



# MAA Bulletin

ISSUE 40  
JULY 2006



*Xin-Yi Expressway, Taiwan*

亞新工程顧問(集團)公司  
MAA Group Consulting Engineers  
BANGKOK BEIJING HONG KONG KAOHSIUNG  
PENANG SHANGHAI SINGAPORE TAIPEI

## MAA Bulletin

Issue 40 July 2006

Founded in 1975, **MAA** is a leading Asian engineering and consulting service provider in the East and Southeast Asian region focused in the areas of infrastructure, land resources, environment, buildings, and information technology.

To meet the global needs of both public and private clients, MAA has a full range of engineering capabilities to provide clients with integrated solutions - ranging from conceptual planning, general consultancy, engineering design to project management.

Today, MAA has 700 people with companies in the Greater China Region (Beijing, Hong Kong, Shanghai, Taiwan), Mekong Region (Bangkok), and Southeast Asia Region (Penang, Singapore), creating a close professional network in East/Southeast Asia.

MAA's goal is to establish engineering capability that will meet local needs. Along with the changes in social-economic environment over the years, MAA's business philosophy is to provide professional service that will become an asset to clients with long lasting benefits. **ASSET** represents five key components that underlies MAA's principles of professional service:

**A**dvanced Technology  
 project **S**afety  
 client's **S**atisfaction  
**E**conomical Solution  
**T**imely Completion

Moh and Associates Inc.  
 11th Floor, No. 3, Tunhwa South Road, Section 1  
 Taipei 10557, Taiwan, R.O.C.  
 Tel: 886-2-2578-5858  
 Fax: 886-2-2570-5566  
 Email: [maagroup@maaconsultants.com](mailto:maagroup@maaconsultants.com)  
 Website: [www.maaconsultants.com](http://www.maaconsultants.com)

# CONTENTS

<b>IN MEMORY OF DR. SUN YUN-SUAN</b>	<b>01</b>
<b>PROJECTS</b> <b>1<sup>st</sup> OCTOBER 2005 – 31<sup>st</sup> MARCH 2006</b>	<b>04</b>
<b>PROFESSIONAL ACTIVITIES</b>	<b>09</b>
- PROFESSIONAL AWARDS	
- INTERNATIONAL SEMINARS AND CONFERENCES	
- OTHER MEETINGS	
- TECHNICAL PUBLICATIONS	
<b>PERSONNEL MOVEMENTS</b>	<b>16</b>
- NEW APPOINTMENTS	
- PROMOTIONS	
<b>MAA AWARDS</b>	<b>18</b>
<b>PERSONNEL PROFILES</b>	<b>21</b>

## ISO 9001 CERTIFICATION



# IN Memory of Dr. Sun Yun-Suan

The former Premier of the Republic of China, Dr. Sun Yun-Suan, has passed away peacefully on 15 February 2006. Dr. Sun is known for his great contributions to Taiwan's economic boom during the 1970s to 1990s, which led Taiwan to become one of the four East Asian Tigers. For the past thirty years, MAA has deeply experienced Dr. Sun's devotion to the building of Taiwan's economy, his vision to the development of the engineering industry and his humble support to MAA. Despite the stroke he suffered in 1984, Dr. Sun has made special effort to attend MAA's 20<sup>th</sup> and 30<sup>th</sup> Anniversary (1995 and 2005 respectively). In memory of Dr. Sun, the following page is his speech to MAA's 20<sup>th</sup> Anniversary, personally handwritten by Dr. Sun despite the difficulties he suffered from the stroke. His relentless efforts, devotion to the people will be remembered and continued by MAA through MAA's services to infrastructure development around the world.

前行政院長孫運璿先生，於今（二〇〇六）年二月十五日逝世。孫院長一生，對我國之經濟發展是最具貢獻的人物，其豐功偉績，已有報章雜誌詳加報導。但亞新公司三十年來，受到孫院長之鼓勵與教勉，則是使我們銘感在心，無日敢忘，更是亞新向前衝刺的原動力。近日從孫院長哲嗣一鳴兄處，獲得孫院長於亞新二十週年慶時之訓勉手稿，如獲至寶，孫院長在中風後，行動及寫字極不方便，但仍作此手稿，並親蒞亞新慶祝會場致辭，亞新全體同仁除感謝外，並希望能依孫院長之勉勵，繼續堅持為國家社會努力服務，所附照片為孫院長在亞新二十週年慶致辭時所攝及其手稿。



MAA 20<sup>th</sup> Anniversary, April 1995



MAA 30<sup>th</sup> Anniversary, April 2005



MAA 30<sup>th</sup> Anniversary, April 2005

## **BACKGROUND OF DR. SUN YUN-SUAN**

– Information from Wikipedia, the free encyclopedia

Sun Yun-Suan (孫運璿) ( 11 November 1913 to 15 February 2006) was a Chinese engineer and statesman. As minister of economic affairs from 1969 to 1978 and Premier of the Republic of China from 1978 to 1984, he was credited for overseeing the transformation of Taiwan from being a mainly agricultural economy to an export powerhouse.

### **— Early Life and Engineering Career**

Born in Penglai, Shandong Province, he earned his Bachelor of Electrical Engineering from the Harbin Polytechnic Institute in 1934. From 1937 to 1940 he was an engineer at the National Resources Commission and worked at a government run power station in Qinghai province. During World War II, he was sent by the National Resources Commission to train in the United States as an engineer at the Tennessee Valley Authority. In 1946, he was sent to Taiwan to work at the Taiwan Power Company, a public utility. Managing a staff of several hundred, Sun was able to get 80% of the power network in Taiwan (which was destroyed during the war) restored in five months. At Taiwan Power Company, he was Head Engineer of the Electrical and Mechanical Department from 1946 to 1950, Chief Engineer from 1950 to 1962, Vice President from 1953 to 1962 and President from 1962 to 1964. Due to his successes in Taiwan, the World Bank sent him to Nigeria as head of the Electricity Corporation of Nigeria in 1964, which he served as CEO and General Manager until 1967. He increased Nigeria's power supply by 88%.

### **— Government career**

He returned to Taiwan and joined the ROC government as Minister of Communications in 1967. In 1969, he was transferred to become Minister of Economic Affairs and served until 30 May 1978 when he was promoted to Premier of the Republic of China. He is accredited as one of the chief architects of Taiwan's "economic miracle" that led Taiwan to become one of the East Asian Tigers. It was during Sun's premiership

the Ten Infrastructure Projects, including the Chiang Kai-Shek International Airport, the Number 1 Nuclear Power Plant and the Sun Yat-Sen National Expressway, were completed. Sun championed the establishment of high-technology industries that would later become the basis of the Taiwanese economy. He initiated the development of the Industrial Technology Research Institute (that would later give rise to numerous major semiconductor companies such as TSMC) and Hsinchu Science-based Industrial Park which would serve as a major electronics and semiconductor manufacturing hub. Sun is also credited for transforming Taiwan's existing export industries, which were developed in the 1960s and centered on textiles, shoes, plastic toys, and agriculture, to the more sustainable fields of petrochemicals, machine tools, and electronics.

### **— Later Life**

Sun was once regarded as heir apparent to Chiang Ching-Kuo, but he suffered a stroke during a legislative interpellation session in 1984, ending his political career. Instead, Lee Teng-hui became Chiang's heir apparent and ultimate successor. Sun resigned as premier on 20 May 1984 and was appointed to the largely honorary position of senior advisor to the President of the Republic of China.

After his stroke, Sun became a major advocate of health issues such as the importance of monitoring high blood pressure for elderly people. He also campaigned against smoking.

Another stroke left him wheelchair bound. Nevertheless, Sun remained politically active in his later years and campaigned on behalf of KMT presidential candidate Lien Chan in the 2004 presidential election.

He died at the age of 93 while hospitalized at the Veterans General Hospital in Taipei as a result of myocardial infarction and septicemia. His funeral was held on 25 February 2006 and his ashes were interred at the Keelung Hsin Hsin Cemetery.

四月十八日下午五時 於聯勤信義俱樂部

今天是亞新工程公司的二十週年慶祝酒會。參加的許多老花大之家。大家在一起歡慶這二十週年紀念。內心感到非常愉快和榮幸。運璿和亞新的兩位主持人莫氏昆仲有三代的交誼。口口過去在大

我於老上司。那時本人正擔任把沿海的機器搶運到內陸的工作。蒙莫老先生的指導和協助。能完成任務。後來我被調到台灣主持台電的搶修工作。莫老先生也被派執掌台灣鐵路局。努力把當時千瘡百孔的台灣鐵路修復通車。成為全省交通的命脈。當時我也得到莫老先生許多的指教和協助。後來我擔任經濟部長期間。政府派我兼任在泰國曼谷的亞洲理工學院的董事。那時莫若楫先生正好在該校擔任副校長兼校董的職務。大家時常見面。莫先生品學兼佳。治學方針嚴明公正。是以前在期間深受全校師生愛戴。不僅為東南亞國家造就了大量的技術人才。更為我國培育了三千的高級幹部。他們於學成後。大多返國繼續服務參加祖國建設。莫先生可以說是桃李滿天下。而且大多數位居要津。民國六十年後國內開始十大建設。政府號召海內外學者專家返國投入國家建設行列。若楫先生與乃兄應召返國。設立亞新工程顧問公司。以所長大地及結構土木工程號召各地桃李貢獻祖國及東南亞國家廣受歡迎。業務擴充甚速。由創辦時之數人到今日之數百人。莫氏昆仲及所率領之亞洲理工學院數百校友對我國建設貢獻殊多。實為台灣經濟奇蹟之功臣。

工員。就認圖亞東南亞國家廣受歡迎。業務擴充甚速。由創辦時之數人到今日之數百人。莫氏昆仲及所率領之亞洲理工學院數百校友對我國建設貢獻殊多。實為台灣經濟奇蹟之功臣。

本人身上滿在不能再予割捨。當時本人擔任把沿海的機器搶運到內陸的工作。蒙莫老先生的指導和協助。能完成任務。後來我被調到台灣主持台電的搶修工作。莫老先生也被派執掌台灣鐵路局。努力把當時千瘡百孔的台灣鐵路修復通車。成為全省交通的命脈。當時我也得到莫老先生許多的指教和協助。後來我擔任經濟部長期間。政府派我兼任在泰國曼谷的亞洲理工學院的董事。那時莫若楫先生正好在該校擔任副校長兼校董的職務。大家時常見面。莫先生品學兼佳。治學方針嚴明公正。是以前在期間深受全校師生愛戴。不僅為東南亞國家造就了大量的技術人才。更為我國培育了三千的高級幹部。他們於學成後。大多返國繼續服務參加祖國建設。莫先生可以說是桃李滿天下。而且大多數位居要津。民國六十年後國內開始十大建設。政府號召海內外學者專家返國投入國家建設行列。若楫先生與乃兄應召返國。設立亞新工程顧問公司。以所長大地及結構土木工程號召各地桃李貢獻祖國及東南亞國家廣受歡迎。業務擴充甚速。由創辦時之數人到今日之數百人。莫氏昆仲及所率領之亞洲理工學院數百校友對我國建設貢獻殊多。實為台灣經濟奇蹟之功臣。

亞新顧問公司百尺竿頭一更進一步。再展再厲。大發展。為我國顧問工程公司放一異彩。

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

孫運璿  
四月十八日下午五時於聯勤信義俱樂部

亞新全體同仁成功和全體來賓健康

今天是我亞新二十週年紀念日。看見莫氏昆仲的成功內心有萬分的愉快。我來這裡不只是道喜而也是道謝。並祝福亞新顧問公司百尺竿頭「更進一步」再展再厲。大展宏猷。為我國顧問工程公司放異彩！

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

祝福也。謝。兩位主持人也祝。亞新全體同仁成功和全體來賓健康。

Dr. Sun Yun-Suan's Handwritten Draft of the Congratulatory Note to MAA During the 20th Anniversary in 1995.

# PROJECTS 1<sup>st</sup> October 2005 – 31<sup>st</sup> March 2006

In the six-months period from 1<sup>st</sup> October 2005 to 31<sup>st</sup> March 2006, MAA Group have completed 42 projects and commenced 67 new projects.

## PASSENGER DEDICATED LINES, CHINA

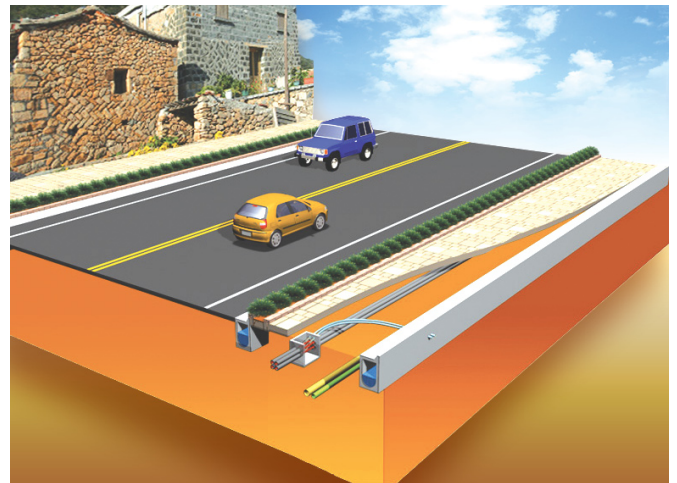
China has a strong ambition to build up its rail infrastructure network to meet transportation demand between cities and provinces, with a vision of establishing a total of 24,000 km of additional rail line of which 12,000 km will be high-speed rail. Of the high-speed rail lines, China plans to build up the Passenger Dedicated Line (PDL refers to rail system speed over 200 to 350 km/hr) network throughout the country with the goal of constructing and operating 5,000 km of PDL rail by 2010 and 12,000 km of PDL rail by 2020.



High-Speed Rail

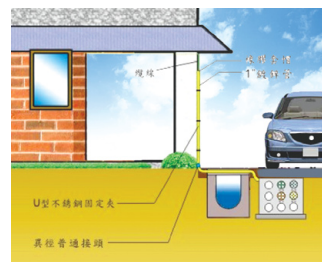
MAA International, as a member of the consortium of ARCADIS and local Chinese design institutes, has been awarded in January 2006 the contract for construction supervision for a 247 km long section of the PDL from Wuhan to Hwadu. The project is part of the 930 km long high-speed railway line between Wuhan City in Hubei province and Guangzhou City in Guangdong province (Wu-Guang Line). The connection will be a major link from Beijing (via Wuhan) to Guangzhou, Shenzhen and Hong Kong. Total investment for the entire Wu-Guang line is about 93.0 billion RMB. The awarded contract includes 142 bridges (97,315 m total length), 74 tunnels (90,146 m total length), 60 km embankment and 3 stations and total construction period is 54 months, of which 6 months are for testing & commissioning.

## BROADBAND CHANNEL PROJECT IN LIENCHIANG COUNTY TOWNSHIPS



Broadband Channel Project in Lienchiang County Townships

With five townships, including the famous Matsu Island, Lienchiang County is one of two counties under the Fuchien Province. In a series of projects to improve communication and development, the Lienchiang County Government engaged MAA to provide planning and design services for broadband channels. Specifically, the contract includes the planning of approximately 48,000 meters of broadband channels around the five major islands of Lienchiang County and the detail design of road section that will hold 10,000 meters of broadband channels in Nangan Township and Dongyin Township. A CCBOX structural style is adopted for the broadband channel. The overall construction period is from 2006 to 2009.



Broadband Channel Project in Lienchiang County Townships

## THE XIN-YI EXPRESSWAY OPEN TO TRAFFIC



*Xin-Yi Expressway Tunnels*



*Xin-Yi Expressway*

**X**in-Yi Expressway, a crucial route that connects the crowded Taipei East-Area with the Wan-Fang interchange area, opened to traffic on 14 May 2005. The expressway is a major linkage between many commercial and residential areas, including the Taipei Xin-Yi district, Wen-Shan area, Mu-zha area and Shen-Keng area. The linkage will not only bring in more people into the commercial Xin-Yi Commercial Zone where the Taipei 101, shopping malls and World Trade Exhibition Halls are located, but will also create new economic development opportunities for the other connected areas. At the same time, the opening of the expressway will alleviate the heavy traffic loading on the Northern Taiwan Second Freeway to Taipei Connection Route and Ji-Long Road.

Specifically, Xin-Yi Expressway starts from Mu-Zha Road of Wen-Shan area, passes through the Wan-Fang interchange of Northern Taiwan Second Freeway, and then cuts through Mu-Zhi Mountain area with a double-boring tunnels (twin-tunnel). Continuing north with an elevated overpass, the expressway passes through Xiang-Shan Mountain area and ends at Lane 91 Section 5 of Xin-Yi Road, which is located at the eastside of Zhong-Qiang Park. Xin-Yi Expressway is designed to be a two-way, 6-lane road, with a total length of approximately 3.2km, including:

1. 1400 m long Wen-Shan tunnel
2. 105 m long elevated connecting overpass
3. 990m long Xiang-Shan tunnel
4. Southern and Northern access ramps

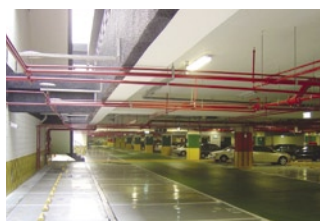
**NATIONAL TAIWAN UNIVERSITY XIN-SHENG SOUTH ROAD UNDERGROUND PARKING-LOT CONSTRUCTION PROJECT**

In July 2004, MAA was engaged as the consultant for project management and supervisor by National Taiwan University for the NTU Underground Parking Lot construction project. The project is a turn-key project that includes:



*Opening Ceremony*

1. A 2-storey underground parking-lot for 353 automobiles and 1330 motorcycles, with a total area of 16,290 square meter. A without-girder slab structure was adopted in the design for space efficiency through a top-down construction method.



*National Taiwan University parking Lot*



*National Taiwan University, Exhibition Hall*

2. A 3-storey steel structure Exhibition Hall and Shopping Center, with a 670 square meter floor area to exhibit and sell agricultural products.

3. The reconstruction of the original sports field and access road. The construction started on 23 July 2004 and was completed on 7 September 2005. Due to excellent control on schedule, quality control, detailed documentation, the project was nominated as a model turnkey project. On 5th of November, MAA was awarded the Sixth (2005) Public Construction Golden Achievement Award for Project Management Consultation (see page 10).

**INVESTIGATION AND SUPERVISION OF LANDSLIP PREVENTIVE MEASURES FOR AN EXISTING SLOPE WITHIN THE BUDDHIST CEMETERY AT CAPE COLLINSON ROAD, HONG KONG**



*Existing Slope at Buddhist Cemetery, Hong Kong*

MAA was engaged by the Hong Kong Buddhist Association for the investigation and supervision of Landslip Preventive Measures for an existing slope within a Buddhist Cemetery in Hong Kong. The project began in March 2003 and ended in December 2005. The slope under investigation is a 50 m long cut slope up to 19 m high, and consists of three 50 degrees steep slope flights separated by intermediate berms. Behind the slope crest is a catchwater, possible leakage from which has been considered in the stability investigation. Upgrading measures implemented to bring the slope to current safety standard include re-profiling, soil nailing, raking drains, and concrete buttresses. The soil nails are maximum 11 m long and are provided with solid copper wire with insulation for non-destructive test by time domain reflectometry method to verify the length of soil nails installed and quality of grouting. Fifteen pull-out tests have been carried out on trial nails to verify the design assumptions, in particular the bond strength between grout and surrounding soil, prior to installation of working soil nails. As for soft landscaping planter holes are provided at the shotcrete cover to the slope surface.

**GEOTECHNICAL CONSULTANCY SERVICE FOR DOMESTIC DEVELOPMENT AT SHAN TOWN LOT NO. 206, MA LIU SHUI, NEW TERRITORIES**



Ma Liu Shui Shan Town Development, Hong Kong

MAA was engaged in December 2005 by T.K. Tsui & Associates Ltd. to provide geotechnical consultancy services for a domestic development at Shan Town Lot No. 206 in New Territories. The proposed development comprising twenty-two blocks of residential buildings will be constructed on two platforms formed by cutting into hillside with slope angle as steep as 35 degrees to horizontal. The height of excavation will be as much as 14 m high and will be supported by cantilevered bored pile wall. There exist eleven slope and wall features within the site. Several of them have past records of instability. Their long-term stability conditions need to be assessed and upgraded if found necessary to ensure safety to the tenants. A comprehensive surface drainage system will be installed to intercept and carry away surface run-off water from a large catchwater area on the uphill slope behind the site. Protective fences will be erected to catch the boulders rolling down from the upslope area.

**PROPOSED BUSINESS AND FINANCIAL CENTER (PHASE 1) AT MARINA BOULEVARD / CENTRAL BOULEVARD, SINGAPORE**



New Business and Financial Center, Singapore

Currently Singapore is developing a new Business and Financial Center (BFC), located at the Marina Boulevard/Central Boulevard. BFC Development Pte. Ltd. engaged MAA to provide geotechnical study, which consists of the drilling of 80 deep boreholes down to 80m depth and field/lab tests with regard to the foundation system and excavation work of the proposed commercial / residential development to be built over the young reclaimed land where the existence of highly permeable hydraulic sand fill underlying with thick under-consolidated marine clay and the sensitive MRT structures is the great concern in the foundation and basement construction works of the proposed development. The proposed Phase 1 development comprises of one 46-storey and one 34-storey tower blocks with underground retail cum parking structures and underground pedestrian link structures to be built over the young reclaimed land in close proximity to the existing north and south bound MRT tunnels between Raffles Places and Marine South Stations. The service period began in February 2006 and ended in April 2006.

**TOLL COLLECTION AND TRAFFIC SAFETY CONTROL SYSTEMS FOR BANG PLEE – SUKSAWAT EXPRESSWAY AND HIGHWAY 37 PROJECT, THAILAND**



*ETA Toll Plaza, Thailand*

Thailand is recognized as one of the fastest growing and most successful developing countries in the world. However, there is still an inadequacy in road infrastructure development in order to support its economic



*ETA Toll Plaza, Thailand*

growth. In Bangkok Metropolitan Region (BMR), the most densely populated urban area in Thailand, there is an urgent need for substantial investment in urban transport infrastructure. e.g. roads, mass transit, as well as the inter-urban transport, e.g. high speed rail, to link Bangkok with other major provincial cities. During the Ninth National Economic and Social Development Plan for the years 2002 to 2006, Thailand’s Expressway & Rapid Transit Authority (ETA) particularly outlined the expressway master plan in Bangkok. The purpose is to complete the expressway network and to further lessen the heavy traffic congestion in Bangkok and its suburbs. Specifically, the South Bangkok Outer Ring Road – Bang Plee to Suksaway Section is an important section that will complete the expressway network in the south of Bangkok. MAA Thailand was engaged by ETA to design the toll collection and traffic safety control systems for the Bang Plee-Suksawat Expressway section. The

toll collection and traffic safety controlling system comprises of the construction and design of tollway facilities (control building, police station toll plaza toll surveillance building) and the installation of the toll collection closed system at 6 locations - Rama 2, Suksawat, Sukumvit-Srinakarin, Theparak, and Wat Saloot. Design and construction of roadway, fencing, retaining wall and storm drainage system connecting between the toll plazas are also included. The installation of Traffic Controlling and Traffic Safety Management system is also required for the Bang Plee- Bang Khuntien expressway section.

**ALILA, PENANG, MALAYSIA**

ALILA, a mixed development project undertaken by M/s Hunza Properties (North) Sdn. Bhd. is located on a piece of hilly land at Tanjung Bungah, Penang, Malaysia. The development consists of two (2) blocks of 19-storey luxury apartments (256 units) and 162 units of 3-storey condo-villas. Construction of the earthwork and building foundation is in progress which involve soil-nailed slope, reinforced earth retaining walls, hand-dug caisson foundation and rock blasting using controlled blasting and pre-splitting techniques. MAA is the geotechnical, civil and structural detail design service consultant for the mixed development project. The service will last from 2001 to 2008.



*Alila Mixed Development*

# PROFESSIONAL ACTIVITIES

## ► Professional Awards

### ADJUNCT PROFESSOR AT THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Dr. Za-Chieh Moh was appointed as an Adjunct Professor in Civil Engineering at the Hong Kong University of Science and Technology from 1 July 2006 to 30 June 2008.

### DR. CHUNG-TIEN CHIN RECEIVES ADVISORY PROFESSORSHIP FOR HOHAI UNIVERSITY, NANJING, CHINA.



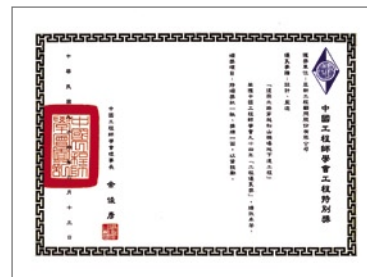
On 21 April 2006, Dr. Chung-Tien Chin was invited to act as an Advisory Professor to the Geotechnical Engineering Department at Hohai University, Nanjing, China. Hohai University is a key university in China with special emphasis in engineering. Hohai University (formerly known as East China University of Water Resources) is one of the first universities empowered by the State Council to confer Bachelor's, Master's and Doctor's degrees. It is also one of the 100 universities stipulated by China for education enhancement and development (known as "211 Project"). The Geotechnical Institute of Hohai University (GeoHohai) was founded in 1952 and was accredited by the Ministry of Education as the national key subject in 1988. Post-doctoral program was commenced in 1991 and in 1994 the Ministry of Water Resources approved the geotechnical engineering laboratory at GeoHohai as a key lab in China. GeoHohai now employs 47 qualified staffs, including 14 Ph.D supervisors, 16 professors, 12 associate professors and 18 lecturers. Currently 34 staffs have Ph.D degree, and there are 96 Ph.D students and 236 masters students studying at GeoHohai.

### CHINESE INSTITUTE OF ENGINEERS AWARDS TAIPEI FUSHING NORTH ROAD SONG-SHAN AIRPORT UNDERPASS FOR OUTSTANDING DESIGN AND CONSTRUCTION SUPERVISION (中國工程師學 會特別獎 - 復興北路穿越松山機場地下道工程)



Taipei Fuhsing North Road Underpass ESA Construction Method

During the June 2005 annual convention, Chinese Institute of Engineers awarded MAA two Special Engineering Awards for Outstanding Design and Construction Supervision of the Taipei Fushing North Road Song-Shan Airport Underpass. Taipei Fushing North Road Song-Shan Airport Underpass project has achieved several world records including the following:



- World No. 1** - The roadway underpass construction through fully operated airport
- World No. 1** - Total length by Piping-roof construction method (27,373 m)
- World No. 2** - Total quantity by ESA construction method (17,316 m<sup>3</sup>)
- World No. 3** - Total length by ESA construction method (101 m)
- World No. 3** - Longest length by Piping-roof construction method (103.5 m)

**OUTSTANDING CONSTRUCTION MANAGEMENT AWARD FOR TURNKEY PROJECT, NATIONAL TAIWAN UNIVERSITY UNDERGROUND PARKING LOT (第六屆公共工程金質獎 - 國立台灣大學新生南路地下停車場新建工程統包工作 -- 專案管理)**

**LETTER OF APPRECIATION FOR THE TURNKEY PROJECT OF NATIONAL TAIWAN UNIVERSITY UNDERGROUND PARKING LOT (台灣大學感謝狀 - 台灣大學新生南路地下停車場新建工程專案管理暨監造工作)**



Golden Award



In the sixth Public Construction Golden Achievement Award ceremony, MAA was awarded by the Public Construction Commission of the Taiwan ROC Government for the outstanding construction management of the turnkey project, National Taiwan University Underground Parking Lot.

National Taiwan University awarded MAA a certification of appreciation for quality engineering performance, professional & perfect team work, and the success of a timely completion of the turnkey project of National Taiwan University Underground Parking Lot. In particular the client commended Project Supervisor Mr. Ching-Foung Lu, Project Engineer Mr. Win-Sen Lin, Geotechnical Engineer Dr. Ta-Chun Yao, Structural Engineer Dr. Yung-Chen Wang, Supervise Engineer Mr. San Yi-Fang, Geotechnical Engineer Mr. Meng-Han Chuang and Engineer Ms. Yen-Ping Hsu for their efforts.



National Taiwan University

**THE BRITISH CONSTRUCTION INDUSTRY AWARDS GAVE THE INTERNATIONAL AWARD TO TAIWAN HIGH SPEED RAIL (THSR) PROJECT CONTRACT C270**

On 13 October 2005, The British Construction Industry Awards gave the International Award to Taiwan High Speed Rail (THSR) Project Contract C270 of which MAA is the Contractor's Independent Checking Engineer. MAA was especially commended by THSR for coordinating and smoothing the design and construction process of this section.



## ► International Seminars and Conferences

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
Transportation Forum	Transportation Bureau, Kaohsiung City	Kaohsiung	03/10/2005	03/10/2005
Workshop on Applications of Formosat-2 Satellite Image	Center for Space and Remote Sensing Research, National Central University	Taoyuan	05/10/2005	05/10/2005
The 13th Conference on Pavement Engineering (2005)	Chinese Society of Pavement Engineering	Hsinchu	13/10/2005	14/10/2005
Training Course for 3G & LBS Applications	Industrial Development Bureau, Ministry of Economic Affairs	Taipei	17/10/2005	20/10/2005
Workshop on Advancing Sharing Method	Taiwan Construction Research Institute	Taipei	19/10/2005	19/10/2005
Advanced Course on Electric Facilities and Construction Techniques	Taiwan Economic Development & Research Institute	Taipei	19/10/2005	08/01/2006
Conference on Hot Spring Resource Management	Energy & Environment Research Laboratories, Industrial Technology Research Institute	Yilan	20/10/2005	21/10/2005
Training Course for 3G & ITS Applications	Industrial Development Bureau, Ministry of Economic Affairs	Taipei	24/10/2005	27/10/2005
The 6th Symposium on Drainage and Improvement Engineering	Nanjing Hydraulic Research Institute	Nanjing	25/10/2005	28/10/2005
U.S-Taiwan Workshop on Bridge Maintenance '05	Caltrans, Taiwan Area National Freeway Bureau, MOTC & etc.	Taipei	26/10/2005	27/10/2005
2005 Annual Conference of Taiwan Geographic Information Society	GIS Research Center at Feng Chia University	Taichung	27/10/2005	28/10/2005
Seminar on Application of Value Engineering Course Report	Value Management Institute of Taiwan	Taipei	28/10/2005	28/10/2005
Seminar on Practice of Nonlinear Static Pushover Analysis	Chinese Union of Professional Civil Engineer Associations	Taipei	29/10/2005	29/10/2005
Seminar on Engineering Experience for Steel Building	Chinese Architecture and Building Center	Taipei	02/11/2005	03/11/2005
International Symposium on Design Construction and Operation of Long Tunnels	Chinese Taipei Tunnelling Associations	Taipei	07/11/2005	10/11/2005
Workshop on Engineering Schedule Arrangement & Examination of Network Diagram & Analysis for Engineering Delay	The Chinese Association of Engineering Consultants	Taipei	10/11/2005	10/11/2005
Seminar on Work Specification and Practice on Diaphragm Wall Construction for Building Structure	Chinese Architecture and Building Center	Taipei	16/11/2005	16/11/2005
Workshop on By the Actual Example to Probe the Causes of the Engineering and Legal Problem	Chinese Institute of Civil and Hydraulic Engineering	Taipei	24/11/2005	25/11/2005
The 20th Annual Conference for the Chinese Institute of Transportation	Chinese Institute of Transportation	Taipei	25/11/2005	25/11/2005
Seminar on Corrosion Protection for Galvanized Reinforcement in Concrete	Galvanizing Association of Taiwan	Taipei	28/11/2005	28/11/2005

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
Course of AutoDesk Map 3D	Precision Probe, Inc.	Taipei	07/12/2005	08/12/2005
2005 Annual Conference of Chinese Institute of Civil and Hydranlic Engineering	Chinese Institute of Civil and Hydraulic Engineering	Yilan	09/12/2005	09/12/2005
Seminar on the Application of Tradition and Modern Curtain Wall for Building Construction	The Curtain Wall Technology Development Association of the Republic of China	Taipei	14/12/2005	14/12/2005
Symposium on the Research Results of Lidar	Engergy & Environment Research Laboratories, Industrial Technology Research Institute	Hsinchu	20/12/2005	21/12/2005
Workshop on Project Management Fundamentals	The Chinese Association of Engineering Consultants	Taipei	22/12/2005	23/12/2005
Workshop on Ground-Freezing Technique and Its Applications	Taiwan Geotechnical Society	Taipei	23/12/2005	23/12/2005
Model I Training Courses of Value Engineering	Value Management Institute of Taiwan	Taipei	08/01/2006	18/02/2006
Seminar on Project Risk Management	The Chinese Association of Engineering Consultants	Taipei	10/01/2006	10/01/2006
International Project and Construction Management Advanced Course	Taiwan Construction Research Institute	Taipei	12/01/2006	13/01/2006
Symposium on Tunnel Construction in Gravels/Rocks/Multiple Soil Layer/LongDistance Curved Alignment	China Taipei Society for Trenchless Technology	Taipei	18/01/2006	19/01/2006
Lecture Series for Project Management for Turn-key and the Most Adventageous Tender	Taiwan Construction Research Institute	Taipei	19/01/2006	20/01/2006
Seminar on Promotion of private participation in Infrastructure Projects	Taipei Professional Civil Engineering Association	Taipei	20/01/2006	20/01/2006
Training Course for Integration of CSD/SEM Interface Drawings	Taiwan Construction Research Institute	Taipei	24/01/2006	25/01/2006
2005 Annual Conference on Hazards Mitigation Research	National Science and Technology Center for Disaster Reduction	Hualien	15/02/2006	16/02/2006
Public Construction Quality Management Training Course	China Productivity Center	Taipei	23/02/2006	10/05/2006
Public Construction Quality Management Retraining Course	Public Construction Commission, Executive Yuan	Taichung	01/03/2006	30/06/2006
Intelligent Transportation Society(ITS) Forum	Intelligent Transportation Society of Taiwan	Taipei	02/03/2006	03/03/2006
Seminar on the 5th Cross-Strait Tunneling and Underground Engineering	Chinese Taipei Tunnelling Associations	Taipei	06/03/2006	07/03/2006
Workshop on Document Management and Filing System	China Management Consultants, Inc.	Taipei	10/03/2006	10/03/2006
Seminar on Germany OBO Surge Protection	National Federation of Professional Electrical Engineer Guilds of R.O.C	Taipei	14/03/2006	14/03/2006

## ▶ OTHER MEETINGS

### *HONG KONG INSTITUTE OF ENGINEERS VISITS*



*HKIE Geotechnical Division Visits MAA*

As a part of the “Enhancing Hong Kong Engineers’ understanding and technical know-how on geotechnical engineering in Taiwan and the Mainland China,” the Geotechnical Division of Hong Kong Institute of Engineers (HKIE) organized two activities, one in Hong Kong and one in Taiwan. These activities were the first formal exchanges between the Hong Kong and Taiwan engineers.



*HKIE Geotechnical Division Visits MAA*

A seminar on “The state-of-the-Practice of Geotechnical Engineering in Taiwan and Hong Kong” was held on 20 January 2006 at the Hong Kong Conventional and Exhibition Center. The seminar received overwhelming response and attended by over 300 participants. Five geotechnical experts from Taiwan were invited to give presentations in the seminar. They include Professor John Li from the National Central University, Professor M. L. Lin from the National Taiwan University, Professor H.C. Liao from the National Taiwan University of

Science and Technology, Dr. Richard N. Hwang and Dr. C.T. Chin, Senior Vice Presidents of MAA Group. Dr. Hwang spoke on Design and Construction of Deep Excavations in Taiwan. Dr. Chin presented a talk on Foundation Engineering Practice in Taiwan – High Speed Rail Experience.

A technical visit to Taiwan was organized by the Hong Kong group on 12-14 April 2006 with 36 members of the Geotechnical Division of the HKIE. The local organizer was the Chinese Taipei APEC Engineer Monitoring Committee. During the three days visit, the delegation called on MAA to exchange information and experience.

### *THAILAND HIGHWAYS DEPARTMENT VISITS MAA*



*Thailand Highways Department Visits MAA*

A delegation of 35 officials from the Department of Highways of the Kingdom of Thailand visited Taiwan from 5th to 7th April 2006. The delegation, consisting of Bureau Directors, District Engineers and led by Mr. Thongchai Sridama, Deputy Director General, had an exchange discussion with MAA during the visit.

### *AITAA SEMINAR*

A seminar on Recent Developments on Mitigation of Natural Disasters, Urban Transportation, and Construction Industry was organized by the Indonesian Chapter of the Asian Institute of Technology Alumni Association during the AITAA’s 34th Governing Board meeting held in Jakarta on 2 December 2005. Dr. Za-Chieh Moh was invited to deliver a lecture on Geotechnical Considerations in the Design and Construction of Subways in Urban Areas. In addition to delegates of the AITAA from more than 15 countries, the engineering community including government public works officials were invited to attend.

## CHINA DELEGATIONS VISITS MAA

Three separate delegations visited MAA during their exchange in Taiwan. They are:

CHINA DELEGATION	ORGANIZER	DATE
廣東省東莞市公路管理局訪問團 Guangdong DongGuan City Highway Management Bureau Delegation	中華海峽兩岸文教經貿關係促進會 Chinese Cross Strait Culture and Education Relationship Association	2005/11/21
2005 兩岸鐵道工程技術與營運管理研討會 2005 Cross Strait Railway Engineering Technical and Operation Management Conference	淡江大學技術學院 College of Technology, Tamkang University	2005/12/18
廣東省公路考察團 Guangdong Highway Delegation	中華民國道路協會 China Road Federation	2006/1/6

## NATURAL DISASTER MITIGATION CONFERENCE

An aftermath of the devastating tsunami disaster that occurred on 26 December 2004 in the South and Southeast Asia is the formation of a Joint Working Group on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (JWG – DMR). The JWG is hosted by the Southeast Asian Geotechnical Society and supported by Geotechnical Societies of Australia, China, India, Indonesia, Japan, Korea and Sri Lanka. The Chairman of the Executive Committee of the JWG-DMR is Associate Professor Chu Jian of the National University of Singapore representing the SEAGS. Dr. Za-Chieh Moh was invited to Chair the International Advisory Committee.

The first formal activity of the JWG-DMR was the International Conference on Geotechnical Disaster Mitigation and Rehabilitation (GESDMR05) held in Singapore on 12-13 December 2005. Dr. Za-Chieh Moh was invited to deliver a keynote lecture entitled Natural Disasters in Taiwan.

## ► TECHNICAL PUBLICATIONS

Cheng, B.Y., Lin, M.S., Jim, C.H., and Huang, C.C. (2005), "GIS System for Monitoring and Regulating Construction Activities", *2005 Annual Conference of Taiwan Geographic Information Society, Taiwan*.

Cheng, B.Y., Lin, M.S., Sung, Y.M., Sung, H.J. (2005), "Establishment and Implementation of Management System for Underground Utilities", *2005 Annual Conference of Taiwan Geographic Information Society, Taiwan*.

Chin, C.T. and Chen, J.R. (2006), "Foundation Engineering Practice in Taiwan – High Speed Rail Experiences", *Proc., Seminar on the State-of-the-Practice of Geotechnical Engineering in Taiwan and Hong Kong, Hong Kong Institute of Engineers, Hong Kong, pp.29-54*.

Huang, T.M., Huang, C.H., Chi, C.C., Huang, C.C., and Chang, M.H. (2005), "The Use of GIS Technique on Survey of Geological Hazards", *2005 Annual Conference of Taiwan Geographic Information Society, Taiwan*.

Hwang R. N., Moh, Z.C. and Kao, C.C. (2006), "Design and Construction of Deep Excavations in Taiwan," *Proc. The State-of-the-Practice of Geotechnical Engineering in Taiwan and Hong Kong, Hong Kong Institute of Engineers, Hong Kong, pp. 9-27*.

Moh, Z.C. and Hwang, R.N. (2005), "Geotechnical Considerations in the Design and Construction of Subways in Urban Areas," *Invited Lecture, Proc. AITAA Seminar on Recent Developments on Mitigation of Natural Disasters, Urban Transportation, and Construction Industry, Jakarta, Indonesia.*

Moh, Z.C. and Lin P.C. (2006), "Chapter 6: Case study of ground improvement work at the Suvarnabhumi Airport of Thailand," *Ground Improvement: Case Histories, Vol. 3, Australia, pp. 159-198.*

Moh, Z.C. and Yao, D.T.C. (2005), "Natural Disasters in Taiwan", *Keynote Lecture, Proc. International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMR05), Singapore, pp.23-45.*

Su, T.C., Wang, C.H., Chin, C.T. and Chen, M.S. (2005), "Case Study of Ground Improvement with PVD in the Keelung River Reclamation Project", *Proc., 6th National Conference on Drainage and Ground Improvement Techniques, Nanjing, China.*

Yang, G.R., Chou, C.R. and Chin, C.T. (2005), "Application of Ground Treatment in MRT Shield Tunneling", *Proc., 2005 Cross-Strait Civil Engineering Exchange Symposium, Taipei, Taiwan.*

Yao, D.T.C., Su, T.C. and Wang, C.H. (2005), "A Case Study on Tunnel Construction under River", *Proc. International Symposium on Design, Construction and Operation of Long Tunnels, Taipei, Taiwan.*

Yu, C.J., Sung, Y.M., Chi, C.C., Chang, M.H., and Huang, C.C. (2005), "Integrated Database for Environmental and Engineering Geology", *2005 Annual Conference of Taiwan Geographic Information Society, Taiwan.*

Yu, C.J., Sung, Y.M., Chu, W.B., and Huang, C.C. (2005), "Platform for GIS Systems for Jung-Li City", *2005 Annual Conference of Taiwan Geographic Information Society, Taiwan.*

## PERSONNEL MOVEMENTS

### ► NEW APPOINTMENTS

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Chia-Chun Yeh	葉家君	Secretary III	Structural Engg. Dept.	03/10/2005
Pao-Cheng Huang	黃伯誠	Structural Engineer II	Structural Engg. Dept.	03/10/2005
Chia-Jui Lin	林佳叡	Civil Engineer II	Construction Management Dept.	03/10/2005
Hsin-Hsuan Li	李心鉉	Structural Engineer III	Structural Engg. Dept.	17/10/2005
Pi-Sung Hsieh	謝必松	Civil Engineer III	Transportation & Civil Engg. Dept. I	20/10/2005
Wen-Chyi Chen	陳文琦	Technician I	Kaohsiung Office	01/11/2005
Yih-Sheng Hsieh	謝奕生	Civil Engineer II	Transportation & Civil Engg. Dept. I	01/11/2005

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Chen-Yuan Chiu	邱振原	Civil Engineer III	Transportation & Civil Engg. Dept. I	10/11/2005
Wei-Wen Chang	張薇文	Civil Engineer II	Construction Management Dept.	16/11/2005
Tsai-Tung Huang	黃綵彤	Clerical Assistant	Environmental Protection Dept.	17/11/2005
Cheng-Chang Lin	林振昌	Electrical Engineer I	Fushing North Road Underpass Project	01/12/2005
Riffer-Koch Zsuzsanna	柯珊娜	Environmental Engineer II	Environmental Protection Dept.	03/01/2006
Chia-Ling Chiu	邱嘉玲	Clerical Assistant	Environmental Protection Dept.	10/01/2006
Chien-I Hsu	徐健一	Senior Vice President	Senior Vice President Office	12/01/2006
Ming-Ching Kao	高銘炯	Civil Engineer II	Environmental Protection Dept.	12/01/2006
Hsin-Yi Shen	沈欣怡	Civil Engineer II	Construction Management Dept.	01/02/2006
Yen-Ping Hsu	許燕萍	Civil Engineer III	Construction Management Dept.	01/02/2006
I-Chiun Liu	劉怡君	Clerical Assistant	Environmental Protection Dept.	04/02/2006
Chih-Yu Sun	孫志裕	Technician I	Kaohsiung Office	10/02/2006
Wan-Ching Chen	陳婉青	Clerical Assistant	Environmental Protection Dept.	15/02/2006
Mi-Ju Chen	陳美如	Civil Engineer I	Construction Management Dept.	16/02/2006
Min-Chieh Lien	連敏傑	Clerical Assistant	Environmental Protection Dept.	24/02/2006
Wen-Hui Yu	游文輝	Civil Engineer II	Geomatics Dept.	01/03/2006
Jiun-Lin Lee	李俊霖	Civil Engineer III	Fushing North Road Underpass Project	01/03/2006
Po-Hung Lin	林柏宏	Civil Engineer II	Transportation & Civil Engg. Dept. I	07/03/2006
Ming-Chou Wu	吳明洲	Senior Technician	Transportation & Civil Engg. Dept. I	08/03/2006
Yen-Hao Chang	張宴豪	Civil Engineer II	Construction Management Dept.	09/03/2006
Ying-Duan Hsu	徐瑛鍛	Technician I	Kaohsiung Office	13/03/2006
Kai-Tse Chen	陳愷澤	Structural Engineer II	Structural Engg. Dept.	13/03/2006
Kuan-Yu Chen	陳冠宇	Civil Engineer III	Construction Management Dept.	14/03/2006
Yen-Tsai Chen	陳彥材	Civil Engineer II	Construction Management Dept.	14/03/2006
Yu-Ching Huang	黃郁青	Civil Engineer II	Construction Management Dept.	15/03/2006
I-Ting Hsu	徐逸婷	Trainee	Administration Dept.	23/03/2006

## ► PROMOTIONS

ENGLISH NAME	CHINESE NAME	DEPARTMENT	FROM	TO	EFFECTIVE DATE
RICHARD JEN-CHUEN MOH	莫仁維	Senior Vice President Office	Special Assistant to the President	Vice President and Special Assistant to the President	12/01/2006

# MAA AWARDS

## ► AWARDS

ENGLISH NAME	CHINESE NAME	DEPARTMENT	POSITION	DESCRIPTION	AWARD TYPE
Meng-Han Chuang	莊孟翰	Geotechnical Engg. Dept.	Geotechnical Engineer I	大地工程部莊孟翰工程師、吳志宏工程師擔任台北捷運工程 CR282 及 IRVX05 標施工圖大地部份審查工作，認真仔細，發揮專業，強化施工圖之正確及完備，降低後續施工風險，獲業主來函肯定對施工品質及安全有莫大助益，提昇公司信譽，經員工獎懲委員會推薦，應各予嘉獎乙次並各發給獎金新台幣參仟元整，以資鼓勵。	Merit Award
Chih-Hung Wu	吳志宏	Geotechnical Engg. Dept.	Geotechnical Engineer I	大地工程部莊孟翰工程師、吳志宏工程師擔任台北捷運工程 CR282 及 IRVX05 標施工圖大地部份審查工作，認真仔細，發揮專業，強化施工圖之正確及完備，降低後續施工風險，獲業主來函肯定對施工品質及安全有莫大助益，提昇公司信譽，經員工獎懲委員會推薦，應各予嘉獎乙次並各發給獎金新台幣參仟元整，以資鼓勵。	Merit Award
Ta-Chun Yao	姚大鈞	Geotechnical Engg. Dept.	Senior Geotechnical Engineer II	工作認真負責，與業主溝通良好，深獲業主肯定，為公司爭取多項業務；對於新領域之工作均能圓滿完成任務，表現優異，堪為楷模。	2005 Staff-of-the-Year Award

## ▶ LONG-YEARS SERVICE AWARDS

AWARD TYPE	COMPANY	ENGLISH NAME	CHINESE NAME	POSITION HELD
25 YEARS SERVICE	MAAT	Ru-Huey Hsu	許如蕙	Secretary I
	MAAT	Tien-Cheng Yang	楊天振	Senior Civil Engineer II
	MAAT	Ming-Shan Chen	陳明山	Senior Geotechnical Engineer II
20 YEARS SERVICE	MAAT	Jong-Mine Hsu	徐中銘	Senior System Engineer
10 YEARS SERVICE	MAAT	Chiu-Yueh Huang	黃秋月	CADD Operator
	MAAT	Ching-Foung Lu	呂鏡方	Senior Civil Engineer I and Manager of Construction Management Dept.
	MAAT	Tung-Yuan Wang	王東源	Senior Civil Engineer II
	MAAT	Kok-Siang Cheng	莊國祥	Senior Civil Engineer II
	MAAT	I-Chou Hu	胡逸舟	Senior Geotechnical Engineer II
15 YEARS SERVICE	MAAT	Kuo-Shang Tseng	曾國祥	Civil Engineer I
	MAAT	Shih-Chang Chun	鍾士昌	Civil Engineer I
	MAAT	Chien-Yi Lee	李建億	Civil Engineer I
	MAAT	Ching-Long Jean	簡慶龍	Driver
	MAAT	Chan-En Kung	龔湛恩	Geotechnical Engineer I
	MAAT	Syh-Yang Ferng	馮賜陽	Geotechnical Engineer I
	MAAT	Sheng-Nan Wang	王勝男	Geotechnical Engineer I
	MAAT	Yu-Min Hsieh	謝玉敏	Secretary I
	MAAT	Kuo-Hsiung Chen	陳國雄	Senior Civil Engineer II
	MAAT	Gwo-Rong Yang	楊國榮	Senior Geotechnical Engineer II
	MAAT	Hui-Yuan Chang	張暉苑	Senior Structural Engineer II
	MAAT	Nan-Huei Hwang	黃南輝	Senior Vice President
5 YEARS SERVICE	MAAT	Sue-Rong Yu	游淑蓉	Accountant III
	MAAT	Shu-Mei Lee	李淑美	CADD Operator
	MAAT	Bih-Liann Lin	林碧戀	CADD Operator
	MAAT	Jian-Bang Yang	楊健邦	Civil Engineer I

5 YEARS SERVICE	MAAT	Kuo-Feng Hsu	徐國峰	Civil Engineer I
	MAAT	Yee-Chen Lin	林怡成	Civil Engineer I
	MAAT	Fang-Ming Kang	康芳銘	Civil Engineer I
	MAAT	Wen-Chang Shih	施文章	Civil Engineer I
	MAAT	Yu-Chuan Lee	李尤娟	Civil Engineer II
	MAAT	Pao-Ya Wu	吳寶雅	Civil Engineer II
	MAAT	Yen-Hui Lin	林燕慧	Civil Engineer II
	MAAT	Wen-Ching Lee	李雯靜	Civil Engineer II
	MAAT	Kung-Hung Chang	張光弘	Civil Engineer II
	MAAT	Chih-Tung Chueh	關志同	Civil Engineer II
	MAAT	Chi-Jen Chang	張及人	Civil Engineer II
	MAAT	Ching-Nan Wu	吳清南	Civil Engineer II
	MAAT	Chi-Lin Shih	石麒麟	Civil Engineer III
	MAAT	Yen-Ping Hsu	許燕萍	Civil Engineer III
	MAAT	Chih-Wen Pan	潘志文	Electrical Engineer II
	MAAT	Chia-Hsing Wu	吳家興	Environmental Protection Engineer I
	MAAT	Jun-Her Guo	郭俊何	Geotechnical Engineer I
	MAAT	Wei-Po Lee	李礎柏	Geotechnical Engineer I
	MAAT	Lung-Yin Jeng	鄭隆印	Group Leader of General Affairs Group
	MAAT	Chu-Ru Lin	林楚儒	Senior Structural Engineer II
	MAAT	Chi-Cheng Wu	吳基政	Senior Technician
	MAAT	Yow-Ruu Chen	陳宥汝	Senior Technician
	MAAT	Wen-Yuan Ho	何文元	Senior Technician
	MAAT	Ching-Yu Chen	陳慶瑜	Senior Technician
	MAAT	Mu-Kuei Chang	張穆奎	Structural Engineer I
MAAT	Li-Chiun Lee	李立群	Structural Engineer I	

# PERSONNEL PROFILES

---



**Mr. Chien-I Hsu (徐健一)**

Mr. Chien-I Hsu joined MAA as the Administration Senior Vice President in January 2006. Mr. Hsu, a graduate from Chung Yuen University and Asian Institute of Technology, was the former President and Chairman of Resource Engineering Services Inc. Mr. Hsu has been involved in all kinds of engineering planning and design of essential projects including civil, structural, geotechnical and transportation engineering. He was elected to hold many important positions including: Director of The Chinese Association of Engineering Consultants, Chinese Society of Structural Engineering, and Chinese Society of Steel Structural Engineering; supervisor of The Taipei Federation of Engineering Consultants; committee member to judge the outstanding engineer for The Chinese Institute of Engineers; assessment committee member of the technological academy's ranking for the Ministry of Education; member of the technical committee board for Bureau of Inspection, MOEA; and the Chief member of Public Relations committee of The Chinese Institute of Civil and Hydraulic Engineering. In his career, he has contributed significantly to different associations and institutes for public welfare. Mr. Hsu has many general engineering experiences in past years. He has completed hundreds of design and construction services on national infrastructure projects such as the Nantz export zone, refinery in Kaohsiung and Tao-Yuen, LNG terminal station, CPC trunk lines and oil storage areas, Second Freeway extension project, Taipei MRT underground mall project, Taiwan High Speed Rail project, Taipei and Kaohsiung MRT system projects, and transmission lines of Taiwan Power company. He played a very important role and had a great contribution to the infrastructure in Taiwan. Mr. Hsu is also a pioneer to lead a team to develop the special piling method with low noise and low vibration. This method is now a popular method used in many of the engineering projects in Taiwan. Mr. Hsu introduced and advocated the ground freezing technology skill and successfully completed the pilot test in National Yunlin University of Science & Technology. It is a big step to improve the technical capability in the field of geotechnical engineering in Taiwan.



**Mr. Richard Moh (莫仁維)**

Mr. Richard Moh was promoted to Vice President of Corporate Development of MAA Group in January 2006. Mr. Moh obtained a Civil & Environmental Engineering Bachelor's degree and Masters in Engineering Management degree from Cornell University (1997 and 1998) as well as an MBA degree from the business school, Wharton (2003). He has worked for Mouchel Asia Hong Kong Limited before joining MAA Taiwan in 1999. After graduation from Wharton he returned and joined MAA as Special Assistant to the President. His experiences ranged widely from technical works to management assignments. Examples of his technical experience include highway/tunnel alignment design for Central Kowloon Route, alignment design for highway interchanges, geotechnical works for Landslide Prevention Measures program in Hong Kong, nonlinear structural & conceptual studies for I.M. Pei's Modern Art Museum of Luxembourg. Currently, Mr. Moh is involved in various management systems review and upgrading for MAA Group.



### **Mr. Ta-Hsing Lee** (李大行)

Mr. Ta-Hsing Lee was promoted to Senior Civil Engineer II in June 2005 for Construction Management Department. Mr. Lee received both B.S and M.S. degrees in Civil Engineering from National Taiwan Institute of Technology in 1985 and 1987, respectively. He is also a Ph.D. Candidate at National Taiwan University of Science and Technology. Mr. Lee joined MAA since 1987 while in between he pursued for a Ph.D. degree. His experience ranged from geotechnical engineering to contract and construction management to the field of privatization. Examples include geotechnical investigation work fo Zhong-Zhou sewage disposal factory and ocean outfall pipe in Kaohsiung, geotechnical inveistaion work for Taiwan Power Company transmission tower foundation from 3rd Nuclear Power Plant to Kaohsiung Port; project coordination and contract management for Hsin Kong Life Insurance Company's 50-storey Hsin Kong Life Tower (the then tallest building in Taiwan), contract management for Ta-Chee Resort and Taipei MRT Chunggho Line Project and 2009 World Games; general consultant works for BOT of CKS International Airport and Taipei City link and feasibility study for the privatization of Tainan Mass Rapid Transit System. Over the years, he has participated in 23 technical papers published in various engineering journals and research papers.



### **Mr. Ta-Cheng Chen** (陳達政)

Mr. Ta-Cheng Chen joined MAA in July 2005. He received his bachelor's degree in civil engineering in 1983 and master's degree in civil engineering in 1986 from Tamkang University. He is a registered Professional Civil Engineer and Profession Geotechnical Engineer, as well as a member of several engineering societies. Currently, Mr. Chen is a member of the DDC team for Taipei MRT DG166.

His major experiences include extensive preparatory planning work for the MRT system, detailed designs for the system's route to meet engineering needs, examination and verification of the authenticity and feasibility of tender's documents, directing engineers to handle first tender of DORT'S project, inspection of consultant selection for lengthy and complex MRT project. Previously as an engineer at CECI, he has participated in RTS/Taipei City Bridge Reconstruction/DaPong Bay National Landscape BOT/Project, liquefaction evaluation for underground structure and monitoring system arrangement, and many other geotechnical related tasks. He was also the Deputy Manager at Join Engineering Consultants and a Senior Geotechnical Engineer at Mott MacDonald Group.



### **Mr. Chin-Chen Lee** (李金城)

Mr. Chin-Chen Lee joined MAA in 2005 as a senior Mechanical & Electrical Engineer. Before joining MAA, Mr. Lee has worked at Bovis Lend Lease. He is a graduate from Chien-Hsing Industrial College (now known as Ching Yun University). Mr. Lee's expertise includes planning, procurement, estimating, bidding, construction management, and integration of mechanical and electrical works, plumbing and HVAC systems for various types of projects. Examples of projects that he participated includes Taoyuan Nankang Oil refinery, freeway toll plazas (Ho-Li, Yuan-Ling, Dou-Nan), co-op houses, retail and office buildings, Zung-Li's SOGO's Department Store, residential village and Ta-Yuan Zuelling Pharma Distribution Center.



**Mr. Gin-Hai San** (孫金海)

Mr. Gin-Hai San joined MAA in 2005 as Technical Manager and Electric-Mechanical System Engineer I of the Electric & Mechanical Engineering Department. Mr. San received his bachelor's degree in mechanical engineering from National Chung Hsing University in 1973. Since graduation, he has worked in China Wire & Cable Co., BES Engineering Co., Taiwan Power Co., Flakt-King Co. and E&C Engineering Co. before joining MAA. Mr. San, a chartered HVAC Engineer, has 30 years of working experience in HVAC system. At China Wire & Cable Co., major works include machine design and betterment work. At BES Engineering Co., he has worked on HVAC, fire service and plumbing supervision for Chiang Kai-Shek Airport Project, Saudi Arabia Ministry of Industrial & Electrical Building Project, and Saudi Arabia Riyadh Industrial Project. At Taiwan Power Co. his major works include specification review, bid evaluation, HVAC design works including Maanshan Power Station hot machine shop etc. and supervision at Chinshan Power Station Radiation Laboratory Building. At Flakt-King Co., major work include market investigation with Flakt Computer Program. At E & C Engineering Co., major works include HVAC, fire service and/or plumbing designs for power stations (Maanshan Power Station Technical Support Center Building and Chinshan Power Station Betterment Project, etc.), nuclear power stations (Chinshan Nuclear Power Station Betterment Project, Kuosheng Nuclear Power Station Miscellaneous Radiation Waste Building, Kimen Tar-Shen Power Station, etc.), MRT and highspeed rail stations and lines (KMRT Orange Line (05-R10), Taiwan High Speed Rail Company Taoyuan, Tainan, Chiayi station and Taichung MRT Wu-yen Win-Hsin and Pei-Tung Line), and other special buildings (various combine-cycle for Chinese Petroleum Co., Chinshan Maintenance Shop HVAC design, Chinshan Off Gas Building HVAC design, etc.)



**Mr. Chu-Wen Yang** (楊主文)

Mr. Chu-Wen Yang joined MAA as a Senior Structural Engineer in 2005. He obtained his bachelor's degree in civil engineering from National Taiwan University in 1982. Prior to joining MAA, Mr. Yang has worked for CECI Corporation, Sinotech Engineering Consultants, Inc., and various Taiwan High Speed Railway Projects. Mr. Yang has substantial experience in various types of structural engineering projects, ranging from Chungho-Kuanhsi Section of Northern Taiwan Second Freeway, Chung Yang Bridge Project, steel disposal mill building, Taklar Sugar Plant in Indonesia to Touchen Viaduct of Taipei-Ilan Freeway, station designs for Taipei MRT Panchiao Line, and various engineering, planning and management related tasks for Taiwan High Speed Rail projects. Mr. Yang has co-written five technical papers for various engineering journals and has held leading positions such as Lead Structural Engineer, Bridge Design Section Chief, and Deputy Design Manager, and Design and Engineering Department Manager of Taiwan High Speed Rail Contract 250.



**Mr. Kuei-Jung Lin** (林貴榮)

Mr. Kuei-Jung Lin joined MAA in 2003 as a Senior Civil Engineer. He obtained a bachelor's degree in civil engineering from Chung Cheng Institute of Technology in 1970, after which he was assigned to the Air Force Engineering Wing, where he participated in the building of the runway and the taxiway in the Zhihang Air Base in Taidong; the planning, design and supervision of airfield facilities; the supervision of foundation works for the Air Force General Hospital; and was later promoted to Engineering Officer in Department of Engineering of Combined Services to take charge of structural designs, drawings and budget reviews. Mr. Lin later worked at Chonghe Construction Co., Ltd, Dengchun Construction Co. Ltd., and China Rebar Construction & Development Co., Ltd where he held various important positions such as construction site manager for various projects; construction manager and chief technician for engineering, bidding, contracting and construction management; and manager and chief engineer. Other works site management for the rebuilding of barracks at Sungshan Air Command, the construction of twin hangars in Pingdong and the Taichung Provincial Museum of Fine Arts, and Rebar London, a project of 12 18-story-on-ground-and-3-underground SRC buildings in Badeh, Taoyuan County for a total cost of NT\$3,600,000,000.



**Mr. Yao-Nan Chen** (陳耀南)

Mr. Yao-Nan Chen joined MAA in 2005 as Senior Electrical Engineer. He is a graduate from Chien-Hsing Industrial College (now known as Ching Yun University) in 1971. Mr. Chen has worked for China Technical Consultant Incorporation (part of CTCI Inc.), Pacific Engineering & Construction Corporation, and E&C Inc. His works ranged from electrical systems design and construction supervision to project management for Taoyuan Refinery, Nuclear Power Generation Stations No. 2 and 3, various industrial and chemical plants, Nankang Depot and Tucheng Depot of Taipei MRT, Semiconductor Wafer Fab Plant, Taipei-Ilan Expressway, Taipei High Speed Rail Hsinchu Station and other THSR stations and depots.





Integrated Solutions For Global Impact  
**MAA GROUP**

**MAA INTERNATIONAL / MAA Engineering Consultants International Ltd.**

Room 2706-2707, 27th Floor, 113-115 Argyle Street, Mongkok Kowloon, Hong Kong SAR, China  
Tel: (852) 2527-0747 Fax: (852) 2861-2081 E-mail: maahk@netvigator.com

**MAA BEIJING / CABR-MAA International Engineering Consultants Ltd.**

Room 368, No. B Building Tong Ji Commercial Plaza, No.13, Eastern Beiyongfang Fu Wai Street, Beijing 100037, China  
Tel: (86-10) 6836-3461, 6834-1071 Fax: (86-10) 6836-3460 E-mail: cabrmaa@public2.bta.net.cn

**MAA HONG KONG / MAA Engineering Consultants (H. K.) Ltd.**

Room 2706-2707, 27th Floor 113-115 Argyle Street, Mongkok Kowloon, Hong Kong SAR, China  
Tel: (852) 2527-0747 Fax: (852) 2861-2081 E-mail: maahk@netvigator.com

**MAA SHANGHAI / MAA Engineering Consultants (Shanghai) Co., Ltd.**

9th Floor, No. 489, Xiangyang Nan Road, Shanghai 200031, China  
Tel: (86-21) 6415-1663, 6415-1883 Fax: (86-21) 6415-0550 E-mail: MAAShanghai@sh.maaconsultants.com

**MAA TAIWAN / Moh and Associates, Inc.**

11th Floor, No.3, Tunhwa South Road, Section 1, Taipei 10557, Taiwan, R.O.C.  
Tel: (886-2) 2578-5858 Fax: (886-2) 2570-5566 E-mail: maagroup@maaconsultants.com

**MAA KAOHSIUNG / Moh and Associates, Inc. (Kaohsiung Office)**

8th Floor, No.53, Mincyuan First Road, Kaohsiung 80251, Taiwan, R.O.C.  
Tel: (886-7) 536-8800 Fax: (886-7) 536-2200 E-mail: kh.maa@msa.hinet.net

**MAA THAILAND / MAA Consultants Co., Ltd.**

221/1 Soi Prachachuen 37, Prachachuen Road, Bang Sue, Bangkok 10800, Thailand  
Tel: (66-2) 975-9300, 975-9310 Fax: (66-2) 975-9312 E-mail: maa@maathai.com

**MAA THAILAND / MAA Geotechnics Co., Ltd.**

39/165-7 Moo 13, Lat Phrao Road, Lat Phrao, Bangkok 10230, Thailand  
Tel: (66-2) 931-0722 Fax: (66-2) 931-0724 E-mail: admin@maageo.com

**MAA MALAYSIA / Moh and Associates (M) Sdn. Bhd.**

64-A Jalan Sri Bahari, 10050 Penang, Malaysia  
Tel: (60-4) 263-2537, 263-2793 Fax: (60-4) 263-5020 E-mail: maam@streamyx.com

**MAA SINGAPORE / Moh and Associates (S) Pte. Ltd.**

#04-09 Golden Mile Complex, 5001 Beach Road, Singapore 199588  
Tel: (65) 6295-0611, 6296-0533 Fax: (65) 6298-7653 E-mail: maaspl@singnet.com.sg

**SURV / SURV (Shanghai) Consultants Corporation**

No.9, Lane 210 Taikang Road, Shanghai 200025, China  
Tel: (86-21) 6415-9950 Fax: (86-21) 6472-0895 E-mail: surv.sha@urbanmatics.com

**SURV / SURV (Taipei) Co., Ltd.**

11th Floor, No.3, Tunhwa South Road, Section 1, Taipei 10557, Taiwan, R.O.C.  
Tel: (886-2) 2579-5933 Fax: (886-2) 2579-5928 E-mail: surv.tpe@urbanmatics.com