



Bali welcomes Council Members to the 87th Governing Council Meeting

The REAAA Governing Council held its 87th meeting on 22 April 2009 in Bali, Indonesia. The well-organised meeting was attended by 22 Council Members, observers and invited guests.



87th Meeting of the Governing Council in Bali.

The preparation for the forthcoming 13th REAAA Conference, Katahira Award and the Memorandum of Understanding (MoU) between REAAA and PIARC were among the key issues discussed. Recommendations were made by the Council members to ensure the success of these events. Other issues included the follow-up actions to be taken on matters arising from the final draft of the Compendium on Disaster Risk Management, the report on the Mino Road show, the venue for the 90th Council meeting and the operations of REAAA Secretariat. The Council meeting also ratified the election of Tan Sri Dato' Ir. (Dr) Wan A. Rahman Yaacob as Honorary Member. The meeting was chaired by the REAAA President, Dr. Kyong-Soo Yoo.



Council Members attending the 87th Council Meeting.

The Governing Council for the 13th Council Term



President

Dr. Kyong-Soo Yoo

Immediate Past President

Mr. Salvador Pleyto

Past President

Prof. Ian Johnston

Vice Presidents

Public Works Department, Malaysia

(Dato' Sri Prof. Ir. Dr. Judin Abdul Karim)

ARRB Group Ltd, Australia

(Mr. Gerard Waldron)

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Dato' Ir. Dr. Safry Kamal bin Ahmad

Honorary Treasurer-General

Mr. Brent Johnston

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Australian Chapter

(Mr. Gary Liddle)

Public Works Department, Brunei

(Haji Suhaimi Haji Gafar)

Brunei Chapter

(Haji Suhaimi Haji Gafar)

Indonesian Road Development Association

(DR. Hermanto Dardak)

Express Highway Research Foundation of Japan

(Mr. Yasumasa Torii)

Japan Road Association

(Mr. Asao Yamakawa)

Korea Expressway Corporation

(Mr. Sung Hwan Kim)

Korean Chapter

(Mr. Kwang-Ung Hwang)

Malaysian Highway Authority

(Dato Ir. Hj. Mohamad Razali bin Othman)

Road Engineering Association of Malaysia

(Tan Sri Dato' Ir. Wan A Rahman Yaacob)

NZ Transport Agency

(Mr. Dave Bates)

New Zealand Chapter

(Mr. Richard Steel)

Road Engineering Association of the Philippines

(Mr. Bashir D. Rasuman)

Philippine Chapter

(Mr. Rafael C. Yabut)

Land Transport Authority, Singapore

(Dr. Chin Kian Keong)

China Road Federation, Taiwan

(Prof. Chang Chia Juch)

RSEA Engineering Corporation, Taiwan

(Mr. Ou Lai-Chen)

Roads Association of Thailand

(Mr. Aram Kornsombut)

Co-Opted Council Members

Dato' Ir. Han Joke Kwang (Malaysia)

Mr. Kieran Sharp (Australia)

Dato' Dr. Dennis Ganendra (Malaysia)

Mr. Keon-Chang Cho (Korea)

Road Bureau, MOCT (Korea)

CHANGES IN COUNCIL MEMBER REPRESENTATIVES

The Council has been informed at the 87th meeting of the Governing Council held on 22 April 2009 in Bali, Indonesia that there have been changes in Council Member representative for Brunei and New Zealand.

Brunei:

Haji Suhaimi Hj. Gafar is now the official representative for the Public Works Department, Brunei, succeeding Dato Paduka Hj. Abdul Rashid Hj. Abdul Rahman. Dato Paduka Hj. Abdul Rashid has been promoted to the Permanent Secretary at the Ministry of Development, Brunei. Haji Suhaimi Hj. Gafar also is the Chairman of Brunei Chapter replacing Dato Paduka Haji Othman in Hj. Yakub.

The meeting welcomed Haji Suhaimi to the Council and thank Dato Paduka Hj. Abdul Rashid for his services and contributions to the Association.



Haji Suhaimi Hj. Gafar

New Zealand:

Mr. Dave Bates is the official representative of NZTA in the REAAA Governing Council.

Dave Bates is currently Operations Manager for the Highways Group of the New Zealand Transport Agency. This group operates the strategic state highway network throughout New Zealand. He graduated BEng (Hons) from the University of Canterbury, Christchurch in New Zealand's South Island in 1970. After a number of years working on airport pavements and road maintenance, construction and management for local authorities and contractors in New Zealand and the United Kingdom, he joined the then Transit New Zealand, in 1990 as Regional Highways Engineer in Christchurch. There he looked after the operation of some 2200km of state highways on both sides of, and through, the alpine ranges of the South Island. In 2000, he took up a similar role at a national level in Wellington.

The meeting welcomed Mr. Dave Bates to the Council and thank Mr. Geoff Dangerfield for his services and contributions to the Association.



Mr. Dave Bates

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Group photograph of Council Members, observers and invited guests.

A welcome reception was hosted at the Lagoon Pool, Grand Hyatt Hotel on 21 April 2009. The Council Members had a glimpse of the rich Balinese cultural performances and a taste of Balinese traditional cuisine.

The grand official dinner held on 22 April 2009 at the Jendela Bali Resto, Garuda Wishnu Kencana provided an excellent opportunity for the Council Members to renew and establish new relationships, networking, and interaction with counterparts from Indonesia and other Member countries.

A technical tour to the Sewerage Project Centre, The Break Water Project and a sightseeing tour was organised on 23 April 2009. Special thanks must be extended to the host for their hospitality and for making the programme possible, especially the efforts and initiatives taken by Indonesian Road Development Association (IRDA) Chairman, DR. Hermanto Dardak, Honorary Secretary, Mr. Pudji and the Committee members in organising the Meeting and other related activities including the technical and sightseeing tours.

On behalf of the Governing Council the REAAA President, Dr. Kyong-Soo Yoo, expressed his heartfelt gratitude and appreciation to the host, the organisers and the sponsors namely the Indonesian Road Development Association, Indonesian Contractors Association (AKI), PT. Pembangunan Perumahan, National Association of Indonesian Consultants (INKINDO), PT.Jasa Marga (Persero)Tbk and Insitutue of Road Engineering & PT.Wijaya Karya for their efforts and generosity in making this event a highly successful and memorable occasion.

13th REAAA Conference Organisers meet Malaysian Minister of Works

Mr. Chullho Lieu, CEO of Korea Expressway Corporation and Chairman of the 13th REAAA Conference organising committee, Dr. Kyong-Soo Yoo, President of REAAA and Secretary General of the organising committee and Mr. Myung-Gi Kim, Secretary to the CEO of Korea Expressway Corporation made on a courtesy visit to the Honourable Minister of Works, Malaysia, Dato' Shaziman Abu Mansor at his office in Kuala Lumpur. The visitors were accompanied by Dato' Sri Prof. Ir. Dr. Judin Abdul Karim, the Director General of the Public Works Department (PWD) who is also a Vice President of REAAA.

At the meeting, Mr. Chullho Lieu extended an invitation to the Hon. Minister to attend the 13th REAAA Conference in Incheon, Korea from 23-26 September 2009.

Dr. Kyong-Soo Yoo thanked Dato' Sri Prof. Ir. Dr. Judin Abdul Karim and the PWD for coordinating this meeting with the Minister and other programmes. The focus of the visit was to finalise the preparation for the 8th HORA Meeting, 13th General Meeting, 88th and 89th Meeting which will be hosted by Korea in September 2009 in conjunction with the 13th REAAA Conference.



Dato' Sri Prof. Ir. Dr. Judin Abdul Karim (right) presenting a memento to Dr. Kyong-Soo Yoo.



Mr. Chullho Lieu (left) receiving a memento from Dato' Sri Prof. Ir. Dr. Judin Abdul Karim

Korea to play host to the 13th REAAA CONFERENCE

The 13th REAAA Conference will be held at Songdo Convensia in Incheon Metropolitan City, Korea from 23-26, September 2009. This much awaited premier road engineering event is jointly organised by REAAA, Incheon Metropolitan City Government, and the Korea Road & Transportation Association and supported by the Ministry of Land, Transport & Maritime Affairs, Korea Expressway Corporation, and Incheon Tourism Organisation.

Included in the programme is the high-ranking officials' session, scheduled on 24 September 2009. This session dedicated for VIPs from Asia, Australasia and the Middle East regions will facilitate discussion, directions and policies relating to the conference theme 'Future Roads-Safer, Greener & Smarter' and is expected to further enhance cooperation and the sharing of information.

Held once every two to four years, the REAAA Conference is an important feature in the calendar of REAAA and is looked forward to by the region's road engineering fraternity. The table below shows the past conferences.

Past Conferences

DATE	CONFERENCE	VENUE	NO.OF ATTENDEES
June, 1973	Inaugural Meeting to establish REAAA	Kuala Lumpur, Malaysia	
February, 1976	1 st REAAA Conference	Bangkok, Thailand	700
October, 1978	2 nd REAAA Conference	Manila, Philippines	900
April, 1981	3 rd REAAA Conference	Taipei, Taiwan	700
August, 1983	4 th REAAA Conference	Jakarta, Indonesia	800
August, 1986	5 th REAAA Conference	Adelaide, Australia	900
March, 1990	6 th REAAA Conference	Kuala Lumpur, Malaysia	1,100
June, 1992	7 th REAAA Conference	Singapore	800
April, 1995	8 th REAAA Conference	Taipei, Taiwan	600
May, 1998	9 th REAAA Conference	Wellington, New Zealand	600
September, 2000	10 th REAAA Conference	Tokyo, Japan	1,080
May, 2003	11 th REAAA Conference	Cairns, Australia	714
November, 2006	12 th REAAA Conference	Manila, Philippines	600

Coming Conference

September, 2009	13 th REAAA Conference	Incheon, Korea
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13th REAAA General Meeting

The 13th General Meeting is scheduled on 25 September 2009 in Korea in conjunction with the 13th REAAA Conference. The notice and agenda of the General Meeting was sent out to REAAA members in early August.

The election and installation of the Governing Council for the 14th Council Term will be among the highlights of the General Meeting.

8th HORA Meeting

The 8th Meeting of the Heads of Road Authorities (HORA) which is normally held concurrently has been tentatively scheduled on 24 September 2009 in conjunction with the 13th REAAA Conference

REAAA Council Meeting

The 88th Meeting of the REAAA Governing Council will be held on 25 September 2009. This meeting will be the final one for the 13th Council Term.

The 89th Meeting of the REAAA Governing Council is scheduled to be held on 26 September 2009 in Incheon City, Korea. The meeting will be the first for the 14th Council Term and to be held after the 13th General Meeting and to be chaired by the newly-elected President.

Response to technical papers

A record number of 327 technical papers were received from 22 countries. In tandem with the conference theme of 'Future Roads-Safer, Greener & Smarter', simultaneous technical sessions are being planned and keynote speakers had been identified.

KATAHIRA AWARDS in brief

Outstanding papers published in the REAAA Journals and/or presented at REAAA Conferences are eligible to receive the Katahira Awards.

The Award will be presented at the 13th REAAA Conference. The panel of judges is headed by Mr. Kieran Sharp, the Chairman of the REAAA Technical Committee.

KATAHIRA Journal Award

The Katahira Journal Award is presented annually to authors of outstanding papers published in the REAAA Journal To be eligible for the awards,

- The first or the second author (if there are multiple authors) must be under 40 years of age at the time of the submission of the paper and must be an Ordinary/Associate member of REAAA or an employee of an organization which is an Institutional Member of REAAA or associated with the above-stated member/employee as co-author;
- The paper should be original and has not been published or presented elsewhere in the same form.

13th REAAA Conference and PIARC Meetings 2009 Program

Time	20 Sept (Sun)	21 Sept (Mon)	22 Sept (Tue)	23 Sept (Wed)	24 Sept (Thu)	25 Sept (Fri)	26 Sept (Sat)					
09:00-09:30					Signing of MOU (Rm 203)	Plenary & Ministers' Session (2F, Premier Ballroom)	PIARC & REAAA Joint Seminar Plenary Session (2F, Premier Ballroom)					
09:30-10:00		PIARC Strategic Planning Commission (3F, Ballroom 2)	PIARC Technological Exchanges and Development Commission (3F, Lotus3)	PIARC Executive Committee Meeting (3F, Ballroom2)	REAAA Technical Sessions (1F & 2F Room)	REAAA Technical Sessions (1F & 2F Room)	REAAA Council Meeting (3F, Rm 302&303)					
10:00-10:30	PIARC Communications and International Relations Commission (3F, Lotus3)	PIARC Strategic Planning Commission (3F, Ballroom 2)	PIARC Technological Exchanges and Development Commission (3F, Lotus3)	PIARC Executive Committee Meeting (3F, Ballroom2)	PIARC National Committees Meeting (3F, Lotus3)	Special Session - International Commemorative Symposium for the Incheon Bridge (Rm. 102-105, 107-109, 302-303)	REAAA Registration (1F, Registration Counter)					
10:30-11:00								PIARC Council Meeting (3F, Ballroom2)	REAAA Technical Sessions (1F & 2F Room)	REAAA Technical Sessions (1F & 2F Room)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)
11:00-11:30								REAAA Technical Sessions (1F & 2F Room)	REAAA Technical Sessions (1F & 2F Room)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)
11:30-12:00								REAAA Technical Sessions (1F & 2F Room)	REAAA Technical Sessions (1F & 2F Room)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)
12:00-12:30	Luncheon (4F, Orchid3)	Luncheon (4F, Orchid3)	Luncheon (4F, Orchid3)	Luncheon (4F, Orchid3)	Luncheon (2F, Premier Ballroom)	Luncheon (2F, Premier Ballroom)	Luncheon (2F, Premier Ballroom)					
13:00-13:30												
13:30-14:00	PIARC Communications and International Relations Commission (3F, Lotus3)	PIARC Strategic Planning Commission (3F, Ballroom2)	PIARC Technological Exchanges and Development Commission (3F, Lotus3)	PIARC Executive Committee Meeting (3F, Ballroom2)	PIARC National Committees Meeting	Opening of 13 th REAAA Conference (2F, Premier Ballroom)	Opening of 3 rd ROTREX (1F, Exhibition Hall)					
14:00-14:30								PIARC Council Meeting (3F, Ballroom2)	REAAA Technical Sessions (1F & 2F Room)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)	
14:30-15:00								REAAA Technical Sessions (1F & 2F Room)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)	
15:00-15:30								REAAA Technical Sessions (1F & 2F Room)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)	REAAA Council Meeting (3F, Rm 302 & 303)	
15:30-16:00												
16:00-16:30												
16:30-17:00												
17:00-17:30												
17:30-18:00												
18:00-18:30												
18:30-19:00												
19:00-19:30	Casual welcome reception for PIARC Members (3F, Ballroom1)	PIARC Executive Committee Dinner (Kyeongbok Gung, Incheon)	PIARC & REAAA Welcome Dinner (2F, Premier Ballroom)	PIARC Council Dinner (Korea House, Seoul)	REAAA Council & HORA Dinner (SamcheongGak, Seoul)	PIARC & REAAA Farewell Dinner (2F, Premier Ballroom)	Closing of 13 th REAAA Conference (2F, Premier Ballroom)					
19:30-20:00												
20:00-20:30												
20:30-21:00												

PIARC Meetings - Sheraton Hotel

REAAA Conference & ROTREX - Songdo Convensia

Secretariat - Songdo Convensia Rm. 106



REAAA TO FORMALISE TIES WITH PIARC



REAAA has begun to formalise ties with the World Road Association (PIARC). This was discussed at the 86th and 87th Meeting of the REAAA Governing Council in Perth on October 2008 and in Bali on April 2009.

In June 2008, Mr Franck Charmaison, PIARC Deputy Secretary General, and Dr Hiroshi Mitani, Honorary President of PIARC, attended the 85th REAAA Council Meeting in Tokyo to present an initiative towards establishing a cooperative agreement between the two organisations. The following topics were proposed by PIARC for consideration by REAAA:

- Memorandum of Understanding (MoU) between REAAA and PIARC
- co-sponsoring of PIARC International Seminars
- special issue of PIARC Routes/Roads dedicated to REAAA.

MoU Between PIARC and REAAA

The revised MoU was tabled at the 86th Meeting and Members' comments were sought. Comments were also sought from PIARC.

The latest draft of the MoU, included minor amendments suggested by PIARC together with comments received from Japan and Malaysia.

The Governing Council has addressed the comments made by Japan and Malaysia and finalised the MoU to enable its signing at the 13th REAAA Conference in Korea in September 2009.

Co-Sponsoring of PIARC International Seminars

PIARC International Seminars are conducted in developing countries and countries with economies in transition. The aim is to facilitate the networking of experts from these countries with experts from the rest of the world towards further enhancing knowledge transfer. These International Seminars are planned at a regional level in order to reach not only experts in the host country but also from neighbouring countries.

For the next series of seminars, PIARC wishes to work closely with regional organisations such as REAAA, as it did successfully with similar organisations in Africa and Latin America. REAAA would be given the opportunity to co-sponsor seminars to be conducted in REAAA member countries.

In return REAAA is expected to:-

- encourage the preparation of papers to seminars from countries in the region
- assist in the dissemination of information regarding the seminar in the Member countries
- facilitate whenever possible the participation of local experts in the seminars.

At the 85th Meeting in Tokyo in June, proposals for hosting a PIARC International Seminar from Asia and Australasia had been offered by China and Malaysia. It was reported then that PIARC would very much welcome proposals from other countries in the region.

Special Issue of Routes/Roads

As reported at the last two meetings, in recognition of the developing relationship between PIARC and REAAA, PIARC has dedicated the July 2009 edition of Routes/Roads to issues within REAAA member countries in the Asia and Australasia region. The REAAA Technical Committee nominated the following theme for this special issue: Managing Road Assets for Community Outcomes. It was suggested that this issue be made available to participants of the 13th REAAA conference in Seoul in September 2009.

The following articles were published in the special edition of *Routes/Roads*:

Country	Author	Title
Australia	Phillip Walsh, Arthur Drepas	Regaining Best Use of Melbourne Motorways
Australia / Malaysia	Kieran Sharp, Emeritus Professor John Metcalf, KS Loh	Road Engineering Association of Asia and Australasia
Indonesia	Dr Triono Junoasmono	Managing Road Assets for Community Outcomes
Japan	Akira Fujimoto, Hideyuki Kanoshima, Hirota Sekiya, Syunsuke Matsumoto	Efficient Operation of Road Networks in Japan
Korea	Dr Hyeongtaek Kang	Bridge Management of Korea Expressway
Korea	Sungho Mun	Parameters to be Considered in Pavement Management Systems and Asset Management
Malaysia	Public Works Department, Malaysia	Maintenance of Federal Roads in Malaysia – Strategies and Challenges
New Zealand	Lisa Rossiter, J Skinner	Transport Solution that Support Community Outcomes
Singapore	Dr Chin Kian Keong, Chandrasekar	Transforming the Road Network to Serve the Diverse Needs of the Community
Thailand	Road Association of Thailand	Slope Management in Thailand: A Case Study

A brief statistical profile data of the REAAA member countries which contributed to *Routes/Roads* is as below.

Statistical Profile of REAAA Member Countries

Country	Australia	Indonesia	Japan	Rep. of Korea
Population	21,015,000	237,500,000	127,770,000	49,268,928
Federal Roads (total length in km)	22,500	500,000	54,530	17,200
State Roads (total length in km)	793,459		129,329	85,819
Toll Highways (total length in km)	282		7,553	3,368
Vehicles Registered (Units)	14,359,000	50,000,000	76,000,000	16,428,177
Annual Budget Related to Roads	US\$6.3 B	US\$	US\$73 B	US\$5 B

Country	Malaysia	New Zealand	Singapore	Thailand
Population	27,730,000	4,291,900	4,600,000	65,500,000
Federal Roads (total length in km)	16,509	10,906	770	212,000
State Roads (total length in km)	104,112	82,899	2,600	
Toll Highways (total length in km)	1,507	7.5		
Vehicles Registered (Units)	16,813,943	3,308,142	14,359,000	25,000,000
Annual Budget Related to Roads	US\$1.78 B	US\$0.78 B	US\$0.3 B	US\$

Technical Report - Compendium on Disaster Risk Management

REAAA is publishing technical reports/compendia to share its technical know-how and experiences with REAAA members and participating countries of the Heads of Road Authorities (HORA) Meetings. The technical reports are prepared based on the outcome of discussions and presentations at the HORA meetings. The annual HORA meeting is organized by REAAA. Seven such meetings have been held and the 8th HORA meeting is scheduled to be held in Incheon City, Korea in conjunction with the 13th REAAA Conference

The first Technical Report (TC-1): `Guide to the Privatisation of Expressways and Highways` was published in November 2008. The second Technical Report (TC-2) : `Compendium on Disaster Risk Management` was approved and would be printed in the latter part of the year.

The report was prepared under the guidance of Mr. Kieran Sharp of ARRB Group Australia who acted as the Project Manager and Mr. Keiichi Tamura of Public Works Research Institute, Japan with inputs from the Advisory Group.

Members of the Advisory Group on Disaster Risk Management :

- | | |
|---------------------|---|
| • Australia | Kieran Sharp (Convenor – Chairman of Technical Committee) |
| • Brunei | Haji Ismail bin Hj Md Jaafar |
| • Japan | Keiichi Tamura |
| • Korea | Dr. Hyung Taek Kang |
| • Malaysia | Dato' Ir. Azmi Hassan |
| • New Zealand | Rick van Barneveld |
| • Papua New Guinea | Gabriel Tomtai |
| • Philippines | Bashir D. Rasuman |
| • Singapore | Yap Boon-Leong |
| • Sri Lanka | RM Amarasekara |
| • Thailand | Nopadol Prapaitrakul |
| • REAAA Secretariat | KS Loh |



REAAA Report No: REAAA Technical Committee TC-2

REAAA Project: Disaster Risk Management

At the 6th Heads of Road Authorities (HORA) meeting in Seoul in May 2007, a Workshop on Disaster Risk Management was conducted and an Advisory Group was established to play a key role in coming up with a comprehensive compendia on disaster risk management in Asia Australasian countries.

The Advisory Group held its inaugural meeting in November 2007 in Malaysia in conjunction with the 84th Meeting of the REAAA Governing Council. It was agreed that the Advisory Group should be seen as the 'voice' in the region, and the focal point for other international agencies, in the area of disaster risk management. In line with this mission, the objectives of the Advisory Group were to:

- share experiences/practices in the region with respect to road infrastructure disaster risk management
- prepare a Compendium which reports current practice and lessons learned relating to road infrastructure disaster risk management
- disseminate relevant information through workshops and publications.

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MEETINGS IN Bali

Nusa Dua, April 2009

87th Meeting of REAAA Governing Council - Grand Hyatt Hotel, Nusa Dua 22 April 2009



Joint REAAA/IRDA Seminar - Karang Asem Room, Grand Hyatt Hotel, Nusa Dua 22 April 2009



Welcome Reception - Lagoon Pool, Grand Hyatt Hotel, Nusa Dua

21 April 2009



Joint REAAA/IRDA Dinner - Jendela Bali Resto, Garuda Wisnu Kencana

22 April 2009



Technical Tour

23 April 2009



Spouse Tour

22 April 2009



REAAA Australian Chapter Report

This report describes the activities of the Australian Chapter for the period from September 2008 to March 2009.

Australian Chapter activities

The Australian Chapter, in collaboration with the Western Australian Branch, hosted the REAAA Council meeting in October 2008. There was also a joint meeting of the REAAA Council with the Austroads Council and a very successful seminar to which all REAAA Australian Chapter members were invited. A technical tour was also arranged for REAAA Council members. Our thanks go to Main Roads WA and to the members of the WA branch of REAAA for their assistance and support in staging these events.

The Australian Chapter AGM and committee meeting were held in December, 2008. The meeting considered the Chairman's report and the accounts for the year ended 30 September 2008. Elections were conducted for the committee of the Australian Chapter. The office bearers and committee members are now as follows:

Chairman	: Gary Liddle (VicRoads)
Deputy Chairman	: Kieran Sharp (ARRB)
Secretary/Treasurer	: Murray Kidnie (Austroads)
Committee Members	: Ray Farrelly (CPEE) Brendan Marsh (MR WA) Chris Tatum (Maunsells WA) Tom Wilmot (Stabilised Pavements) George Vorobieff (Head to Head International) Christina Chin (ARRB) Bob Peters (MR WA) Gerard Waldron (ARRB)

Coordination of special REAAA edition of Routes Roads

Kieran Sharp from ARRB has been coordinating content from REAAA member countries for a special REAAA edition of the World Road Association journal Routes Roads.

Newsletters

Newsletters are produced by the Austroads national office on behalf of the Australian Chapter committee. The newsletters are emailed to members or mailed to the small number of members who do not have email addresses. They are also available on the Australian Chapter website. A newsletter was prepared and distributed in February 2009.

WA Branch

In November 2008 a breakfast was held with a presentation by the Chairman of the OECD Heavy Vehicle Working Group, Mr Jorgen Christensen, on international trends and innovations in freight transport.

The REAAA WA Branch held its Annual General Meeting on 18 March 2009. The following were elected:

Chairman – Phil Ladner

Deputy Chairman – Bob Peters

Secretary/Treasurer – Brendan Marsh

Ordinary Members – Paul James, Richard Jois, Peter Jordan, Sarkis Petrossian, Adam Sahb, Philippa Simpson-Bint, Chris Tatam, John White and Raph Woon.

The AGM was followed by a presentation on *Perth Airport – Vision for the future & what it means for the road network* by Guy Thompson – General Manager Integrated Planning, Westralia Airports Corporation and Rob Arnott – Senior Advisor Network Development, Main Roads Western Australia.

A breakfast session is planned for 3 April with Ms Sophie Tekie, Divisional Manager, Namibia Roads Authority, and member of World Road Association (PIARC) Technical Committee D.1, Management of Road Infrastructure Assets on the Namibian Road Industry and the work of the technical committee. The event coincides with PIARC Technical Committee and Australian Transport Forum meetings that will be held in Kalgoorlie earlier that week.

Membership of Australian Chapter

The Australian Chapter membership as at 31 March 2009 was as follows:

Honorary member	1
Life members	3
Individual members	128
Institutional members	10

BRUNEI CHAPTER REPORT

This report describes the activities of the Brunei Chapter for the period from December 2008 to March 2009.

List of Committee Members of Brunei Chapter and Executive Committee Meeting

REAAA (Brunei Chapter) held its 3rd Annual General Meeting on the 31st March 2009 and a new Executive Committee has been elected for the term 2009 to 2011. The list of the new Executive Committee Members of Brunei Chapter is as follows:-

The Brunei Chapter Committee:-

Chairman	: Haji Suhaimi bin Haji Gafar
Vice Chairman	: Yong Teck Chin
Honorary Secretary	: Kok Yuh Huh
Honorary Treasurer	: Rafitra bin Haji Abdul Razak
Committee Members	: Haji Ismail bin Haji Md Jaafar Yee Kok On Haji Mazlan bin Haji Salim Pengiran Haledi bin Pengiran Haji Aliuddin Rosmawati binti Haji Emran

Executive Committee Meetings will be held twice annually and the first such meeting of the new Executive Committee is scheduled to be held in the middle of this year.

Membership as at 31st March 2009

The membership strength as at 31st March 2009 stood at 65.

Individual members	65
Institutional member	1

Activities of REAAA (Brunei Chapter)

The 86th Meeting of the Governing Council was held in November 2008 in Perth, Australia. Brunei Darussalam was not able to send any delegates for the meeting due to some avoidable circumstances.

In the 3rd Annual General Meeting, there were discussions on holding various activities by REAAA (Brunei Chapter) from technical seminars and presentations to sports events. It is hoped that few such events can be held this year.

NEW ZEALAND CHAPTER REPORT

Chairman's introduction

This report describes the activities of the New Zealand chapter for the period from 1 October 2008 to 31 March 2009.

Chapter Committee Members

The New Zealand Chapter committee:

Chairperson	: Richard Steel
Treasurer	: Brendan Bisley
Secretary	: Lisa Pallister
Committee Members	: Janice Brass Ewan Hunter Bill Caradus Tony Brennand Chris Scott Peter Mortimer Rob Napier Chris Olsen Chris Parkman Allan Tuck

Membership count as at 31 March 2009

Institutional Members – 8

Corporate Members – 9

(equivalent to ½ an institutional member)

Ordinary Members – 77

Committee meetings held between 1 October 2008 and 31 March 2009

The NZ Chapter Committee meetings have been held on:

- 9 October 2008
- 14 November 2008
- 11 December 2008
- 5 March 2009

Activities carried out between October to March 2008

- Continued upgrading of the redesigned chapter's website including a searchable membership database.
- The spring/summer newsletter was published in December 2008.

Future Activities

- Continued upgrading of the redesigned chapter's website, including a searchable membership database and a conference paper database.
- Regional breakfast meeting to be held at a venue in the North Island.
- Annual General Meeting to be held 30 April 2009 in Wellington.
- Low Volume Roads Workshop to be held in Napier on 22 – 24 July 2009.
- Annual roadshow to be held in Auckland on 12th August, Taupo on 13th August, Wellington on 14th August, Dunedin on 17th August and Christchurch on 18th August.

REAAA KOREAN CHAPTER

This report describes the activities of REAAA Korean Chapter for the period from October 2008 to February 2009.

Membership

The total number of membership as of 28 February 2009 is 119.

- Ordinary members : 87
- Life members : 17
- Institutional members : 15

Meetings

The third Executive Committee Meeting of 2008 was held on 19 December 2008 and the followings were discussed.

- Report on the results of the 86th Council Meeting
- Plans for attending the 87th Council Meetings
- Preparation for the 13th REAAA Conference in 2009

13th REAAA Conference

- Development of the conference website has been completed.
- Conference program was finalized.
- As of 31 March 2009, a total of 314 paper abstracts from 17 countries were submitted to the Organizing Committee, and accepted through screening by the technical committee of the Organizing Committee.
- Official invitation letters were sent to the ministers of 30 countries who are in charge of road and transportation.
- Promotion for the Conference has been made through various ways such as email, sending leaflets and posters, promotion tours, etc.

PHILIPPINE CHAPTER REPORT

- Board Meetings held on December 15, 2008 & February 25, 2009 and the following activities:
- Report on 86th REAAA Council Meeting in Perth, Australia on October 21-23, 2008 attended by Undersecretary Bashir D. Rasuman, REAP Pres.
- Plans for attending the 87th REAAA Council Meeting in Bali, Indonesia on April 21-23, 2008
- Regional Technical Seminar and Launching of New Chapter- in Region III on February 25, 2009.
- Regional Technical Seminar & Induction of New Sets of Officers in Marawi & Lanao del Sur Chapter on March 3, 2009.
- Manila visit of Mr. Lieu Chullho, Chairman, Organizing Committee of 13th REAAA Conference & 3rd ROTREX, President, Korea Expressway Corporation, President, Korea Road & Transportation Association. Regarding support for the 13th REAAA Conference in September 23-26, 2009 Incheon, City, Korea on March 23, 2009 together with -
- Dr. Kyong soo YOO, REAAA President Mr. Myung-Gi KIM, Personal Secretary to Mr. Lieu
- Mr. Soo-Ryung LEE, Technical Team Leader, Organizing Committee

This report describes the activities of the Philippine Chapter for the period from October 2008 to March 2009.

New Members:

Life Member	8
Regular Member	2
Regular Member upgraded to Life	4

Membership count as of March/31/09:

Institutional	6
Life Members	55
Ordinary Members	124
Associate Members	2

Total:

187

Executive Committee Meetings were held and the following were discussed.

- Report on the results of the 86th Council Meeting held in Perth, Australia
- Review activities and consider future activities
- To increase membership
- Collection of overdue accounts
- To promote the 13th REAAA Conference, September 23-26, 2009, Incheon City, Korea

ROAD ENGINEERING ASSOCIATION OF MALAYSIA (REAM)

(Previously Known As REAAA Malaysian Chapter)

Report as at March 2009

- **Formation of PIARC National Committee (MNC)**

An application to the World Road Association for the establishment of MNC will be forwarded by mid 2009.

- **PIARC Meetings in Malaysia**

PIARC TC C.1 & C.2 meetings held in Kuala Lumpur from 20 to 24 October 2008 drew 24 and 21 members respectively. In conjunction with the meetings, a one-day Workshop on Safer Road Infrastructure was held which drew close to 400 participants. The foreign experts attending the PIARC meetings and local professionals facilitated the workshop.

The PIARC TC D.3 Meeting held from 28 to 30 October 2008 drew some 24 delegates.

- **8th Malaysian Road Conference (MRC) and Exhibition**

This premier road engineering event has been postponed to October 2010 due to clashing of other road related events in 2009 and the current global economic downturn.

- **Membership**

REAM membership currently stands at 707.

- **REAM overseas delegations**

The following delegations were approved by the Council for the year 2009:

- 4th Australian Road Engineering & Maintenance Conference 2009 in Melbourne, Australia from 17 to 18 February. The delegation was successfully executed.
- 7th Austroads Bridge Conference in Auckland, New Zealand from 26 to 29 May. The Committee is working on this delegation.

- 6th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control in Turin, Italy from 8 to 10 July

- 3rd International Conference on Asphalt Materials in Shandong, China from 7 to 8 August

- 13th REAAA Conference and General Meeting in Incheon, Korea from 23 to 26 September

- **REAM local seminars**

During the period under review, the following seminars and training programmes received overwhelming support from the industry:

- Road Safety Audit Training Programme
- Seminar on Road Safety Audit & Traffic Management during Construction
- Seminar on Soil Subgrade Stabilisation
- Seminar on Soil improvement Techniques for Highways
- Seminar on Bridge Maintenance and Rehabilitation
- Seminar on Guidelines for Road Drainage Design

There are number of other seminars relating to pavement, transport modeling and road safety of primary interest to the industry which are in various stages of planning.

- **Technical publications**

REAM currently has 18 technical guidelines on sale at cost to members and the industry. Work by volunteers is continuing for the publication of guidelines on various other aspects.

DR. SAFRY KAMAL AHMAD RECEIVES ROYAL AWARD

The Honorary Secretary General of REAAA, Dr. Safry Kamal Ahmad was conferred with the Darjah Dato' Paduka Mahkota Perak (D.P.M.P) which carries the title Dato' by Duli Yang Maha Mulia Sultan Perak on the occasion of his Royal Highness's 81st birthday on 19 April 2009.

Dato' Dr. Safry Kamal Ahmad is the Director of Public Works Department, Perak Darul Ridzwan. He was elected to the Council Members of REAAA at the 12th General Meeting in November 2006.

Dr. Safry Kamal Ahmad receives Royal Award



HONORARY MEMBERSHIP

Tan Sri Dato` Ir. (Dr) Wan A. Rahman Yaacob has been elected an Honorary Member in accordance with REAAA Constitution Article VI (a).

The Governing Council at its 87th Meeting in Bali on April 22, 2009 approved the citation, certificate and plaque for Tan Sri Dato` Ir. (Dr) Wan A. Rahman Yaacob

Two others, Prof. Ian R. Johnston and Dr. John Metcalf from Australia had also been elected Honorary Members last year. The Governing Council at its 86th Meeting in October 2008 in Perth approved the citations, certificates and plaques for them.

The presentation of the Honorary Membership will be held in conjunction with the 13th REAAA Conference in September 2009 in Incheon City, Korea.



Prof. Ian Johnston



Dr. John Metcalf



Tan Sri Dato` Ir. (Dr)
Wan A. Rahman
Yaacob

(continue from page 8)

In this Compendium on Disaster Risk Management, a summary is presented of the activities conducted to scope the contents of the Compendium and how natural disasters, and their effects on the road infrastructure, are managed in member countries. Some case studies have also been included.

A review of the countries represented in this Compendium – including location, geographic coordinates, land area, climate, terrain, natural hazards, administrative divisions, population and road length – revealed that:

- land areas vary from less than 700 km² (Singapore) to about 7,600,000 km² (Australia)
- geographic coordinates vary from 36°-37° north (Japan and Korea) to 41° south (New Zealand) and from 81° east (Sri Lanka) to 174° east (New Zealand)
- the population varies from about 390,000 (Brunei) to about 240,000,000 (Indonesia)
- government type varies from constitutional monarchy, republic and constitutional sultanate
- the number of administrative divisions ranges from none (Singapore) to 76 provinces (Thailand) and 80 provinces and 120 chartered cities (Philippines)
- the climate varies from arid to semi-arid, temperate, sub-tropical, tropical and even sub-arctic
- the terrain varies from coastal plains, deserts, fertile plains and mountainous; sometimes, all of these features pertain to a single country
- road length varies from about 3,500 km (Brunei, Singapore) to 800,000 km (Australia) and 1,200,000 km (Japan); the proportion of unsealed roads varies from 0% (Singapore) to about 90% (Philippines) and 95% (Papua New Guinea)
- natural hazards include land subsidence, droughts, bushfires, cyclones/typhoons, landslides/mudslides, volcanic eruptions, earthquakes, tsunamis, flooding and avalanches.

From a socio-economic point of view, the population of some countries is increasing rapidly. There has been rapid economic growth (recently tempered by the world economic recession) and, in many cases, a large increase in urbanization. The need to provide new roads is a high priority in developing countries in the region whilst, in the developed countries, the emphasis is on managing urban congestion and maintaining the existing assets.

REAAA NEW MEMBERS

The membership strength as at 31 March 2009 stood at 1,670. The REAAA Council and Chapters have approved 45 new members for the period from 1 October 2008 to 31 March 2009.

Institutional	5
Life	16
Ordinary	24
Total	45

The list of members approved by the 87th Council Meeting on 22 April 2009

Institutional Members

1. Wirtgen (M) Sdn Bhd	REAM
2. Hyundai Engineering & Construction	Korea
3. Seoyeong Engineering Co. Ltd	Korea
4. Daewood E & C	Korea
5. Southland District Council	New Zealand

Life Members

1. Rejano, Rogelio P	Philippines
2. Kim Nak Joo	Korea
3. Hwang Kwang Ung	Korea
4. Ung Se, Lee	Korea
5. Noh Kwan Sub	Korea
6. Teresita F Santos	Philippines
7. Mocamad M. Raki-in Sr.	Philippines
8. Romeo S. Momo	Philippines
9. Alquiza, Mariano R	Philippines
10. Canlas, Ador G	Philippines
11. Cabral, Maria Catalina E	Philippines
12. Manalo, Efren C	Philippines
13. Ocampo, Marcelina N	Philippines
14. Castillo, Theodore	Philippines
15. Twano, Angelito D.M	Philippines
16. Emma A. Banatao	Philippines

Ordinary Members

1. Mohd Farid bin Ahmad @ Majid (Ir. Dr)	REAM
2. Mohd Azlan Fairuz bin Abdul Rauf	REAM
3. Loi Yew Hua (Ir)	REAM
4. Ramu Andy (Ir)	REAM
5. Suhairi bin Misian	REAM
6. Abdul Aziz bin Chik (Dr)	REAM
7. Ng Seok Tee	REAM
8. Haji Badaruddin bin Yusoff (Ir)	REAM
9. Yoo Duk Hee	Korea
10. Chang Weon Ho	Korea

11. Kim Kee Moon	Korea
12. Park Kyung Hwan	Korea
13. Song Min	Korea
14. Kim Je Bang	Korea
15. Mike Rathbone	Australia
16. Matt Elischer	Australia
17. Steve Eklington	New Zealand
18. Olexiy Kurlov	New Zealand
19. Greg Seed	New Zealand
20. Sumanda, Ansari L	Philippines
21. Lininding, Fahad M	Philippines
22. Richard Delplace	Australia
23. Murray Crocker	Australia
24. Andrew Dedman	Australia

Associate Members

1. Abu Hassan bin Abdullah	REAM
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Members Resigned / Lost Contact / Deceased

Institutional Members

1. Mecomb Malaysia Sdn Bhd	REAM
2. IGC-Industrial Galvanizers Corporation (M) Sdn Bhd	REAM
3. Jurutera Konsultant (SEM) Sdn Bhd	REAM

Ordinary Members

1. Ow Peng Ghee, Phillip	REAM
2. Peter Waugh	Australia
3. Hsiung Ku I	Taiwan
4. Wang Hsiung Liu	Taiwan
5. Geoff Percival	Australia
6. Abu Bakar bin Mohd Amin (Dalo' Ir)	REAM
7. Chua Hock Chin (Dato' Sri Dr.)	REAM
8. Tan Huat Sheng	REAM
9. Ooi Boon Keng	REAM
10. A. Narayanan (Dato')	REAM
11. Sim Teck How	REAM

Life Member

1. Hj Ibrahim bin Yaakub (Dato' Ir)	REAM
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Status Changed from Ordinary to Life

1. Rejano, Rogelio P	Philippines
2. Kim Nak Joo	Korea
3. Hwang Kwang Ung	Korea
4. Ung Se, Lee	Korea
5. Teresita F Santos	Philippines
6. Mocamad M. Raki-in Sr.	Philippines
7. Romeo S. Momo	Philippines

APPLICATION FOR ADMISSION AS MEMBER (For Life, Ordinary or Associate Member)

Instruction to Applicant

1. Please fill in all particulars requested.
2. Applicant must state the grade of membership he is applying for
3. This form must be submitted together with the necessary Entrance and Annual Subscription fees.
4. Please deletes whichever is not applicable.

A. PERSONAL PARTICULARS

1. Name in Full _____ Surname _____ Given Name _____
 2. Address _____ 3. Phone _____
 4. Fax _____ 5. Email _____
 6. Place of Birth _____
 7. Date of Birth _____
 8. Nationality _____
 Country _____ Postcode _____

B(i). STATEMENT BY PROPOSER*

1. Having known the applicant for _____ years, I recommend him, from personal knowledge, as in every respect worthy of the distinction of being admitted as a member of REAAA.
 2. Name of Proposer _____
 Grade: Life / Ordinary / Associate Membership No. _____
 3. Address _____
 4. Signature _____ Date _____

B(ii). STATEMENT BY PROPOSER*

1. Having known the applicant for _____ years, I recommend him, from personal knowledge, as in every respect worthy of the distinction of being admitted as a member of REAAA.
 2. Name of Proposer _____
 Grade: Life / Ordinary / Associate Membership No. _____
 3. Address _____
 4. Signature _____ Date _____

* Each applicant must have 2 (two) proposers.

C. EDUCATION

1. General Education
 Secondary Schools (Name & Place) _____ Examination passed & Grade awarded _____ Date _____
 2. Technical / Scientific Education
 Colleges / Universities (Name & Place) _____ Awards-Degrees indicating division of Engineering or discipline of study _____ Date _____

D. CAREER (State title of position, responsibility with brief details of nature of work)

Position _____ Responsibility / Nature of Work _____ Date _____

E. MEMBERSHIP IN OTHER SOCIETIES / PROFESSIONAL INSTITUTIONS

F. PRESENT POSITION

1. Name of Employer _____
 2. Address of Employer _____
 3. Title of Position _____ Date of Appointment _____
 4. Responsibility / Nature of work _____

G. GRADE OF MEMBERSHIP APPLIED FOR

Life Ordinary Associate *(Please tick)*

H. UNDERTAKING TO BE SIGNED BY APPLICANT

I, the undersigned confirm that the information given in this application form is the best of my knowledge correct and that in the event of my admission as Life, Ordinary or Associate Member, I will be governed by the proposed Constitution of the Association as they are now formed or they may hereafter be altered.

Signature _____ Date _____

I. PAYMENT

I, hereby authorise / enclose my payment of RM _____ for the entrance fee and annual subscription.

Cheque / Bank Draft / Postal Order No. _____
 Payment by Credit Card Amex MasterCard Visa
(Tick whichever is applicable)

Credit Card No. _____

Expiry Date: _____ Month _____ Year _____

Standing Order Instruction (Applicable to MasterCard and Visa only)

Yes No

I confirm the above information provided in this standing instruction is correct and true. In the event of any changes or cancellation of the instruction above, I shall keep REAAA informed in writing or by giving fresh standing instruction.

Signature _____ Date _____

MEMBERSHIP FEES (REAAA Constitution-Schedule A)

Entrance Fees	Annual Subscriptions
Ordinary & Associate Members RM42.00 or Equivalent US\$ Members	Ordinary & Associate Members RM42.00 or Equivalent US\$
Institutional Members RM1000.00 or Equivalent US\$ Members	Institutional Members RM1000.00 or Equivalent US\$

Life Members

The membership fee shall be the Ordinary member's annual subscription (determined at the time of application to become a Life member) times; 55 minus the age of the applicant in whole year at the time of applying for the life membership.

Send your application form to REAAA Secretariat.

46B, Jalan Bola Tampar 13/14, Section 13, 40100 Shah Alam, Selangor Darul Ehsan, Malaysia.

Please fax to +603-5513 6390 or e-mail to reaaa@po.jaring.my and reaaa.ila@gmail.com.

FORTHCOMING CONFERENCES

October 2009

13-14 International Workshop on Public-Private Partnerships in the Road Sector 

Venue Osaka International Convention Center Osaka, Japan
 Email piarc2009-osaka-workshop@hanshin-exp.co.jp
 Website http://www.hanshin-exp.co.jp/iwppp2009/index_en.html

November 2009

16-19 The 3rd CONEXPO Asia Exhibition

Venue Guangzhou, China
 Contact The Organisers
 Tel +1 414 298 4141
 Fax +1 414 272 2672
 Email info@conexpoasia.com
 Website www.conexpoasia.com

December 2009

1-4 Con-Build Vietnam

Venue Ho Chi Minh City, Vietnam
 Contact MMI-Munich International Trade Fairs
 Tel +65 6236 0988
 Fax +65 6236 1966
 Email info@conbuild-vietnam.com
 Website www.mmiasia.com

6-8 Gulf Traffic

Venue Dubai International Exhibition Centre, UAE
 Organiser Institute fir International Research (IIR), Middle East
 Tel +971 4 336 5161
 Fax +971 4 335 3526
 Email alexandrea.jones@iirme.com
 Website www.gulftraffic.com

February 2010

8-11 XIIIth International Winter Road Congress


Venue Quebec, Canada
 Organisers AIPCR-PIARC
 Email quebec2010@mtq.gouv.qc.ca

March 2010


23-26 Intertraffic Amsterdam

Venue Amsterdam
 Organiser Amsterdam Rai
 Tel +31 20 549 12 12
 Fax +31 20 549 18 89
 Email intertraffic@rai.nl
 Website www.intertraffic.com

April 2010

5-6 90th Meeting of the REAAA Governing Council 

Venue KL Hilton, Kuala Lumpur, Malaysia
 Contact REAAA Secretariat
 Tel +60 3 5513 6380
 Fax +60 3 5513 6390
 Email reaaa@streamyx.com; reaaa@po.jaring.my
 Website www.reaaa.net

5-6 PLUS INTERNATIONAL EXPRESSWAY CONFERENCE AND EXHIBITION 2010 (PIECE 2010) 

Venue KL Hilton, Kuala Lumpur, Malaysia
 Organiser Urban- Forum
 Website www.piece2010.com

August 2010

1-6 The 11th International Conference on Asphalt Pavements 

Venue Nagoya, Japan
 Organisers Japan Road Association, International Society for Asphalt Pavements
 Fax +81 3 3581 2232
 Email info@isap2010.jp

October 2010

10-13 8th Malaysian Road Conference (MRC) 2009 

Venue Sunway Pyramid Convention Centre, Malaysia
 Organisers REAM
 Contact REAM Secretariat
 Tel +60 3 5513 6521
 Fax +60 3 5513 6523
 Email ream@po.jaring.my
 Website www.ream.org.my

10-12 2nd International Sprayed Sealing Conference 

Venue Melbourne, October 2010
 Website www.arrb.com.au/conferences

12-15 24th ARRB Conference

Venue Melbourne, Australia
 Website www.arrb.com.au/conferences

REAAA NEWSLETTER & JOURNAL ANNOUNCEMENT

The Membership Promotions Committee welcomes contribution of articles and cordially invites advertisements from potential advertisers to complement each issue of the Newsletter and Journal.

Members of organisations wishing to have new items; appointments; notifications; announcements on forthcoming conferences or seminars; new publication, etc to be published in the Newsletter are kindly requested to forward them to the Secretariat in early March for the June issue and early September for the December issue.

Both the Newsletter and Journal publications reach 2,000 engineers, professionals and decision makers in the industry! The advertisement rates are:



Newsletter (printed in four colours)

Full page - RM1, 500 (US\$400). Half page - RM750 (US\$200)

Journal (printed in four colours)

Full page – RM1, 500 (US\$400) . Half page – RM750 (US\$200)

For more information, please liaise with the REAAA Secretariat at
 tel: +60 3 5513 6380, fax: +60 3 5513 6390, email: reaaa@po.jaring.my



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