



# MAA Bulletin

ISSUE 39  
DECEMBER 2005



*Main Stadium for 2009 World Games, 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 39 December 2005

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

Edited by:

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)

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## ISO 9001 CERTIFICATION



# MAA 30<sup>TH</sup> ANNIVERSARY

The year 2005 marks the 30th anniversary of MAA. In the past three decades MAA has relentlessly provided professional services in the developing countries in East/Southeast Asia. For years of bridging the western profession in eastern settings, MAA has been a key player to introduce new technologies to local areas for various types of developments and infrastructures. The first thirty years have been the foundation building period of MAA. The year 2005 marks a new era for MAA, who will continue to improve and provide integrated services to both public and private clients around the world.

## INTERNATIONAL SYMPOSIUM

As part of the celebration of MAA's 30th anniversary, MAA organized a special international symposium on 22 April 2005 inviting four internationally reknown professionals in the engineering and architecture industry to give a lecture on major projects in the world. MAA appreciates the time each speaker took to fly from all over the world to Taipei to share with clients, industry friends and MAA their experiences and involvements in the landmark projects. MAA especially would like to thank them to allow us to distribute their lectures to the attendees. A CD-ROM was especially prepared to store their slides and videos of the symposium.



International Symposium CD-ROM



TOPIC	LECTURER	TITLE
Opening Speech	Mdm. Yao-Chi Kuo	Minister without Portfolio / Chairperson of Public Construction Commission, Executive Yuan
		Executive Director of 921 Earthquake-Disaster Recovery Commission, Executive Yuan
Safeguarding the City of Venice from High Tides	Dr. Michele B. Jamiolkowsky	Former President, International Society for Soil Mechanics and Geotechnical Engineering
		Professor of Geotechnical Engineering, Technical University, Torino, Italy on Subsidence of Venice
Tallest bridge in the world: Millau Viaduct	Mr. Yann Leblais	CEO of ARCADIS France
		President of European Federation of Consulting Associations
Articulating Complexity	Dr. Patrik Schumacher	Partner, ZAHA HADID ARCHITECTS, London
		Professor at Innsbruck University – Head of Institute for Design and Construction Architectural Faculty, Leopold-Franzens- University Innsbruck, Austria
		Chairman of Taipei Smart Card Corporation
Natural Disaster Mitigation and Management	Dr. Chin-Der Ou	Former Deputy Mayor of Taipei, Taiwan, R.O.C.
		Former Chairman, Public Construction Commission, Executive Yuan

**SPECIAL LECTURE FOR MAA TAIWAN**



*Dr. Samuel Yin*

As a warm up to the series of activities for the anniversary, on 31 August 2004, MAA had the honor to invite Dr. Samuel Yin (尹衍樑), Chairman of Reuntex Group (潤泰集團) to give a speech on Reuntex’s engineering inventions. Dr. Yin is also the Managing Director of SinoPac Holdings and several other foundation and/or enterprises. A strong believer in education, Dr. Yin has made many contributions to various education entities in both China and Taiwan. His notable characteristics are often factors of inspirations to many engineers and people in various professions.

**RECEPTION**



*MAA 30 Reception*

A banquet was held in the evening of 22 April 2005 inviting clients and industry friends to celebrate the anniversary. Over 200 people attended the reception.

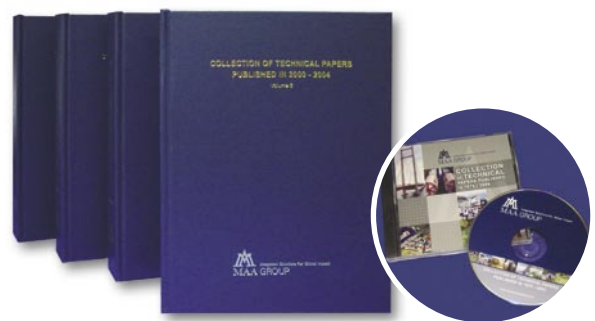
**MAA 30 BOOKLET**



*MAA 30 Booklet*

As a memory of the accomplishments and contributions made by MAA to the engineering profession, a special booklet was published documenting the many breakthrough projects that MAA was involved. In addition, the booklet contained a collection of over 30 notable industry professionals’ comments and reflections of MAA. These included people from USA, Italy, China, Thailand, Singapore, Japan, Korea, Hong Kong, Malaysia, and Taiwan.

**COLLECTION OF MAA’S 400+ TECHNICAL PAPERS**



*MAA Technical Papers*

A special CDrom with search capabilities was created to store over four hundred technical papers written by MAA staff in the past 30 years. The papers reflect findings and experiences of many MAA engineers during the execution of projects around Asia. The papers are important contributions made by MAA to the engineering society. MAA’s Technical Paper Collection is published every five years.

MAA SONG – 地球的雕塑家

The musical score is written in G major (one flat) and 4/4 time. It consists of 12 staves of music with corresponding lyrics in Chinese. The lyrics describe the MAA's commitment to excellence and harmony in the construction industry.

什麼人有力量讓世界更完美 什麼人有智慧讓地  
球更和諧 什麼人有勇氣讓大橋橫過怒川 什麼  
人有毅力鑿開險山 直達海洋  
直達海洋 哪裡沒路我先走哪裡有  
河我先過 哪裡有高山哪裡就有我 哪裡  
有我 大家跟著走  
我們有力量讓世界更完美  
我們有智慧讓地球更和諧 我們的勇氣讓大  
橋橫過怒川 我們更有毅力鑿開險山 直達海洋  
我們有力量讓世界更完美 我們有智慧讓地  
球更和諧 我們的勇氣讓大橋橫過怒川 我們  
更有毅力鑿開險山 直達海洋 喔 亞 新  
地球的雕塑家

To portray the MAA culture, her ideals in the profession and her people, a special lyrics competition was held in the last half of 2004 for MAA Song. With much enthusiasm, eleven talented MAA persons participated in the competition. Mr. Lin Win-Sen (林文盛), Technical Manager of Construction Management Department of MAA Taiwan won the competition. Music is made by Mr. Kai Chung Jung (鍾榮凱), 財團法人傳播基金會辦公室主任.



Chairman's message

莫若礪

“三十而立”，是指人生三十歲時，應該是開展事業的時候。亞新成立至今已三十年，這三十年由於全體同仁的努力，長輩及友好們的關懷與鼓勵，以及業主的肯定，使我們的服務能從專業的大地工程，進而至全方位的工程綜合顧問服務。雖然經過亞洲金融風暴，遭遇到全亞洲的經濟衰退，後來 2001 年祝融光顧，燒毀了我們汐止的辦公室，但亞新同仁的精神，不屈不撓，努力不斷，克服困難，我們服務國家社會的信心不減。在下一個三十年，亞新同仁鬥志高昂，準備接受新的挑戰，使我們的服務更廣更遠。

回顧過去這三十年，有很多尊長、前輩及友好們，在我們面臨關鍵性的發展時，給了我們及時的鼓勵，使我們能日益茁壯，我對他們衷心感謝。

亞新第一個登記註冊公司的城市是新加坡，但當時亞洲理工學院畢業的校友萬惟俊兄及陳世圮兄極力鼓勵我們搬來台北發展。萬兄並辭去待遇優厚的職務，親自為亞新奔走有關部門，完成登記手續，並設立辦公室。萬兄並出任亞新首任台灣地區經理。但中鋼正擬擴建，趙耀東先生聞萬兄幹才，親來辦公室挖角，要萬兄出任中鋼擴建處處長，趙先生以中鋼為國家重要建設，曉我以大義，要讓萬兄前往高雄。萬兄能力優異，在中鋼擴建完成後，出任經濟部標準局局長。

亞新在台北成立伊始，即設立了一設備完善的土壤試驗室，由亞洲理工學院高材生游坤兄主其事。這是台北第一家工程顧問公司有自己的土壤試驗室，游兄不辭辛勞，內務、外業均以專業態度提供服務。不久，亞新逐漸為業者所肯定；是一家有實力，能提供深開挖，深基礎及邊坡穩定工程顧問服務的公司。

亞新開始六個月後，歐晉德博士參加亞新陣容。此舉雖引起歐兄原主管之不諒解，但在瞭解歐兄是減薪而來，主要是有機會能發展所長，也就釋然。歐兄來亞新後聲譽卓著，後應榮民工程處力邀出任榮工處總工程司，其後出任國道新建工程局局長、公共工程委員會主任委員及台北市副市長。每一任務均獲得公眾之讚賞。

亞新初期的業主，大多是民營企業。當時台北地區鐵路應由地下或高架通過的意見分歧。有關方面認為台北地區土壤性能軟弱而地下水水位高，不利於地下化，而高架則影響景觀，以至無法決定。當時交通部運輸研究所所長黃嘉禾先生徵得交通部次長王章清先生同意，毅然決定委請亞新對台鐵在台北地區沿線作土壤性能研究分析。在亞新完成土壤調查、試驗及分析報告後，德國鐵路顧問認為該報告提供足夠資料，而使鐵路地下化因而定案，並立即進行規劃。亦使得台北市鐵路地下化及捷運工程就此開始。

1987 年台北市捷運工程局成立後，齊寶錚先生出任局長，並委請美國捷運顧問公司為總顧問。為爭取捷運可早日為台北市民服務，齊局長展示魄力決定全市同時進行數條路線的開挖工程。但齊局長以彼豐富之工程經驗，深知地下施工之艱難與風險，因此規劃了“大地專業顧問”的職務，獨立於“捷運總顧問”以外。並擬委請熟知台北地區土壤性能的顧問公司擔任。齊局長並鼓勵亞新參加競標。亞新邀請國內外專家，組織實力堅強的隊伍，得以完整的建議書，獲選為“大地專業顧問”，為捷運局提供有關大地工程規劃設計之諮詢及地下工程開挖時的安全觀測服務。專案自 1987 年開始，但數度應各施工處之要求延長服務期限，前後共達 14 年之久。在此期間，台北市捷運工程因開挖而發生之事故，其頻率為世界各地捷運開挖史上最低的城市。

台灣中山高速公路之規劃設計，早期由國外的工程顧問公司主導。其後陸續由政府投資的財團法人工程顧問公司擔任。方恩緒局長上任後，認為亞新亦有能力可為高速公路規劃設計提供服務。並獨排眾議，邀請亞新提送建議書，亞新建議書亦獲得評審之青睞，得以參加第二高速公路新竹關西段設計工作。從此之後，亞新亦開始得以土木工程綜合顧問之身份開始為各界提供顧問服務。

以上幾位尊長好友的及時鼓勵與支持，使亞新能順利地成長，他們的德意，是我不敢或忘的。

往後未來，希望同仁們能繼往開來，不畏艱難，以進取樂觀之精神，再接再厲，共創未來。



President's message

**T**hirty years of age is an important milestone for a person. The Chinese proverb says: “a person becomes independent when reaching 30 years old.” It is a turning point for any individual. For a business or professional service, 30 years is also an important key time. It gives a professional business sufficient time to establish a solid base of capability and experience, and to set direction for future development. For MAA, in the past 30 years, we have put emphasis on building a solid base for future growth, including development of human resource, increasing scope of services and expanding direction of the company.

From only a handful of people engaging in geotechnical work in the first years, MAA now has more than 600 professionals offering high quality professional services in geotechnical, structural, transportation, environment, electric & mechanical, and project management. We now have 11 companies in 6 countries in Asia. In these 30 years, everyone at MAA has wholeheartedly devoted his/her effort to their project and faithfully followed the motto ASSET. We sincerely hope that our service would become an asset to every client.

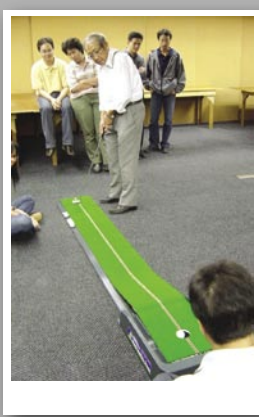
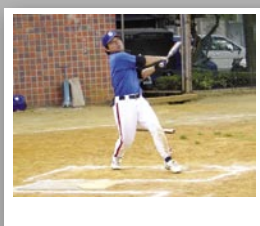
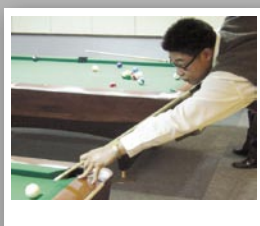
In the past 30 years, MAA has encountered many difficulties and even disasters. With the united effort of all the staff we have conquered the problems. These include the Asian economy crisis in the nineties and the fire disaster of the office building in 2001. Due to improper use of the building, a fire broke out on the 3rd floor of the Oriental Technology Park and extended to the 22nd floor where MAA Taiwan's office was located. The fire destroyed all the information and data of the company. However, with the devoted efforts of all the staff, we managed to operate in full force within 2 weeks of time. I wish also take this opportunity to express our sincere gratitude to all of our friends who have extended their helping hands.

MAA is a rather unique company. Although our staff are spread over a number of countries and have many different nationalities, but we work as a tight family. Our company's operating philosophy puts great emphasis on “people”. We not just hire engineers to do their engineering work but we also want our young engineers have a good environment for future development. We provide staff with opportunities in further training, research and development, and participation in international activities.

To prepare for the next 30 years and more, we need to continue to grow, to be globalized and to provide our clients and societies with “integrated solutions”.

MAA SPORTS COMPETITION

A series of competitive sports events were held in MAA Taiwan in celebration for the anniversary, which lasted for half a year.



# MAA CORPORATE IMAGE

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## *BRANDING LOGO*

MAA's corporate image has been reviewed and strengthened to emphasize her branding and image as one of the leading group of consulting engineers in the East/Southeast Asia.

MAA Corporate Signature:



MAA Group Logo:



## *BRANDING SLOGAN:*

*INTEGRATED SOLUTION FOR GLOBAL IMPACT*

Over the past thirty years, MAA has played a key role in technology transfer and professional engineering service provider to many developing countries in Asia. MAA has participated in many projects that are major breakthroughs for these countries. Examples include the then largest BOT project in the world, the Taiwan High Speed Rail project; the Second International Bangkok Airport in Thailand; Taiwan's electronic toll collection system project, which is the largest one-time ETC project in the world, the world's tallest building, Taipei 101; and Core Pacific Mall, the then largest shopping mall in Taiwan, etc. MAA was also the pioneer in bringing various technologies to local cities and countries. Examples include the Common Duct Utility in Taiwan and the use of Endless Self Approach method of tunneling in the Fushing North Road Underpass through Taipei Song-Shan Domestic Airport. Such projects, including many others, have all played a role, whether directly or indirectly in bringing the countries into one of the global players in the world economy.

As the world develops, projects become more complex, requiring the integration of various disciplines and expertise. Often clients expect companies to provide an integrated solution with international standards to meet their local needs. MAA will remain as an **ASSET** to the clients, and has become a preferred local provider of **Integrated Solutions for Global Impact** to these countries.

# MAA SHANGHAI 10<sup>TH</sup> ANNIVERSARY

Established in 1995, MAA Shanghai has grown from a small office to what is now a 160 persons company. MAA Shanghai is one of the first foreign invested consulting engineering company established in China. With Class A design licenses, MAA Shanghai is able to provide consulting and engineering design services throughout China. Having been through the dramatic changes China is experiencing, MAA Shanghai is readily able to provide quality services to local and foreign clients. In a ten year period, MAA Shanghai has done over 300 projects covering national, regional and international clients. Projects include anywhere from Shanghai area to Inner Mongolia and Xinjiang Provinces.



MAA Shanghai Banquet

## EXCERPTS OF MAA SHANGHAI, MR. GU.

十年前，上海亞新以為數不多的幾家大陸與港澳台企業合資的設計單位之一在1995年春獲得了由建設部頒發的醫藥、建築行業的甲級設計資質，正式開展設計業務。

光陰荏苒，瞬息之間，上海亞新已跨越世紀奮戰了整整十年。

上海亞新工程顧問有限公司是香港國際亞新工程顧問有限公司和上海醫藥設計院的合資企業，是台北亞新工程顧問（集團）公司的成員，憑借合資雙方的信譽與實力，上海亞新成立之初就取得甲級設計資質，而且立即開展了由合資方提供的投資數億元的二項大型工程設計。一個是建在鄰近上海虹橋機場的龍柏花苑，有七幢高級公寓樓和四十一幢豪華別墅，這些建築物為虹橋地區建立一道亮麗的風景線。另一個是建在四川省樂山市由世界銀行貸款的年產十萬平方米的中密度纖維板企業吉象木業，它為國內家具行業提供了有力的支持。上海亞新藉此奠定了堅實的基礎。

十年來上海亞新由小到大，由弱到強，員工由初期不足二十人的規模發展到如今的160餘人，業務從初期的設計配合發展到現在遍及行業的諮詢、規劃、設計、工程管理和工程總承包，工程設計的領域已拓展為民用建築、醫藥、化工、石化、電子、輕工及其環保等。

十年來上海亞新完成的丸、丹、膏、散、固體和液體制劑、原料藥、合成藥、生物工程等醫藥化工項目有200多項，遍播全國各省，僅在張江藥谷就有數十項工程，且多已通過GMP認證。完成的高層建築、大樓、別墅、公寓、住宅小區、星級賓館、工業園區、風景區、經濟城、大型醫院等的設計及規劃達百餘項。與美、英、德、日、荷蘭、印度、越南等國外工程公司共事合作的電子、化工、醫藥、化纖、住宅小區等工程有十多項。隨著一系列業務的開展上海亞新在組織結構、管理機構、規章制度、人員配備、設計手段等方面也得到完備和齊全。

當上海亞新跨入新的十年之際，迎來的是中國加入WTO為期五年的時刻，建築業設計市場將迎來大批國外建築設計事務所和設計大師，上海亞新將面臨更大的挑戰，為此務必積極研究對策，改革經營模式，提高管理水平，建立靈活的機制，盡力為業主提供合宜的全過程服務，以立于不敗之地。

上海亞新全體員工深信，在合資雙方的親切關懷和社會各界的支持下，通過自身的努力一定會走向更美好的未來。



*The GMP Transformation Shop of Hutchison Pharmaceutical, Shanghai*



*Sassoon Park, Shanghai*



*Shanghai Long Hua Traditional Chinese Medicine Hospital*



*Zonglutan Harbour City Golf Villas, Shanghai*

## **MAA** HOLDS UNIVERSITY COURSES ON PROFESSIONAL PRACTICE IN GEOTECHNICAL ENGINEERING

**M**AA has been dedicated to the promotion of local geotechnical technology for several decades. Based on the idea of experience transfer and interactive learning, MAA established a class on practical geotechnical engineering at the National Taiwan University of Science and Technology (NTUST).

This course started on February 24, 2005 as was scheduled. The planning and communication task was dated back to May 2004 with great supports provided by Professor Horn-Da Lin, Professor Hung-Jiun Liao Chairman and former Chairman of the Department of Construction Engineering of the NTUST respectively.

This three-credit course, “Geotechnical Engineering in Major Public Construction Project”, was opened for graduates and undergraduate seniors. This courses included 15 lectures and 1 seminar and each subject of class was taught by one MAA’s senior engineer who has participated in major infrastructural projects. Features of the class contain discussion of frequently

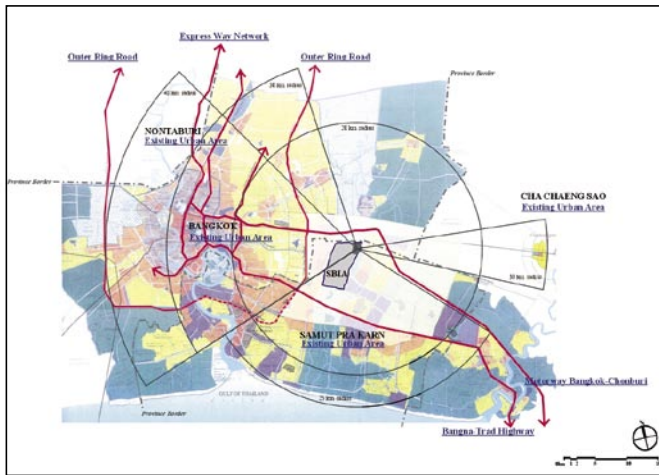
encountered problems of major construction project on soft soil layers (e.g. provides an overview on major soft ground engineering problems: site characterization, foundation engineering, deep excavation, soft ground tunneling, and ground improvement. Several major infrastructure projects like Taipei MRT, Taiwan High Speed Rail, New Bangkok International Airport and Deep Excavation Projects are also used as case studies in this course.), and significant concerns from practical engineering perspectives with current knowledge background were addressed in a systematic manner.

Dr. Chung-Tien Chin, senior vice president of MAA, conducted this course with other senior engineers Mr. Chien-Hong Wang, Mr. Tung-lih Yen, Mr. Ming-Shan Chen, Mr. Gwo-Rong Yang and Mr. Shaw-Wei Duann as lecturers. Dr. Za-Chieh Moh, the President of MAA, was invited for giving a lecture on “Role of Geotechnical Engineer in Major Construction Project”. Dr. Sun-Ju Chan attended all the classes for providing valuable assistance to this class.

# PROJECTS OCTOBER 2004 to OCTOBER 2005

In the one year period from 1st October 2004 to 1st October 2005, MAA Group have completed 42 projects and commenced 67 new projects.

## *AEROTROPOLIS REAL ESTATE DEVELOPMENT MASTER PLAN IN SUVARNABHUMI AIRPORT*



*Aerotropolis at Suvarnabhumi International Airport, Thailand*

The Suvarnabhumi Airport is being developed as a very modern, hi-tech facility which will be the “Aviation Hub” for the region as well as global air transport linkages. As the leading member, MAA and her consortium team (Span Company Limited, Tyco Earth Tech (Thailand) Limited and CB Richard Ellis (Thailand) Co., Ltd.) were engaged by The New Bangkok International Airport Co., Ltd. to develop the Real Estate Development Master Plan. The goal is to produce a world class “Aerotropolis” or airport orientated city, which will act as a catalyst for the development of a self-contained airport driven city around the airport. It is intended that the city will comprise airport related business centers and communities with activities in connection with or complement the operation and development of the airport itself. The Airport is keen to play a key role in the attraction of new firms and inward investment to the city, and in encouraging the development of high technology industry. The Master Plan for the 1000 rai piece of land aims to capitalize on this connection through the provision of high quality development sites that offer good access to the Airport and the City. The philosophy of the Real Estate Development Master Plan is to aim for:

**“Advantaged and Economic”** – To maximize it’s nature born advantage and integrate airport facilities in order to minimize the initial investment in infrastructure for an economic solution and speculation to the private investors. The development will need to be economically viable, and will include the business center, residential community and related facilities that are compatible with and enhance the position of the whole airport as well as particular developments and benefits to surrounding economic;

**“Advanced and Electronic”** – To create a modern and efficient investment environment, advanced communication, transportation, commerce and administration systems need to be planed before hand. The development should develop national partnerships across agencies, technologies, and industries to utilize the latest technologies to develop state-of-the-art computer systems for diversify purpose and functions including an advanced transit system, voice and data transmission system, remote sensing system, on line administration and commercial systems to support advantaged/economic and attractive/ecological city;

**“Attractive and Ecological”** – To develop the city into an environmental friendly, energy saving and conservation with international standard quality living city, ecological city should be born at the initial stage. The development concept should focus on urban metabolism in which the city is characterized as a set of interlinked systems of physical flows linking air, land and water. A series of plan should consider a wide range of practical strategies for the health of the city’s ecosystems from the ‘greenfield’ land to a productive use through to improving quality and making better use of resources to support advantaged/economic and advanced/ecologic city.

The Consortium had embodied these concepts and philosophies through multi- disciplinary approaches with careful and comprehensive analysis for a market-oriented, financial sustainable, and dynamic/rolling development Master Plan.

**TAICHUNG METROPOLITAN MRT NETWORK STAGE 1 - GENERAL CONSULTANCY AND BASIC DESIGN**



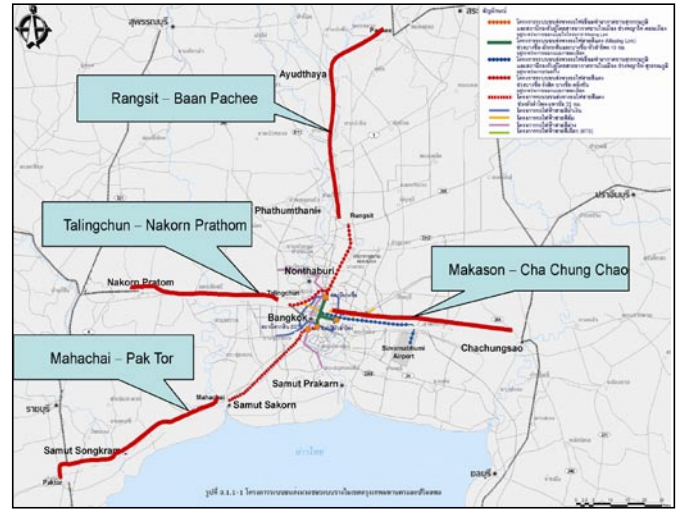
*Planned MRT in Taichung City, Taiwan*

The proposed Taichung Metropolitan MRT Network consists of three lines (Red Line, Blue Line, and Green Line) with a total of 69.3 kilometers in length. After evaluation, Green Line is selected as the first priority line to be implemented, which will be in the form of a viaduct. It will connect from Beitun District of Taichung City to the sub-urban center and lastly to the HSR Taichung Station. With a total length of 16.5 km, the Green Line consists of one depot, 13 elevated stations and one ground station. The project will be built by the government and will be run by and operated by a selected OT concessionaire. The total construction cost is approximately NTD 26 billion. Due to the fact that the riding rate of mass transportation in the Taichung metropolitan area is relatively low and the recommended network at the target year needs a huge construction budget, construction will be done in stages instead of simultaneously.

In the future, combined with the Bus Cultivation Plan and TRA's Rapid Transit operation, Taichung MRT will be a great addition to form a wider transportation network.

MAA Taiwan is engaged as the General Consultant and is involved in the basic designs of the core system, analysis of the operation-transfer strategies, operation concepts, assistance in interface management, project management, land acquisition, and setting up operation organization, regulations and related planning, and other related works.

**URBAN COMMUTER TRAIN OF BANGKOK METROPOLITAN AREA PROJECT**



*Urban Commuter Train of Bangkok Metropolitan Area*

The contract is the design of the 4 lines of commuter rail (medium rail)

North : Rangsit – Bann Pachee ( 60.2 Km.)

South : Mahachai – Pak Tor ( 56.6 Km.)

East : Makason – Cha Chung Chao (42.6 Km.)

West : Talingchun – Nakhorn Prathom (54 Km.)

The project comprises of 60 Stations and 4 Depots. The rail will be mostly at-grade with some elevated crossing over rivers and canals. The Eastern line however will be mostly elevated.

MAA Thailand was engaged to provide the following services:

- Data gathering and analysis of economic, investment, financial, traffic, and environmental studies for the project.
- Field investigation and survey (Topographic, Geotechnical, Environmental, etc.)
- Public Participation and hearing.
- Detailed Design
- Preparation of TOR, contract document, etc.

**LARGEST VACUUM CONSOLIDATION WORK IN THE WORLD - GROUND IMPROVEMENT OF THIRD RUNWAY AT SUVARNABHUMI INTERNATIONAL AIRPORT**



*Suvarnabhumi International Airport, Thailand*

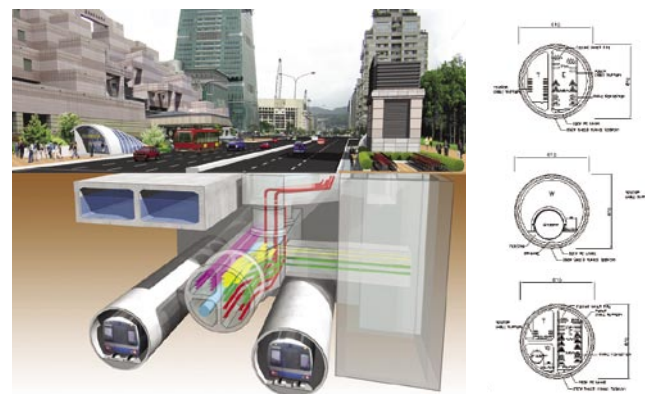
MAA Thailand and MAA Geotechnics have been involved in the design and construction supervision of vacuum consolidation work at the Suvarnabhumi International Airport in Bangkok, Thailand. With an improved area of over 400,000 m<sup>2</sup>, it is considered to be the largest vacuum consolidation work in the world. The method was introduced due to short construction period and interfacing requirements. The vacuum method had assisted in reducing the ground improvement period from 18 months by conventional PVD method to only 6-8 months by means of this technique. This method has other benefits including lower surcharge height with no counterweight berm, reducing the import of fill material and land use for construction.

**FIRST COMMON DUCT TO BE BUILT ALONG WITH THE UNDERGROUND METRO LINE IN TAIWAN  
FIRST COMMON DUCT IN TAIWAN TO USE THE SHIELD TUNNELING SYSTEM**

To avoid frequent diggings on busy roads with the installation or maintenance of public utilities, as well as to avoid additional excavations after the construction of the MRT, building a common duct along the underground metro line has become a trend. MAA was commissioned by the Taipei City Government to undertake the primary and detail design of the first common

duct in Taiwan that will be installed parallel to the construction of the Taipei MRT under the Xinyi Road (ie Xinyi Metro Line).

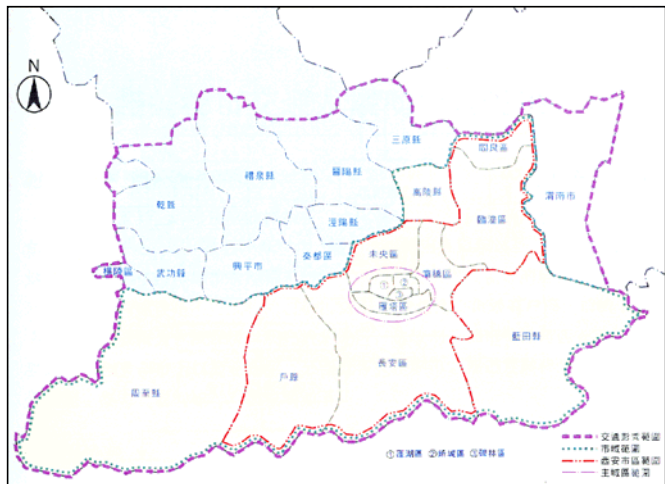
As the common duct is located on the same site as the Xinyi Metro line, the planning of a typical cross-section should consider not only the requirement of utilities but also the interface specification of the MRT. For economical reason, the same shield tunnel machine is used for the construction of the common duct as well as at the Xinyi Metro line. This is the first common duct in Taiwan, which will be built using a shield tunneling system. The design of the common duct is very complicated and difficult task because the existing utilities, MRT tunnels and stations restrict the available space. The alignment and cross-sections of the common duct have to change frequently to avoid conflicting with existing utilities and to comply with structures of Xinyi Metro line. For example, the area of the future common duct near the World Trade Center station (R06) is already used by existing sewage pipeline, drainage box culvert, and shafts of the Tai-Power company shield tunnels of Xinyi Metro line. In this case, there is no available space to construct a shaft for the transition of the shield tunnel section to box culvert section over the station. Besides that, the heavy traffic is also a reason why using a shaft would be unacceptable. The shield tunnel machine has to stop ahead the station structure, and then enlarge the cross-section from inside out of the tunnel.



*Common Duct and MRT Xinyi Line, Taiwan*

The common duct will have a total length of 5,026 m of 2~3 cell DUCT, which is composed of 3,134 m shield tunnel and 1,892 m open cut box culvert. The construction will be completed in 7 years along with Xinyi Metro line. The estimated total cost is about NTD 5.2 billion (approximately USD 0.153 billion).

**XIAN COMPREHENSIVE TRAFFIC NETWORK STRATEGY RESEARCH & BUS RAPID TRANSIT SYSTEM PLANNING**



Study Area for Xian Transportation Study, China

Located Northwest of China, Xian is one of the four major ancient Chinese civilization capitals, and is an important economical development center of Shannxi province. To meet the demands of rapid developments, the Bureau of Planning of Xian City created the Six City Development Goals plan in 2004. Three of which are transportation related: “Strengthen the development and construction of city road system”, “Carry out BRT priority strategic plans” and “Expedite track-related transportation schemes”. MAA was engaged to provide the following studies:

- To recommend the traffic development experiences of other metropolitan cities for Xian’s traffic development reference.
- To carry out a comprehensive long-term strategic traffic development planning for Xian.
- To review Xian’s recent traffic related projects and strengthen the traffic radiation scheme from the city center.

**DG166 SONGSHAN LINE PROJECT TAIPEI MRT**



DG166 Songshan Line Taipei MRT Station Design, Taiwan

The project includes four underground subway stations, a twin shield tunnel with a total length of 2.9 km, and a common duct system with a total length of 690 m. The shield tunnels are designed as underground lines with an opening diameter of 6.1m. Beimen Station is a four-story underground passenger station with approximate dimensions of 151m long by 28m wide. Yuanhuan Station is a four-story underground staked-platform station with approximate dimensions of 169m long by 14m wide. Zhongshan Station is a three-story underground station intersected with the Dan-Shui line. Its approximate dimensions are 170m long and 26m wide. Finally, Sungchiang-Nanking Station is a two-story underground station intersected with the Xin-Zhuang line. Its approximate dimensions are 140m long and 24m wide. The design work includes civil, geotechnical, structural, architectural, E&M facilities, environmental control systems, and elevator and lift systems. MAA is engaged to provide the following:

- Design of 4 underground subway stations
- Design of shield tunnels with a total length of 2,900 meters
- Design of Common Dust with a total length of 690 meters
- Construction Consultancy Service

### *MAIN STADIUM FOR 2009 WORLD GAMES*



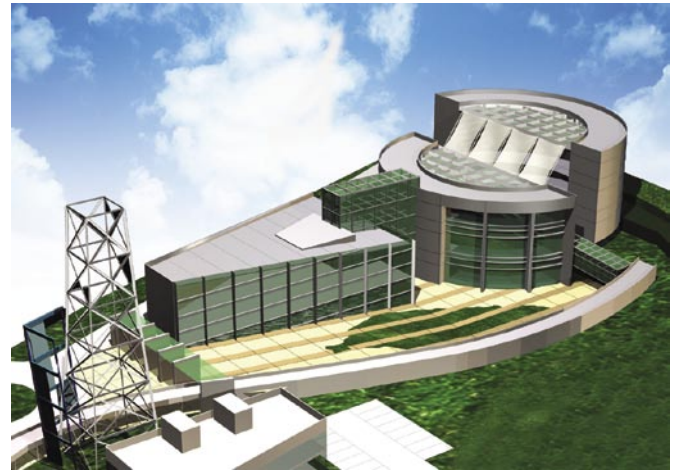
*Digital View of Stadium for 2009 World Games, Taiwan*

In June 2004 Kaohsiung, the second largest city in Taiwan was awarded the right to host the 2009 World Games. Among the many venues to be provided for the games, a main stadium for opening and closing ceremony is the most important one. Kaohsiung Municipal Government (KMG) authorized by the National Council on Physical Fitness and Sports is responsible for planning and construction of the main stadium. MAA was selected as the General Consultant of the project for preparing architectural program, conceptual design, tender documents and handling tender process for design-and-build contract.

After detailed study and comprehensive consultation, the final program of the main stadium is a roofed competition venue having standard 400m track and football field with 40,000 permanent seats and spare space for additional 15,000 temporary seats to be furnished in big events. Besides all functions and facilities stipulated by international sports competition event, the main stadium shall also meet the latest criteria of Green Building and be equipped with a photovoltaic system of 1MW capacity to set up a new standard of sustainable construction of public buildings. International tender for the design-and-build contract was announced in August 2005 and will be awarded in early December. Construction shall be substantially completed by January 2009 ready for the 2009 World Games to be opened in July.

The site of the main stadium is part of the proposed National Sports Park, which will accommodate the National Athletes Training Center, Kaohsiung Branch of National Athletes University and a recreational park for neighboring community. MAA is also the planner of the Park.

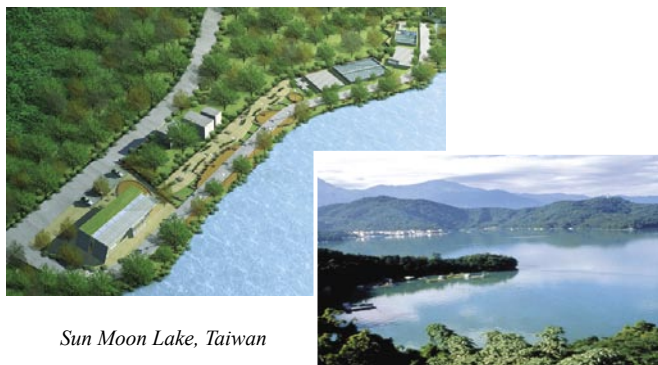
### *CONSIDERED PCM SERVICE FOR THE TRENCH IN CHE-LUNG PU, JHU-SHAN TOWN PRESERVATION PROJECT OF NATIONAL TAIWAN UNIVERSITY*



*Preservation Center for Che-Lung Pu Fault, Taiwan*

A major earthquake of 7.3 Richter scale hit Central Taiwan in the early morning 21 September 1999. The catastrophic tremor has caused 2,321 casualty and US\$10 billion loss in property. The earthquake was induced along the well-known Che-Lung Pu Fault. A recent investigation discovered a well-preserved section of geological stratum in a trench at the fault, which shows complete history of ground movement during previous earthquakes. In view of its value for research and education, the 921 Earthquake Post-Disaster Recovery Commission funded a project to build an Earthquake and Ecological Park at the site of the discovered section. The site having 2.6 Ha land area will accommodate an exhibition hall housing the trench and collections with all necessary parking and landscape. MAA Taipei was nominated as Project Manager of the project to integrate the works of planning architect and exhibition consultant into a set of tender documents for design-and-build contract. MAA will also handle the tender process, and review the design and supervise the construction of the design-and-build contractor. Tender of the project will be announced by end 2005 and construction shall be completed by January 2008.

**SEWER SYSTEM AND WASTE WATER TREATMENT FOR THE LARGEST FRESH WATER BODY IN TAIWAN, SUN MOON LAKE**



*Sun Moon Lake, Taiwan*

Sun Moon Lake, the largest fresh water body in Taiwan, is located in the middle of the Island at an elevation 750m above sea level. The area's infrastructure was badly damaged by the 921 Chi-chi earthquake in September 1999. MAA was engaged to provide the detailed design of a new sewer system for the lakeside villages, Suishe and Riyue villages. Big elevation differences, hard rock composition and the high number of frequent visitors demands for a careful technical design and construction. The total population served by the sewer system is 7700 capita. The sewer has 7.7 km long gravity system, 1.6km pressure pipe and pumping station. The project contains the design of two wastewater treatment plants including mechanical, chemical and biological treatment methods. The design will include the complete unit of treatment, civil, architectural engineering works and landscape works. The treatment technology will adjust to the heavy fluctuating influent quantity and the strict limit values of the outflow characteristic.

**CONSIGNED PCM SERVICE FOR THE CONNECTION PASSAGEWAY PROJECT OF CHUNG-CHENG BUILDING AND UNDERGROUND PARKING LOT OF TAIPEI VETERANS GENERAL HOSPITAL**

Taipei Veterans General Hospital is a national medical center, with a threefold mission to provide medical care, medical education and medical research. This is to comply with the national medical policies and fulfill the governmental

responsibility for public health. Currently, number of outpatients exceed 10,000 people daily, resulting in an enormous parking strain. To relieve such strain, Taipei Veterans General Hospital decided to build a three-level underground parking at Shih-Pai Rd. The connection passageway of Chung-Cheng Building and the above mentioned underground parking is aimed to provide pedestrians a direct corridor from the parking lot to Chung-Cheng Building, which would not only make travel convenient, but also protect personal safety for hospital staff and the general public. Furthermore, it would also mitigate internal traffic impact for the hospital. For economical reasons, commercial facilities and offices will be developed at both sides of the passageway, including cosmedical stores, convenient stores and banks, which will provide light meals and various services for patients and their families.



*Taipei Veterans General Hospital Underground Passageway*

The passageway is situated at the main route of the hospital, which acts as a public square. A hemisphere lighting cover is placed above the passageway on the ground level and with landscape design, aesthetic appearance for the square is enhanced. The passageway is a reinforced concrete structure, with a total length of 70m, 26m in width and a maximum excavation depth of about 8.5m. In this project, MAA performed a PCM and construction supervision role.

## ***NUS ALUMNI COMPLEX AND REDEVELOPMENT OF NUSS GUILDHOUSE***



*NUS Alumni House, Singapore*

The proposed development comprises the construction of a new 3 to 5-storey NUS Alumni Complex with basement and the redevelopment of the existing NUSS Guildhouse. The project site is located within NUS Kent Ridge Campus and bounded by Law Link on the North-west, Kent Ridge Drive on the South and the Hon Sui Sen Memorial Library and Faculty of Business Administration on the East. MAA was engaged to provide geotechnical engineering services including soil investigation work with regard to the foundation system, excavation work and earth retaining structures of the proposed development to be constructed in close proximity to the existing buildings and slope ground within the complicated Jurong Formation of Singapore.

## ***KEPPEL MERLIMAU POWER STATION***



*Keppel Merlimau Power Station, Singapore*

The proposed development consists of the construction of a new Cogeneration Power Plant with cool water intake

structure and main cooling water discharge channel on an open space (reclaimed) site at Jurong Island Expressway, Jurong Island, Singapore. MAA was engaged to provide geotechnical consultancy services including onshore and offshore soil investigation works with regard to the foundation system of the proposed development and the geotechnical matters related to the design of the proposed cool water intake structure and the proposed main cooling water discharge channel which is located at an edge to edge clearance of less than 10m from the existing high-pressure gas pipelines along Jurong Highway at Jurong Island, Singapore.

## ***SLOPE & WALL STABILIZATION WORK AT NO. 45 SASSOON ROAD, HONG KONG***



*45 Sassoon Road, Hong Kong*

A series of retaining walls up to 6 m high and soil cut slopes with maximum height of 10 m and gradient varying from 35 to 65 degrees were found below current safety standards. Upgrading measures include soil nailing and wall thickening. A total of 59 soil nails with length in the range of 3.5 m to 7.5 m were installed to enhance long-term stability of the slopes and retaining walls. Comparatively shorter but closer soil nails were adopted to avoid encroachment of nails into adjacent land. For strengthening the substandard retaining wall abutting the lot boundary, a new mass concrete block was attached in front of the wall to gain additional lateral resistance against sliding and overturning. The slope surface was provided with shotcrete cover incorporating planter holes as soft landscape. The lot owners have been recommended to carry out regular maintenance inspection and works to assure the continued stability of the slopes and retaining walls. MAA was engaged to provide stability investigation, design and supervision of the slope and preparation of maintenance manuals.

### *THE STRAITS REGENCY, PENANG*



*Straits Regency Condominium, Penang*

The Straits Regency, an elegantly designed condominium located at the coastal front of Tanjung Bungah, Penang is another highrise building for which MAA Malaysia is the consulting engineer responsible for the design and construction supervision of the foundation, structure, internal plumbing and sanitary and associated ancillary works for the building. The building consists of one block of 24-storey RC structure with 3-storey basement carpark supported on caisson foundation socketed into granitic bedrock formation. There will be 104 apartment units with recreational and community facilities. The developer is M/s Taman Ratu Sdn. Bhd and the construction is near completion.

### *TAIWAN POWER COMPANY PROPERTY MANAGEMENT GIS SYSTEM*

The PRS system which is currently being used for property management was developed more than 20 years ago and is unable to provide the functions required nowadays and is not sufficiently efficient in handling the quantity of data involved in managing all the properties in the Tai Power Company.

In order to devise a new system to support the various departments in the Company, a survey was conducted by using the IDEF0 method to analyze the data flow. Users were interviewed so their demands would be properly considered. As a result, 9 subsystems (with 242 functions), geographic databases (13 for background information and 10 for operations), management databases (53 categories with 1692 items), statistical reports (37 types) have been considered to be included in the new system.

In addition, the data flow has been overhauled to streamline the process and a phasing plan has been proposed for the implementation of the system.

For the system to serve its desired purpose, the concept of Balanced Scorecard (BSC) is recommended so the effectiveness of adopting this system can be evaluated from time to time and deficiencies, if any, will be corrected based on the results of the evaluations.

### *PROPOSED RESIDENTIAL DEVELOPMENT AT SENTOSA COVE C9*



*Sentosa Cove C9, Singapore*

The proposed development comprises the construction of five blocks of 11 to 15-storey condominium housing development with basement carparks and swimming pool at Parcel C9, Sentosa Cove, Singapore. The project site is a young reclaimed land constructed in early 90's and bounded by Ocean Drive on the North-east and rock bund along the West, South and South-east. MAA was engaged to provide geotechnical study consisting of soil investigation works with regard to the foundation system and excavation work of the proposed residential development to be built over the young reclaimed land where seepage of seawater through the hydraulic sand fill is a concern in the basement construction works.

# PROFESSIONAL ACTIVITIES

## ► Professional Awards

(1) On 13 June 2005, MAA received two Special Engineering Awards for Outstanding Design and Construction Supervision by the Chinese Institute of Engineers 2005 during the annual convention. The project that won the award is the Taipei Fushing North Road Song-Shan Airport Underpass. Chinese Institute of Engineers (CIE) was founded in the year of 1911, the year Republic of China was established. The Convention was held at the Auditorium of China Petroleum Corporation. More than 500 engineers for all disciplines attended the convention.



*Dr. ZL Moh at the Chinese Institute of Engineers 2005 Annual Convention*

(2) In June 2004, Dr. Za-Chieh Moh was appointed as Senior Advisor by the Beijing Urban Engineering Design and Research Institute.

(3) In February 2005, Mr. Sio-Keong Kong, General Manager of MAA Singapore was nominated by the Association of Consulting Engineers Singapore (ACES) as their representative to serve as a member in the Working Group to develop a Singapore Standards (SS) - Code of Practice for the Design and Construction of Deep Excavation. Standardisation Department, Spring, Singapore.

(4) On 6 March 2005, Dr. Chung-Tien Chin was elected to the Board of Council of the Taiwan Geotechnical Institute.

(5) On 21 February 2005, Dr. Chi-Wen Yang received the Dissertation of the Year Award from the Taiwan Geotechnical Society.

(6) On 22 January 2005, Mr. Shaw-wei Duann was elected to the Board of Supervisor of the Taiwan Professional Geotechnical Engineer Association. Mr. Ting-Chiun Su was elected to the Board of Supervisor of the Taipei Professional Geotechnical Engineer Association. Mr. Jun-Her Guo was elected to the Board of Council of the Taipei Professional Geotechnical Engineer Association.

(7) Dr. Za-Chieh Moh was appointed as a member of the Accreditation Council of the Institute of Engineering Education Taiwan, for the term from 01 August 2005 to 31 July 2007.

(8) Dr. Za-Chieh Moh was re-elected as a Vice President of the China Road Federation for 2005 – 2007.

(9) Dr. Za-Chieh Moh was elected Director of the Board of Directors of the Chinese Institute of Civil and Hydraulic Engineering for the term 2005 – 2007.

## ► International Seminars and Conferences



Chinese Taipei Delegation to FIDIC 2005



FIDIC 2005 Opening Ceremony

EFFECTIVE DATE	DESCRIPTION
9/20~9/25, 2005	2005 Joint Symposium of ISSMGE ATC 7, Pusan, Korea. Dr. Chung-Tien Chin was invited as a Keynote Lecturer.
9/11~9/17, 2005	The 16th International Conference on Soil Mechanics and Geotechnical Engineering and The 3rd Young Geotechnical Engineer Conference was held at Osaka, Japan. Dr. Za-Chieh Moh, Dr. Richard N Huang, Dr. Chung-Tien Chin, Project Manager Mr. Ting-Chiun Su and Dr. Jie-Ru Chen attended this every four year important geotechnical event.
9/4 ~ 9/8 2005	FIDIC Annual Conference – Sustainable Engineering Global Leadership, Beijing. Attendees included Dr. Za-Chieh Moh, Senior Vice President Steve Wang, Madame YG Lei, Mr. Richard Moh, Mr. Ben Lin
9/8~9/10, 2005	The 11th Taiwan Geotechnical Engineering Conference, Wanli Hsiang, Taipei. Attendees of MAA included Senior Vice President Dr. Chung-Tien Chin, Manager Mr. Chien-Hong Wang, Dr. Jie-Ru Chen, Dr. Song-Ru Chan, Mr. Chuan-Sheng Kao, Mr. Jun-Her Guo and Miss Chia-Hsuan Chuang.
8/2~8/5, 2005	3rd International Geotechnical Engineering Conference held in Java, Indonesia. Dr. Chung-Tien Chin was invited to attend the conference.
8/19~8/22, 2005	2nd World Forum of Chinese Scholars in Geotechnical Engineering held at Nanking, China. Dr. Chung-Tien Chin was invited as a Keynote lecturer
12/5~12/9, 2004	2nd World Forum of Chinese Scholars in Geotechnical Engineering held in Nanking, China. Dr. Chung-Tien Chin was invited as a Keynote lecturer
11/9~11/11, 2004	Chinese Geotechnical Institute Symposium, Beijing First National Symposium of the Special Technology for Building Foundations, Hongzhou. As a representative of President Dr. Za-Chieh Moh, Dr. Chung-Tien Chin delivered the speech “The Practice for Dealing with the Uncertainties in Geotechnical Engineering”
11/21~11/26, 2004	15th Southeast Asian Geotechnical Conference, Bangkok, Thailand. President Dr. Za-Chieh Moh, Senior Vice-President Dr. Chung-Tien Chin and MAA fellows including Mr. Cheng-Chung Huwang, Mr. Shaw-Wei Duann, Mr. Ting-Chiun Su and Mr. Michael Hu attended conference. The following papers were presented in the conference: D.C.T. Yao and C.H. Wu, “Ground Movement Analysis of Pipe Roof Construction in Soft Clay”, and S.W. Duann, M.C. Chen, T.H. Seah and M. Fujita, “Optimization of Pile Foundation Design Through Full-Scale Pile Load Tests in Taiwan High Speed Rail Project.”
10/21/2004	2004 Rock Engineering Symposium. Dr. Chung-Tien Chin was invited to deliver a speech “The New Trend of Geotechnical Engineering Code – Reliability-based Design.” Dr. Jie-Ru Chen attended symposium as well.
10/21~10/23, 2004	Dr. Chung-Tien Chin was invited to the academy member (expert) consultation for the Geoenvironment Issues in the Development and Use of Underground Space in Shanghai, China.

## *INTERNATIONAL CONFERENCE ON STRUCTURAL AND FOUNDATION FAILURES*

Organized by the IES/IStructE Joint Committee of Singapore, and supported by the National University of Singapore and the Nanyang Technological University, the Second International Conference on Structural and Foundation Failures was held on 2-4 August 2004 in Singapore. Dr. Za-Chieh Moh was invited to deliver a keynote lecture entitled, "Site Investigation and Geotechnical Failures." Other invited lecturers included Dr. V. Milligan of Canada, Professor H.G. Poulos of Australia, Professor A.E. Naaman of USA, Professor L. Clark of UK and Dr. S.S. Gue of Malaysia. The three-days conference was attended by structural and geotechnical engineers from more than 20 countries.

## *16TH ICSMGE*

The most important event of the geotechnical engineering profession is the international conference held every four years. The 16th International Conference on Soil Mechanics and Geotechnical engineering was held from 11th to 17th September 2005 in Osaka, Japan. Dr. Za-Chieh Moh and four engineers from MAA attended the event including Senior Vice President Dr. Richard N. Hwang, Senior Vice President Dr. Chung-Tien Chin, Managing Director of MAA Geotechnics Dr. Tian-Ho Seah, Project Manager Dr. Ting-Chiun Su, and Dr. Jie-Ru Chen. Dr. Moh presided the first plenary session on major projects; Dr. Seah presented a paper; and Dr. Chen, as representative from Taiwan, attended the 3rd Young Geotechnical Engineers Conference.

## *PUBLIC LECTURES, HONG KONG*

At the invitation of the University of Hong Kong University, Dr. Za-Chieh Moh delivered a public lecture on the subject of Design Considerations of the Taiwan High Speed Rail to the members of the Hong Kong Institution of Engineers on 27 September 2005. A second lecture was given to faculty and students of the Department of Civil Engineering of the University of Hong Kong on the next day. The topic of the

seminar is Geotechnical Issues in Design and Construction of an International Airport on Soft Ground. The lectures were sponsored by the Choi Kin Chung Fellowship of the University of Hong Kong.

## *APEC ENGINEER*

For the purpose of promoting mobility of qualified engineers for cross boundary with the Asian and Pacific region, the Asian and Pacific Economic Cooperation (APEC) at its leaders' meeting in Osaka in 1995 agreed to the need to establish a strong cooperative network among engineering organization in the APEC member economies. The APEC Engineer Coordinating Committee was formally inaugurated in November 1999 to operate an APEC Engineer Register.

After intensive study by the Chinese Institute of Civil & Hydraulic Engineering in the last three years, the Chinese Taipei APEC Engineer Monitoring Committee, a NGO organizing under the auspices of the Chinese Institute of Engineers, was established in March 2005. The committee is authorized as the only entity seated with power to handle all matters related to APEC Engineer in the Chinese Taipei Economy. The Committee was formally admitted and authorized to operate an APEC Engineer Register in Chinese Taipei Economy by the APEC Engineer Coordinating Committee at its meeting in June 2005 held in Hong Kong. At the present, there are 13 member economies in the Coordinating Committee including Australia, Canada, Chinese Taipei, Hong Kong, Indonesia, Japan, Korea, Malaysia, New Zealand, Philippines, Singapore, Thailand and USA.

Dr. Za-Chieh Moh, President of MAA Group, was appointed as the first Chairman of the Chinese Taipei APEC Engineer Monitoring Committee.

## ► CONFERENCES, SEMINARS, AND OTHER MEETINGS

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
6th Arbitration Training Scheme	Taiwan Construction Arbitration Association	Taipei	02/10/2004	10/10/2004
2004 International Conference on Slope and Disaster Mitigation	Council of Agriculture, Executive Yuan	Taipei	05/10/2004	06/10/2004
Laboratory Accreditation Standard-ISO/IEC 17025 Training	Taiwan Accreditation Foundation	Taipei	06/10/2004	08/10/2004
International Symposium on Landslide and Debris Flow Hazard Assessment	Central Geological Survey, MOEA	Taipei	07/10/2004	08/10/2004
The Situation and Future Prospects of High Resolution Remote Sensing in Airplane and Satellite	Center for Space and Remote Sensing Research, National Central University	Jhongli	08/10/2004	08/10/2004
Workshop on Design of Concrete-filled steel tube Composite Structures	National Center for Research on Earthquake Engineering	Taipei	08/10/2004	08/10/2004
The 24th Chinese-Japanese Engineering Technique Conference	Directorate General of Highway, MOTC	Taipei	19/10/2004	20/10/2004
2004 Taiwan Rock Engineering Symposium	Department of Civil Engineering, Tamkang University	Taipei	21/10/2004	22/10/2004
Software Project Scheme Consultant Training Course	Information Service Industry Association of R.O.C	Taipei	23/10/2004	20/11/2004
American Simpson Strong-Tie Wood Connector & Wood Corrupt Prevention Technique Symposium	Yi-Tsai Wood Co., Ltd & Simpson Strong-Tie Co., Ltd	Taipei	29/10/2004	29/10/2004
Public Construction Quality Management Retraining Course	Chung Yuan University	Jhongli	02/11/2004	25/11/2004
Workshop on the Government Procurement Act	The Chinese Association of Engineering Consultants	Miaoli	03/11/2004	05/11/2004
Seminar on Technique Manuals of Emergent Bridge Rehabilitation and Temporary Bridge Construction( Including Warning System)	Taiwan Construction Research Institute	Taipei	05/11/2004	05/11/2004
2004 Cross-Strait Seminar on Ground Engineering	Sino-Geotechnics Research and Development Foundation	Taipei	09/11/2004	11/11/2004
AutoCAD 2005	The Chinese Association of Engineering Consultants	Taipei	09/11/2004	11/11/2004
Seminar on Life Cycle Cost Oriented Bridge Design	Taiwan Construction Research Institute	Taipei	10/11/2004	10/11/2004
Introduction of World's AGT and Rubber-tired Lrrt System	Department of Rapid Transit System, TCG	Taipei	15/11/2004	15/11/2004
Autodesk Land Desk Top 2005	The Chinese Association of Engineering Consultants	Taipei	16/11/2004	17/11/2004
Public Construction Quality Management training Course	China Productivity Center	Taipei	17/11/2004	17/01/2005
Seminar on Construction Management Practice	Labor Standards Inspection Office, Taipei City Government	Taipei	17/11/2004	17/11/2004
Seminar on SRC Design Technique	Chinese Architecture & Building Center	Taipei	18/11/2004	19/11/2004
Prof. T.Y. Lin Forum 2004	Development of Civil Engineering National Taiwan University	Taipei	19/11/2004	19/11/2004
2004 Annual Conference & 19th Seminar on the Chinese Institute of Transportation	Chinese Institute of Transportation	Tainan	19/11/2004	20/11/2004

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
Symposium on Taiwan Island Transportation Mainstay Consolidation Plan	Institute of Transportation, MOTC	Tainan	19/11/2004	19/11/2004
The 15th Southeast Asian Geotechnical Conference	Southeast Asia Geotechnical Society and Engineering Institute of Thailand	Thailand	21/11/2004	26/11/2004
Conference on Water-Quality Efficiency of River Use by Ecotechnology	Department of Bioenvironmental Systems Engineering, NTU	Taipei	22/11/2004	22/11/2004
Seminar on Safety Managing Technique of Reservoir/the Development of Small Hydraulic Power Station in Mainland China	Chung Yuan Christian University	Taipei	24/11/2004	24/11/2004
Public Construction Cost Estimate System Development Project Course	Archknowledge Co.,Ltd	Taipei	25/11/2004	26/11/2004
Seminar on 2004 Vegetation Engineering for Soil and Water Conservation	National Chung-Hsing University	Taipei	26/11/2004	26/11/2004
Conference on Application and Development of Optical Fiber Sensor	National Center for Research on Earthquake Engineering	Taipei	26/11/2004	26/11/2004
The 16th Annual Conference and Seminar of the Chinese Institute of Environmental Engineering	The Chinese Institute of Environmental Engineering	Tainan	26/11/2004	27/11/2004
Seminar on Public Procurement and B.O.T	German Trade Office Taipei	Taipei	29/11/2004	29/11/2004
Conference on Draft Specifications of Deterioration Evaluation and Repair of Reinforced Concrete Transportation Facility	Natioal Central University	Jhongli	01/12/2004	01/12/2004
Seminar on Sidewalk and Building Design for the Disabled People	China Road Federation	Taipei	09/12/2004	09/12/2004
Project Practice of Steel Construction Course	China Productivity Center	Taipei	11/12/2004	19/12/2004
Workshop on Seismic Evaluation and Retrofit of Non-Ductile RC Frames with Infilled Walls	National Center for Research on Earthquake Engineering	Taipei	17/12/2004	17/12/2004
The first Conference & Exhibition of Civil and Hydraulic Engineering for Softwear Applying and Experiences Exchange	Chinese Institute of Civil and Hydramic Engineering	Taipei	17/12/2004	18/12/2004
Model I Training Courses of Value Engineering	Chinese Value Engineering	Taipei	19/12/2004	30/01/2005
Seminar on Labor Pension Act	Chinese Association of Engineering Consultants, Taipei	Taipei	23/12/2004	23/12/2004
Workshop on Steel Structure Design & Construction on New Generation	Chinese Institute of Civil and Hydramic Engineering	Taipei	30/12/2004	30/12/2004
Seminar on Construction Regulations for Projects Close to MRT	Department of Rapid Transit System, TCG	Taipei	20/01/2005	21/01/2005
Ecological Workshop Serial (7) - Slope Ecological	Construction and Disaster Prevention Research Center, Feng Chia University	Taipei	20/01/2005	20/01/2005
Primavera Project Planner Training	China Engineering Consultants, Inc.	Taipei	20/01/2005	21/01/2005
Seminar on International Research Trend of Strong-Ground Motion Attenuation Relation and American Experience on Assessment of Design Earthquake	Sinotech Engineering Consultants, Inc.	Taipei	01/02/2005	01/02/2005
Seminar on Engineering Consulting Contract Rights	The Chinese Association of Engineering Consultants	Taipei	02/02/2005	02/02/2005
Public Construction Cost Estimate System Development Project Course	Archknowledge Co.,Ltd	Taipei	17/02/2005	18/02/2005

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
2004 Annual Meeting on Hazards Mitigation Research	National Science and Technology Center for Disaster Reduction	Tainan	17/02/2005	18/02/2005
Seminar on the Fourth International Conference on Weigh-In-Motion	National Taiwan University	Taipei	21/02/2005	23/02/2005
Seminar on Engineering Projects Management and Technology	Chinese Institute of Civil and Hydraulic Engineering	Taipei	22/02/2005	23/02/2005
Introduction to ArcIMS	Hitron Technologies Inc.	Taipei	10/03/2005	11/03/2005
Introduction to ArcGIS	Hitron Technologies Inc.	Taipei	23/03/2005	25/03/2005
Seminar in 2005 for Codes of Practicing as a Professional Environmental Engineer	Public Construction Commission, Executive Yuan	Taipei	24/03/2005	24/03/2005
The Participation of Infrastructure Construction by Private Sectors-The Basic Training Course	Taiwan Construction Research Institute	Taipei	29/03/2005	30/03/2005
Conference of Ecological of R.O.C	Environmental Protection Administration	Ilan	07/04/2005	08/04/2005
Seminar on Recent Development of Bridge Prestressing System in Europe and American	Ministry of Transportation and Communications Taiwan Area National Expressway Engineering Bureau	Taipei	14/04/2005	14/04/2005
Introduction to ArcSDE	Hitron Technologies Inc.	Taipei	20/04/2005	22/04/2005
NOVA Phase VII Annual Meeting, Taipei	Taipei Society for Traffic Safety, Taipei Rapid Transit	Taipei	21/04/2005	21/04/2005
2005 Seminar on Soil and Water Conservation Law and Regulation	Department of Civil Affairs, Taipei, TCG	Taipei	22/04/2005	22/04/2005
Lectures on SRC Design Code	Professional Structural Engineer Society of Taipei	Taipei	23/04/2005	23/04/2005
Training Course of Quality Plan and Supervision Plan Compile Guide	Taiwan Construction Research Institute	Taipei	27/04/2005	28/04/2005
Training Course for Manager of Labor Safety and Health	Industrial Safety and Health Association of Taiwan, R.O.C	Taipei	16/05/2005	30/06/2005
Seminar on Promote Common Duct System Planning Provide Supply Pipeline for End-User	Construction and Planning Agency, Ministry of the Interior	Hsinchu	18/05/2005	19/05/2005
Seminar on IEEE International Power Quality Strategy	National Federation of Professional Electrical Engineer Guilds of R.O.C & Taipei Professional Electrical Engineers Association	Taipei	23/05/2005	24/05/2005
Auto Civil 3D Demonstration	Autodesk Taiwan Ltd.	Taipei	26/05/2005	26/05/2005
Taiwan-Japan Conference of Design and Maintenance of Water Quality Improvement	Environmental Protection Administration	Taipei	26/05/2005	26/05/2005
The Fourth National Workshop on Nondestructive Evaluation of Civil Infrastructure System	Chinese Institute of Civil and Hydraulic Engineering	Taipei	26/05/2005	27/05/2005
The Seminar on 9th Construction & Engineering Management	National Taipei University of Technology	Taipei	27/05/2005	28/05/2005
The Seminar on Structure Performance-Based Design	Sinotech Engineering Consultants, Inc.	Taipei	28/05/2005	28/05/2005
2005 Conference of Roadway	China Road Association	Taipei	31/05/2005	31/05/2005
Lectures on Seismic Design Codes of Building	Professional Structural Engineer Society of Taipei	Taipei	04/06/2005	04/06/2005

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
2005 Cross-Strait Civil Engineering Symposium	Chinese Institute of Civil and Hydraulic Engineering	Taipei	07/06/2005	07/06/2005
Training for Reducing Occupational Fatality of Taipei City's Public Construction	Taipei Labor Standards Inspection Office Taipei City Government	Taipei	08/06/2005	08/06/2005
Conference of new pipe-jacking method in trenchless technology	Sinotech Engineering Consultants, Inc.	Taipei	08/06/2005	08/06/2005
The 25th Chinese-Japanese Engineer Technology Symposium-Railway Facility Group	Bureau of Taiwan High Speed Rail	Taipei	14/06/2005	14/06/2005
Symposium for Uncertainty in Measurement	Taiwan Accreditation Foundation	Taipei	14/06/2005	15/06/2005
The 25th R.O.C-Japan Engineering Technology Seminar	Directorate General of Highways M.O.T.C	Taipei	15/06/2005	15/06/2005
By the Actual Example to Probe the Causes of the Engineering and Legal Problem	Chinese Institute of Civil and Hydraulic Engineering	Taipei	16/06/2005	17/06/2005
International Conference on Hillslope and Environmental Restoration	Council of Agriculture, Executive Yuan	Taipei	17/06/2005	17/06/2005
Seminar on Airport Ground Access System	Institute of Transportation, Ministry of Transportation and Communications	Taipei	17/06/2005	17/06/2005
Conference on Water Resource Development and Management in Kao-Ping River Basin	Kao-Ping River Basin Management Committee	Pingtung	23/06/2005	24/06/2005
Training Course for Integration of CSD/SEM Interface Drawings	Taiwan Construction Research Institute	Taipei	08/07/2005	14/07/2005
Government Procurement Training	National United University	Miaoli	14/07/2005	29/07/2005
Symposium on Soil Improvement	Taiwan Construction Research Institute	Taipei	19/07/2005	20/07/2005
Hot Spring Development and P.E. Responsibility	Water Resource Agency, Ministry of Economic Affairs	Taipei	20/07/2005	20/07/2005
Conference of Road Maintenance and Management	China Road Association	Taipei	26/07/2005	26/07/2005
Water Reuse of Industrial Discussion	Industrial Development Bureau Ministry of Economic Affairs	Taipei	16/08/2005	16/08/2005
94 Seminar on Environmental Impact Assessment	Environment Protection Bureau of Taipei Country	Taipei	19/08/2005	19/08/2005
The 13th Cross Straits Urban Traffic Seminar	Taipei Society for Traffic Safety	Taipei	19/08/2005	22/08/2005
Seminar on the Environmental Science and Technology Parks Business Promotion	Environmental Protection Administration	Taipei	07/09/2005	07/09/2005
The 11th Conference on Current Researches in Geotechnical	Taiwan Geotechnical Society	Taipei	08/09/2005	10/09/2005
Symposium on New Technologies of Soil and Groundwater Pollution and Remediation	Taiwan Association of Soil and Groundwater Environmental Protection	Taipei	16/09/2005	16/09/2005

## ► TECHNICAL PUBLICATIONS

Chin, C.T., Chao, H.C., Yao, T.C., and Chen, J.R. (2005), "Foundation Systems in Taipei", *Proc., SSMGE ATC-7 and KGC Joint Symposium, Pusan, Korea.*

Chin, C.T., Chen, J.R., Sun, C.W., and Wang, C.H. (2004), "An Overview of the New Trend in Geotechnical Code Development", *Proc., 2004 Taiwan Rock Engineering Symposium, Taipei, Taiwan, pp. 45-55 (in Chinese).*

Chin, C.T., Liu, K.F., and Chen, J.R. (2005), "Natural Disasters in Taiwan", *Proc., 3rd International Conference on Geotechnical Engineering combined with 9th Yearly Meeting of the Indonesian Society for Geotechnical Engineering, Semarang, Indonesia.*

Chin, C.T., Yao, T.C., Chen, J.R., and Hu, I.C. (2005), "Use of Numerical Modeling in Underground Construction", *Proc., 2nd World Forum of Chinese Scholars in Geotechnical Engineering, Nanjing, China.*

Duann, S.W., Chen, M.C., Seah, T.H. and Fujita, M. (2004), "Optimization of Pile Foundation Design Through Full-Scale Pile Load Tests in Taiwan High Speed Rail Project", *Proc., 25th Southeast Asian Geotechnical Conference., Bangkok, Thailand, Vol. 1, pp. 223-230.*

Fang, T.C., Tsai, Y.Y., Su, T.C., Tsung, Y.F., and Seeley, P. (2004), "A Case Study on Time-Dependent Displacement of Diaphragm Wall Induced by Creep of Soft Clay", *Proc., 2004 Cross Strait Seminar on Ground Engineering – Papers Contributed from Taiwan, Taipei, Taiwan (in Chinese).*

Moh, Z.C. (2004), "Site Investigation and Geotechnical Failures", *Proc., Second International Conference on Structural and Foundation Failures, Singapore, pp. 58-71.*

Moh, Z.C., Chin, C.T., Chen, J.R., and Wang, C.H. (2004), "Treatment of Uncertainties in Geotechnical Engineering", *Proc., 1st Chinese Conference on Special Techniques for Building Foundations, Hangzhou, China (in Chinese).*

Seah, T.H., Moh, Z.C., Chin, C.T., and Duann, S.W. (2005), "Pile Foundations of Taiwan High Speed Rail", *Proc., 16th International Conference on Soil Mechanics and Geotechnical Engineering, Osaka, Japan, pp. 2175-2178.*

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), "Case Study on Tunnel Construction under River", *Proc. International Symposium on Design, Construction and Operation of Long Tunnels, November 7-11, Taipei, Taiwan.*

Yao, D.T.C. and Wu, C.H. (2004), "Ground Movement Analysis of Pipe Roof Construction in Soft Clay", *Proc., 15th Southeast Asian Geotechnical Conference, Bangkok, Thailand, Vol. 1, pp. 747-752.*

## PERSONNEL MOVEMENTS

### ► NEW APPOINTMENTS

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Chung-Nan Weng	翁宗男	Environmental Engineer II	Environmental Protection Dept.	01/10/2004
Shih-Hao Liu	劉士豪	Traffic Engineer II	Electric and Mechanical System Engg. Dept.	11/10/2004
Chung-Bo Wang	王琮柏	Geotechnical Engineer II	Geotechnical Engg. Dept.	11/10/2004

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Kuo-Long Chen	陳國龍	Civil Engineer I	Transportation & Civil Engg. Dept. I	21/10/2004
Hui-Chun Huang	黃慧君	Engineering Geologist II	Geomatics Dept.	01/11/2004
Ta-Hsing Lee	李大行	Senior Civil Engineer II	Construction Management Dept.	01/11/2004
Wan-Ling Hsieh	謝婉玲	Civil Engineer III	Transportation & Civil Engg. Dept. I	03/11/2004
Chen-Yuan Chiu	邱振原	Civil Engineer III	Transportation & Civil Engg. Dept. I	10/11/2004
Chien-Ming Cheng	鄭健銘	Civil Engineer II	Transportation & Civil Engg. Dept. I	11/11/2004
Yen-Ying Lee	李妍瑩	Structural Engineer II	Structural Engg. Dept.	15/11/2004
Yan-Yu Liu	劉彥妤	Civil Engineer II	Transportation & Civil Engg. Dept. I	19/11/2004
Kuan-Chen Lin	林寬振	Environmental Engineer II	Environmental Protection Dept.	22/11/2004
Hon-Xin Chou	周宏勳	Structural Engineer II	Structural Engg. Dept.	01/12/2004
Chun-Chien Yang	楊竣傑	Technician I	Kaohsiung Office	01/12/2004
Po-Hung Lin	林柏宏	Civil Engineer II	Transportation & Civil Engg. Dept. I	06/12/2004
Ming-Chou Wu	吳明洲	Senior Technician	Transportation & Civil Engg. Dept. I	08/12/2004
Tzung-Shiun Guo	郭宗勳	Electrical Engineer III	Electric and Mechanical System Engg. Dept.	20/12/2004
Juing-Kuing Wu	巫謹光	Civil Engineer II	Transportation & Civil Engg. Dept. I	03/01/2005
Riffer-Koch Zsuzsanna	柯珊娜	Environmental Engineer II	Environmental Protection Dept.	03/01/2005
Han-Ke Chen	陳漢克	Environmental Engineer II	Environmental Protection Dept.	05/01/2005
Shih-Hung Chen	陳士宏	Senior Geotechnical Engineer II	Geotechnical Engg. Dept.	08/01/2005
Bo-Ren Wang	王柏仁	Environmental Engineer II	Environmental Protection Dept.	10/01/2005
Chi-Hung Chao	趙啟宏	Geotechnical Engineer II	Geotechnical Engg. Dept.	10/01/2005
Chia-Ling Chiu	邱嘉玲	Clerical Assistant	Environmental Protection Dept.	10/01/2005
Ming-Hsang Wan	萬明憲	Geotechnical Engineer II	Geotechnical Engg. Dept.	11/01/2005
Chin-Wen Yang	楊志文	Geotechnical Engineer I	Geotechnical Engg. Dept.	14/02/2005
Tai-Shan Tang	唐太山	Environmental Engineer II	Environmental Protection Dept.	16/02/2005
Min-Chieh Lien	連敏傑	Clerical Assistant	Environmental Protection Dept.	24/02/2005
Cheng-Chen Wu	吳政貞	Geotechnical Engineer II	Geotechnical Engg. Dept.	01/03/2005
Szu-Hung Chou	周億弘	Senior Technician	Electric and Mechanical System Engg. Dept.	01/03/2005
Su-Chi Huang	黃素姬	Civil Engineer III	Transportation & Civil Engg. Dept. I	07/03/2005

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Chih-Yu Sun	孫志裕	Technician I	Kaohsiung Office	10/03/2005
Chen-Yuan Li	李程遠	Geotechnical Engineer II	Geotechnical Engg. Dept.	21/03/2005
Jiun-Yi Kou	寇君毅	Geotechnical Engineer III	Geotechnical Engg. Dept.	21/03/2005
Shin-Chia Huang	黃信嘉	Senior Technician	Transportation & Civil Engg. Dept. I	29/03/2005
Chin-Chen Chang	張晉誠	Technician I	Kaohsiung Office	01/04/2005
Yi-Hsin Lin	林怡欣	Clerical Assistant	Transportation & Civil Engg. Dept. I	01/04/2005
Hung-Hsin Chen	陳泓炘	Civil Engineer II	Transportation & Civil Engg. Dept. I	02/05/2005
Yuan-Sheng Lin	林元生	Civil Engineer II	Transportation & Civil Engg. Dept. II	02/05/2005
Sue-Yan Chen	陳書彥	Personnel Clerk III	Administration Dept.	10/05/2005
Ming-Shen Li	李旻陞	Civil Engineer III	Construction Management Dept.	11/05/2005
Tzung-Cheng Chou	周宗正	Senior Technician	Transportation & Civil Engg. Dept. I	12/05/2005
Hua-Ching Liang	梁惠卿	Electric-Mechanical System Engineer III	Electric and Mechanical System Engg. Dept.	26/05/2005
Yi-Chien Chen	陳怡倩	3D Planner	Information Center	26/05/2005
Yeong-Yuan Chern	陳永源	Electric-Mechanical System Engineer II	Construction Management Dept.	30/05/2005
Wen-Chin Chang	張文進	Civil Engineer II	Geomatics Dept.	01/06/2005
Xi-Nni Cheng	鄭歆霓	Clerical Assistant	Information Center	13/06/2005
Shiow-Jiun Lee	李秀君	Electrical Engineer II	Electric and Mechanical System Engg. Dept.	15/06/2005
Hsiao-Chen Tang	湯小真	Senior Technician	Electric and Mechanical System Engg. Dept.	20/06/2005
Ken-Hao Yeh	葉耿豪	Civil Engineer II	Construction Management Dept.	01/07/2005
Li-Lin Xue	薛莉琳	Clerical Assistant	Environmental Protection Dept.	01/07/2005
Kuang-Hui Chai	翟光慧	Civil Engineer III	Construction Management Dept.	06/07/2005
Pei-Ling Lee	李佩玲	Civil Engineer III	Construction Management Dept.	06/07/2005
Pei-Lin Hou	侯沛霖	Geotechnical Engineer II	Geotechnical Engg. Dept.	07/07/2005
Jiun-Nan Chen	陳俊男	Civil Engineer III	Transportation & Civil Engg. Dept. I	08/07/2005
Zhao-Wei Lin	林昭葳	Structural Engineer II	Structural Engg. Dept.	11/07/2005
Yung-Chih Chen	陳勇智	Civil Engineer III	Transportation & Civil Engg. Dept. I	11/07/2005
Wei-Chun Luo	羅尉純	Computer Engineer III	Geomatics Dept.	19/07/2005
Yi-Chang Chan	詹益璋	Environmental Engineer II	Environmental Protection Dept.	19/07/2005

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Ta-Cheng Chen	陳達政	Senior Geotechnical Engineer II	Geotechnical Engg. Dept.	25/07/2005
Gin-Hai Sen	孫金海	Electric-Mechanical System Engineer I	Electric and Mechanical System Engg. Dept.	01/08/2005
Yao-Sheng Yang	楊耀昇	Structural Engineer II	Structural Engg. Dept.	01/08/2005
Ching-Ying Lin	林青瑩	Geotechnical Engineer II	Geotechnical Engg. Dept.	01/08/2005
Chi-Jui Huang	黃啟瑞	Geotechnical Engineer II	Geotechnical Engg. Dept.	01/08/2005
Chia-Hui Lin	林佳慧	Clerical Assistant	Environmental Protection Dept.	01/08/2005
I-Chiun Liu	劉怡君	Clerical Assistant	Environmental Protection Dept.	04/08/2005
Chia-Chun Yu	游佳純	Clerical Assistant	Transportation & Civil Engg. Dept. I	12/08/2005
Chin-Chen Lee	李金城	Senior Electric-Mechanical System Engineer II	Construction Management Dept.	15/08/2005
Hua-Yu Chiu	邱華玉	Traffic Engineer II	Electric and Mechanical System Engg. Dept.	15/08/2005
Yu-Chi Lee	李玉麒	Civil Engineer III	Transportation & Civil Engg. Dept. I	16/08/2005
Chong-Ming Sun	孫仲民	Civil Engineer II	Transportation & Civil Engg. Dept. I	17/08/2005
Min-Yu Ting	丁敏育	Electrical Engineer III	Electric and Mechanical System Engg. Dept.	02/09/2005
An-An Tseng	曾安安	Structural Engineer II	Structural Engg. Dept.	02/09/2005
Se-Min Chen	陳仕閔	Civil Engineer II	Transportation & Civil Engg. Dept. II	02/09/2005
Chu-Wen Yang	楊主文	Senior Structural Engineer II	Structural Engg. Dept.	08/09/2005
Tzu-Ping Chen	陳姿萍	Electric-Mechanical System Engineer III	Electric and Mechanical System Engg. Dept.	12/09/2005
Tse-Ming Chou	周澤民	Structural Engineer I	Structural Engg. Dept.	12/09/2005
Kim-Fung Li	李金峰	Clerical Assistant	Structural Engg. Dept.	13/09/2005
Wen-Chuan Yang	楊文川	Civil Engineer II	Transportation & Civil Engg. Dept. II	15/09/2005
Shih-Jing Chueh	關士景	Civil Engineer II	Transportation & Civil Engg. Dept. I	20/09/2005
Yao-Nan Chen	陳耀南	Senior Electrical Engineer II	Electric and Mechanical System Engg. Dept.	22/09/2005
Kuei-Jung Lin	林貴榮	Senior Civil Engineer II	Construction Management Dept.	22/09/2005
Hung-Yen Lee	李泓彥	Civil Engineer II	Transportation & Civil Engg. Dept. I	26/09/2005

## PROMOTIONS

ENGLISH NAME	CHINESE NAME	DEPARTMENT	FROM	TO	EFFECTIVE DATE
Han-Ting Lo	駱漢鼎	Geotechnical Engg. Dept.	Geotechnical Engineer II	Geotechnical Engineer I	01/11/2004
Jeng-Long Lee	李振隆	Electric and Mechanical System Engg. Dept.	Electric-Mechanical System Engineer I	Electric-Mechanical System Engineer I and Deputy Manager of Electric and Mechanical System Engg. Dept.	01/01/2005
Jeng-Long Lee	李振隆	Electric and Mechanical System Engg. Dept.	Electric-Mechanical System Engineer I	Senior Electric-Mechanical System Engineer II	01/04/2005
Song-Tsang Lin	林松蒼	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/04/2005
Cheng-Wen Weng	翁正文	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/04/2005
Pi-Chiung Chang	張筆炅	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/04/2005
Kok-Siang Cheng	莊國祥	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/04/2005
Jun-Ming Hwang	黃俊銘	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/04/2005
Ding-Jong Wu	吳定忠	Structural Engg. Dept.	Geotechnical Engineer I	Senior Geotechnical Engineer II	01/04/2005
Hsiu-Kang Peng	彭琇康	Structural Engg. Dept.	Structural Engineer I	Senior Structural Engineer II	01/04/2005
Jiunn-Ming Lin	林俊銘	Structural Engg. Dept.	Structural Engineer I	Senior Structural Engineer II	01/04/2005
Yu-Chi Lin	林育祺	Construction Management Dept.	Civil Engineer II	Civil Engineer I	01/04/2005
Bor-Rong Yang	楊柏榮	Construction Management Dept.	Civil Engineer II	Civil Engineer I	01/04/2005
Wen-Ching Lee	李雯靜	Construction Management Dept.	Civil Engineer III	Civil Engineer II	01/04/2005
Jun-Her Guo	郭俊何	Geotechnical Engg. Dept.	Geotechnical Engineer II	Geotechnical Engineer I	01/04/2005
Wei-Po Lee	李礎柏	Geotechnical Engg. Dept.	Geotechnical Engineer II	Geotechnical Engineer I	01/04/2005
Chih-Hung Wu	吳志宏	Transportation & Civil Engg. Dept. I	Geotechnical Engineer II	Geotechnical Engineer I	01/04/2005
Yuan-Yao Tsai	蔡淵堯	Geotechnical Engg. Dept.	Geotechnical Engineer II	Geotechnical Engineer I	01/04/2005
Chuan-Sheng Kao	高傳勝	Geotechnical Engg. Dept.	Geotechnical Engineer II	Geotechnical Engineer I	01/04/2005
Yun-Hui Lai	賴昀暉	Geotechnical Engg. Dept.	Geotechnical Engineer II	Geotechnical Engineer I	01/04/2005
Yee-Chen Lin	林怡成	Transportation & Civil Engg. Dept. II	Civil Engineer II	Civil Engineer I	01/04/2005
Chia-Lang Chang	張家郎	Transportation & Civil Engg. Dept. I	Civil Engineer II	Civil Engineer I	01/04/2005
Chia-Jui Lin	林佳銳	Transportation & Civil Engg. Dept. I	Civil Engineer III	Civil Engineer II	01/04/2005
Wen-Yuan Ho	何文元	Transportation & Civil Engg. Dept. I	Technician I	Senior Technician	01/04/2005
Ching-Yu Chien	簡清鈺	Electric and Mechanical System Engg. Dept.	Electrical Engineer II	Electrical Engineer I	01/04/2005

ENGLISH NAME	CHINESE NAME	DEPARTMENT	FROM	TO	EFFECTIVE DATE
Lih-Chun Sung	宋麗春	Financial Dept.	Section Chief of Accounting Office	Senior Section Chief of Accounting Office	01/04/2005
Pih-Yun Lin	林碧雲	Senior Vice President Office	Secretary II	Secretary I	01/04/2005
Chen-Hui Hsieh	謝震輝	Transportation & Civil Engg. Dept. II	Senior Structural Engineer II and Deputy Manager of Transportation & Civil Engg. Dept. II	Senior Structural Engineer II and Manager of Transportation & Civil Engg. Dept. II	01/06/2005
Chih-Hong Ma	馬志宏	Environmental Protection Engg. Dept.	Environmental Engineer I	Senior Environmental Engineer II	01/06/2005
Shau-Heng Chiou	邱紹恆	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/06/2005
Tung-Yuan Wang	王東源	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/06/2005
Jaw-Shuenn Lin	林照順	Transportation & Civil Engg. Dept. II	Civil Engineer I	Senior Civil Engineer II	01/06/2005
Chung-Ren Chou	周忠仁	Geotechnical Engg. Dept.	Geotechnical Engineer I	Senior Geotechnical Engineer II	01/06/2005
Shih-Hung Chen	陳士宏	Geotechnical Engg. Dept.	Geotechnical Engineer I	Senior Geotechnical Engineer II	01/06/2005
Su-Chi Huang	黃素姬	Transportation & Civil Engg. Dept. I	Senior Technician	Civil Engineer III	01/06/2005

# AWARDS

## AWARDS

NAME	PROJECT	POSITION	DESCRIPTION	AWARD TYPE
林向榮 Hsiang-Jung Lin	Fushin North Road Underpass Project	Senior Civil Engineer II	On 24 August 2005, a Far Eastern Airline slipped off the runway track due to the severe storm from Aili Typhoon. Without second thoughts to the dangers posed by the Aili Typhoon, Fushing North Road Underpass Project Manager Hsiang-Jung Lin and Yung-Tao Hsu took immediate actions to assist the airport authorities by sending engineers and equipments to pull the airplane back into the proper runway. Their exceptional bravery, responsibility and assistance won the praise from the Songshan Airport client. Not only have they saved people from potential danger, but has shown the MAA spirit to many people, which deserves special mentioning.	Merit Award
徐永燾 Yung-Tao Hsu	Fushin North Road Underpass Project	Civil Engineer II		Merit Award
毛聖生 Sheng-Sheng Mao	Environmental Protection Engg. Dept.	Senior Environmental Engineer II	Mr. Sheng-Sheng Mao and Ms. Chia-Hsing Wu are recognized for their ability to encourage teamwork and clear communication with the client which led to three years of Grade A evaluation for the progress of Kaohsiung stormwater sewage pipeline project.	Merit Award
吳家興 Chia-Hsing Wu	Environmental Protection Engg. Dept.	Environmental Engineer I		Merit Award

NAME	PROJECT	POSITION	DESCRIPTION	AWARD TYPE
葉晉華 Jinn-Hwa Yeh	Kaohsiung Office	Civil Engineer III	Mr. Jinn-Hwa Yeh and Mr. Chih-Yu Sun of MAA Kaohsiung office are recognized for their contributions to construction supervision of Kaohsiung City sanitary sewage secondary pipeline project, which the Client gave a grade A evaluation.	Merit Award
孫志裕 Chih-Yu Sun	Kaohsiung Office	Technician I		Merit Award
詹仕煒 Su-Uei Jan	Transportation & Civil Engg. Dept. I.	Civil Engineer I	Mr. Su-Uei Jan is recognized for his responsible, hardworking, assertiveness, and creativity, which helped MAA win many projects. His ability to work well with people as a team won praises from both clients and MAA staff. Lastly, his ability to complete his tasks smoothly and responsibly altogether made him the Staff of the Year.	staff-of-the-year
徐中銘 Jong-Mine Hsu	Electric and Mechanical System Engg. Dept.	Senior System Engineer	Mr. Jong-Min Hsu is recognized for the control, devotion and efficient set up of the Public Construction Project Cost Assessment Information System. The Client, Public Construction Commission, Executive Yuan wrote a special letter to commend his abilities.	Merit Award
盧慧真 Hui-Chin Lu	Structural Engg. Dept.	CAD Designer I	Mrs. Hui-Chin (Lulu) Lu is recognized for her exceptional assistance to Mr. Jong-Min Hsu in various tasks, including setting up, testing, and monitoring systems, all to ensure the smooth implementation of the systems for clients.	Merit Award

## ▶ LONG-YEARS SERVICE AWARDS

AWARD TYPE	COMPANY	ENGLISH NAME	CHINESE NAME	POSITION HELD
25 years service	MAAT	Fuh-Gwo Wang	王復國	Business Manager
	MAAT	Hsiu-Li Lin	林秀麗	Accountant II
20 years service	MAAT	Tung-Lih Yen	顏東利	Senior Geotechnical Engineer II
	MAAT	Hsiang-Liu Wang	王祥驪	Senior Vice President
15 years service	MAAT	Che-Tsung Huang	黃哲宗	Senior Civil Engineer II
	MAAT	Wen-Yu Hsieh	謝文玉	Senior Technician
	MAAT	Kwai-Cheung Hui	許季翔	Environmental Engineer I
	MAAT	Jyh-Shiou Jeng	鄭志修	Senior Programmer
	MAAT	Sheng-Sheng Mao	毛聖生	Senior Environmental Engineer II
	MAAT	Hsueh-Er Chang	張雪娥	Secretary II
	MAAT	Ting-Chiun Su	蘇鼎鈞	Senior Geotechnical Engineer II
MAAT	Chien-Jung Lee	李健榮	Geotechnical Engineer I	

AWARD TYPE	COMPANY	ENGLISH NAME	CHINESE NAME	POSITION HELD
15 years service	MAAT	Fred Hsu	許如松	Deputy Manager
	MAAT	Chin-Der Lin	林金德	Senior Environmental Engineer II and Manager
	MAAT	Gwo-Jenn Liu	劉國鎮	Senior Geotechnical Engineer II
	MAAT	Chih-Hong Ma	馬志宏	Senior Environmental Engineer II
	MAAT	Kuo-Feng Huang	黃國峰	Environmental Engineer I
10 years service	MAAT	Jin-Ling Shsu	許金凌	CAD Designer III
	MAAT	Shyan-Ching Jang	鍾賢慶	Senior Structural Engineer II
	MAAT	Shih-Chang Huang	黃士彰	Senior Civil Engineer II and Manager
	MAAT	Tzu-Jeng Su	蘇子正	Senior Structural Engineer II
	MAAT	Wei-Chi Chiang	江維淇	Word Processor III
	MAAT	Shian-Tsair Sheu	許先才	Geotechnical Engineer I
	MAAT	Jaw-Shuenn Lin	林照順	Senior Civil Engineer II
	MAAT	Mei-Lung Hong	洪美蓉	Secretary II
	MAAT	Jing-Fu Hsu	許景富	Engineering Geologist I
	MAAT	Chin-Nan Cheng	鄭進南	Senior Civil Engineer II
	MAAT	Yung-Chien Hsu	許永健	Civil Engineer I
	MAAT	Szu-Ming Kang	康思敏	Structural Engineer I
	MAAT	Win-Sen Lin	林文盛	Senior Civil Engineer II and Technical Manger
	MAAT	Shao-Kuei Chen	陳紹魁	Senior Geotechnical Engineer II
	MAAT	Shang-Tzone Kuo	郭賢宗	Civil Engineer I
	MAAT	Jin-Chih Guo	郭嘉琪	Secretary II
	MAAT	Pei-Yu Huang	黃培宇	Senior Civil Engineer II
	MAAT	Hsi-Fu Pan	潘錫富	Senior Structural Engineer II
5 years service	MAAT	Tsoi-Yen Cheng	鄭在仁	Senior Geotechnical Engineer I
	MAAT	Cheng-Wen Weng	翁正文	Senior Civil Engineer II
	MAAT	Hung Wang	王宏	Senior Civil Engineer I
	MAAT	Yu-Hsiang Kuo	郭育祥	Civil Engineer I
	MAAT	Su-Uei Jan	詹仕煒	Civil Engineer I

AWARD TYPE	COMPANY	ENGLISH NAME	CHINESE NAME	POSITION HELD
5 years service	MAAT	Meng-Han Chuang	莊孟翰	Geotechnical Engineer I
	MAAT	Chi-Yu Liu	劉濟宇	Engineer I
	MAAT	Kun-Sung Chen	陳坤頌	Structural Engineer I
	MAAT	Jen-Chieh Moh	莫仁傑	Design Group Director
	MAAT	Wei-Dong Wang	王偉棟	Senior Electric-Mechanical System Engineer II
	MAAT	Sue-Nuan Wu	吳淑暖	CADD Operator
	MAAT	Ming-Teh Hsieh	謝銘德	Engineering Geologist II
	MAAT	Bi-Zhu Wen	溫碧珠	Civil Engineer II
	MAAT	Hung-Sheng Lee	李虹昇	Civil Engineer II
	MAAT	Ching-Chyung Chen	陳清全	Senior Civil Engineer II
	MAAT	Jui-Chu Wu	吳瑞菊	Secretary III
	MAAT	Li-Chu ChenShih	陳施麗珠	Word Processor III
	MAAT	Sheng-Kai Yang	楊勝凱	Civil Engineer I
	MAAT	Chin-An Lee	李謹安	Senior Technician
	MAAT	Kung-Hsien Hwang	黃孔賢	Civil Engineer III
	MAAT	Wen-Chuan Hwang	黃文權	Geotechnical Engineer I
	MAAT	Chung-Jung Yu	游中榮	Engineer I
	MAAT	Shih-Hung Chen	陳士宏	Senior Geotechnical Engineer II
	MAAT	Zhong-Ping Lee	李中平	Civil Engineer II
	MAAT	Hsin-Yi Shen	沈欣怡	Civil Engineer II
MAAT	Yu-Chi Lin	林育祺	Civil Engineer I	

# PERSONNEL PROFILES

## Mr. Chen-Hui Hsieh (謝震輝)



Mr. Chen-Hui Hsieh was promoted to Manager of Transportation and Civil Engineering Department II in MAA Taiwan in June 2005. Mr. Hsieh obtained a B.S. degree in Civil Engineering from Chung Yuan Christian University, Taiwan in 1986 and M. Eng degree in Structures from National Central University in 1991. He joined MAA Taiwan in 1991 after graduation. In the 14 years at MAA, Mr. Hsieh has been involved in many projects including structural design for tunnels, bridges, buildings, viaducts, underground MRT Stations, sewerage systems, wastewater treatment plants, and various facilities and MRT lines. Examples include the Fushin North Road Extension Tunnel under Sung Shan Airport, Taipei MRT Mucha extensions, Kaohsiung MRT Depot stations, facilities at the Keelung Harbor, Tien Mu sewerage system and widening of a North Second Freeway section.

## Mr. Ding-Jong Wu (吳定忠)



Mr. Ding-Jong Wu was promoted to Senior Geotechnical Engineer II in MAA Taiwan in April 2005. Mr. Wu graduated with a B.S. degree in Civil Engineering at National Taiwan Institute of Technology, Taiwan in 1987. He is currently a Labour Safety and Hygienic Controller for Construction Industry. Mr. Wu joined MAA Taiwan upon graduation as a geotechnical engineer. His experiences covers field supervision of geotechnical investigation and field tests to planning and design. He was involved in the Geotechnical Engineering Specialty Consultant for Taipei MRT stages I, II and III, Kaohsiung New Town Construction Project, Taipei-Ilan Expressway, Taiwan High Speed Railway, Taipei Railway Underground Project, Taichung Power Plant and Kaohsiung MRT.

## Mr. Jeng-Long Lee (李振隆)



Promoted to Electric-Mechanical System Engineer I and Deputy Manager of Electric and Mechanical System Engineering Department. Mr. Lee received his Diploma in Electronic and A/C Engineering degree from Taipei Institute of Technology in 1970. Before joining MAA in 1998, he has worked at Hao Shih Refrigeration Engineering Co. Ltd., Taiwan Mazu Thida Co. Ltd., Overseas Chinese Commercial Bank, DELTA Consulting Engineering Co. Ltd, Yang Mei Electric Co. Ltd., Tun-Lei Engineering Corp. and Tuntex Distinct Corp.. At MAA Mr. Lee was in charge of the project management for electric and mechanical system for Core Pacific City Shopping Mall and was heavily involved in the BOOT Electric Toll Collection Project.

## Mr. Pi-Chiung Chang (張筆靈)



Mr. Pi-Chiung Chang was promoted to Senior Civil Engineer II in April 2005. Graduated with a degree in B.S in Civil Engineering in 1984 and M. Eng in Geotechnical Engineering in 1990 from Chung Yuan University, Taiwan, Mr. Chang joined MAA in 1993. Prior to joining MAA, Mr. Chang worked at Jeng-Ho Engineering Consultants, Inc. At MAA, Mr. Chang worked for Taiwan E-W Expressway Nanliao project, Dr. Sun Yat Sen highway Hsinchu widening project and Taipei New Community (Keelung River) Common Duct Planning project, Chung Tou Highway Project, Kaohsiung New Town Public Works and Tainan New Town Phase I.

### Mr. Hsiu-Kang Peng (彭琇康)



Mr. Hsiu-Kang Peng was promoted to Senior Structural Engineer II in April 2005. Mr. Peng graduated from Chung Yuan University in 1986 with a B.S. in civil engineering degree. Before joining MAA Taiwan in 1993, Mr. Peng worked at Taiwan Steel Tower Company and Evergreen Heavy Industrial Company for a total of five years. Since joining MAA, he has participated in structural designs for various types of bridges and viaducts including Second Freeway Nantou Section, Second Freeway Tachia-Changpin Section, construction bridge for the rebuilding of Shilin Bridge, viaduct for Tai-1 Provincial Highway, Chung San Road Section viaduct of Kaohsiung Metropolitan Area Expressway, design and project management of Taiwan High Speed Rail Contract C296, Eastern National Highway Sincheng-Jian Section and Emergent Bridge inspection project.

### Mr. Jun-Ming Hwang (黃俊銘)



Mr. Jun-Ming Huang was promoted to Senior Civil Engineer II in April 2005. He received his B.S. degree in Civil engineering from Feng Chia University in 1986. Before joining MAA in 1993, he worked at Fu Tse Construction Company and YS Engineering Company. At MAA, Mr. Huang did planning and design works for ChungTou Highway, Taoyuan Metropolitan Area MRT, Hsin Chu Metropolitan Area MRT, Taiwan High Speed Rail Hsin Chu Station New Town, Taipei city common duct system, Hsin Chu common duct system, Da-Dou Road common duct design and Kaohsiung Multi-functional Commerce Trade Park common duct.

### Mr. Jaw-Shuenn Lin (林照順)



Mr. Jaw-Shuenn Lin was promoted to Senior Geotechnical Engineer II in June 2005. Mr. Lin graduated with a B.S degree in civil engineering from Tam Kang University in 1990, and M. Eng in geotechnical engineering from National Chiao Tung University in 1992. After working one year for a National Science Council sponsored project as a research assistant and military service, Mr. Lin joined MAA in 1994. Mr. Lin worked for the Geotechnical Engineering Specialty Consultant Project for Taipei MRT, Kaohsiung MRT Red Line, Fu Yuan Street Bin Jang Street underpass, viaduct in Keelung, Taichung MRT, Taoyuan Municipal Wastewater Treatment plant, Taiwan Provincial Highway No. T0-1 Elevated Expressway, Nankang Trading and High Tech Park Zone, Taipei MRT Mu-Cha extension and XinYi line.

### Mr. Chih-Hong Ma (馬志宏)



Mr. Chih-Hong Ma was promoted to Senior Environmental Engineer II in June 2005. Mr. Ma obtained a B.S. degree in hydraulics engineering from Feng-Chia University in 1987. He is a member of the Chinese Institute of Environmental Engineering. Mr. Ma joined MAA in 1989 and has been involved in planning, design, supervision and testing of wastewater treatment facilities, solid waste management and noise conduction control and prevention plan. His experiences include wastewater treatment plants for city areas, industrial parks and hospitals, sound barriers for Taiwan High Speed Rail and freeways, water supply piping systems for new towns and development areas, environmental monitoring for industrial parks and expressways and environment impact assessment for highways, industrial areas and MRT projects.

### Mr. Shau-Heng Chiou (邱紹恆)



Mr. Shau-Heng Chiou was promoted to Senior Civil Engineer II in June 2005. He graduated from Chung Hsing University with B.S. and M.S. degrees in Soil and Water Conservation in 1989 and 1991, respectively. Mr. Chiou joined MAA in 1993 and has worked in projects such as Nan-Liao to Chu-Tung Expressway, Chung-Tou Highway, Fuhsing North Road Underpass, Hou-Lung to Wen-Shui Expressway, Yang Ming Shan Spa Resort Hotel, Han County Hillside Road and Hsichu Ke-yia Creek Riverside Road.

### Mr. Kok-Siang Cheng (莊國祥)



Mr. Kok-Siang Cheng was promoted to Senior Civil Engineer II in April 2005. Mr. Cheng graduated with a B.S. in civil engineering degree from National Taiwan University in 1983. Mr. Cheng had worked overseas in Singapore and Malaysia at Lian Hin Lee Construction Company (Singapore), Penta Ocean Construction Co. Ltd. (Singapore), M-Panel Construction Sdh. Bhd. (Malaysia), and in Taiwan at Sinotech Engineering Consultants, Inc. He joined MAA in 1990 and has worked briefly at L&M Foundation Specialist Pte. Ltd. for a few months in between. At MAA, his major works includes site supervision for Tou-Chien Bridge of Second Northern Freeway, engineering planning and feasibility study of Pei-Yi Super highway Tachan-Suao Section, Chiping Tunnel design, Tai-E viaduct, Tao Yuan wastewater treatment factory earthwork design, Second Freeway Nantou Section site supervision, Kaohsiung MRT coordination works and supervision work for Expressway under the HSR Viaduct Taoyuan section.

### Mr. Tung-Yuan Wang (王東源)



Mr. Tung-Yuan Wang was promoted to Senior Civil Engineer II in June 2005. Graduated with a B.S. degree in civil engineering from Feng Chia University in 1998, Mr. Wang joined MAA in 1995 after working at Chia Tien Engineering Consultants, and Join Engineering Consultants. He is a member of Chinese Institute of Civil and Hydraulic Engineering and China Road Federation. At MAA, Mr. Wang worked for the Taichung Section of Second Freeway Extension project, Chung Sun Freeway widening project, and mainline and local road detours for Taiwan High Speed Rail.

### Mr. Chung-Ren Chou (周忠仁)



Mr. Chung-Ren Chou was promoted to Senior Geotechnical Engineer II in June 2005. He received his B.S. degree in civil engineering from Chung Yuan Christian University in 1992 and M.S. degree from University of Texas in 1995. He is currently a member of Taiwan Geotechnical Society. Prior to MAA, Mr. Chou worked at Ken-Yuan Engineering Consultant Co. Ltd., Plato Engineering Consultant Co., and Taiwan Area National Expressway Engineering Bureau. He joined MAA in 1998 and his works involved pile foundation design for Taipei 101, E-W Expressway in Ilan and Taiwan High Speed Rail, slope design of Hsin-I Extension Line, access road for Tai Power Bee-Hai Plant and Taiwan High Speed rail C220, geotechnical consultant of Lunman Project for Taipower Nuclear Plant, studies of rock classification & the establishment of engineering database for tunnel cases in Taiwan, station excavation and building protection, and design of MRT Xinyi Line and Songshan Line. Mr. Chou has co-written six technical papers.

### Mr. Cheng-Wen Weng (翁正文)



Mr. Cheng-Wen Weng was promoted to Senior Civil Engineer II in April 2005. Mr. Weng obtained a B.B.A degree and M.B.A. degree in Transportation from National Cheng Kung University, Taiwan in 1988 and 1990 respectively.

After finishing his military service, he entered MAA Taiwan and started his first project in the Taoyuan MRT System Planning, and later in the preliminary design of Nantou Section of Second Freeway, planning and design of Chung To Highway and planning of Hsinchu MRT System. He is currently a member of Chinese Institute of Transportation.

### Mr. Shih-Hung Chen (陳士宏)



Mr. Shih-Hung Chen was promoted to Senior Geotechnical Engineer II in June 2005. Mr. Chen graduated with a B.S. degree in civil engineering from Chung-Yuan Christian University in 1984. Mr. Chen joined MAA in 1999 after working for World Construction &

Exploration Inc., Department of Rapid Transit System TMG, East District Project Office of DORTS TMG, Trinity Construction Inc., Kung Sin Engineering Inc., and Taipei Financial Center Corp. His experiences include working at government agency and private companies for various national projects such as Air Base NATM Tunnel project, MRTs and MCTS projects, Taipei Railway Underground Project, World No. 1 Ultra Building and MRT projects. Other projects include the planning, designing, coordinating and tendering for tunnels, landfills, MRTS, shopping malls, MRT stations, university buildings and expressways. Mr. Chen is one of the two persons (Mr. Yun-Hui Lai 賴昀暉) who were at the fire that burnt down the office on 12 May 2001. He and his colleague's exceptional bravery and responsible actions to seek out other people in office is remembered by many of those in the company.

### Mr. Song-Tsang Lin (林松蒼)



Mr. Song-Tsang Lin was promoted to Senior Civil Engineer II in MAA Taiwan in April 2005. Graduated with a B.S. and M.S. degree in Hydraulic and Oceanic Engineering from National Cheng Kung University, Taiwan in 1988 and 990 respectively, Mr. Lin joined MAA

Taiwan two years later. At MAA, he had been involved in the planning of Drainage System for Shuang Cheng Li Hillside Development Project, Panchiao Extension Project Tunnel Structures under Hsie-Tien River, various roads, Chang Gung Memorial Hosiptal, Tanhai New Town Phase 1 Zone 2, new highway design in I-Lan county and public works of Urban Planning in Tai Ping, Taichung County.

### Mr. Jiunn-Ming Lin (林俊銘)



Mr. Jiunn-Ming Lin was promoted to Senior Structural Engineer II in April 2005. Mr. Lin obtained a B.S. civil engineering degree from National Cheng Kung University in 1989 and Ph.D. degree in structural engineering from Cornell University in 1995. his research in

Cornell was awarded the ACI-James Instruments Students Award for Nondestructive Testing of Concrete. He is currently a member of the Chinese Institute of Civil and Hydraulic Engineering and a member of Chinese Society of Structural Engineering. Mr. Lin joined MAA in 1998 and has participated in many works including design of prestressed concrete bridges, steel bridges, tunnels, special building structures and structural safety evaluation, and various projects in Taiwan Highspeed Rail and MRT projects. Some examples include: Chanpin Taichung East-West Expressway interchange design, remedial structure design of Second Freeway Nantou Section, plant design for Opto Tech Corporation, Fushing North Road underpass. In addition, he was involved in bridge and tunnel design for C296, C220 and C280 of Taiwan High Speed Rail project and was assigned as Discipline Leader of Structural Engineering for C296, project manager for C230 and C240. He was also involved in the design review of Kaohsiung MRT Project Lot CR4. Mr. Lin has published over 8 technical papers thus far.



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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 Jin Ru 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: maashcod@public.sta.net.cn

**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@tm.net.my

**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