本尼分會於九月十七日舉行成立大會，由蕭亮楨、涂肇慶分任會長及副會長。匹茲堡分會於十一月六日舉行成立大會，由鄧祖慶擔任分會會長。分會成立時均舉辦了學術研討會，出席人數均近百人。本屆年會於五月二十八、二十九日於維士達旅館舉行，共有十五組學術研討會。晚宴中，陳榮捷獲贈學術成就獎，毛高文、郭南宏、林昭亮、章雨亭獲贈成就獎；虞華年，林宗儒，虞孝成獲贈服務獎。　會後之餘興節目由

柳鍾坦負責，請到了小提琴家林昭亮及多位成名音樂家演唱，使得本會年會餘興節目提高至最高水準。

一九八九：

第十四屆會長由陳慶榮任，副會長為安仲明、何瑜笙、柳鍾坦、蔡明曉。董事長黃威繼任，通訊主編為謝欣能。奧本尼分會長為蕭亮楨，副會長為涂肇慶；匹茲堡分會長為鄧祖慶。本屆之活動有數次專題研討會及為中華民國製藥訪問團舉行座談會及年會。奧本尼及匹茲堡分會亦分別舉行大型研討會，各有數百人出席。年會於五月二十、二十一日在維士達旅館舉行，有十二組研討會，會中趙趯東、夏漢民、方復獲贈成就獎，李維激獲贈服務獎，高雙英獲贈社區服務獎。本年六月四日天安門事件，震撼了全世界，本會同仁費心費力與全美國八十餘學術團體連絡、募款，終能於世界日報及紐約時報刊登巨幅廣告，嚴厲譴責中共屠殺學生。 學術界的研討、借鏡與交流以及每年研討成果與紀錄都有存留的歷史價值，有的州立歷史學會及大學圖書館已開始來函索取資料。為此陳慶會長推動了向外伸展計畫，將本會各種出版物分寄美國數大州立歷史學會，數十所東方圖書館，國會圖書館及香港的大圖書館，以求擴大貢獻、永垂青史。

一九九〇：

本屆會長由安仲明榮任，副會長為焦國安、黃維達、吳家榮、徐學儉。奧本尼分會長為黃琦，匹茲堡分會長為鄧祖慶。董事長為黃威，通訊主編為葛樹人。本年度之工作重點為舉辦第三屆北美華人學術研討會，於七月四日至六日在曼哈頓中城喜來登旅館舉行。該項研討會之籌備會由劉兆寧擔任主席，協調委員會由安仲明擔任主席。時值本會成立十五週年，籌辦此項特大型學術會議，廣邀海內外專學者與會，具有特殊意義。為此本會動員兩 百人配合，不眠不休，終有一千兩百人出席、九大組及卅五小組研討會，以及五項座談會，一百八十位專家提出論文的超大型學術會議，辦得極為出色。並出版厚達六百餘頁的論文摘要。由於第三屆北美華人學術研討會於紐約市舉行，本會第十五屆年會乃改在紐約州首府奧本尼的希爾頓酒店舉行，由奧本尼分會同仁主辦，共有三百餘人出席。本屆年會極為成功，充分地顯示出奧本尼分會辦活動能力之極高水準。年會之主題為 「躍向未來」，除了學術研討會外，並有晚宴及名勝之參觀遊覽。晚宴中許倬雲、虞華年獲贈成就獎，焦國安、許王美文、黃維遠、巫陶勁恆、吳家榮獲服務獎。 另外本會亦首次頒贈學生服務獎，由官正明、李慧珍及丁健祥獲得。本年度舉辦了多項學術研討會，其中一項為「電信研討會」。該研討會於十一月一日至三日在國內舉行，由吳家榮副會長舉辦，首開本會與國內學術界在國內舉行研討會之先河，亦為飲水思源、回饋祖國之實例。

一九九一：

本屆會長由吳家榮擔任，副會長為張一飛、焦國安、黃維遠、岳鋼。奧本尼分會長為沈鐸，匹茲堡分會為鄧祖慶。通訊主編為林寔弘。董事長為陳慶。該年之主要活動有於五月二十五日及二十六日在中城喜來登旅館舉行之第十六屆年會，共有十二組研討會，數百人出席。會中孫震、劉兆玄、邱創煥獲贈成就獎，安仲明、黃琦獲

服務獎，謝玉貞獲學生服務。該年會之主題為「九〇年代之新使命」。本會繼九〇年之回饋祖國系列研討會後，又於三月及十一月分別在國內主辦了「交通管理」及「維運系統」研討會，反應至為熱烈。此外本會及分會亦舉行多次學術性及聯誼性活動。

一九九二：

十七屆會長由張一飛榮任，副會長為岳鋼、陳淑蘋、雷倩、徐清輝，奧本尼分會長為涂肇慶、匹茲堡分會長為陳世瑞。董事長由陳慶連任，通訊主編為于錢寧娜。年會於六月二十七日及二十八日於曼哈頓中城希爾頓酒店舉行，以「全球合作」為主題，有六百人出席。會中王建瑄、梁肅戎、馬英九獲贈成就獎，岳鋼、徐清輝、巫誠一獲服務獎、李良山獲學生服務獎。其他重要活動有與玉山科技協會、北美電腦商會、中國工程師學會合辦多次研討會，以及分會在當地舉行之研討會。本會並於十月底主辦第一屆「全球電腦軟體研討會」，由張一飛會長主籌。同年並由巫誠一主持建立及更新本會會員人才檔案資料庫。此外本會並拓展了「公司會員」制度，吸收各公司、企業加入為公司會員。

一九九三：

本年度會長由岳鋼榮任，副會長為魏幼武、吳武明、于錢寧娜、及徐清輝。奧本尼分會長王宋慕浩，匹茲堡分會長為陳世瑞。董事長由虞華年再度擔任，通訊主編為于錢寧娜，年會於六月二十六日及二十七日曼哈頓中城希爾頓酒店舉行，以「邁向變遷中之世界」為主題，有十三組研討會及五項座談會。會中，孔祥重獲成就獎，郭南宏、張隆盛獲特別榮譽獎，陳慶、張一飛、雷倩獲服務獎，余代強獲學生服務獎。其他活動包括主辦第二屆「全球電腦軟體研討會」及多次研討會，支援在芝加哥舉行的第四屆「北美華人學術研討會」。其它大事有成立學生分會，由林英如負責；創設終身會員制及修改本會章程。

一九九四：

第十九任會長由鄭向元榮任，副會長由江同慶、湯立恒、徐邊淑川及葛樹人榮任。奧本尼分會長為鄭均華，匹茲堡分會長為陳世瑞。董事長為虞華年，通訊主編為鄭啟恭。年會於九月十日及十一日在中城假日旅館舉行，有八組研討會及六項座談會。本年度成就獎由張系國獲得，服務獎由江同慶，葛樹人及彭紹麟獲得，學生服務獎由丁維靜，吳順源獲得；另外還頒贈了本會之友獎牌給張鍾濬、史欽泰、蘇起以及蔡兆陽。此外本會及分會均舉辦了多次研討會及主辦第三屆全球電腦軟體研討會。亦主辦三次社區服務座談會。

一九九五：

本屆會長由魏幼武榮任，副會長由許亦誠、李宏志、于錢寧娜、徐清輝榮任；奧本尼分會長為陳仲欽，匹茲堡分會長為陳世瑞；董事長為虞華年，通訊主編為鄭啟恭。二十周年年會於九月九日至十日假紐約市維士達旅館盛大舉行，年會主題為「20/20 前瞻回顧 20年」，有六項研討會及六項座談會。本年度學術成就獎由劉兆寧獲得，

服務獎由林耕華、李宏志、沈鐸，于錢寧娜獲得，此外並特別頒贈二十周年特別服務獎給鄭向元、黃威及林友直，並頒贈感謝狀給張燕、焦國安及高雙英。其他主要活動為舉辦網路管理研討會及多媒體研討會。

一九九六：

本年度會長由雷倩榮任，副會長由梁北柱、許亦誠、趙循經、陶勁恆榮任；奧本尼分會長由陳仲欽連任；董事長為魏幼武，通訊主編為于錢寧娜。本屆年會於九月十四日至十五日假紐約市凱悅大飯店舉行，主題為「邁向二十一世紀過去、現在與未來」。年會總幹事為趙循經，共有六組研討會、八組座談會。年會中，卓以和、崔琦獲頒學術成就獎，許亦誠、王偉、吳憲獲頒服務獎，林月子、魏憲鴻獲頒學生服務獎，張烈麟、張家瑜、陳啟雄、何安天、黃崑山、李宏志、楊維森、于錢寧娜、張瑜芬獲頒社區服務獎。其他主要活動包括舉辦光纖與無線通訊研討會、網際網路展、多媒體研討會以及支援於六月二十九日至七月二日在加拿大渥太華舉行的第五屆北美華人學術研討會。

一九九七：

本年度會長由許亦誠榮任，副會長由巫誠一、馬以南、黃克文、于同根榮任；奧本尼分會長由王抗曝榮任，董事長由魏幼武連任，通訊主編為于錢寧娜。本屆年會於九月十三日至十四日假紐約市 Crown Plaza 舉行，主題為「提升競爭力」。年會總幹事為于同根，共有四組研討會、九組座談會。年會中，何大一獲贈學術成就獎，趙循經獲贈服務獎，李嘉琦、葉依茜獲贈學生服務獎。其他主要活動包括舉辦無線通訊研討會、國際網路展、九七職業博覽會以及多媒體研討會。

一九九八：

本年度會長由馬以南榮任，副會長由金政，焦國安，吳憲、李嘉琦榮任；奧本尼分會長由沈永清榮任；董事長由魏幼武再次連任，通訊主編再由鄭啟恭擔任。本屆年會於九月十二日至十三日假紐約市 Marriott Marquis 旅館舉行，焦國安擔任年會總幹事。年會主題為「邁向新紀元 共創新高峰」，共有十組研討會。年會中，李昌鈺獲頒學術成就獎，湯立恒、黃克文、于同根獲頒服務獎，李泳濬、林肯韻獲頒學生服務獎。本年度重要活動有國際網路展、光纖研討會、海外高科技人才延攬會、多媒體研討會。

一九九九：

本屆會長由李弘祺榮任，副會長由林寔弘、蔡偉彥、林麗文、許政次榮任；奧本尼分會長由沈永清連任；董事長由許亦誠榮任，通訊主編為鄭啟泰。本屆年會於九月十八日至十九日假紐約市凱悅飯店舉行，共有十二組研討會，主題為「文化樹人 克竟千年」。本屆學術成就獎由朱北凡獲得，服務獎由馬以南、焦國安、金政、鄭啟恭獲得。其他活動為舉辦國際網路展及支援華府國建聯誼會舉辦第六屆北美華人學術研討會。

二０００：

本屆會長由金政榮任，副會長由陳修、王延玲、程仁麗，吳憲榮任；奧本尼分會長由李瑞蘭榮任；董事長由鄭向元榮任，通訊主編為鄭啟恭。本年度欣逢本會成立二十五周年，特於八月二十六日至二十七日假紐約世貿中心馬里奧旅館舉行盛大年會；由陳修擔任年會總幹 事。主題為「民生與經濟：現代華人兩大課題」，有十組研討會。本年度學術成就獎由張鍾濬獲得，成就獎由虞華年獲得，服務獎由李弘祺及李嘉琦獲得，學生服務獎由朱紹玲獲得。趙小蘭、林芳玫、侯和雄獲贈特別榮譽獎。其他主要活動有無線光纖通訊研討會及新世紀就業博覽會。

二００一：

本屆會長由蔡偉彥榮任，副會長由呂政勳、曾令寧、簡華慧及林寔弘榮任。奧本尼分會長由宋慕浩榮任。董事長由趙循經榮任，通訊主編為鄭啟恭及劉武威。年會於聖若望大學舉行，以「危機與轉機 邁向千禧年政經與科技之新境界」為主題，共有九組研討會。本年度學術成就獎由崔琦獲得，服務獎由金政及程仁麗獲得。翁政義、廖勝雄及 Allen Barnes 獲得特別獎，畢東江獲得本會之友獎。其他主要活動為舉辦無線及光纖通訊研討會，網際網路展覽座談會及資訊科技研討會。

二００二：

本屆會長由曾令寧榮任，副會長由林寔弘、廖國隆、林豐堡及李振華榮任；董事長由林友直榮任，通訊主編為廖國隆。年會於聖若望大學舉行，以「九一一事件後的省思 挑戰與展望」為主題，有十一組研討會。本年度學術成就獎由鄭永齊獲得，服務獎由林寔弘、蔡偉彥、郭潤台及陳秋貴獲得，學生服務獎由呂政勳及吳雅琪獲得。薛信夫、劉醇逸獲贈專業成就獎。其他主要活動為舉辦美東台灣留學生徵文比賽、協助經濟部擴大延攬海外科技人才赴台服務、以及舉辦網際網路博覽會。

二００三：

本屆會長由陳修榮任，副會長由陳淑齡、印萬全、陳奎璋及林豐堡榮任。董事長由林友直連任。本年度之通訊屆滿二十八期，由陳修擔任主編。本屆年會於法拉盛喜來登酒店舉行，以「關懷社區　放眼天下 提振個人價值與競爭力」為主題，有九組研討會。本年度學術成就獎由孫同天獲得，服務獎由曾令寧、金蘭昌及梁蕙華獲得，學生服務獎由林碩彥、王善卿獲得。此外，林全及張秀蓮獲贈事業成就獎，第一理財, 劉錦杭 獲贈企業楷模獎，顧雅明獲贈社區服務獎。其他主要活動為無線及光纖通訊研討會及新興信息技術研討會。

二００四：

本屆會長由林豐堡榮任，副會長由錢一之、廖國隆、趙文萃、童惠珍及黃明義榮任。董事長由李衡鈞榮任，通訊主編為王秀芝。本屆年會於法拉盛喜來登酒店舉行，以「立足美國、 關懷社區、 融入主流社會」為主題，有七組研討會，計有五百多人與會。本年度學術成就獎由姚宏澤獲得，馬英九獲贈事業成就獎。服務獎由陳修獲得，徐朱留弟獲贈美東之友獎。其他主要活動為舉辦金融超市與風險管理研討會及

美國總統大選與兩岸關係專題演講會，以及協辦經濟部延攬海外科技人才赴台服務及新興資訊科技研討會。

二〇〇五年：

本屆會長由廖國隆榮任，副會長由陳泰明、陳郁仁、錢一之、楊彰興榮任。董事長由曾令寧榮任，通訊主編為廖國隆。本屆年會於法拉盛喜來登酒店舉行，以「知識財富與高等教育」為主題，有八組研討會。本年度學術成就獎由胡勝正獲得，服務獎由林豐堡獲得。盧正昕獲得專業成就獎，白文正獲得金融特殊貢獻獎，朱立倫、呂桔誠獲得金融公共服務獎，徐志漳獲得企業楷模獎。其他主要活動為年度財經座談會。

二〇〇六年：

本屆會長由楊彰興榮任，副會長由童惠珍、王培榮任。董事長由曾令寧連任。本屆年會於法拉盛喜來登酒店舉行，以「創新突破」為主題，有八組研討會。本年度學術成就獎由夏志清獲得，服務獎由廖國隆獲得。趙小蘭獲得傑出公共服務獎，呂東英、沈富雄獲得傑出專業成就獎，高民環獲得傑出高科技貢獻獎，楊維森獲得傑出社區服貢務獻獎，王建民獲得傑出運動員獎。其他主要活動為年度財經座談會及健康人生座談會。

二〇〇七年：

本屆會長由童惠珍榮任，副會長由王嘉玲、王學亮、呂元、洪偉塾榮任。董事長由曾令寧連任。本屆年會於法拉盛喜來登酒店舉行，以「專業導向、邁進新世紀」為主題，有六組研討會。本年度學術成就獎由劉兆玄獲得，服務獎由楊彰興、李衡鈞、林友直獲得。林奕華、丁廣鋐、曾令寧、盧紅玲獲得專業成就獎。甘台寧獲得社區服務獎。其他主要活動為年度財經座談會及健康人生座談會。

二〇〇八年：

本屆會長由黃本魁榮任，副會長由郭思平、李振華、汪俊延榮任。董事長由林豐堡榮任。本屆年會於法拉盛喜來登酒店舉行，以「迎向新時代的挑戰與轉機」為題，有六組研討會。本年度專業成就獎由鄭貞銘、黃仁德、古仁棟獲得，楷模獎由曾令寧、鄭向元獲得，服務獎由童惠珍獲得，傑出社區服務獎由梁國材獲得。其他主要活動為年度財經座談會。

二〇〇九年：

本屆會長由張東隆榮任，副會長由鍾炳采、陳鐵輝、陳輝泗、楊毓淑、王彧榮任。董事長由鄭力原榮任。本屆年會於法拉盛喜來登酒店舉行，以「經濟復甦與科技創新」為題。有六組研討會。本年度專業成就獎由陳冲獲得，傑出服務獎由郭思平獲得，學生服務獎由林子晏、徐欣瑩、盧郁安獲得。其他主要活動為年度財經座談會及健康人生座談會。

二〇一〇年：

本屆會長由鍾炳采榮任，副會長由蔣忠國、游季平、陳輝泗、張彰華、汪俊延榮任。董事長由鄭向元榮任。本年度欣逢本會成立三十五周年，本屆年會於法拉盛喜來登酒店舉行盛大年會，主題為「全球化時代的永續發展」。年會包括開幕典禮、午宴、晚宴、專題演講及九組分組討論。本年傑出學術成就獎由劉兆漢獲得，傑出專業成就獎由尹啟銘、高長、董靜宇獲得，傑出領導成就獎由李祖添、沈世宏獲得，傑出服務獎由張東隆獲得，服務獎由陳輝泗、蕭醒華、林怡君獲得，學生服務獎由 Samuel Soe、 陳炳興、許振強獲得。其他主要活動包括財經金融座談會、能源科技座談會及健康人生座談會。

二〇一一年：

本屆會長由郭思平榮任，副會長由簡禾謙、陳輝泗、蔣忠國、張彰華榮任。董事長由鄭向元連任。本屆年會於法拉盛喜來登酒店舉行，以「創新拓經濟，多元展教育」為主題。有八組研討會。本年度傑出專業成就獎由吳清基獲得，楷模獎由林豐堡獲得，傑出服務獎由鍾炳采獲得，卓越終身成就獎由趙錫成獲得。其它活動為一系列新移民健康人生座談會，及 CAAPS 公共論壇。本屆年會會刊首次註冊美國國會圖書館。

二〇一二年：

本屆會長由張彰華榮任，副會長由林志濤、陳輝泗、王嘉玲、周愷榮任。董事長由郭思平榮任。本屆年會於法拉盛喜來登酒店舉行，以「全球化時代之永續發展與創新」為主題。有七組研討會及一組公開論壇。本年度卓越終身成就獎由連戰獲得、傑出領導及服務獎由鄭向元獲得、社區服務獎由李衡鈞獲得。其它活動為一系列新移民健康人生座談會、及都市計畫發展講座，錢煦教授專題演講、劉兆玄博士演講「漢字再一次書同」。

二〇一三年：

本屆會長由曾令寧榮任、董事長由鍾炳采榮任。本屆年會主題為「科技與教育：改善生活品質，提升文化和經濟」，於八月二十五日於法拉盛喜來登酒店盛大舉行。年會包括開幕典禮、午宴、晚宴、專題演講及六組研討會。本年度卓越終身成就獎由錢煦獲得、專業成就獎由楊仁烽獲得、傑出領導成就獎由張清風獲得、企業楷模獎由王蔚、畢東江獲得、美東之友獎由陳秋貴獲得、傑出貢獻獎由郭思平獲得、傑出服務獎由張彰華獲得。其他主要活動包括財經金融座談會、科技座談會及一系列新移民健康人生座談會。本屆年會會刊註冊美國國會圖書館。

二〇一四年：

本屆會長由張彰華榮任、董事長由鍾炳采連任。本屆年會主題為「振興經濟 – 科技創新與教育多元化」，於七月二十六日於法拉盛喜來登酒店盛大舉行科技部張善政部長專題演講暨晚宴– 主題: 「領航台灣科技，面對挑戰」、年會於八月一七日於法拉盛喜來登酒店盛大舉行、年會包括開幕典禮、專題演講、八組研討會及晚宴。

其他主要活動包括財經金融座談會、學術論壇 CAAPS Forum、全民健保論壇、及一系列新移民健康人生座談會。本屆年會會刊註冊美國國會圖書館。

後記： 本會自一九八四年正式出版通訊以來，歷年由栗慶雄、陳琅予、程士齡、林友直、廖香生、謝欣能、葛樹人、林寔弘、于錢寧娜、鄭啟恭、劉武威、廖國隆、陳修、王秀芝擔任主編，紀錄了本會各項活動及成長過程，功不可沒；其中于錢寧娜擔任主編長達四年，而鄭啟恭擔任主編長達六年。各主編功在會務，特此記之。

本會自成立以來，同仁及以自勵勵人自我期許，隨著會務之發展與開拓，本會之重要性及影響力已早經社會各界肯定，而社會輿論之期望亦隨之提高。本會同仁對報刊社論之讚許與批評均誠心感謝與虛心接受，並會更盡心力，以求更為完美，做一個有作為、有貢獻的團體。為此，凡我會員歡迎自動參與會務，以服務為榮，並匯合群智群力，發展本會潛能，提高學術水準，建立崇高地位，且對社會有所回饋，不負社會大眾與輿論之期望。

附註： 請參考龔選舞先生所撰之十周年歷史（見十週年紀念專刊），限於篇幅，各屆工作同仁名錄無法盡刊。

美東華人學術聯誼會重要發展里程碑

一九七五年　成立美東華人學術聯誼會，李宗正擔任會長。

一九七六年　舉行第一屆年會。

一九七八年　理事會改為董事會，職掌政策上之決定，另設理事會執行會務。

一九八二年　出版年會會刊。

一九八三年　開始頒發服務獎。

一九八四年　正式出版通訊；章程修改，制定董事任期制度；支援第一屆北美華人學術研討會。

一九八五年　出版成立十週年紀念週刊，共三百餘頁。

一九八七年　支援第二屆北美華人學術研討會。

一九八八年　成立奧本尼分會及匹茲堡分會。
英文會名更改為 Chinese American Academic and Professional Society。 登記為紐約州註冊社團。

一九九〇年　主辦第三屆北美華人學術研討會，出版論文摘要，共有六百餘頁。首度於大紐約區以外（奧本尼）舉行盛大年會。
首度在國內舉行回饋祖國系列研討會，增設學生服務獎。

一九九二年　成立本會人才檔案資料庫。主辦第一屆全球電腦軟體研討會。招展「公司會員」制度；成立社團間聯繫小組（Intersociety Committee）。

一九九三年　章程修改；成立學生分會；創立終身會員制度。

支援第四屆北美華人學術研討會。

一九九五年　成立二十周年，舉行盛大年會。

一九九八年　紐約州、新澤西州政府核准本會為免稅的非營利組織，從此外界對本會之捐款可減免稅金。

二〇〇五年　成立卅周年，舉行盛大年會。

二〇一〇年　成立三十五周年，舉行盛大年會。

二〇一一年　年會會刋首次註冊美國國會圖書館。

二〇一五年　成立四十周年，舉行盛大年會。

美東華人學術聯誼會董事會名單

(List of Board of Directors, 1978 ~ 2014)

一九七八 ~ 二〇一四年間曾擔任過本會董事者包括（依時間先後）

李宗正、林國本、錢煦、莊懷義、崔岦、熊玠、谷家泰、全泰勳、冉雲雲、傅萍、高資敏、朱榮慶、陳大威、高雙英、曾燕山、汪榮安、嚴雋森、鄭向元、何瑜笙、虞華年、丘宏達、劉兆寧、呂仲濂、余英時、張隆延、鄒至莊、高英茂、厲鼎毅、王雪華、陳框齊、黃威、呂芳烈、費景漢、林友直、許倬雲、陳慶、高勵華、林汶、張系國、李厚白、安仲明、方復、張一飛、沈鐸、吳家榮、陳淑蘋、林耕華、林武郎、徐學儉、岳鋼、魏幼武、張鍾濬、雷倩、湯立恒、巫誠一、于錢寧娜、李弘祺、趙循經、馬以南、徐清輝、于同根、李衡鈞、黃克文、黃琦、許亦誠、陳修、許正次、金政、林寔弘、蔡偉彥、蕭亮楨、曾令寧、楊彰興、何重義、廖國隆、林豐堡、潘明正、陳輝泗、戴天佑、盧又華、錢一之、陳泰明、鄭力原、 童惠珍、王學亮、楊毓淑、 黃本魁、郭思平、 沈永清、 鍾炳采、 許德標、張東隆、張彰華、周愷、蔣忠國、鍾健堯、林志濤、徐慧茵、郭秋義、王嘉玲、吳同良、楊文山、范姜光男、張書平、高一民、魏國勝、錢一之、王金智。

美東華人學術聯誼會終身會員名單
(List of Life Members, 1978 ~ 2015)

安仲明、徐學儉、丁介文、徐邊淑川、岳鋼、虞華年、李厚白、黃威、林武郎、吳家榮、 巫誠一、 陶勁恆、魏幼武、徐清輝、張一飛、蔡敏演、林友直、陳淑蘋、李宏志、雷倩、 周白萍、鄭向元、 黃克文、黃琦、莊訓甲、許亦誠、趙循經、李弘祺、陳享、 許正次、李衡鈞、金政、曾令寧、林豐堡、廖國隆、陳輝泗、戴天佑、楊彰興、鍾炳采、蔣忠國、張彰華、范姜光男、錢一之、吳同良、王金智、魏國勝、張書平、許德標、李芳、程慈馨。

美東華人學術聯誼會歷年年會專題主講人
（Keynote Speakers, 1978 ~ 2014）

一九七六年： 孫運璿、李煥
一九七七年： 李元簇
一九七八年： 鄧權昌、李培正、陳岱楚、鄺有良
一九八〇年： 陳香梅、許倬雲、連戰
一九八一年： 蔡維屏、吳健雄、姚舜
一九八二年： 陳奇祿、高育仁、Martin Myerson
一九八三年： 費驊
一九八四年： 孫震、鄒至莊
一九八五年： 連戰、閻振興
一九八六年： 阮大年
一九八七年： 關中、陳李琬若
一九八八年： 郭南宏、劉兆玄
一九八九年： 夏漢民、余英時
一九九〇年： 吳祖禹
一九九一年： 邱創煥
一九九二年： 賴英照、Jennifer McGroddy、George Lodge、梁肅戎、馬英九
一九九三年： 張隆盛、焦仁和、Andrew Nathan、邵宗海、章孝嚴、郭南宏
一九九四年： 蔡兆陽、蘇起、張鍾濬、史欽泰、陳堯
一九九五年： 許遠東、馬英九、高孔廉、伊士豪、薛琦、孫震
一九九六年： 關中、胡志強、張博雅、史欽泰、鄔杰士
一九九七年： 許水德、張京育、洪冬桂、黃德福、吳中立
一九九八年： 李昌鈺、馬英九、明鎮華、吳仙標、簡春安
一九九九年： 高英茂、林中斌
二〇〇〇年： 趙小蘭、林芳玫、侯和雄
二〇〇一年： 翁政義、廖勝雄、Allen B. Barnes

二００二年：　夏立言、劉醇逸、薛信夫
二００三年：　林全
二００四年：　馬英九
二００五年：　胡勝正、盧正昕、白文正、呂桔誠、徐志漳
二００六年：　趙小蘭，沈富雄
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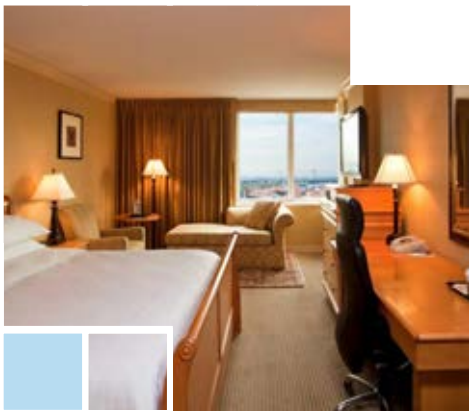

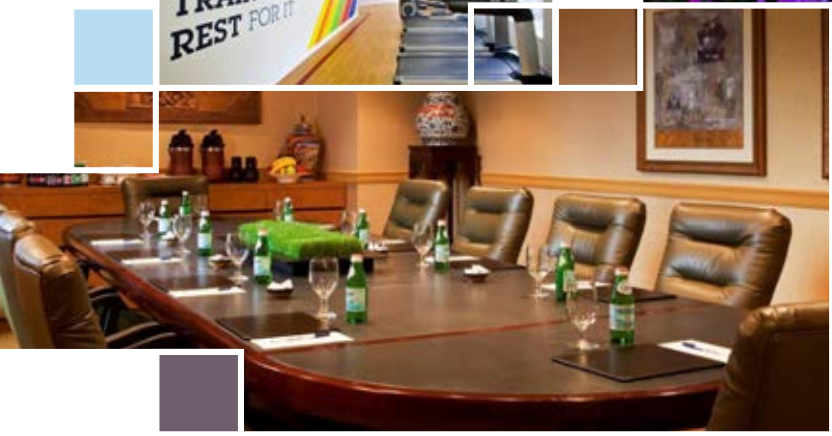

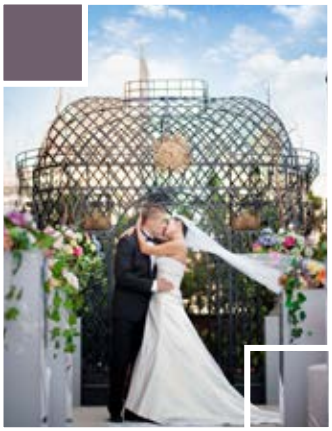

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Huayu Enrichment Scholarship (HES) gives a generous stipend to those interested in learning Mandarin Chinese at one of Taiwan's outstanding language centers for summer, 3, 6 or 9 months.

The **Taiwan Scholarship** is for outstanding and determined scholars who plan to study for a degree (bachelor's, master's or doctoral) at a participating university in Taiwan.

www.edutwny.org/scholarships
applicants must be US citizens
application period 2/1 - 3/31 each year

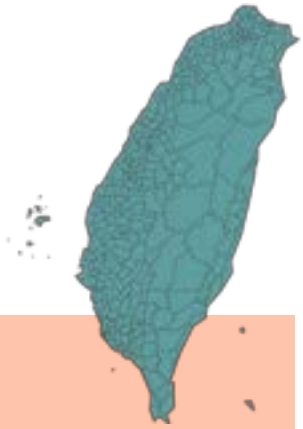
Language Exams

Assess your proficiency in Chinese with TOCFL or CCCC. TOCFL tests reading, listening, and writing. CCCC is developed for young, non-native learners, ages 7-12. Registration & sample tests: www.sc-top.gov.tw

Short-term Mandarin Study Groups for U.S. Students

Visit Taiwan as a group to take courses in Mandarin Chinese and Chinese culture! Schools may form groups of at least 5 for short-term (no more than 4 weeks) study at a sister school or affiliated language center. Each group member will be subsidized $90 per week. www.edutwny.org/short-term-groups

facebook.com/edutwny



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駐紐約教育組 2015 下半年活動預定規劃表

日期	時間	建立臺灣留學生交流平臺及展演舞臺	地點
2015/8/28	11:00-19:00	大紐約地區(NY, NJ, PA, CT 四州)臺灣同學會會長座談會	辦事處
2015/9/12	14:00-17:00	大紐約地區聯合迎新暨秋節茶會	辦事處
2015/9/25	19:00	TECO 四季音樂會	辦事處 1F
2015/9/26		大紐約地區聯合迎新舞會	曼哈頓
2015/10		留學生參與大紐約地區國慶升旗典禮	法拉盛等地
2015/10/10		留學生參與國慶遊行相關活動	中國城
2015/10/3		國慶盃網球賽	雪城大學
2015/10 月或 11 月		寶島國慶盃籃球賽	皇后區
2015/10/30		TECO 四季音樂會	辦事處 1F
2015/11/7	13:00-21:00	2015 年大紐約地區中文教學研討會	辦事處
2015/12/18	19:00	TECO 冬季聖誕音樂晚會	辦事處 1F

備註:相關活動確定日期時間請上教育組臉書www. facebook. com/edutwny

美東華人學術聯誼會成立四十週年誌慶


鄭向元
2000,2010-2011


李宗正
1977


錢煦
1981-1985


虞華年
1985-1987, 1993-1995


趙循經
2001


林友直
2002-2003


李衛鈞
2004


曾令
2005-2007


林豐堡
2008

敬賀


鄭力原
2009


郭思平
2012


鍾炳釆
2013-2014


張彰華
2015


范姜光男
2015 President

精益求精 再創高峰

慶祝四十週年特立委員會

〔由本會最早三任及近幾年董事長組成〕

駐美國台北經濟文化代表處

Taipei Economic and Cultural Representative Office in the United States

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Coalition of Asian-American IPA, Inc.

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40th Anniversary

Celebration

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http://2015tba.cier.edu.tw/en//index.htm

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駐美投資貿易服務處
Investment & Trade Office
Taipei Economic & Cultural Office

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駐美國台北經濟文化代表處 科技組

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- 龍門計畫(Dragon Gate Program)
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  http://www.most.gov.tw/int/ct.asp?xItem=18969&ctNode=4522
- 赴國外從事博士後研究計畫 (Postdoctoral Research Abroad Program)
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TANG PRIZE

唐獎

TANG PRIZE

唐獎　改變世界的力量

尹衍樑博士於2012年12月成立的唐獎，是以中華文化數千年涵養，面對當前社會發展，以新視野與新思維，所注入的實際行動與思考，設有「永續發展、生技醫藥、漢學及法治」四大獎項，每兩年舉辦一次的唐獎，在2014年第一屆選出了永續發展獎得獎人格羅・哈萊姆・布倫特蘭、生技醫藥獎得獎人詹姆斯・艾利森與本庶佑、漢學獎得獎人余英時、法治獎得獎人奧比・薩克思，五位時代先驅，用生命改變世界。唐獎的精神，正是美東華人學術聯誼會40週年主題「40年光輝，持續卓越創新」的最佳實踐。

The Tang Prize was established in December 2012 by Dr. Samuel Yin. Drawing upon thousands of years of Chinese tradition, the prize represents an innovative and practicable agenda dedicated to tackling the pressing issues of our modern era. Winners are chosen for the real impact and influence their work has made on human civilization and the world, irrespective of ethnicity or nationality, in four fields: Sustainable Development, Biopharmaceutical Science, Sinology, Rule of Law.

2014 was the inaugural year of the Tang Prize, when five inaugural laureates were selected for their contributions to their fields and humanity: James P. Allison and Tasuku Honjo in Biopharmaceutical Science, Gro Harlem Brundtland in Sustainable Development, Yu Ying-Shih in Sinology, Albie Sachs in Rule of Law. Like the theme for this year's convention in the 40th Anniversary of CAAPS, the Tang Prize is a celebration of "excellence and innovation."

唐獎教育基金會
Tang Prize Foundation
www.tang-prize.org