

The First Ten Years

East Asia Round Table Meeting
of Academies of Engineering
(EA-RTM)

The First Ten Years

**East Asia Round Table Meeting
of Academies of Engineering**

(EA-RTM)



NAEK

**The Chinese Academy of Engineering
The Engineering Academy of Japan
The National Academy of Engineering of Korea**

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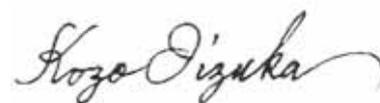
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Introduction

The Engineering Academy of Japan (EAJ) is delighted to host the 10th East Asia Round Table Meeting (EA-RTM) and to publish this brochure on this commemorative occasion. The brochure summarizes the record of the past RTM meetings and joint activities of three academies in East Asia, i.e. the Chinese Academy of Engineering (CAE), the National Academy of Engineering of Korea (NAEK) and EAJ. As is shown in the Milestone in the brochure, the tri-lateral round table meeting of three academies (RTM) was launched in 1997. Then the meetings have been hosted annually by rotation of three Academies and, in 2003, the name was changed to East Asia Round Table Meeting (EA-RTM) as the result of the agreement on Bylaws. In the same year, new activities on specific topics were initiated by forming Task Forces. By looking back the past collaborations, we are pleased to recognize the development of mutual understanding between three Academies and the involvement of some individual experts in neighboring countries. The increased recognition of EA-RTM led us to propose the publication of this brochure with the cooperation of three Academies to preserve the history of development in the past ten years.

At the same time, we wished to include honorable messages from the President of CAETS (International Council of Academies of Engineering and Technological Sciences) as well as past and present Presidents of three Academies. We are very much thankful for their congratulatory addresses sent for this brochure in a hurried schedule. In fact, the contents of the brochure were planned by Dr. Hiroshi Suzuki of EAJ with the support of Ms. Miyuki Tanaka in the EAJ secretariat and I thank them for their efforts for preparing and editing the record of past meetings. Also, the support and cooperation of the secretariats of CAE and NAEK must be specially noted because they kindly made search of necessary materials and photographs to be published. As the Chair of the Organizing Committee and also on behalf of the EAJ, I would like to express my sincere thanks to the above distinguished contributors and Academy Secretariats.

In conclusion, I do hope the EA-RTM will take a new step towards further development on the past achievements.



Kozo Iizuka
Chair of the Organizing Committee of the 10th EA-RTM

Address of the CAETS President



Prof. Achiel van Cauwenberghe
President of International Council of Academies of
Engineering and Technological Sciences (CAETS)

Due to technological development and continuous innovation the world is increasingly growing smaller. The whole development process of the human society is going on at an ever increasing global pace and scale. Benefits, risks and hazards of the implementation of new innovative technologies have to be coped with. The interaction of innovation and our institutions needs further study. Particularly the problem to maintain and develop our state of welfare and well-being in a sustainable way into the future is of premium importance.

However, the evolution of technology and particular its impact on society is not the same all over the world. The effects of culture, existing institutions and the economic scene are considerable and may differentiate the influence of innovation and technology on our society. Therefore, it is worthwhile to evaluate these effects not only on a global scale but also on a regional one. Indeed, for certain regions with strong interactions among countries, many features may be similar or easily comparable and opportunities for optimization may exist.

CAETS encourages such regional discussions and is happy that problems of innovation, technological development and sustainability are the subject of regional conferences organized by its member Academies of Engineering. Indeed, engineering will play a very important role in the future evolution of our society. Therefore we congratulate the Academies of Japan, China and Korea with the initiative to associate a symposium on such problems of common regional interest to their tenth Round Table Meeting. We hope that this East Asia Round Table Meeting of Academies of Engineering and its associated Symposium on “Institutional Innovation in East Asia” will raise much interest in this fast rising region of the world and that it will advance interaction, cooperation and growing awareness of problems of common interest.

2. On the Occasion of the 10th Anniversary

On the Occasion of the 10th Anniversary



Dr. Tsuneo Nakahara
President of the Engineering Academy of Japan

It is a great honor and a privilege for me to have this opportunity to express my hearty congratulations to all the people involved in for the 10 years Anniversary of the East Asia Round Table Meeting of Academies of Engineering.

One of the most significant natures for the member academy of the CAETS (International Council of Academies of Engineering and Technological Sciences) as well as EA-RTM will be that the member is only one academy of engineering and technological sciences per country and nevertheless the member does not belong to the government of that country. Therefore, the activity of the member shall have nonpolitical and non-governmental international character. In other words, our mission is to foster effective engineering and technological progress for the benefit of societies of all countries. This is very important when we discuss global issues for human being such as environment and sustainable growth. Also this is very convenient for the member to discuss about global economy or global standard apart from current interest of government.

When we look back the 10 years history of EA-RTM activities, we may confirm the past performance was just on the above line. The achievements of EA-RTM so far are very much appreciated such as global ethics, innovation and management of technology. Thus we marked a decade of history in East Asia within the history of the whole CAETS of 28 years around the world. This is really a great fact.

I personally attended three meetings so far, the first, fourth, and the seventh, namely, only the RTM meetings held in Japan. The most interesting meeting for me was the fourth meeting held in Awaji Yumebutai International Conference Center in Awaji Island on Inland Sea. There were hot and candid discussions about the qualification systems for engineers and operators of manufacturers in each country.

Now we are going to have a new decade or a new quarter century of global engineering academies. I think that it will be the time to consider the evolution and the enlargement of the members in order to contribute to the mission of the CAETS as well as the local operation of Asia Pacific Region. I hope our regional activities will promote the further success of the mission, goal and strategy of the CAETS.

2. On the Occasion of the 10th Anniversary

Congratulatory Message at the 10th Anniversary of the EA-RTM



Prof. Kuangdi Xu
President of the Chinese Academy of Engineering

I would like to, on behalf of the Chinese Academy of Engineering, extend my warm congratulation to the 10th anniversary of the East Asia Roundtable Meeting of Academies of Engineering (EA-RTM)!

To our great pleasure, this regional cooperation in engineering has been getting more and more mature. Through this mechanism, the academies of engineering of China, Japan and Korea are better positioned to achieve their respective goals through adequate exchange and best practice sharing in fields of common interests. Besides, the declaration of the consensus reached through this mechanism also helps expand influence of the meeting participants and gives an impetus to development of engineering research institutes in the neighboring countries. This may be partially justified by the EA-RTM Bylaws and the Declaration on Engineering Ethics.

The latest development of engineering is characterized by the increasing globalization. Cross-border cooperation is playing a more and more important role in sci-tech development. The EA-RTM plays a model role in promoting equal-footing and mutual-benefit cooperation between the engineering communities of different nations, especially in regional cooperation. This arrangement just brings closer relationship and opens up more opportunities of cooperation in the engineering areas.

In the new century, the socio-economic development poses new requirements for engineering and brings along new challenges for cooperation in the engineering fields. Only by understanding these challenges, coming out with efficient resolutions and taking decisive actions through adequate communication and exchanges could we well address them and make our cooperation more successful.

I am looking forward to the further development of EA-RTM as well as its larger contribution to development of engineering technologies, regionally and worldwide!

2. On the Occasion of the 10th Anniversary

On Occasion of the 10th Anniversary



Mr. Jong Yong Yun
President of the National Academy of Engineering of Korea

China, Japan and Korea have shared a long history as neighbors with similar cultures. Moreover, our three Engineering Academies have been working together to advance engineering and the technological sciences for the past decade. On this 10th anniversary of the East Asia Round Table Meeting, I would like to point out two factors that can enhance the long term development of each academy and promote multilateral cooperation in Asia.

First, the role of an engineering academy should be overhauled. We need to take greater advantage of our members' expertises so that our academies can contribute more through the advancement of engineering and technological sciences.

We marked NAEK's 10th Anniversary last year by establishing four new committees (Future; Engineering Education; Energy; and National R&D Projects). Each committee is helping to extend our advisory role in national policy making. Each division in our Academy is striving to make the best use of its members' rich knowledge and experiences. The divisions are asked to identify their key technical achievements and their future prospects for technology commercialization, economic impact, and technology potential each year. These projects help to motivate engineers, to increase public awareness, and to assist in government policy making.

Second, now is the time to extend and strengthen the East Asia Round Table Meeting network to promote sustainable economic growth and social welfare throughout the region. We share common concerns such as energy and environment, engineering ethics, and technology innovation. Joint international efforts are urged for the development of bilateral and multilateral interests. We should organize task forces to promote discussions among our memberships on embracing ASEAN countries over the long term.

Finally, I would like to thank everyone who has helped to lead the East Asia Round Table Meeting in the past, and those who organize this year's 10th anniversary event.

2. On the Occasion of the 10th Anniversary

The memory of starting the Round Table Discussion among Engineering Academies of Japan, China and Korea



Prof. Sogo Okamura
Executive Advisor of the Engineering Academy of Japan

The first meeting of the Round Table Discussion among the Engineering Academy of Japan (EAJ), the Chinese Academy of Engineering (CAE) and the National Academy of Engineering of Korea (NAEK) was held in Osaka on 12 and 13 November 1997.

The subject of this meeting was decided upon “On the Roles of Non-Governmental Engineering Academies.” In order to make discussion more lively, a keynote speech by a suitable person was expected. Dr Hiroshi Sakurai, Executive Director of EAJ did his best to find the best person, and asked Prof. Kurt Östlund, President of the Royal Swedish Academy of Engineering Sciences (IVA). Fortunately, he accepted and made a very good speech on the first day, before the Round Table Discussion.

Then CAE, NAEK and EAJ reported their current activities. I found every academy gave priority to the problem of engineering education. I think this meeting could give us a very good chance to know each other.

The second meeting was held in Hangzhou, China on 18 and 19 November 1998. Prof. Jun-ichi Nishizawa, Dr Hiroshi Suzuki and I attended from Japan. In this meeting, in addition to the three academies of EAJ, CAE and NAEK, representatives from Mongolia and Hong Kong were invited. The lecture meeting was held at Zhejiang University, and I had a chance to visit the University. I got an impression that the University was trying an adventurous undertaking in university-industry collaboration.

I only attended the first two meetings of the Round Table Discussion among EAJ, CAE and NAEK. I feel very happy to know that this meeting seems to obtain good fruits.

2. On the Occasion of the 10th Anniversary

On the Occasion of the 10th Anniversary of the EA-RTM



Prof. Jian Song
Honorary Chairman of the Governing Board of the Chinese Academy of Engineering

Please accept my heartfelt congratulation to the 10th anniversary of the East Asia Roundtable Meeting of Academies of Engineering (EA-RTM)!

It is the Mother Nature that makes us close neighbors and the history that links us. Developing good neighborhood, realizing equality and mutual benefits, rendering assistance each other, and achieving common development, are the shared expectations of all the nations in today's world. In the engineering technology area where Japan, Korea and China each have their unique strengths, experience, expertise and resource sharing may be implemented to benefit everyone in the three nations. It is just this natural and historical origin as well as the actual needs that bring together the engineering technology communities in the three countries, and this Roundtable just opens up the opportunity for us to learn from counterparts in Japan and Korea.

In the tide of economic globalization and accelerating sci-tech development, expertise sharing and common thinking to promote cooperation and development of engineering technology in East Asia Region will benefit all stakeholders. This just coincides with the long-term philosophy of China's sci-tech circles - Cooperation on equal footing for mutual benefits.

It is my firm belief that EA-RTM will be more successful in the next decade and in the far future!

2. On the Occasion of the 10th Anniversary

Congratulatory Message



Prof. Ki Jun Lee
**Honorary President of the National Academy of Engineering
of Korea**

Many people deserve our gratitude for making the East Asia Round Table Meeting so successful. My sincere appreciation goes to the past presidents, Dr. Jun-ichi Nishizawa and Dr. Song Jian. We have engineered to foster cooperation and networking among our three countries. Happily celebrating the 10th anniversary of the East Asia Round Table Meeting, I would like to extend a special thanks to the Academy President Dr. Tsuneo Nakahara, Dr. Xu Kuangdi, and Mr. Jong Yong Yun as well as the entire Task Force Team members who have made this event possible.

During the past decade, we have seen remarkable wealth creation. East Asia overall represents 23% of the world's population, 18% of the GDP, and 17% of total trade. On September 14, 2006, the IMF released a report on the world economic outlook. It predicts that Asia's economy will grow 8.3% this year, while that for the overall world is just 4.9%. These figures underscore the role Asia now plays in the world economy. Engineers stand behind this remarkable performance. This economic growth is mainly driven by such industries as automobiles, electronics, semiconductors and shipbuilding.

The collaboration among our academies seems to be more noticeable than ever. The topics we have discussed include the roles of engineers and engineering academies, engineering education, engineers' ethics, sustainable growth, energy issues and so forth. Although the outcomes of those activities are hard to measure, I am confident that we have led to positive network in engineering practices and cultural exchanges.

Globalization and fusion have become emerging trends of the engineering and technological environment. In this regard, I hope that our academies should continue to make joint endeavors to extend regional cooperation and to cultivate common cultures through the East Asia Round Table Meeting.

2. On the Occasion of the 10th Anniversary

Congratulations on the 10th anniversary of EA-RTM



Prof. Jun-ichi Nishizawa
President-elect of CAETS
President Emeritus of the Engineering Academy of Japan

I congratulate on the 10 years of meaningful activities of East Asia Round Table Meeting of Academies of Engineering.

As the president-elect of CAETS, I hope that this kind of regional activities will be intensified further closely connecting with CAETS activities. In Europe, there exists a similar organization of EURO-CASE. In consideration of the current CAETS efforts for enhancing the CAETS's recognition and influence in the world through cooperation with international organizations, those regional activities would be getting more important.

As the former president of EAJ, I feel deeply about this 10th anniversary of RTM because I attended 6 out of the past 9 meetings. In the 6th RTM in Seoul, the presidents of three academies get-together for the first time and had a President Meeting. This President Meeting continued till the 8th RTM in Suzhou, where three academies signed the "Declaration on Engineering Ethics" with attachment of "Asian Engineers' Guideline of Ethics." This was the most impressive event for me. In the 7th RTM, the first Task Force report "Better Engineers, Better Professionals" was presented by the three academies. The idea of establishment of Task Force was proposed at the previous meeting in Seoul as our common target among the three academies and fulfilled in Tokyo.

As I always say, the kanji character "工/ Engineering" consists of two horizontal lines of heaven (nature/natural phenomena including resources), earth (humankind and society) and a vertical line interconnecting the two. It goes without saying that Engineering shall play an increasingly important role in the future not only to address global issues like environment, energy, food and disease but also to sustain the security and the health of our human beings. I hope that the East Asia could take the initiative in promoting global cooperation to tackle those issues.

I thank you very much for all the people who have supported this activities and wish our RTM will expand forever involving many Asian countries.

2. On the Occasion of the 10th Anniversary

On the Occasion of the 10th Anniversary of the EA-RTM



Prof. Gaofeng Zhu

Former Vice President of the Chinese Academy of Engineering

The year of 2006 marks the 10th anniversary of the East Asia Roundtable Meeting of Academies of Engineering (EA-RTM). I would like to take this occasion to extend my heartfelt congratulation to this regional cooperation mechanism!

Still having a fresh memory of my participation in the first discussion in 1997 on establishing a cooperative mechanism in engineering technology in East Asia Region, I am very pleased to see that this cooperation arrangement has got fledged and maintained on track through the participants' concerted efforts over the past decade.

So far, EA-RTM has been a good platform for the engineering technology communities in Japan, Korea, China and other East Asian countries to exchange visions on hot topics, empower the high potentials and promote cross-border cooperation. Besides, it has played the advocator role in the establishment of academies of engineering in East Asia/Southeast Asia nations.

It is my sincere wish that EA-RTM would play a more important role in supporting government decisions, increasing the public's understanding of engineering technology and promoting the regional cooperation in engineering fields.

1. On the Occasion of the 10th Anniversary

Long Live EA-RTM



Prof. Jang Gyu Lee

Former Foreign Secretary of the National Academy of Engineering of Korea

I am happy to see that the East Asia Round Table Meeting (EA-RTM) between the Chinese Academy of Engineering (CAE), the Engineering Academy of Japan (EAJ), and the National Academy of Engineering of Korea (NAEK) has its 10th meeting in Tokyo. I vividly recall that the first meeting was held in Osaka nine years ago. NAEK as a fresh organization since inaugurated in 1995 happily attended the well hosted meeting by EAJ. Since then, the considerate, professional, first class round table meeting became a tradition of EA-RTM.

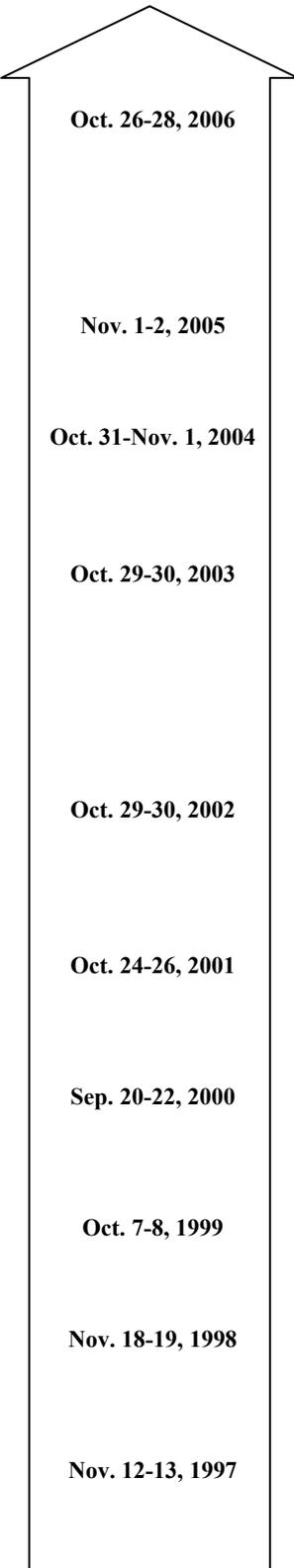
EA-RTM has accomplished many things during the past nine years. As a group of national engineering representatives, it has contributed to bridging a close relationship among the engineers in China, Japan, and Korea. It has formed a supportive atmosphere from the beginning. EAJ and CAE showed a strong support for NAEK to become the 23rd member of the Council of Academies of Engineering and Technological Sciences, Incorporated (CAETS) in October 2000. EA-RTM has also made efforts to promote the status of the engineers in the East-Asia region. A good example is that the Declaration of Engineering Ethics with the Asian Engineers' Guideline of Ethics was signed by the three presidents of CAE, EAJ, and NAEK in the 8th EA-RTM in Suzhou in 2004.

I hope EA-RTM continues its leading role for engineers in East-Asia region to cherish the Asian cultural heritage of harmonious living with neighboring people and nature. Many engineers met in the U.S. during my last sabbatical leave told me that the leading role in engineering has begun to move from the U.S. to East-Asia, especially Japan, Korea, and China. We should not be too much bragging about it. But there is no doubt that the technology and industry will continuously progress in our region, which calls for our continuous attention for the regional engineering societies to move into a right direction. We need technologies benefiting everyone including the under-privileged, not just for the wealth of the nation.

If EA-RTM had focused on the progress of engineering and industries during the first 10 years, it is the time to contemplate on a desirable direction of the progress. And we need to work together to pave the path. Long Live EA-RTM!

3. Milestone

Milestone



Oct. 26-28, 2006	The 10th EA-RTM in Tokyo, Japan "Institutional Innovation in East Asia - Resonating Dynamism between Technological Innovation and Institutional Systems -" Issue of "The first Ten Years (EA-RTM)"	
Nov. 1-2, 2005	The 9th EA-RTM in Seoul, Korea "New and Renewable Energy"	
Oct. 31-Nov. 1, 2004	The 8th EA-RTM in Suzhou, China "Engineering Technology and Sustainable Development" "Declaration on Engineering Ethics"	(Appendix 2)
Oct. 29-30, 2003	The 7th EA-RTM in Tokyo, Japan "Better Engineers, Better Professionals" Issue of the 1st Task Force Report "Better Engineers, Better Professionals" Establishment of Bylaws Name change to EA-RTM	(Appendix 1) (Appendix 3)
Oct. 29-30, 2002	The 6th RTM in Seoul, Korea "Role and Status of Engineers in the Society" Inauguration of RTM Task Force	
Oct. 24-26, 2001	The 5th RTM in Chongqing, China "Engineer Professional Accreditation and Engineering Education"	
Sep. 20-22, 2000	The 4th RTM in Awaji, Japan "IT and Engineering Education based on Our Common Culture"	
Oct. 7-8, 1999	The 3rd RTM in Seoul, Korea "Role of Engineers in Environmental Conservation"	
Nov. 18-19, 1998	The 2nd RTM in Hangzhou, China "The Asian Financial Crisis and Engineering Technology"	
Nov. 12-13, 1997	The 1st RTM in Osaka, Japan "On the Roles of Non-Governmental Engineering Academies"	

4. Memory of RTM

First
“On the Roles of Non-Governmental Engineering Academies”
November 12-13, 1997 Osaka/Japan

In May this year, CAE was approved to be a member of CAETS. NAEK was just established in 1995. EAJ, as a CAETS member, hosted the first RTM meeting. For the kickoff, Prof. Kurt Östlund, President of IVA (Royal Swedish Academy of Engineering Sciences), was invited to give a keynote presentation. Since then three academies have had annual meetings to exchange information of their activities and to discuss on the common issues among them hosting a meeting on a rotating schedule.

[RTM Participants] *In the alphabetical order of family names except for Head of Delegation

CAE: Gaofeng Zhu, Lian Shen
EAJ: Sogo Okamura, Kozo Iizuka, Tsuneo Nakahara, Hiroshi Sakurai, Hiroshi Suzuki
NAEK: Ki Jun Lee, Young Wook Kim, Jang Gyu Lee, Young Hyung Paik, Chul Soo Yu
Advisor: Kurt Östlund (Sweden)

[Program]

Nov. 12 Keynote Presentation “On the Roles of Non-Governmental Engineering Academies”
Nov. 13 RTM
- Inauguration of the RTM of CAE, NAEK and EAJ



Prof. Kurt Östlund



The First Round Table Meeting



4. Memory of RTM

Second

“The Asian Financial Crisis and Engineering Technology” November 18-19, 1998 Hangzhou/China

In the Open Session, three academies and two guest academies of Hong Kong and Mongolia made presentations on “The Asian Financial Crisis and Engineering Technology” and stressed the importance of manufacturing and IT (CAE), industrial restructuring and technological innovation (NAEK), creativity (EAJ), IT-used new economic model (HK) and infrastructure (Mongolia) to mitigate the Asian financial crisis. In the RTM meeting, free discussions were made on the future direction of the RTM including of the objectives and candidate topics such as energy, engineering education, IT and technology transfer.

[RTM Participants]

CAE: Jian Song, Yunhe Pan, Zuosheng Qian, Mingshu Tang, Dianzuo Wang
Zengpei Xuan, Jianchao Zheng, Gaofeng Zhu
EAJ: Sogo Okamura, Jun-ichi Nishizawa, Hiroshi Suzuki
NAEK: Ki Jun Lee, Soo Sam Kim, Tai Yoo Kim, Young Wook Kim, Tai Sik Lee
Guests: Charles K.Kao, C C Chan (Hong Kong), Badarch Dendev (Mongolia)

[Program]

Nov. 18 Open Session “The Asian Financial Crisis and Engineering Technology”
Nov. 19 RTM
- Objectives and future direction of RTM
Technical Tour to Zhejiang University



4. Memory of RTM

Fourth
“IT and Engineering Education based on Our Common Culture”
September 20-22, 2000 Awaji/Japan

In the Open Session, three keynote speeches were delivered on Information Technology, Engineering Education, and Common Culture among the three countries. In the RTM meeting, three academies reported their activities especially on the above issues, and agreed that “Engineering Education” should be the theme for the next RTM. It was also decided that each academy should respectively assign a chairperson and discuss in detail on the way of operating the RTM in the future. This year, NAEK was elected as a member of CAETS.

[RTM Participants]

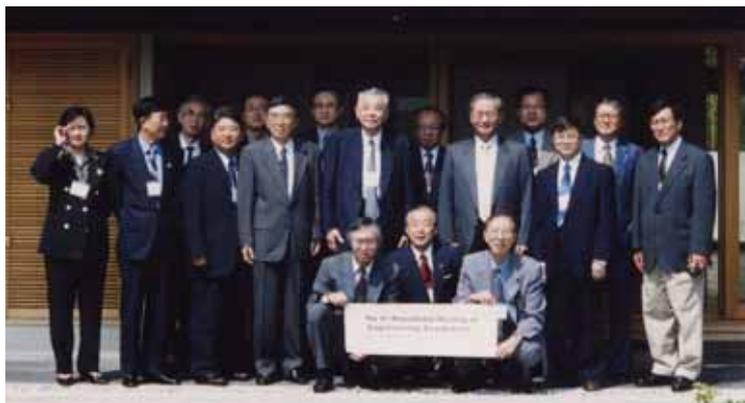
CAE: Gaofeng Zhu, Zuosheng Qian, Hequan Wu, Bingyu Xie, Shouwen Yu
EAJ: Tsuneo Nakahara, Hideo Ohashi, Nobuo Sakamoto, Hiroshi Sakurai
Hiroshi Suzuki, Tomokazu Tokuda, Naoya Yoda
NAEK: Ki Jun Lee, Taeho Bark, Se Hoh Kang, Soo Sam Kim, Young Wook Kim
Jang Gyu Lee, Sung Han Park

[Program]

Sept. 20 RTM: Updates and future collaboration of the three academies
Open Session: IT and Engineering Education based on Our Common Culture

Sept. 21 RTM: IT and Engineering Education
- Life-long Learning
- Chinese Character
- Accreditation of Engineering Education
Future collaboration through a possible joint WG of the three academies

Sept. 22 Tour around Awaji Island: Ohnaruto Bridge Memorial Museum,
Nojima Fault Memorial Museum,
Michinoeki Awaji Matsuhō Anchorage Park



4. Memory of RTM

Fifth
“Engineer Professional Accreditation and Engineering Education”
October 24-26, 2001 Chongqing/China

In the Workshop on engineering education and accreditation, each academy reported the current situation: JABEE started in Japan, ABEEK was about to start in Korea, and a similar organization was under study in China. In the RTM meeting, the possibility of establishing Asia-CASE was discussed, but was not approved as being premature.

[RTM Participants]

- CAE: Gaofeng Zhu, Guofan Jin, Zuosheng Qian, Xiaoguang Zheng
EAJ: Jun-ichi Nishizawa, Katsuhisa Furuta, Hiroshi Suzuki, Tomokazu Tokuda
Haruki Ueno
NAEK: Ki Jun Lee, Eeho Baik, Hang Sun Choi, Soo Sam Kim, Young Wook Kim
Jang Gyu Lee, Suk Ho Lee, Il Moon, Kyung Ho Suh
Guests: Ping Ki Kwok, Albert Chow (Hong Kong), Sodnomdorj Dari,
GanZug Chimed-Ochir (Mongolia)

[Program]

- Oct. 24 International Workshop “Engineer Professional Certification and Engineering Education”
Oct. 25 International Workshop (continued)
RTM
- Future cooperation: Possibility of Asia-CASE
Oct. 26 Tour to Dazu Stone Sculpture



4. Memory of RTM

Sixth “Role and Status of Engineers in the Society” October 29-30, 2002 Seoul/Korea

The Presidents of the three academies met together for the first time. In the Joint Symposium, three academies discussed on the role of engineering and engineering qualification. In the RTM meeting, the same issues were discussed in detail. In addition, three academies agreed to continue the RTM, to establish a Task Force team to continuously discuss these issues and to draw up the Bylaws of the RTM. After the RTM meeting, a press conference was held.

[RTM Participants]

CAE: Kuangdi Xu, Jinji Gao, Jinsheng Ning, Zuosheng Qian, Shouwen Yu
EAJ: Jun-ichi Nishizawa, Yoshimi Ito, Shinichi Kobayashi, Hiroshi Suzuki
Ikuo Yamada
NAEK: Ki Jun Lee, Soo Sam Kim, Young Wook Kim, Jang Gyu Lee,

[Program]

Oct. 29 Joint Symposium with the NAEK's 42nd CEO Forum
Session 1: Expanding the Role of Engineers in the Society
Session 2: Enhancement of Engineering Qualification and Education
Session 3: Wrap-up

Oct. 30 RTM
- Continuation of the RTM
- Proposal of establishing a Task Force team
- Decision to draw up the Bylaws
Tour to Samsung Electronics Co. and Korean Folk Village



4. Memory of RTM

Seventh “Better Engineers, Better Professionals” October 29-30, 2003 Tokyo/Japan

Prior to the RTM in October, a Task Force (TF) meeting was held in August in Seoul, where TF members discussed about the TF report “Better Engineers, Better Professionals.” In October, the Open Session was held on the same theme, which included a keynote lecture on “Management of Technology,” a presentation on the TF report and two sessions that dealt with the theme from both university and industry dimensions. In the RTM meeting, the Bylaws were finalized and in line with it, the name RTM was changed to EA-RTM. Also, the members agreed to establish the TFs on “Asian Engineers’ Code of Ethics” and “Cooperation between Universities and Industries across Whole Asia.” Before the RTM meeting, three Presidents had a prior consultation.

[RTM Participants]

CAE: Kuangdi Xu, Zuosheng Qian, Qi Tian, Shouwen Yu, Gaofeng Zhu
EAJ: Jun-ichi Nishizawa, Kozo Iizuka, Yoshimi Ito, Hiroshi Suzuki, Haruki Ueno
Ikuo Yamada
NAEK: Ki Jun Lee, Bo Hyung Cho, Jang Gyu Lee
Guests: Thu Nguyen Van, Tuan Pham Anh (Vietnam)

[Program]

Oct. 29 Open Session 1
Keynote Lecture “Management of Technology in Japanese Context”
TF Report
Open Session 2
“Better Engineers, Better Professionals in East Asia”
“More Competitive, More Cooperative East Asia”
Oct. 30 RTM
- New TF proposals on
“Asian Engineers’ Code of Ethics”
“Cooperation between Universities and Industries across Whole Asia”
Tour to Yokosuka Research Park: NTT Yokosuka R&D Center
NTT DoCoMo R&D Center



Yokohama Research Park

4. Memory of RTM

Eighth “Engineering Technology and Sustainable Development” October 31-November 1, 2004 Suzhou/China

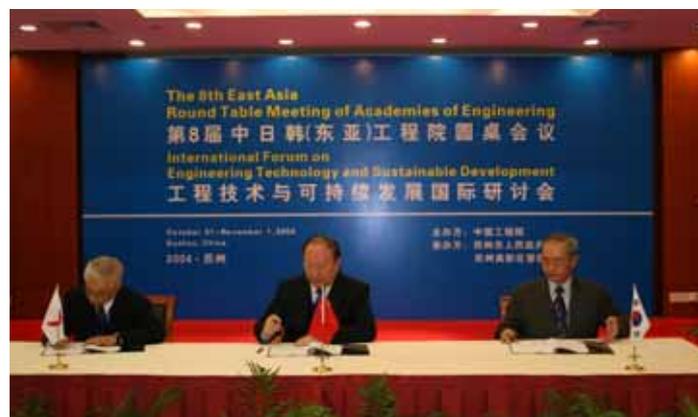
The first EA-RTM and the eighth RTM in total was held, followed by the World Engineers Convention 2004. In the International Forum on “Engineering Technology and Sustainable Development,” discussions were made on environmental issues focusing on 3R: Reduce, Reuse and Recycle. In the RTM meeting, the Presidents of the three academies signed to the “Declarations of Engineering Ethics” as the result of the TF activity.

[RTM Participants]

- CAE: Kuangdi Xu, Xiangwan Du, Jincheng Kang, Hongtao Ren, Guofang Shen, Haiyan Xu
EAJ: Jun-ichi Nishizawa, Yoshimi Ito, Haruki Ueno
NAEK: Ki Jun Lee, Bo Hyung Cho, Jang Gyu Lee, Tai Shik Lee, Yoo Jung Lee
Eun Yeong Park
Guests: Yee Cheong Lee, Kok Beng Choo, Lee Pee Hong, Bee Wah Lee, Kai Sang Lock
Chitr Lilavivat, Sein Myint, Lydia G. Taisinsin, Truong Tien Nguyen
Meas Sokhom (AAET)

[Program]

- Oct. 30 International Forum “Engineering Technology and Sustainable Development”
Nov. 1 RTM
- Declaration of Engineering Ethics



Signing of the Declaration of Engineering Ethics

4. Memory of RTM

Ninth “New and Renewable Energy” November 1-2, 2005 Seoul/Korea

The RTM was held just after the 10th anniversary of NAEK. In the Forum on “New and Renewable Energy,” three academies reported on the activities in each country. In the RTM meeting, Asean Academy of Engineering and Technology (AAET) attended as observer and applied to the membership. Observing the Bylaw of EA-RTM, AAET was not approved as a member, but it would be invited to the RTM as observer. Three Task Forces were proposed for the next RTM on “New and Renewable Energy,” “Innovation,” and “Engineering Ethics.”

[RTM Participants]

- CAE: Dianzuo Wang, Jincheng Kang, Jianwei Li, Hongtao Ren, Yanqin Song
Jianchao Zheng,
- EAJ: Jun-ichi Nishizawa, Eiichi Kumabe, Hiroshi Suzuki, Haruki Ueno
- NAEK: Ki Jun Lee, Bo Hyung Cho, Soo Sam Kim, Wook Hyun Kwon, Young Bin Kwon
Rim Taig Lee, Jae Ek Son
- Guests: Yee Cheong Lee, Kok Beng Choo, Soong Sieu Hoong, Kai Sang Lock
Hong Lee Pee, Myint Sein (AAET)

[Program]

- Nov. 1 International Forum on “New and Renewable Energy (NRE)”
Session 1: National R&D Policy and Strategies on NRE
Session 2: Ongoing R&D and Technical Issue
Session 3: Future Forecast and Strategy (Hydrogen Economy)
RTM
-Three Task Forces were formed: New & Renewable Energy, Innovation and
Engineering Ethics
- Nov. 2 Tour to Changdeokgung Palace



4. Memory of RTM

Tenth (Plan)
“Institutional Innovation in East Asia”
- Resonating Dynamism between Technological Innovation and Institutional Systems -
October 26-28, 2006 Tokyo/Japan

On the occasion of the 10th anniversary of RTM, a challenging theme of “Innovation” was taken up for the Symposium and the speakers were invited also from the countries in other than Asia. Further, in commemoration, a brochure “The First Ten Years (EA-RTM)” was published.

[RTM Participants]

- CAE: Yunhe Pan, Jiayi Cheng, Dongmei Li, Dexiong Song, Zanji Wang, Zhongtuo Wang
Cheng Wu, Haiyan Xu
- EAJ: Tsuneo Nakahara, Kozo Iizuka, Yoshimi Ito, Eiichi Kumabe, Jun-ichi Nishizawa
Sogo Okamura, Hiroshi Suzuki, Haruki Ueno, Chihiro Watanabe, Hiroaki Yanagida
- NAEK: Ki Jun Lee, Bo Hyung Cho, Wook Hyun Kwon, Kun Woo Lee, Sang Uk Nam
Eun Yeong Park, Jong Keun Park,
- Guests: Michael Sargent (Australia), Lim Mong King (Singapore), Tuan Phan Anh (Vietnam)

[Program]

- Oct. 26 Symposium “Institutional Innovation in East Asia”
Keynote Lectures:
“Technological Innovation of Mobile Communications and its Impact to the Society”
“Information Technology as a Driver of Corporate Innovation”
Session 1: Innovation and Development: Analysis of Current Situation and Future Perspectives
Session 2: Dynamism of Technological Innovation: Cases
- Oct. 27 Session 3: Innovation and Institutional Systems: Business Intelligence, Culture and Knowledge” -How can innovation be created?
- RTM
- Future Direction of EA-RTM
- Oct. 28 Tour to Asakusa and Miraikan (National Museum of Emerging Science and Innovation) in Odaiba



Symposium Venue: Gakushikaikan
Registered National Tangible Properties

5. Task Force Activity

Task Force Activity

The Round Table Meeting (RTM) used to be an annual event among three Engineering Academies. However, going through several discussions, they recognized it necessary to continuously exchange information and to work on in-depth study on specific issues. For this purpose, the collaborative activity in the Task Force team was proposed and one Task Force was organized in the 6th RTM in Seoul in 2002. The chair of the Task Force is basically assigned from the hosting Academy of the coming RTM. The theme to work on and Task Force members are recommended by member academies. Duration is basically one year.

Task Force 2003

"Better Engineers, Better Professionals," chaired by Hiroshi Suzuki, EAJ.

This first Task Force team was also assigned the mission of drafting the Bylaws on top of the collaborative in-depth study.

The report "Better Engineers, Better Professionals" was presented at the Open Session of the 7th RTM in Tokyo in 2003.

Task Force 2004

"Asian Engineers' Code of Ethics," chaired by Zuosheng Qian, CAE.

"Declaration of Engineering Ethics" was signed by the three academies at the 8th RTM at Suzhou in 2004.

"Cooperation between Universities and Industries across Whole Asia," chaired by Zuosheng Qian, CAE.

Task Force 2005

"Engineering Ethics," continued and chaired by Bo Hyung Cho, NAEK.

"New and Renewable Energy Collaboration in East Asia," chaired by Bo Hyung Cho, NAEK.

Task Force 2006

"Engineering Ethics," continued and chaired by Haruki Ueno, EAJ.

"New and Renewable Energy," continued and chaired by Hiroshi Suzuki, EAJ.

"Innovation," chaired by Chihiro Watanabe, EAJ.

The Symposium on "Institutional Innovation in East Asia" is organized for the 10th RTM in Tokyo in 2006.

RTM Task Force Report 2003
“Better Engineers, Better Professionals”



The Chinese Academy of Engineering
The Engineering Academy of Japan
The National Academy of Engineering of Korea

October 2003

RTM Task Force Team Member 2003

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Appendix 1

PREFACE

In the 21st century, science and technology are key factors for the human well-being as well as global competitiveness. It may not be too much to say that they depend on engineers. To that end, quality of engineers should be more improved than ever before.

The Chinese Academy of Engineering, the Engineering Academy of Japan and the National Academy of Engineering of Korea have got involved in cooperative activity in East Asia called “RTM” since 1997 holding regular meetings to discuss engineering and technology-related issues. At the 6th RTM in Korea, October 2002, three academies agreed to step up RTM activities not only in scale but also in quality. As the first onset, this Task Force team was newly formed on a mission to find out important issues of fostering better Engineers as Profession.

RTM Task Force team 2003 consists of seven members—one chairperson from Japan, the hosting country of the 7th RTM, and two members each from three countries. Firstly, Task Force members picked up nine key issues related to the theme “Better Engineers, Better Professionals.” Then, each member committed himself to more than one issues out of nine, being encouraged to form an independent working group. And eventually, the Task Force narrowed down the issues for discussion to seven.

Through many e-mail exchanges and one face-to-face meeting in Korea in August, Task Force members could reach conclusions for their individual study reports, which were compiled into this Task Force Activity Report. The final results of the Task Force team 2003 are to be presented at the Open Session of the 7th RTM on October 29, 2003 and submitted to RTM on October 30, 2003.

Suzuki, Hiroshi
Chair, RTM Task Force 2003
October 17, 2003

Appendix 1

WORKFLOW

October	2002	Task Force team 2003 was established at the 6th Roundtable Meeting in Seoul, Korea.
January	2003	Exchanged opinions about issues for discussion and finalized nine issues to define the scope of activities for the year 2003.
February		Each member committed himself to more than one issues out of nine.
April		The 1 st Task Force meeting was scheduled for 4th in Shanghai, but was postponed due to SARS. Continued discussions by E-mails.
August		The 1 st Task Force meeting was held on 22nd in Korea to discuss about individual issues and finalized the program of the 7 th RTM.
September		Task Force members prepared final individual study reports by the end of the month.
October		Final results of Task Force team will be presented at the Open Session of the 7 th RTM on 29 th and submitted to the RTM on 30 th .

Appendix 1

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Declaration on Engineering Ethics

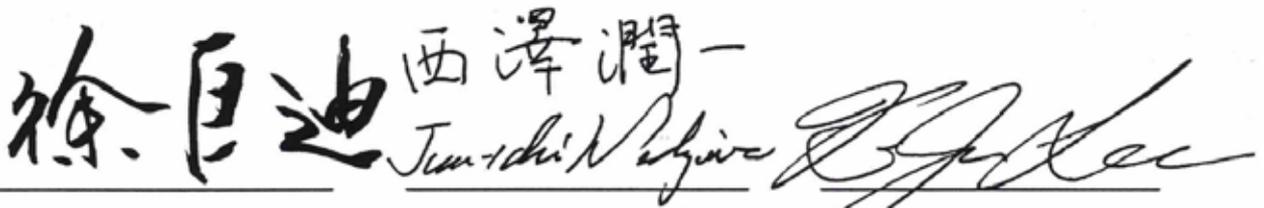
Since the inception of the Round Table Meeting (RTM) on November 12, 1997 in Osaka, Japan, between the Chinese Academy of Engineering (CAE), the Engineering Academy of Japan (EAJ), and the National Academy of Engineering of Korea (NAEK) we, the three academies, have annually met with the objective to discuss regional, common, technological issues and provide impartial, balanced advice for the continuous progress on engineering technology in East Asia. In an effort to meet the objective, we, the three academies, in our 8th East Asia-Round Table Meeting (EA-RTM) on November 1, 2004 in Suzhou, China agree to the following:

1. Engineering technologies based on new methods of such as transportation, communication, production, life support, environmental protection, information handling, and education have brought unprecedented opportunities and challenges for the welfare of society by means of industrial development, economic growth, and upgraded living conditions. We accredit Asian engineers for their role in improving the quality of life in our society by exploiting the opportunities and meeting the challenges.
2. The impact of an engineer's work on society is enormous. Modern engineering technology is a pervasive, complex system whose cultural, social, political, and intellectual elements are manifest in virtually every aspect of our lives. Thus, engineers need to act conscientiously regarding the safety, health, and welfare of the public in performance of their professional work.
3. We believe that all Asian engineers need to commit themselves to high ethical standards in exercising their profession, so that the engineering technology maintains its contribution toward the welfare of society and improvement of the quality of life.

Appendix 2

4. In accordance with our conviction, we recommend the attached "Asian Engineers' Guideline of Ethics" and request that Asian engineering societies guide their members to commit to ethical standards in performing their professional work.

Signed by:

The image shows three handwritten signatures in black ink. From left to right: the first signature is in Chinese characters '徐自迪' (Xu Zidi); the second is in Japanese characters '西澤潤一' (Nishizawa Jun-ichi); and the third is a stylized signature in English characters, likely 'Ki Jun Lee'. Each signature is written above a horizontal line.

Kuangdi Xu
President
The Chinese Academy of
Engineering

Jun-ichi Nishizawa
President
The Engineering
Academy of Japan

Ki Jun Lee
President
The National Academy of
Engineering of Korea

On this 1st day of November, 2004 in Suzhou, China

Attachment: Asian Engineers' Guideline of Ethics

Attachment:

Asian Engineers' Guideline of Ethics

We, the Chinese Academy of Engineering, the Engineering Academy of Japan, and the National Academy of Engineering of Korea, in recognizing an important role of engineering technologies for the quality of human life and environmental sustainability, in cherishing the Asian cultural heritage of harmonious living with neighboring people and nature, in accepting the obligation of individual engineers to uphold the integrity, honor, and dignity of the engineering profession by being honest and impartial and serving with fidelity their employers, clients, and the public, do hereby urge Asian engineering societies to guide members to commit themselves to the highest ethical and professional conduct. To achieve this commitment, the Asian engineers shall:

1. Accept responsibility in making engineering decisions consistent with the safety, health and welfare of the public, and disclose all relevant information concerning public safety, health, welfare, and sustainable global development in carrying out irreversible civil engineering work of long-term and large-scale in nature.
2. Act as faithful agents or trustees in business or professional matters for each employer or client, provided that such actions conform to other parts of this guideline.
3. Disclose all known or potential conflicts of interest that could influence or appear to influence their judgment or the quality of their services.
4. Be honest and trustworthy in stating claims or estimates based on available data.
5. Perform work in compliance with applicable laws, ordinances, rules and regulations, contracts, and other standards.
6. Honor property rights including copyright and patent and give proper credit for intellectual property.
7. Seek, accept and offer honest professional criticism, properly credit others for their contributions and never claim credit for work not done.

Appendix 2

8. Be honest and forthright about any limitations of experience and education and live up to own beliefs and conscience.
9. Continue developing relevant knowledge, skill, and expertise throughout careers and contribute to the improvement of engineering as a discipline.
10. Oppose prejudice and discriminative treatment with respect to sex, religion, national or ethnical origin, age, sexual preference, color, physical or mental disability.
11. Give due effort to the need to achieve sustainable development and conserve and restore the productive capacity of the earth.
12. Promote mutual understanding and solidarity among Asian engineers and contribute to the amicable relationships among Asian countries.

East Asia Round Table Meeting of Academies of Engineering (EA-RTM) Bylaws

To be Approved Jan.1,2004

To be Effective Jan.1,2004

ARTICLE 1 – Creation

East Asia Round Table Meeting of Academies of Engineering “EA-RTM” is a non-profit and non-governmental association with science, engineering and technology interests. It is founded by the Chinese Academy of Engineering (CAE), the Engineering Academy of Japan (EAJ) and the National Academy of Engineering of Korea (NAEK). EA-RTM shall be expanded and consisted of academies of engineering and technological sciences of East Asian Countries.

ARTICLE 2 – Objectives

The objectives of EA-RTM are to discuss the issues of common concern among members related to engineering and technological sciences and to find out best solutions and provide impartial and balanced advice on technological issues for the short, medium and long-term future of East Asia.

In order to carry out these objectives, EA-RTM will:

- (a) Provide an independent non-political and non-governmental international forum of engineering and technological sciences academies in East Asia, prepared to advise governments and international organizations on technical and policy issues related to its areas of expertise;
- (b) Contribute to the strengthening of engineering and technological activities in order to promote sustainable economic growth and social welfare throughout East Asian countries;
- (c) Foster a balanced understanding of the applications of engineering and technology by the public;
- (d) Provide an international forum for discussion and communication of engineering and technological issues of common concern;
- (e) Foster cooperative international efforts for development of programs of bilateral and multilateral interests;
- (f) Support establishment of additional engineering academies in countries where none exist.

ARTICLE 3 – Membership

Section 1 Composition

The members of EA-RTM shall be academies of engineering and technological sciences of East Asian Countries.

Section 2 Founding Members

Founding members of EA-RTM are: The Chinese Academy of Engineering, The Engineering Academy of Japan, and The National Academy of Engineering of Korea.

Appendix 3

Section 3 Criteria for Membership

A member of EA-RTM shall:

- a. Be representative of the engineering and technological community of that country;
- b. Subscribe to the non-political, non-governmental international character of EA-RTM;
- c. Be engaged in significant activities demonstrating that its objectives are compatible with the objectives of EA-RTM;
- d. Have sufficient financial support to pay the costs of participation in EA-RTM activities; and
- e. Be only one EA-RTM member from any country.

Section 4 Procedures for Admission of New Members

- a. The election of a new member academy shall take place only during a regular meeting of EA-RTM.
- b. Admission of a new member academy shall require the affirmative votes of all of the members' representatives present and voting.
- c. Applicants elected by EA-RTM, on complying with EA-RTM-approved entry requirements, shall be admitted to EA-RTM effective at the conclusion of EA-RTM at which elected.

Section 5 Resignation and Removal of Members

- a. A member may express the resignation with a written notice to EA-RTM 90 days prior to a regular meeting.
- b. The removal of a member shall take place only during a regular meeting of EA-RTM and shall require the affirmative votes of all of the members' representatives present and voting.

ARTICLE 4 – Organization

Section 1 The EA-RTM

- a. Each academy shall appoint a representative to speak and vote on its behalf. The body of the academy representatives shall be known as the EA-RTM.
- b. The EA-RTM shall:
 - (a) Establish the policies of EA-RTM;
 - (b) Approve procedures for and the election of academies to membership in EA-RTM;
 - (c) Accept the representative of each member academy to the EA-RTM and
 - (d) Approve the general concept and outline of EA-RTM projects, and endorsed activities.

Section 2 Meetings

Regular meetings of the EA-RTM shall be held annually to make decisions about important issues related to governing policy of EA-RTM. This regular meeting shall be called Round Table Meeting (RTM). RTMs shall be hosted on a rotating system among EA-RTM members and be chaired by the host country.

With 90 days notice, special meetings of the EA-RTM may be called by the president of a host country or at the request of a third of member academies.

Each member is entitled to one vote on each matter submitted to a vote at any meeting. Fifty percent of the current EA-RTM membership, with accepted representation present, shall constitute a quorum.

Appendix 3

A member academy may invite observers to EA-RTM regular meeting on its own discretion only for the year it hosts RTM in its own country.

Minutes of a regular and/or special meeting shall be prepared by the host country.

Section 3 Task Forces

a. Task Forces, Workshops and Working Parties of a reasonable and sufficient size may be set up to deal with specific topics if called for by a member and approved at the regular meetings. The life of such Working Parties should, in principle, not exceed one year, but it may be extended if this is essential.

b. A head of the Task Force, who is normally from the host academy for the coming RTM, shall be appointed at the regular meeting.

ARTICLE 5 – Expenses

There will be no annual membership dues.

Each member academy shall be responsible for the travel and accommodation expenses of its delegation to EA-RTM meetings, and the hosting member shall be responsible for the costs incurred from the operation of EA-RTM and the preparation of EA-RTM meeting until the venue for the next EA-RTM meeting is determined.

The expenses incurred from the activities of the Task Forces, Workshops and Working Parties are the sole responsibility of the participating member academies.

ARTICLE 6 – Language

The language of EA-RTM meetings and activities shall be English.

ARTICLE 7 – Amendments of Bylaws

Section 1 Proposed Amendments

Amendments to these Articles may be proposed by a member academy and will be considered at the next regular meeting of the EA-RTM.

Proposed amendments shall be provided to all member academies through the host country at least 90 calendar days before the EA-RTM meeting at which they are to be considered.

Section 2 Approval of Amendment

Approval of an amendment at a meeting of the EA-RTM shall require the majority approval of all the member representatives present.

ARTICLE 8 – Dissolution

Dissolution of EA-RTM shall be decided with a majority approval of all the member representatives present. //

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As of October 2006

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