

Federation of Asian Chemical Societies Newsletter

FACS

No. 1 / 2008

- 
- Messages from the FACS and IUPAC Presidents
 - Reports on 12th ACC and 14th GA
 - FACS Activities
 - Trends in Light-Emitting Chemistry
 - Profiles of the Member Societies



www.facs-as.org

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Message from the President



*F*irst, I would like to thank Member Societies of the Federation of Asian Chemical Societies (FACS) for giving Institut Kimia Malaysia, or IKM, to lead FACS for the next two years. I am honored to be elected as the President of FACS for 2007 – 09 and I shall try my very best to promote the advancement of chemistry in Asia to be on par with the best in the world.

We have just organized the 12th Asian Chemical Congress (12th ACC) in Kuala Lumpur last August 2007. With 1,688 delegates from 52 countries, I believe that 12th ACC is the largest ACC ever held. With a total of 1,290 titles covering all major areas of chemistry being presented at 12th ACC, the Asian Chemical Congress, or ACC, has become an important scientific meeting for both senior and young scientists to present and discuss their latest research and development findings. This augurs well for the development of chemistry in Asia.

We believe that FACS can play an important role in the advancement of chemistry in Asia. In the next decade or so, Asia, particularly, East, Southeast and South Asia, is to become a major economic region of the world, eclipsing even North America and European Union. However, in order for this economic growth to be sustainable, there must be parallel development in science, technology and innovation. Chemistry, in particular, is playing an increasing important role in sustainable economic development and uplifting the quality of life. In this aspect, the Asian chemical fraternity, through FACS, must work together to advance chemistry to achieve the above objectives. FACS would like to invites all Asian chemical societies to establish regional and international networks in all major areas to carry out advance research and cutting-edge technology in chemistry. We believe that Asia has got the human capital, abundant resources and the Asian culture of excellence to achieve success in science, technology and innovation.

As President of FACS, I would like to extend an invitation to all national chemical societies who are yet to join us to become members of FACS. As I have mentioned earlier, we must work together to uplift Asia to be a major political, economic and scientific powerhouse for the benefit and prosperity of the world

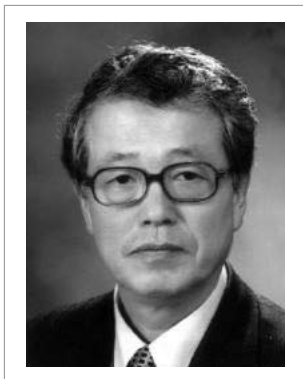
Datuk Dr. Ting-Kueh Soon

President

The Federation of Asian Chemical Societies

Message from the IUPAC President

Chemistry - The Planet Saver



*I*t is often said by chemists that chemistry is the essential science responding to the world's needs. With chemistry touching every aspect of everyday life, this claim is certainly true. Needless to say, our existence itself is a result of chemistry, both the chemistry of our planet and that of the larger universe.

In recent years, we have heard much about the threats to Earth: pollution of the environment, shortages and the overuse of natural resources, and science used to our detriment. Lack of accurate information about chemistry's, central role, including deep-rooted misconceptions about chemical products and politically misguided decisions governing their use, is a giant hurdle in the quest for a public correctly informed on the benefits of chemistry.

But these challenges, daunting as they are, also provide opportunities. However they can be appropriately exploited only if chemists become leaders in the movement to save our planet and make chemistry the essential tool in that effort. This requires change.

At the risk of sounding abstract or philosophical, I believe that chemists -- in fact, all scientists -- should embrace global humanism. We should learn how to handle scientific and technological challenges within the broad needs of society. We should be concerned that scientific progress might come at the expense of our fellow humans, near and far. Each of us must ask the following question and take corrective measures if the answer is negative: Do I possess the ability to discern the global challenges to my profession and present solutions that the public can rely on in the long-term?

I have no detailed strategies to suggest to make our planet more livable and life here more enjoyable. But as a chemist, I do offer several recommendations.

- Chemists should be more responsive to the needs of society.*
- Chemistry education should be much more relevant to the problems of the world, which means chemistry educators must be better trained and better prepared to teach.*
- Chemists should establish stronger communication within our profession and with other sectors of society, including other scientists. This requires a reassessment of efforts to instill an appreciation of chemistry in non-chemists.*

Message from the IUPAC President

- *Scientists should seek balanced views on whether a technology improves the quality of life. In the end, the well-being of humans and that of our planet must be the measure of scientific progress. This will assure the return of the public's trust in scientists.*

I believe the solution to the global challenges we face lies largely in the work done by chemists. New techniques are on the horizon in the form of the so-called multidiscipline approach to scientific and technical problems. They are still in the embryonic stage, but they are opening new doors. But let's not forget the importance of fundamental research. And, also, let's not forget that all technological innovations are the fruits of basic scientific knowledge used by the creative mind. After all, chemistry is a creative science.

We should take note that the center of science is moving to the East. The Federation of Asian Chemical Societies should be prepared to be at the center of this change.

Last, but not the least, I pray that FACS will have success and prosperity and that its members will continue to make important contributions to the progress of chemistry.

Wishing you all the best.

Jung-il Jin
President
International Union of Pure and Applied Chemistry

The 12th Asian Chemical Congress (12ACC) 2007

The 12th Asian Chemical Congress (12th ACC) is the flagship scientific meeting of the Federation of Asian Chemical Societies (FACS). Hosted every two years by a member society of FACS, the Asian Chemical Congress has become a major international meeting of both eminent and young scientists and researchers from all over the world. 12th ACC is hosted by Institut Kimia Malaysia (IKM) in Kuala Lumpur, Malaysia from August 23-25, 2007. It has attracted 1,688 delegates from over 52 countries. With 1,290 titles being presented, 12th ACC is the largest ACCs ever held.

1. The 12th ACC Opening Ceremony

The 12th ACC Opening Ceremony was held on Thursday, August 23, 2007 at Dewan Tun Hussein Onn, Putra World Trade Centre, Kuala Lumpur. The Honorable Minister of Science, Technology and Innovation, YB Dato' Sri Dr. Jamaludin Mohd Jarjis officiated the Opening Ceremony. In his Opening Address, the Minister stressed the importance of chemistry playing a key enabling role in the socio-economic development of nations. In the current age of globalization and knowledge-based economy, he emphasized on the development of science and technology human capitals in order for Malaysia to become a developed nation by the year 2020.



2. Scientific Programme

The Scientific Programme of the 12th ACC comprises the following:

2.1 Plenary Sessions

The Plenary Sessions comprising the following six (6) Plenary Lectures

The Greenhouse Effect and Global Warming

Nobel Laureate Prof. F Sherwood Rowland
University of California at Irvine, USA

Chemistry, Biology and Medicine of Natural Products

Prof. K C Nicolaou
Scripps Research Institute, USA

Adsorption and Self-Assembling of Organic Molecules – STM Study

Prof. Chunli Bai
Chinese Academy of Sciences, China

Novel Drug Leads from Biodiverse Medicinal Plants

Prof. A Douglas Kinghorn
Ohio State University, USA



Water Photolysis and Photocatalysis – How to Extend Fundamental Findings to Actual Applications

Prof. Akira Fujishima
Kanagawa Academy of Scie. and Tech., Japan

The Challenges and Vision of Chemistry for the 21st Century

Prof. Jung-Il Jin
Korea University, Korea

2.2 FACS Award Lectures

The following four (4) FACS Award Lectures were presented:

■FACS Foundation Award Lecture

Carbon-13 NMR relaxation studies in tetraphenyltin and tetra(p-tolyl)tin in solution
Prof. Emeritus Ng Soon
(University of Malaya, Malaysia)



■FACS Award for Economic Development Lecture

Chemicals for Semiconductors and Displays: Present, Future and Dongjin Semichem's Pledge to contribute to Society
Mr. Boo-Sup Lee
(Dongjin Semichem Co Ltd, Korea)



■FACS Young Chemist Award Lecture

Deciphering the Proteomic: New Methodologies for Functional and Targeted Proteomics
Dr. Yu-Ju Chen
(Academia Sinica, Taipei, Taiwan)



■FACS Award for Advancement in Chemical Education Lecture

Efforts to promote and globalize Asian Chemical Education
Prof. Emeritus Yoshito Takeuchi
(University of Tokyo, Japan)



■FACS Citations for Contribution to Chemical Profession

Prof. Masato M. Ito
(Faculty of Engineering, Soka University, Japan)



2.3 Scientific Sessions

The Scientific Programme also included the following four (4) Scientific Sessions:

- Inorganic, Organometallic and Bioinorganic Chemistry (IOB)
- Organic Chemistry: Mechanism and Syntheses (ORC)
- Physical and Theoretical Chemistry (PTC)
- Oils and Fats Chemistry and Technology (OCT)

2.4 International/Regional Symposia

The Scientific Programme also covered following seven (7) International Symposia:

- International Symposium on Environmental and Green Chemistry (EGC)
- International Symposium on Food Analysis, Chemistry and Technology (FACT)
- International Symposium on Innovation in Chemistry Education (ICE)
- International Symposium on Natural Products and Medicinal Chemistry (NPMC)
- International Symposium on Polymer and Materials Chemistry (PMC)
- Third Regional Symposium on Total Laboratory Management (QSEL) 2007
- Malaysian International Symposium on Analytical Sciences (SKAM-20) 2007

A total of 1,290 presentations, comprising 6 plenary lectures, 4 FACS Awardee Lectures, 113 keynotes, 417 orals and 750 posters were made at 12ACC. The breakdown of the presentations is as follows:

3. The 12th ACC Delegates

Session / Symposium	Special	Keynote	Oral	Poster	Total
Plenary Lectures	6				6
FACS Award Lectures	4				4
IOB		5	32	93	130
ORC		7	41	108	156
PTC		8	42	55	105
OCT		5	19	15	39
EGC		31	63	71	165
FACT		6	25	31	62
ICE		6	25	11	42
NPMC		8	18	165	191
PMC		20	62	80	162
QSEL		5	20	-	25
SKAM-20		12	70	121	203
TOTAL	10	113	417	750	1290

A total of 1,688 delegates from 52 countries participated in the 12th ACC. The delegates expressed their satisfaction with the scientific programme and were impressed with the organization of such a large scientific meeting.

4. Exhibition on Chemicals and Instrumentation Asia (CiAsia) 2007

An exhibition on Chemicals and Instrumentation Asia (CiAsia) 2007 was held in conjunction with 12thACC from August 23–25, 2007. CiAsia 2007 showcased the latest in chemicals, chemical and occupational safety, instrumentation, laboratory services, environmental management, process control and automation. A total of 72 companies from 24 countries took up 105 booths to exhibit their latest products, technologies and services.



5. IKM 40th Anniversary Banquet

The 40th Anniversary Banquet of Institut Kimia Malaysia (IKM) was held in conjunction with the 12thACC on Saturday, August 25, 2007 at Merdeka Hall, Putra World Trade Centre, Kuala Lumpur. A total of 1,000 guests, including many eminent scientists from overseas, attended the Banquet. Deputy Minister of Science, Technology and Innovation, YB Dato' Kong Cho Ha was the Guest-of-Honour at the Banquet. The guests were treated to a sumptuous dinner and entertained by dancers from the Malaysian Tourism Promotion Council and invited singers.

6. Conclusion

The 12th ACC was considered a huge success as it is a well managed scientific meeting with high level presentations by young and eminent scientists from all over the world. It has also achieved its objective

of promoting the advancement of chemistry for socio-economic development, environment and sustainability. 12thACC also enables the young scientists from the developing world to establish contact and form network with senior scientists from the advanced countries. It augurs well for the development of chemistry in Asia.

7. Appreciation

IKM would like to record our utmost appreciation to FACS for giving us the opportunity to host the 12thACC. We would also like to thank the 12th ACC National Organizing Committee (NOC) and the IKM Secretariat

staff for their hard work and dedication. Our utmost sincere appreciation also goes to the major sponsors, namely Ministry of Science, Technology and Innovation (MOSTI), Organisation for the Prohibition of Chemical Weapons (OPCW), PETRONAS and Academy of Sciences Malaysia (ASM). Credits must also go to all collaborating organizations and the exhibition manager, ECMI Services Sdn Bhd. However, the most significant factor that contributed to the success of the 12th ACC is the 12th ACC delegates without their participation we would not be able to have the 12th ACC.



IKM 40th Anniversary Banquet

Minutes of the 13th General Assembly

Federation of Asian Chemical Societies

Oct. 22, 2005, Holiday Inn Seongbuk, Seoul, Korea

PRESENT

Member Societies

- Australia Dr. Greg Simpson
- Bangladesh Prof. Mahmood
- Brunei Dr. Hj Ibrahim Haij Abd
- China Prof. Chun Li Bai
- Hong Kong Prof. Michael H. W. Lam
- Israel Prof. Shammai Speiser
- Japan Prof. Kazuko Matsumoto
- Jordanian Prof. Sultan Abu-Orabi
- Korea Prof. Kook Joe Shin
- Kuwait Dr. Hamad Al-Mata
- Malaysia Prof. Chee Chung Ho
- New Zealand Prof. Graham A. Bowmaker
- Philippines Prof. Maribel Nonato
- Singapore Prof. Andy Hor Tzi Sum
- South Pacific Dr. Jagjit Khurma
- Sri Lanka Prof. J. N. O Fernando
- Taiwan Prof. Kan-Nan Chen
- Thailand Dr. Surin Lasooksathit
- Vietnam Dr. Nguyen Viet Bac

Observer Societies

- Nepal Prof. Krishna Mahandar

EXCO Members

- President (Vietnam) Prof. Ho Si Thoang
- Past President (Australia) Prof. Barry Noller
- President-Elect (Korea) Prof. Junghun Suh
- Secretary General (Vietnam) Hyunh Van Trung
- Treasurer (Malaysia) Datuk Dr. Ting-Kueh Soon
- Chairman of Publication (Australia) Dr. San Thang
- Coordinator of Projects (Japan) Prof. Masato Ito

Project Directors

- ANRAP Prof. Mossihuzaman
- APFAN Dr. Pieter Scheelings
- MCNP Prof. David Winkler
- ACEN Prof. J. N. Oleap Fernando

Prof. Zuriati Zakaria

- ANEC Dr. Ross Sadler

Distinguished Invited Guests

- Prof. Leiv K. Sydnes (President of IUPAC)
- Dr. Reto Battaglia (Past President of EuChemMS)
- Dr. Simon Campbell (President, the Royal Society of Chemistry, UK)
- Dr. Ahmed Nafis (Regional Office of UNESCO, Jakarta)
- Mr. Long Lay (Cambodia)
- Prof. Maung Maung Htay (Myanmar)
- Prof. Alima Zarmagambetova (Republic of Kazakhstan)

Observers

- Prof. Kyung Byung Yoon (Secretary General-Elect)
- Dr. Tahsin J. Chow (Coordinator of Projects-Elect)
- Dr. Teruto Ohta (Chemical Society of Japan)
- Dr. Tamara Julia Namero (American Chemical Society)
- Dr. Michael Snyder (American Chemical Society)
- Mr. Mey Sovuthy (Cambodia)
- Dr. Thida Win (Myanmar)
- Mr. Stanley Langer (The Royal Society of Chemistry, UK)

ABSENT

Member Societies

- The Chemical Society of Pakistan
- Indian Chemical Society
- Mongolian Chemical Society

Observer Societies

- Himpunan Kimia Indonesia
- Papua New Guinea Institute of Chemistry
- The Mendeleev Russian Chemical Society
- Iraqi Chemists Union

AGENDA

1. Opening Remarks
2. Apologies
3. Confirmation of National Delegates and Voting Members
4. Approval of the 12th GA Minutes (Oct. 20, 2003, Hanoi, Vietnam)
5. Matters Arising from the 12th GA
6. Report of the FACS President (Prof. Ho Si Thoang)
7. Reports of the Past President (Prof. Barry Noller)
8. Reports of the President-Elect (including the Preparation of the 11th ACC) (Prof. Junghun Suh)
9. Reports of the Secretary General (Prof. Hyunh Van Trung)
10. Reports of the Treasurer (Datuk Dr. Ting-Kueh Soon)
11. Reports of the Coordinator of the Projects (Prof. Ito Masato)
12. Reports of the Project Directors
13. Reports of the Chairman of the Publications (Dr. San Thang)
14. Announcement of 2005 FACS Award (Prof. Ho Si Thoang)
15. Approval of the FACS Manual Operation (Prof. Barry Noller)
16. Report on Progress of the 12th ACC and the 14th GA (Datuk Dr. Ting-Kueh Soon)
17. Proposal of hosting the 13th ACC and the 15th GA
18. Other Businesses
19. Announcement of New EXCO Members
20. Closing

1. Opening Remarks (Prof. Ho Sy Thoang)

Prof. Ho Sy Thoang made an opening remark and expressed his warm welcome to all national delegates, EXCO members, project directors and co-directors, distinguished invited guests, and observers. He also mentioned that he was very satisfied with the arrangements made by the Korean Chemical Society and the Local Organizing Committee and expressed his sincere thanks to them for the preparation of the 13th GA and the 11th ACC on behalf of the EXCO members and all the representatives of the member societies. Referring ~2000 participants and large numbers of symposia, he also mentioned that the 11th ACC seemed to be the biggest ACC in its history. He expressed his best wishes for the success of the 11th ACC. He also mentioned that himself, Prof. Noller, the Past President, and Prof. Suh, the President-Elect would be sharing the

chairmanship of this meeting.

2. Apologies

A. From Member Societies:

National representatives from The Chemical Society of Pakistan, Indian Chemical Society, and Mongolian Chemical Society were absent without sending prior excuses.

B. From Observer Societies

National representatives from Himpunan Kimia Indonesia, Papua New Guinea Institute of Chemistry, The Mendeleev Russian Chemical Society, and Iraqi Chemists Union were absent without sending prior excuses.

3. Confirmation of National Delegates and Voting Members

By the request of the President, Dr. Soon, Treasurer confirmed the presence of 19 member societies out of 22 financial members who have the voting rights. So, the number of participants passed the quorum.

4. Approval of the 12th GA Minutes

The minutes the 12th GA were approved without amendments but with the following two corrections.

1. On page 23 under 20c, Prof. Fernando of '*the Bangladesh Chemical Society*' should be changed to Prof. Fernando of '*the Institute of Chemistry, Ceylon*'.
2. On page 23 under 20d, 'Activity on Federation of Asian *Medical Chemistry*' to be 'Activity on Asian Federation for *Medicinal Chemistry*'.

5. Matters Arising from the 12th GA (Prof. Barry Noller)

Prof. Noller identified the following 'matters arising' and requested some items should be discussed under other items in the Agenda.

1. The refund to Dr. Sally Broker, the distinguished young chemist, for her travel expense was made. This matter was resolved.
2. Prof. Ho will change the FACS statutes of item 5.7 in relation to "the creation of a foundation". The matter arising was to report some models of foundation to the 13th GA, which is implementation of them. So, this matter should be moved to other business.

- The 12th GA asked incoming EXCO to create a subcommittee comprising of Dr. Soon, Dr. Galbraith, Prof. Noller, and Dr. Thang to develop the arrangement plan to put EXCO and subsequent GA. This item was discussed under other business.
- Delay the inauguration of a FACS Award (proposed in Brisbane) to the Distinguished Contribution to the Advancement of Environmental Chemistry because it will be a financial burden to the FACS to put the award in place. One of the suggestions was to seek sponsorship for that award. So this is still a proposed statement of this award until the 13th GA. This matter was discussed under item 14 (FACS Award) of the Agenda.
- EXCO should update the list of the FACS Fellows and awarding of the certificates to the Fellows should be undertaken.
- EXCO should come up with a complete operations manual (OM) and make OM available on the FACS website, and produce hardcopies to go with the minutes. The OM should also include the statutes. OM was essentially in place at that time, and there were a few additional inclusions. This was discussed under item 15 (Approval of FACS OM).
- The important dates of the 11th ACC and the 13th GA were announced. The 12th GA asked Prof. Suh and Prof. Yoon to shift the dates slightly so that they can align with the IUPAC meeting in Beijing. This matter was resolved.
- A North Korean delegate was asked to come to the 12th GA and make contacts with other people. But it was proved to be too difficult.
- The ASOMPS XI conference was held in Kunming in 2003. This was held back to back with the 10th ACC meeting in Hanoi. The future ASOMPS conferences were put in place ASOMPS 12, 13 (2008), 14 (Pakistan, 2010)...The ASOMS 12 will be held in Padang in Indonesia this year (2006).
- Negotiations were undertaken with the Chemical Society of Thailand to have the 25th anniversary of FACS in Bangkok. 13th GA thanked the Chemistry Society of Thailand for hosting the event.
- Prof. Fernando of the Institute of Chemistry,

Ceylon, Sri Lanka, proposed to host the EXCO meeting. Indeed that was held in April 2004, and it was a very successful EXCO meeting.

6. Report of the President (Prof. Ho Si Thoang)

He mentioned the following four EXCO meetings and other activities.

- 44th EXCO meeting (Hanoi, Vietnam), during the 10th ACC, October 2003
 - The matter to implement the decision of the 12th GA was discussed.
 - Conduct the projects and sub-projects approved by the GA.
 - Discussed the methods of celebrating the FACS Silver Jubilee
- 45th EXCO meeting (Colombo, Sri Lanka), April 2004
 - He thanked the Chemical Institute of Ceylon for hosting it.
 - All EXCO members were invited to attend and give a lecture at the conference on chemical education organized by the Institute.
- 46th EXCO meeting (Bangkok, Thailand), October 2004
 - Celebration of the FACS Silver Jubilee was conducted at the place where FACS was established.
 - Prof. Leiv Sydnes, the IUPAC president, and many key persons of the Chemical Society of Thailand, including the first President of FACS participated.
 - Many congratulatory speeches were made.
 - It provided a forum on the theme of "Cooperative Development of Chemistry in Asia". Many innovative ideas on how to develop the cooperation between chemists from different countries of the region, and how to improve the activities of FACS.
 - A good preparation was made by the Thai colleagues and by the FACS EXCO.
- 47th EXCO meeting (Ho Chi Minh city, Vietnam), April 2005
 - Dr. Ahmed Nafis from UNESCO Asia Office in Jakarta and two observers from Cambodia were invited to the meeting.
 - Dr. Nafis said that "UNESCO Asia is designed to strengthen the relationship with FACS for the

advancement of chemistry in this region". He also mentioned that in the future the UNESCO Asia will provide appropriate support to FACS.

- Prof. Thoang expressed his wishes to expand joint activities and cooperation with UNESCO Asia for the development of chemistry and chemical engineering in Asia.

5. Other activities

Projects: Asian Analytical Chemistry Network, Asian Chemical Education Network, Asian Chemical Information Network, Asian Network for Environmental Chemistry, Asian Pacific Food Analysis Network, Green Chemistry, Medicinal Chemistry, and Natural Products.

Sub-projects: Asian network for Research on Antidiabetic Plants, Low-Cost Instrumentation, Micro scale Chemistry, and Professional Ethics in Support of Chemical Disarmament (terminated).

FACS webpage: Maintained by Prof. Xiao Li in China. A critical comment was raised during the 47th EXCO meeting in Hanoi for the very poor contents of the webpage. The quality of the webpage has improved a little after that.

FACS newsletters: Two issues have been produced by Dr. San Thang with the support of Datuk Dr. Ting-Kueh Soon by printing them in Malaysia.

7. Report of the Past President (Prof. Barry Noller)

He said that he would not fade away. He would find something else to do to ensure that FACS keeps going on its track. He said that member societies want to run the ACC and that this is the strength of our future. He added that "all members are equal in the FACS, every society should have its turn as long as the member societies accept, and as long as they can". He said that he would always be available to give advice particularly what happened in the past, and to sustaining the way.

8. Reports of the President-Elect (Prof. Junghun Suh)

He explained details about the preparations for the 11th ACC; 26 symposia, 12 general sessions, 5 plenary lectures including three Nobel laureates' lectures, 3 FACS award lectures, 216 invited oral presentations, 124 contributed oral presentations, and 862 contributed poster presentations. Out of the total number of presentations, ~1300, Korea contributed

~700, Japan 134, Iran 90, China 68. He also mentioned that the local organizing committee invited at least one speaker as the invited lecturer from each member society in addition to the national representatives so that at least two people can attend the 13th GA or the 11th ACC. He also mentioned how fast ACC has grown up and a welcome reception, a concert after that, and a conference banquet.

9. Reports of the Secretary General (Prof. Hyunh Van Trung)

He mentioned that he had prepared for the 44-47th EXCO meetings and the 12th GA and the corresponding Minutes and the agenda for the 13th GA. He thanked the EXCO members and the member societies for the support and cooperation. He wished FACS to continuously prosper in the future.

10. Reports of the Treasurer (Datuk Dr. Ting-Kueh Soon)

The financial status of FACS was healthy, but not strong. The deposits at the IKM Maybank and RACI accounts as of 31/12/2004 were

1. In Malaysia

Maybank Current Account	No. 562525-177723	RM 20,251.28
Maybank Fixed Deposits	No. 212530-064600	RM 102,920.87
Total		RM 123,172.15

2. In Australia

Account No 2-0165, RACI		AUS\$53,766.03
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As of 31/07/2005

1. In Malaysia

Maybank Current Account	No. 562525-177723	RM 43,505.52
Maybank Fixed Deposits	No. 212530-064600	RM 106,721.15
Total		RM 150,226.67

2. In Australia

Account No 2-0165, RACI		AUS\$ 52,777.61
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He mentioned that there was normally a surplus of about RM 20,000 in the IKM accounts each year and interest accrued in the RACI account. The incomes of the Federation come mainly from the membership dues

and interest from fixed deposit accounts. The FACS funds are mainly used to pay seed monies for various projects, printing of FACS Newsletter, postage, IUPAC fee, and other incidental expenses.

He emphasized that if a member society does not pay the due for two years then the society is downgraded to an observer society. He asked EXCO to look seriously Iraq, Nepal, and Russia, and suggested the 13th GA to accept Cambodia and Laos as active members without having to pay the dues for the first 5 years. He suggested that this issue should be brought up during the next EXCO meetings.

He asked the project directors to follow the guide lines set up by the EXCO since this would make the work much easier for the project coordinator and treasurer to do the work. The submission of the proposal must be done before it. This would make the project director easier to report to the EXCO meeting and it would make it easier for the treasurer to make the payment.

Datuk Dr. Soon mentioned that the treasurer's report should be made earlier, sent to every body, and posted on our website. He also suggested the following subscription fees.

- *First category*: 600 USD
6 countries: Japan, China, Korea, Australia, Taipei, and Kuwait.
- *Second category*: 300 USD
6 countries: Malaysia, Singapore, Thailand, Israel, Hong Kong, New Zealand
- *Third category*: 120 USD
- *Fourth category*: Exemption of dues for the first 5 years.

Chemical Society of South Pacific asked that '*Chemical Society of South Pacific*' should be changed to '*Chemical Society of Fiji*' since South Pacific is not the country name.

President of the Kuwait Chemical Society asked why the annual subscription fee varies from a country to another. He also expressed his wishes to have the agenda before the GA to have enough time to review it before attending the GA.

11. Reports of the Coordinator of the Projects (Prof. Masato Ito)

1. The 2004-2005 term started with seven projects and four sub-projects.

A. Seven Projects

- *Asian Network of Analytical Chemistry (ANAC)*
Director: Masaaki Tabata (Japan)
Co-Director: Hasuck Kim (Korea)
Activity: - Collaboration with Asianalysis VII (2004 July, Hong Kong)
- Collaboration with the 11th ACC (2005)
- *Asian Chemical Education Network (ACEN)*
Director: J. N. Oleap Fernando (Sri Lanka)
Co-Director: Zuriati Zakaria (Malaysia)
Activity: - Conference on Chemical Education (2004 April, Colombo)
- Symposium at the 11th ACC (2005)
- *Asian Chemical Information Network (ChIN)*
Director: Xiaoxia Li (China)
Co-Director: Yoshimasa Takahashi (Japan)
Activity: (Maintenance of ChIN Home Pages)
- Collaboration with the 11th ACC (2005)
- *Asian Network for Environmental Chemistry (ANEC)*
Director: Ross Sadler (Australia)
Co-Director: Jae Oh (Korea)
Activity: - Conference on Ecological Risk Assessment Formation of the eRAMS Network (2004 April, Adelaide Australia)
- Training course on POPs in the Marine Environment (Geoje, Korea and Gold Coast, Australia)
- Symposium at the 11th ACC (2005)
- *Asian Pasific Food Analysis Network (APFAN)*
Director: Pieter Scheelings (Australia)
Co-Director: Julia Kantasubrata (Indonesia)
Activity: - Symposium at the 11th ACC (2005)
- *Green Chemistry (GC)*
Director: Chee-Cheong Ho (Malaysia)
Co-Director: Takashi Tatsumi (Japan)
Activity: - Mini-Symposium on Green Polymers (2004 Sep., Kuala Lumpur, Malaysia)
(Planning a network on Green Chemistry in Asia)

- *Medicinal and Natural Products Chemistry* (MNPC)

Director: David Winkler (Australia)

Co-Director: Le Thi Anh Dao (Vietnam)

Activity: - 2004 Report Symposium at the 11th ACC (2005)

B. Four Sub-Projects

1. *Asian Network for Research on Anti-diabetic Plants* (ANRAP)

Director: M. Mosihuzzaman (Bangladesh)

Activity: - 4th ANRAP International Seminar (2004 January, Kolkata, India)
 - ANRAP Regional Seminar, (2005 January, Kuala Lumpur, Malaysia)
 - National Seminar (2005 April, Dhaka, Bangladesh)

- *Low-Cost Instrumentation-Microscale Chemistry* (LCI-MS)

Director: Winghong Chan (Hong Kong)

Activity: - a mini-symposium at Asianalysis VII (2004 July, Hong Kong)

- *Low-Cost Publication* (LCP)

Director: Prof. Krishna Sane (India)

Activity: (Nothing was reported)

- *Professional Ethics in support of Chemical Disarmament* (PECD)

Director: John Webb (Australia)

Activity: (Proposed a mini-symposium at the 11th ACC but cancelled)

2. Reports from projects and sub-projects will be published electronically on the FACS web page (<http://www.facs-as.org/>).
3. The seed money actually disbursed by the Treasurer was USD 1450 in 2004 and USD 2150 in 2005 by August (USD 500 more has been proposed but not yet requested).
4. An important thing is not whether the project uses the seed money but whether the project is active.
5. The enhancement of communication and network among chemists in each project field in the Asia Pacific region is important, although the outcome may not be visible, compared with the meetings, workshops, symposia.

On sub-projects

- In the past, each sub-project was placed after one of the projects, as if the sub-project belongs to the project. In this term, however, all the sub-projects are placed in the table of “FACS Projects” independently, since sub-projects are merely limited in regional size, the number of people involved, or the scale of activity.
- This is because sub-projects have been working in an independent manner rather than under the control of any projects and because some of the current sub-projects, such as LCI/MSI and PECD are difficult to place under any of the existing projects.
- The hierarchic structure might discourage the new proposals of projects and sub-projects in the future.
- One experienced director proposed that the name should be revised, such as ‘mini-project’ and ‘smaller project’.
- The revision of the name “sub-project” might require amendment of FACS Statute. 6) This issue will be carried forward for consideration by the next Coordinator of Projects and EXCO members.

New Sub-projects in 2006-2007

The proposals for continuation, renewal, and new application of the projects in the next term were examined by the EXCO. The directors of sub-projects LCP and PECD offered their termination. The proposals of ANRAP and LCI/MSI for requesting upgrade were under consideration.

Proposals of new sub-projects :

- Novel Methods of Bioconversion of Bioactive Terpenes
- Electronic Publication in Chemical Education (EP)

RACI President, Dr. Soon, Prof. Noller, and others raised concerns that the proposed two new sub-projects are not appropriate. Therefore, the report by Prof. Ito was accepted with an amendment that the proposed two new sub-projects have to involve more people from different countries.

Datuk Dr. Soon proposed that the sub-project

“Professional Ethics in support of Chemical Disarmament” should be restructured and Mr. Chang Hon Fong (Director, Jabatan Kimia Malaysia, Jalan Sultan, 46661 Petaling Jaya, MALAYSIA Tel: 603 7985 3012, Fax: 603 7985 3014, Email: hfchang@kimia.gov.my) should be included as the director of the sub-project since he is the national representative to the UN Chemical Weapon Convention.

12. Reports of the Project Directors

Project directors or sub-project directors did not present their reports.

13. Reports of the Chairman of the Publication (Dr. San Thang)

1. The production of the newsletter was moved from Taiwan to Malaysia to take advantage of their lower production cost for the last two years.
2. Two issues of the FACS newsletter have been published.
The first one commemorated the occasion of the Silver Jubilee celebration of the FACS in Bangkok in 2004.
The second one was just published to mark the 11th ACC and the 13th GA.
3. He also mentioned that he had completed the task to draft the related section of the FACS operation manual.

14. Announcement of 2005 FACS Awards (Prof. Ho Si Thoang)

1. *FACS Foundation Lectureship*: Prof. Kazunari Taira, Dept. of Chem. and Biological Technology at the University of Tokyo, Japan.
2. *FACS Distinguished Young Chemists Award*: Prof. Jin Young Lee, Dept. of Chem. at Chonnam National University, Korea.
3. *FACS Award for Distinguished Contribution to Economic Advancement*: Dr. Wu-Hsun Cheng, Union Chemical Laboratories in Taipei.
4. *FACS Citations for Contributions to Chemistry in the Asia-Pacific Region*: Prof. Tahsin Chow, Chemical Society located in Taipei.
5. No award was recommended on the *FACS Award for Distinguished Contribution to Advancement in Chemical Education*.

The following 36 individuals were newly elected as

FACS Fellows.

1. Prof. Xiao Zeng You (China), FACS Foundation Lectureship 1995
2. Prof. Atta Ur Rahman (Pakistan), FACS Foundation Lectureship 1997
3. Prof. Akira Fujishima (Japan), FACS Foundation Lectureship 1999
4. Prof. Paul Haddad (Australia), FACS Foundation Lectureship 2001
5. Prof. Chi Ming Che (Hong Kong), FACS Foundation Lectureship 2003
6. Prof. Li Biaoguo (China), FACS Distinguished Contribution to Economic Development 1993
7. Dr. Ma Conception Lizada (Philippines), FACS Distinguished Contribution to Economic Development 1995
8. Dr. Choo Yuen May (Malaysia), FACS Distinguished Contribution to Economic Development 1997
9. Dr. Abdul Razak Mohd Ali (Malaysia), FACS Distinguished Contribution to Economic Development 1999
10. Dr. Jong-Kee Yeo (Korea), FACS Distinguished Contribution to Economic Development 2001
11. Prof. Charles Fogliani (Australia), Distinguished Contribution to the Advancement in Chemical Education 2003
12. Prof. Fortunato Sevilla III (Philippines), FACS President 1995 - 1997
13. Prof. Hitoshi Ohtaki (Japan), FACS President 1997 -1999
14. Dr. Johnsee Lee (Taipei), FACS President 1999 - 2001
15. Prof. Barry N. Noller (Australia), FACS President 2001 - 2003
16. Prof. Ho Si Thoang (Vietnam), FACS President 2003 - 2005
17. Dr. Sim Keng Yeow (Singapore), FACS Citation 1995
18. *Dr. M. Hanoosh (Iraq), FACS Citation 1995 (deceased)
19. Howard Bradbury (Australia), FACS Citation 1997
20. Prof. John Webb (Australia), FACS Citation 1997
21. Prof. Amando Kapauan (Philippines), FACS Citations 1997

22. Philip Mariot (Australia), FACS Citation 1999
23. Prof. H. Akimoto (Japan), FACS Citation 2003
24. Prof. K. V. Sane (India), FACS Citation 2003
25. Prof. S. H. Goh (Singapore), FACS Citation 2003
26. Dr. John Kingston (Australia), FACS Citation 1991
27. Dr. Jack Cannon (Australia), FACS Citation 1991
28. Prof. Dr. Her Royal Highness Princess Chulabhorn Mahidol (Thailand)
29. Prof. Aaron Ciechanover (Israel), Nobel Laureate
30. Prof. Avram Hershko (Israel), Nobel Laureate
31. Sir John Warcup Cornforth (Australia), Nobel Laureate
32. Prof. Ryoji Noyori (Japan), Nobel Laureate
33. Hideki Shirakawa (Japan), Nobel Laureate
34. Koichi Tanaka (Japan), Nobel Laureate
35. Yuan T. Lee (Taiwan), Nobel Laureate
36. Leiv K. Sydnes (Norway), President of IUPAC

* (Dr. Hanoosh was from Iraq, but he retired in Jordan. He is deceased. When he was President of the FACS, he was from Iraq.)

In addition, the following proposals were unanimously accepted.

- 1) Elect those who received the Nobel laureate during the time when his society is the member society of FACS
- 2) The next EXCO meeting will discuss how to deliver the certificates.
- 3) Awardees airfare is paid in full by FACS.
- 4) The local chemical society or organizing committee takes care of hospitality expenses.

15. Approval of the FACS Operation Manual (Prof. Barry Noller)

1. The inclusion of the following items into the OM was accepted.
 - No. 9: FACS newsletter & Publication of Procedure (proposed by Dr. Thang)
 - No. 10: FACS Web Page (proposed by Dr. Thang)
 - No. 11: List of FACS Fellows (proposed by Prof. Thoang)
2. Future EXCO will take a closer look at the statutes.
3. Some inconsistencies in the statutes are needed to be dealt with in a systematic way by the EXCO.

This should be dealt with at the next General Assembly.

4. The OM can be placed on the FACS web page.

16. Report on Progress of the 12th ACC and the 14th GA (Datuk Dr. Soon)

1. The first flyers were distributed. The IKM considers 10 general sessions. The proposed dates were 11-14 September, 2007 to avoid clashes with IUPAC. The venue is Convention Center which has many good facilities as well as a venue for exhibition.
2. IKM is organizing a local organizing committee and International Advisory Committee. For the plenary lecturers, IKM is currently considering Prof. Yuan T. Lee and John Walker, UK (Nobel laureates), and other NLs from the US & Japan.
3. IKM wants to make it a big event since 2007 is also the 40th Anniversary of the IKM and the 50th Anniversary of Malaysia's independence, the Golden Jubilee of Independence of Malaysia. So the Malaysian Government will be involved in the process and will help to make it a good program.
4. Datuk Dr. Soon pledged that IKM will do its best to make a good Congress and it would provide a good local hospitality. Prof. Ho endorsed what Dr. Soon said.

17. Proposal of Hosting the 13th ACC and the 15th GA

FACS has received 3 applications from Thailand, Pakistan, and China. However, GA has agreed not to consider Pakistan in the vote for this bid because Pakistan's representatives did not attend the GA. The presentations of the proposals were done in alphabetic orders (China and Thailand). Prof. Sydnes and Dr. Ahmed from UNESCO counted the votes. After voting, China won 13 votes and Thailand won 6 votes out of total 19 votes.

18. Other Businesses (Prof. Junghun Suh)

18-1. On Foundation

Prof. Noller: Dr. Soon will become the chairman of the subcommittee for Foundation. EXCO should discuss on how to carry this out. It is a long term development and it might take some time to get everything in place.

Dr. Soon: The purpose of the Foundation is to set up a fund for FACS. FCAS is financially healthy,

but not strong. Look for various models to get some funding from some multinational company, or from Australian companies. Look for some models and put out proposals so that EXCO to have a look and that the next GA decides. He said that he would circulate this to the member societies much earlier so that they can study carefully before coming to next GA.

President of Kuwait Chemical Society suggested learning lessons and experience from IUPAC and the American Chemical Society.

IUPAC President said that it is a struggle even for IUPAC to get money from industries. And he said that IUPAC does not get whole a lot. IUPAC cannot simply go to industries and ask for money. It is necessary to have a concrete action plan and the concrete projects. There is more money available if you act accordingly.

ACS representatives also said that fund raising is equally challenging to ACS. All of their international programs are funded from external sources.

Prof. Ho asked “Who will govern the Foundation and who will be in charge of the Foundation?”

Prof. Suh mentioned that legalization of FACS should precede the working on Foundation.

Prof. Matsumoto asked whether there would be a possibility of a chemical society to take some responsibilities for raising fund even before legalization of FACS.

Prof. Suh replied that we need time to investigate all different possibilities.

Prof. Noller mentioned that the foundation should be separated from a discreet chemical society so that the chemical society does not have the burden of responsibility for running the foundation. At the same time FACS needs to be able to steer what that foundation does, but it does not want to have internal responsibility for managing the money. Out of many different models, this is just one model.

Prof. Battaglia (Past President of EuChemMS) said that it is necessary to know where the foundation will be located, identify the country, then find out how you are going to register as a society without an economical means, without businesses in order to avoid taxes. There are countries in which foundations are usually tax-exempted, find out somebody who will be able to run the office. Then you have to go through the legal processes.

IUPAC President described the history of IUPAC secretariat's moving around.

Dr. Soon was assigned to work on this matter (Foundation) in more detail including the legalization of FACS. He will chair the subcommittee to make further investigation.

18-2. On Having a Honorary Secretariat at RACI

RACI President explained their intention. However, this proposal was not accepted. It was concluded that EXCO should look into this proposal and check the FACS statute, and come up with a proper recommendation

18-3. On the Future EXCO Meeting Sites

Four proposals were received from

- 1) Bangladesh, Dhaka in 2006 between Dec. 7-10 while in conjunction with the Chemical Congress in Bangladesh.
- 2) Japan, at the end of March 26-30, 2006 in conjunction with the annual meeting in the Chemical Society of Japan. Also proposed 1 day or 1 and half day symposium for the areas relevant to ACC. The date of the domestic meeting is from March 26-30.
- 3) China, Shanghai, upon request by Prof. Suh.
- 4) Kuwait, around December 2006

Prof. Suh mentioned that EXCO has the right to decide the site.

Prof. Noller mentioned that it is worth considering how to strengthen the FACS's involvement in Pacificchem to consider that particular unique role of Pacificchem in the context of engaging with other chemical societies.

18-4. On the Changes of Society Names.

The Chemical Society of South Pacific asked that ‘*Chemical Society of South Pacific*’ should be changed to ‘*Chemical Society of Fiji*’ since South Pacific is not the country name.

The representatives from Philippines mentioned that ‘*the Integrated Chemistry of Philippines*’ has changed to the ‘*Philippine Federation of Chemical Societies (FPCS)*’.

19. Announcement of New EXCO Members (Prof. Junghun Suh)

Prof. Junghun Suh (Korea), President
Prof. Ho Si Thoang (Vietnam), Past President
Datuk Dr. Ting-Kueh Soon (Malaysia), President-Elect*

Prof. Kyung Byung Yoon (Korea), Secretary General

Dr. San Thang (Australia), Treasurer

Dr. Tahsin Chow (Taiwan), Coordinator of Projects

Prof. Doo Soo Chung (Korea), Chairman of Publications

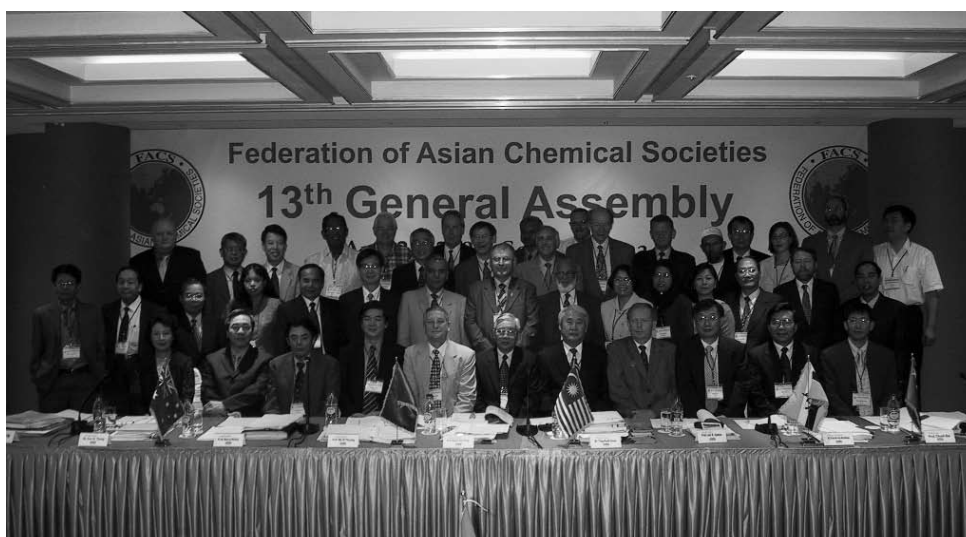
*President of Institute of kimia Malaysia (Prof. Ho) nominated Dr.

Soon to be the next President-Elect.

20. Closing

Prof. Thoang expressed his deep appreciation to all participants of the meeting of the Federation, the representatives of member societies, observers, and

invited guests. Especially, to Prof. Sydnes, Dr. Nafis, Dr. Campbell, and Prof. Battaglia for attending the GA. He also expressed thanks to Prof. Noller and Prof. Ito who are leaving the composition of the EXCO. He also extended his thanks to the Korean colleagues for the preparations. He also added that “I hope this Congress will be very fruitful and will mark the very big contributions of the Korean Chemical Society to the activities of the Federation of the Asian Chemical Society. I also would like to hope that the next Congress and GA at Kuala Lumpur will be carried out successfully, and further we will go to Shanghai”.



Participants of the 13th FACS General Assembly



New FACS Fellows

(Left to Right)

Dr. San S. Thang (Royal Society of Chemistry)

Prof. Yuan T Lee (Chemical Society Located in Taipei)

Prof. Ho Sy Thoang (Chemical Society of Vietnam)

Prof. Barry Noller

Minutes of the 51st EXCO Meeting

April 14-15, 2007, Regal International East Asia Hotel, Shanghai, China

PRESENT

EXCO Members

- Prof. Junghun Suh (Korean Chemical Society),
President
- Prof. Ho Si Thoang (Chemical Society of Vietnam),
Past President
- Datuk Dr. Ting-Kueh Soon (Institut Kimia Malaysia),
President-Elect
- Prof. Kyung Byung Yoon (Korean Chemical Society),
Secretary General
- Dr. San Thang (Royal Australian Chemical Institute),
Treasurer
- Prof. Tashin J. Chow (Chemical Society Located in
Taiwan), Coordinator of Projects
- Prof. Doo Soo Chung (Korean Chemical Society),
Chairman of Publications

Observers

- Prof. Barry Noller (Royal Australian Chemical
Institute), Past Past President
- Prof. Zuriati Zakaria (Institut Kimia Malaysia),
Secretary-General Elect
- Prof. Long Lu (Chinese Chemical Society)
- Dr. Sun Yeoul Lee (Korean Chemical Society)

ABSENT

1. Opening Remarks
2. Apologies
3. Approval of the 50th EXCO Meeting Minutes
4. Matters Arising from the 50th EXCO Meeting
5. Report of the President
6. Report of the Past President
7. Report of the President-Elect
8. Report of the Secretary General
9. Report of the Treasurer
10. Report of the Coordinator of Projects
11. Report of the Publication Chairman
12. Progress Report of the Preparation for the 12th
ACC & the 14th GA
13. Report of the Preparation for the 13th ACC &

the 15th GA

14. Other Business

1. Opening Remarks (Prof. Junghun Suh, President)

Prof. Junghun Suh, the FACS President welcomed all for attending the meeting. He thanked Prof. Long Lu for the kind arrangement for the 51st EXCO meeting. He then introduced observers to the EXCO members.

2. Apologies

All EXCO Members were present.

3. Approval of 50th EXCO Meeting Minutes

Secretary General presented the draft of the Minutes of the 50th EXCO Meeting, held in Kuwait City, Kuwait, on December 8-9, 2006. The draft was approved and accepted after making some corrections and additions. Major corrections were:

[50th EXCO Meeting Agenda: 9. Report of the Treasurer (Dr. San Thang)]

(iv) *Reimbursed an equivalent of ¥10,500 in USD to Prof. Kyung Byung Yoon for the cost associated with the Late Prof. Hitoshi Ohtaki's funeral floral tributes, replacing*

(iv) *Reimbursement of ¥ 10,500 will be made to Prof. Kyung Byung Yoon in USD for the cost associated with the Late Prof. Hitoshi Ohtaki's funeral floral tributes.*

[50th EXCO Meeting Agenda: 14. Other Business]

(11) *Secretary General gets bids from IKM and RACI for holding the honorary secretarial office of FACS, replacing*

(11) *SG received two official biddings from IKM and RACI for holding the honorary secretarial office of FACS for four years.*

4. Matters Arising from the 50th EXCO Meeting

(1) A proposal was received from RACI on the amendment of the FACS Statutes regarding the addition of *Secretary General Elect* to *FACS*

Statutes Section 2.3 EXCO members include

- (2) No member societies submitted proposals on the legalization of FACS in their countries.
- (3) SG received nominations for FACS Awards and Citations from some members societies as follows.

A. FACS Foundation Lectureship (Physical Chemistry)

No.	Member Society	Nominee
1	Bangladesh Chemical Society	Prof. Abu Jafar Mahmood
2	Chemical Society of Japan	Prof. Keitaro Yoshihara
3	Korean Chemical Society	Prof. Myung Soo Kim
4	Institut Kimia Malaysia	Prof. Emeritus Dr NG Soon
5	Chemical Society Located in Taipei	Prof. Kopin Liu
6-1	Chemical Society of Thailand	Prof. Jumrus Limtrakul
6-2	Chemical Society of Thailand	Prof. Supot Hannongbua

B. FACS Distinguished Young Chemists Award (Analytical Chemistry)

No.	Member Society	Nominee
1	Bangladesh Chemical Society	Dr. Mohammad Arifur Rahman
2	Chemical Society of Japan	Dr. Akihide Hibara
3	The Korean Chemical Society	Prof. Hoeil Chung
4	Chemical Society Located in Taipei	Dr. Yu-Ju Chen
5-1	Chemical Society of Thailand	Dr. Jaroon Jakmune
5-2	Chemical Society of Thailand	Dr. Thumnoon Nhujak
6	Chemical Society of Vietnam	Mrs. Ha Vu Thi Thu

C. FACS Award for Distinguished Contribution to Economic Advancement

No.	Member Society	Nominee
1	Bangladesh Chemical Society	Mr. Md. Hamidul Hoque
2	The Korean Chemical Society	Mr. Boo-Sup Lee
3	Institut Kimia Malaysia	Dato' Dr ONG Eng Long
4	Chemical Society Located in Taipei	Prof. Chi-Wi Ong

D. FACS Award for Distinguished Contribution to Advancement in Chemical Education

No.	Member Society	Nominee
1	Chemical Society of Japan	Prof. Yoshito Takeuchi
2	Chemical Society Located in Taipei	Prof. Mei-Hung Chiu
3-1	Chemical Society of Thailand	Dr. Bhinyo Panijpan
3-2	Chemical Society of Thailand	Prof. Pirawan Bhanumnavin

E. FACS Citations for Contributions to Chemistry in the Asia-Pacific Region

No.	Member Society	Nominee
1	Chemical Society of Japan	Prof. Hiroki Haraguchi
2	Chemical Society of Thailand	Prof. Udom Kokpol

- (4) EXCO will not accept two nominations from a member society for any type of FACS Awards.
- (5) Prof. Thoang Proposed that Chemical Education should be changed to Chemistry Education. Prof. Noller mentioned that this requires the change of FACS Statutes.
- (6) SG announced member societies to start bidding for holding the 14th ACC and 16th GA. Deadline was set to be the end of May.
- (7) Prof. Noller (Past Past President) provided SG with the background of ACGC (Asian Coordinating Group for Chemistry) and submitted a proposal to SG on the reestablishment of the formalized link between FACS and ACGC through sending a representative to ACGC meetings, linking the ACGC website, and keeping up the details of ACGC, its journal CRC, and ASOMPS conferences in the FACS webpage.

5. Report of the President (Prof. Junghun Suh)

- (1) Received a letter from the Chemical Society of Ethiopia to attend the 1st Annual Congress of the Federation of African Chemical Societies.
- (2) Recipients of 2007 FACS Awards were selected.

Types of Award	Awardees	Chemical Society
1 FACS Foundation Lectureship	Prof. Emeritus Dr. NG Soon	Institut Kimia Malaysia
2 Distinguished Young Chemists Award	Dr. Yu-Ju Chen	Chemical Society Located in Taipei
3 Distinguished Contribution to Economic Advancement	Mr. Boo-Sup	Lee Korean
4 Distinguished Contribution to Advancement in Chemical Education	Prof. Yoshito Takeuchi	Chemical Society of Japan
5 Citations	Prof. Masato Ito	Chemical Society of Japan

6. Report of the Past President (Prof. Ho Si Thoang)

- (1) In October 2006, I attended the IV National

Congress of the Chemical Society of Vietnam in Hanoi. In my speech on the Congress I gave necessary information on the activities of FACS generally and on the coming the 12th ACC in Kuala Lumpur particularly. Although everyone could download information from internet websites, I tried to distribute in time all the updated information on the 12th ACC and 10 EuAsC2S to the Chemical Society of Vietnam and its affiliates.

- (2) The Project of CSV on Chemical Terminology and Regulations in Vietnamese Writing Chemical Elements and Compounds led by myself is working hard and successfully. We almost accomplished the establishment of regulations for writing chemical elements in Vietnamese. The project should be accomplished in two years.
- (3) I have established contact with the official body for science and technology of Laos, and that was encouraged by Prof. Suh, but further activity for attracting Laotians to the FACS, especially to the meetings of FACS, should be decided by the EXCO and the host country.

7. Report of the President-Elect (Datuk Dr. Ting-Kueh Soon)

7-1. The 12th Asian Chemical Congress (12th ACC)

Preparation for the 12th ACC is progressing well. More than 1,500 delegates from over 50 countries are expected to participate in the 12th ACC. With 1,290 titles being presented, the 12th ACC ranks among the biggest ACCs ever held.

The Scientific Program of the 12th ACC comprises the following:

Plenary Sessions :

6 Plenary Lectures will be presented by the following eminent scientists:

- *Greenhouse effect and global warming*
Nobel Laureate Prof. F Sherwood Rowland (University of California Irvine, USA)
- *Chemistry, biology and medicine of natural products*
Prof. K C Nicolaou (Scripps Research Institute, USA)
- *Absorption and self-assembling of organic molecules-STM Study*
Prof. Chunli Bai (Chinese Academy of Sciences,

China)

- *Novel drug leads from biodiverse medicinal plants*
Prof. Douglas Kinghorn (Ohio State University, USA)
- *Waterphotolysis and photocatalysis—How to extend fundamental findings to actual applications*
Prof. Akira Fujishima (Kanagawa Academy of Science and Technology, Japan)
- *Challenges and visions for chemistry*
Prof. Jun-II Jin (Korea University, Korea)

FACS Awardees Lectures :

The 4 FACS Awardee Lectures are as follows:

- Foundation Lectureship Award
Carbon-¹³NMR relaxation studies in tetraphenyltin and tetra(p-tolyl)tin in solution
Prof. Emeritus Ng Soon (University of Malaya, Malaysia)
- Young Chemist Award Lecture
Deciphering the Proteome: New Methodologies for Functional and Targeted Proteomics
Prof. Yu-Ju Chen (Academia Sinica, Taipei)
- Distinguished Contribution to Economic Development Award Lecture
Chemicals for Semiconductors and Displays: Present, Future, and Dongjin Semichem's Pledge to Contribute to Society
Mr. Boo-Sup Lee (Dongjin Semichem co., Korea)
- Distinguished Contribution to Advancement in Chemical Education Award Lecture
Efforts to promote and globalize Asian Chemical Education
Prof. Emeritus Yoshito Takeuchi (University of Tokyo, Japan)

Four (4) Scientific Sessions :

- Inorganic, Organometallic and Bioinorganic Chemistry (IOB)
- Organic Chemistry: Mechanism and Syntheses (ORC)
- Physical and Theoretical Chemistry (PTC)
- Oils and Fats Chemistry and Technology (OCT)

Seven International/ Regional Symposia :

- International Symposium on Environmental and Green Chemistry (ECG)
- International Symposium on Food Analysis,

Chemistry and Technology (FACT)

- International Symposium on Innovation in Chemistry Education (ICE)
- International Symposium on Natural Products and Medicinal Chemistry (NPMC)
- International Symposium on Polymer and Materials Chemistry (PMC)
- Third Regional Symposium on Total Laboratory Management (QSEL) 2007
- Malaysian International Symposium on Analytical Sciences (SKAM-20) 2007

A total of 1,290 presentations, comprising 6 plenary lectures, 4 FACS Awardees Lectures, 113 keynotes, 417 orals and 750 posters would be made at the 12th ACC.

The **12th ACC Welcome Reception** will be held from 5.00-7.00 pm on Wednesday, August 22, 2007 at the Putra World Trade Centre, Kuala Lumpur.

The **12th ACC/IKM 40th Anniversary Dinner** will be held from 7.00-11.00 pm on Saturday, August 25, 2007 at the Merdeka Hall, Putra World Trade Centre, Kuala Lumpur.

7-2. FACS 14th General Assembly (14th GA)

The FACS 14th GA will be held from 10:00 am to 4:00 pm on Wednesday, August 22, 2007 at Dewan Tun Dr Ismail, Putra World Trade Centre, Kuala Lumpur, Malaysia. Close to 20 FACS member societies are expected to attend the 14th GA. Two new members from Iran and Saudi Arabia be admitted to FACS at the 14th GA.

The **FACS Welcome Dinner** will be held during 7:00-10:00 pm on Wednesday, August 22, 2007 at the Royal Selangor Club, Kuala Lumpur.

7-3. FACS 52nd EXCO Meeting

The FACS 52nd EXCO Meeting will be held during 2:30- 4:00 pm on Friday, August 24, 2007 at the Putra World Trade Centre, Kuala Lumpur. The new FACS EXCO for 2007/09 will be announced at this Meeting.

8. Report of the Secretary General (Prof. Kyung Byung Yoon)

- (1) Secretary General (SG) confirmed the next EXCO site (Shanghai) and the dates (April 14-15).
- (2) SG sent emails to the member societies to inquire whether there were any societies which were

willing to register FACS as the legal entity.

- (3) SG sent emails to the member societies asking them to propose the amendments of Statues by the end of February if necessary.
- (4) SG announced member societies to send recommendations for the FACS Awards and Citations.
- (5) SG asked CSJ to nominate Prof. Ito as the candidate for a FACS Citation.
- (6) SG asked the member societies to start bidding for holding the 16th GA and 14th ACC by the end of May.
- (7) SG asked IKM and RACI to bid for holding the honorary secretarial office of FACS.
- (8) SG has updated the mail and email addresses of the member societies and the new presidents.
- (9) SG has been trying to update the URLs of member societies. (Most of the member societies do not have their own websites.)

9. Report of the Treasurer (Dr. San Thang)

9-1. Treasurer reported the following.

- (1) The balance of the FACS account kept under RACI Ledger (Account No. 2-0165) was AUD 56,780.49 as at April 11 2007. There was a different amount of AUD 1522.85 since last report in December 2006 of which it is due to the interest earned for the year 2006.
- (2) The balance of the Foreign Currency Account (Account name: Federation of Asian Chemical Societies) in Commonwealth Bank of Australia as at Jan 8th 2007.

Account number: 100 640931 USD 1156 01 USD 2,919.25

There are three cheques received from the Chinese Chemical Society, the Chinese Chemical Society located in Taipei and the Nepal Chemical Society respectively for the 2006 subscription fees with a total of USD 1320.00 still to be cleared.

- (3) A dormant account kept in IKM with the following balance details as at March 31st 2007 (provided by Datuk Dr. Soon on April 10, 2007):

Maybank Current Account	No. 562525-177723
	RM 41,829.45
Maybank Fixed Deposits	No. 212530-064600
	RM 110,785.35
Total	RM 152,614.80

9-2. SG mentioned that KCS paid the annual due to SG.

9-3. Datuk Dr. Soon and Dr. San Thang were asked to provide the documents that the respective bank accounts belong to FACS.

9-4. Treasurer was asked to sum up the total amounts of income and expenditures in USD during the periods between the EXCO meetings and each year.

10. Report of the Coordinator of Projects (Prof. Tahsin J. Chow)

FACS Projects participating the 12th ACC are as follows:

(1) **ANAC** (Asian Network of Analytical Chemistry, Prof. Masaaki Tabata / Prof. Hasuck Kim)

In conjunction with Persatuan Sains Analisis Malasia (ANALIS) and other societies, ANAC will jointly organize the SKAM-20 symposium in the 12th ACC. Both Profs. Masaaki Tabata and Hasuck Kim serve in the organizing committee, and will give keynote lectures in the 12th ACC.

(2) **ACEN** (Asian Chemical Education Network, Prof. Zuriati Zakaria / Prof. Masato Ito)

ChIN (Asian Chemical Information Network, Prof. Xiaoxia Li / Prof. Yoshimasa Takahashi)

LCI-MS(subproject:Low-CostInstrumentation-Microscale Chemistry, Prof. Winghong Chan / Prof. Supawan Tantayanon)

The international symposium on Innovations in Chemistry (ICE) is a major component of the 12th ACC. Project ACEN has participated actively in this symposium. Both Profs. Zuriati Zakaria and Masato Ito will act as the Chairmen. Prof. Masato Ito will give a keynote lecture in this symposium, while Profs. Xioaxia Li, Wing-Hing Chan, and Supawan Tantayanon will provide invited keynote lectures in this symposium.

(3) **GC** (Green Chemistry, Prof. Chee-Cheong Ho / Prof. Takashi Tatsumi)

ANEC (Asian Network for Environmental Chemistry, Dr. Ross Sadler / Dr. Jae Oh)

Both Projects act jointly as the organizers of the international symposium on Environmental and Green Chemistry (EGC) in the 12th ACC. EGC will be chaired by Prof. Ho Chee Cheong, while Profs. Takashi Tatsumi, Ross Sadler, and Jae Oh are among the members of the organizing committee. Dr. Rose Sadler will give a keynote

lecture in this symposium.

(4) **APFAN** (Asian Pacific Food Analysis Network, Dr. Pieter Scheelings / Prof. Julia Kantasubrata) Symposium organizing committee chaired by Prof. Aminah Abdullah, faculty of science and technology, UKM has been set up in 2006 to progress the APFAN symposium which will be held in conjunction with the 12th ACC. Dr. Howard Bradbury, former coordinator of APFAN has been invited and has agreed to deliver the keynote address.

(5) **MCNP** (Medicinal and Natural Products Chemistry, Prof. David Winkler / Prof. Le Thi Anh Dao)

Profs. David Winkler and Zuriati Zakaria act as members of the organizing committee in the international symposium on Natural Products and Medicinal Chemistry (NPMC). Prof. Nordin Hj. Lajis will give a keynote lecture in this symposium.

11. Report of the Publication Chairman (Prof. Doo Soo Chung)

11-1. Mailing of the FACS Newsletter 1/2007

Member Societies

100 copies	Chinese Chemical Society
	The Chemical Society of Japan
	Korean Chemical Society
	Kuwait Chemical Society
50 copies	Royal Australian Chemical Institute
	Chemical Society of Fiji
	Hong Kong Chemical Society
	Indian Chemical Society
	The Israel Chemical Society
	Jordanian Chemical Society
	Institut Kimia Malaysia
	Mongolian Chemical society
	Nepal Chemical Society
	New Zealand Institute of Chemistry Inc
	The Chemical Society of Pakistan
	Philippine Federation of Chemistry Societies (PFCS)
	Singapore National Institute of Chemistry
	Chemical Society Located in Taipei
	Chemical Society of Thailand
	Chemical Society of Vietnam
6 copies	Bangladesh Chemical Society
(airmail)	Brunei Darussalam Institute of Chemistry
	Institute of Chemistry, Ceylon

Observers

30 copies Himpunan Kimia Indonesia
The Mendeleev Russian Chemical Society
Papua New Guinea Institute of Chemistry
*Iraqi Chemists Union; Mail service
unavailable

FACS Projects and Directors: 18 copies

EXCO Members: 4 copies

Life Members: 70 copies

Fellows: 9 copies

Advertisers: 80 copies

Total: 1579 copies

**11-2. Proposed contents of the FACS Newsletter
2/2007**

List of Contents

- Message from the FACS President
- 2007 Activities and New Presidents of the Member Societies: India, Japan, Pakistan, Singapore, Taipei, Thailand, Vietnam
- FACS Activities
 - Minutes of the 50th EXCO Meeting
 - Other Activities
 - Project Reports
 - FACS Awards
- Meeting Announcement:
 - 14th General Assembly
 - 12th Asian Chemical Congress
 - General Meeting Information
 - Technical Programming
 - Exposition and Exhibiting Companies
 - Social Activities
- Directories
 - FACS EXCO Members
 - Member Societies
 - Project Directors
 - FACS Fellows
 - Life Members
- Meeting Announcement:
 - 15th General Assembly
 - 13th Asian Chemical Congress at Shanghai

Deadline: June 30, 2007 (Firm)

Publishing Date: August 20, 2007

The FACS Newsletter will be distributed at the 14th General Assembly.

**12. Progress Report of the Preparation for the
12th ACC & the 14th GA (Datuk Dr. Ting-Kueh
Soon)**

Datuk Dr. Ting-Kueh Soon mentioned that the preparations for the 12th ACC & the 14th GA are undergoing smoothly.

**13. Progress Report of the Preparation for the
13th ACC & 15th GA (Prof. Long Lu)**

Prof. Long Lu described that the first meeting of the Local Organizing Committee (Chairman: Prof. Chunli Bai) will be held in May, 2007. The EXCO members will be invited to become the International Advisory Board members. The registration fee will include lunches and banquet. Participants from underdeveloped countries will have 50% discount in registration fee. During the 13th ACC, the special ceremony will be held to commemorate the 30 years of FACS.

14. Other Business

- (1) Application for a new membership was filed from Saudi Chemical Society. EXCO unanimously agreed to invite a representative from Saudi Chemical Society to the 14th GA.
- (2) Emails from Prof. Xiaoxia Li and Alexandria Monk (Marketing Coordinator, Taylor and Francis) regarding the placement of an advertisement on FACS Newsletter, Website, and others.
- (3) Dr. David Winkler proposal: Adopt the issue on 'Promote all FACS chemistry societies to become OPOs (Official Participating Organizations) to increase the participation from Asian countries to Pacificchem' as an agenda during the 14th GA.
- (4) Dr. Khalida M. Al-Dalama asked FACS to accept as Dr. Mubarak Al-Obaidi, FACS Fellow from Kuwait. The reason is not clear. - SG was asked to explain the conditions for the nomination of members as FACS Fellows.
- (5) Datuk Dr. Soon was requested to attend the 1st Congress of the Federation of the African Chemical Societies. There were discussions on the degree of financial support from FACS to the FACS President for the travel expenses for official trips.
- (6) Add in the FACS Operation Manual that "For each award, each member society should nominate only one candidate".

- (7) Receive proposals from RACI and IKM regarding the financial and other supports to hold the honorary Secretariat of FACS in the respective society.
- (8) Datuk Dr. Soon was asked to try legalizing FACS in Malaysia.
- (9) The Coordinator of Projects will attend the ACGC and ASOMPS meeting on behalf of FACS. It was concluded that FACS will support the CP USD 300.

Minutes prepared by:

Prof. Kyung Byung Yoon
Secretary General, FACS

Approved at the 52nd EXCO Meeting on August 22,
2007 in Kuala Lumpur, Malaysia

Prof. Junghun Suh
President, FACS



(Left to Right)

Prof. Barry Noller (Royal Australian Chemical Institute), Prof. Tashin J. Chow (Chemical Society Located in Taiwan), Dr. San Thang (Royal Australian Chemical Institute), Prof. Long Lu (Chinese Chemical Society), Prof. Ho Si Thoang (Chemical Society of Vietnam) and his wife, Datuk Dr. Ting-Kueh Soon (Institut Kimia Malaysia), Prof. Zuriati Zakaria (Institut Kimia Malaysia), Prof. Junghun Suh (Korean Chemical Society), Prof. Kyung Byung Yoon (Korean Chemical Society)

Minutes of the 52nd EXCO Meeting

August 24, 2007, Putra World Trade Centre, Kuala Lumpur, Malaysia

PRESENT

EXCO Members

- Datuk Dr. Ting-Kueh Soon (Institut Kimia Malaysia),
President
- Prof. Junghun Suh (Korean Chemical Society), Past
President
- Prof. Chun Li Bai (Chinese Chemical Society),
President-Elect
- Prof. Darin Dr. Zuriati Zakaria (Institut Kimia Malaysia),
Secretary-General
- Dr. San Thang (Royal Australian Chemical Institute),
Treasurer
- Prof. Tashin J. Chow (Chemical Society Located in
Taiwan), Coordinator of Projects
- Prof. Kyung Byung Yoon (Korean Chemical
Society), Chairman of Publications
- Prof. Long Lu (Chinese Chemical Society), Secre-
tary-General Elect

Observers

- Prof. Barry Noller (Royal Australian Chemical
Institute)
- Dr. Ross Sadler (Royal Australian Chemical
Institute)
- Dr. David Winkler (Royal Australian Chemical
Institute)
- Prof. Doo Soo Chung (Korean Chemical Society)
- Prof. Masaaki Tabata (The Chemical Society of
Japan)

ABSENT

All EXCO Members were present

AGENDA

1. Welcome
2. Approval of the 51st-EXCO Meeting Minutes
3. Matters Arising from the 51st-EXCO Meeting
4. President's Address
5. Report of the Coordinator of Projects
6. Report of the Publication Chairman

7. Venue of the Next EXCO Meeting
8. Other Business

1. Welcome Remarks

FACS President, Datuk Dr. Ting-Kueh Soon welcomed all members to the meeting. He reported that the 12th ACC is in progress and expressed satisfaction that the 12th ACC has been able to attract a large number of participants estimated at close to 1,700. He hoped that EXCO members are enjoying their stay in Kuala Lumpur and IKM is trying its very best to ensure the smooth operation of the 12th ACC.

Dr. Soon mentioned that the fees for the 12th ACC was low and that IKM had to raise money from the Malaysian Government, the exhibition and private sectors like PETRONAS. He cautioned that future ACC organizers may have to charge a more reasonable registration fee. However, a special rate should be offered for participants from the poorer countries or a subsidy be given to enable them to attend. For the 12th ACC, IKM managed to raise funds to support participants from Cambodia, Myanmar, Nepal and North Korea.

He also mentioned that on Sunday, IKM, IUPAC and the US State Department are jointly holding a "Workshop on Chemical Safety and Security in the 21st Century". The US State Department is keen to cooperate and jointly organize such workshops in Asia.

He proposed a vote of thanks to all the previous EXCO members, especially Prof. Ho Si Thoang as the Past President and Prof. Doo Soo Chung as Chairman of Publications.

He welcomed Prof. Chunli Bai and Prof. Long Lu as new EXCO members. He also welcomed Prof. Datin Zuriati Zakaria as the first lady Secretary-General of FACS. The new line-up of FACS EXCO for 2007/09 was announced at the 14th General Assembly.

Datuk Dr. Soon also expressed his sincere thanks to Prof. Junghun Suh for steering the FACS during the last 2 years.

2. Approval of the 51st EXCO Meeting Minutes

The Secretary General presented the draft of the Minutes of the 51st EXCO Meeting held from April 14-15, 2007 at the Regal International East Asia Hotel, Shanghai, China. These Minutes were prepared by the former Secretary General, Prof. Kyung Boon Yoon. The draft was approved and accepted after some amendments were made as follows:

Page 1, line 7: (*Chemical Society Located in Taipei*) replacing (*Chemical Society Located in Taiwan*).

Page 3, line 6: Add the word '*replacing*' at the end of line.

Page 3, line 11: Add the word '*replacing*' at the end of line.

Page 9, line 14: Replace '*Total: RM 151,614.80*' with '*Total: RM 152,614.80*'.

Page 12, line 34: Replace '*During the 12th ACC*' with '*During the 13th ACC*'.

Page 13, line 2: Replace '*EXSO*' with '*EXCO*'.

Page 13, line 19: Replace '*fro*' with '*for*'.

Page 13, line 21: Replace '*only one nomination*' with '*only one candidate*'.

The minutes of the 51st EXCO Meeting were adopted after they were proposed by Dr. San Thang and seconded by Prof. Doo Soo Chung.

3. Matters Arising from the 51st EXCO Meeting

- (1) On item (4), the EXCO agreed that in the future, EXCO will not accept more than one nomination from a member society for each category of FACS award.
- (2) On the proposal of Prof. Thoang in item (5) that Chemical Education be changed to Chemistry Education, the EXCO agreed that the Statute need to be checked first and the proposal brought up at the next EXCO meeting. The EXCO also agreed to a proposal by the President to revise the Statutes as it contains a number of conflicting statements. Dr. Soon will study the current Statutes thoroughly and come up with a revised version for discussion at the next EXCO meeting. The final version will be tabled for adoption at the 15th General Assembly in Shanghai, China in 2009.
- (3) On item (6) regarding the bidding for the 14th ACC and the 16th GA, the matter was decided at the 14th GA where Thailand was selected as the

host in 2011.

- (4) The Treasurer expressed his concern regarding the security of the bank accounts if the number of the bank accounts were revealed in the treasurer's report. However, the EXCO was of the opinion that this will not be a security problem as transfer of fund out of the accounts has to be done by authorized persons only.
- (5) Prof. Doo Soo Chung reported that for the last FACS newsletter, 2000 issues were printed and 1000 copies were brought to Kuala Lumpur. The President congratulated Prof. Chung for his contribution to FACS by publishing 3 issues of FACS Newsletter during his term as Chairman of Publications. The EXCO recorded a vote of thanks to Prof. Chung. Prof. Kyung Byung Yoon will be the new Chairman of Publications.
- (6) On item (14) other business No. 1, the membership of the Saudi Chemical Society was approved at the 14th GA. Its President arrived only after the 14th GA.
- (7) There was no follow-up of the placement of advertisement in the FACS Newsletter by Alexandria Monk.
- (8) Prof. David Winkler is to write to all the FACS member societies to invite them to become official participating organization of PACIFICHEM 2010.
- (9) Dr. Soon did not respond to the Utopian's request for sponsorship of the 1st Congress of the Federation of African Chemical Societies.
- (10) On item No 7, IKM is willing to host the FACS secretariat. A new staff member Shirley will be in charge of FACS matters. The Minister of Science, Technology and Innovation, Malaysia has expressed support and will be willing to contribute some funds for the FACS secretariat.
- (11) On the attendance of the Coordinator of Projects at ACGC and ASOMPS meetings, the President may also attend the meetings on behalf of FACS.

In an associated business, the EXCO was informed that there was a mistake in the plaque of the Young Chemist Awardee, Prof. Yu-Ju Chen from Academia Sinica where the field was incorrectly stated as Physical Chemistry instead of Analytical Chemistry and that

she was from Taiwan. The plaque has been returned to IKM for the necessary amendments. After a lengthy discussion, the EXCO agreed that her affiliation would be listed as the Chemical Society located at Taipei.

4. President's Address

FACS President, Datuk Dr. Soon mentioned that he had given his address in the welcome speech. However he would like to reiterate that he needs the support and cooperation of all EXCO members in order for the success of FACS and the advancement of chemistry in Asia.

5. Report of the Coordinator of Projects

Prof. Tashin J. Chow, Coordinator of Projects, reported that there are nine full projects operating in FACS and seven of them have progressed smoothly and their reports have been distributed during previous the 50th and 51st EXCO meetings. For renewal of these projects in the new term from 2007–09, eight have submitted their formal requests.

(1) ACEN (Asian Chemical Education Network)

The CP recommended that ACEN should be continued. As Prof. Datin Zuriati Zakaria has assumed the position as Secretary General, she is not eligible to be the Director of ACEN. The EXCO then agreed to the following appointments:

- Director: Prof. Mei-Hung Chiu (Chemical Society located at Taipei)
- Co-Director: Dr. Ng Soo Boon (Institut Kimia Malaysia)
- Advisor: Prof. Masato Ito (Chemical Society of Japan)

(2) ANAC (Asian Network for Analytical Chemistry)

The CP recommended the continuation of this project with the following appointments:

- Director: Prof. Masaaki Tabata (Chemical Society of Japan)
- Co-Director: Prof. Hasuck Kim (Korean Chemical Society)

Prof. Kim is organising the Asianalysis 2007. Future participation will be at the Eurasia Conference 2008 in the Philippines, Asianalysis 2009, ISEC (International Symposium on Electroanalytical Chemistry) 2009 in Changchun, China and the 13th ACC in Shanghai in 2009.

(3) ANEC (Asian Network for Environmental Chemistry)

The co-director Dr. Jae Oh is unable to continue his position in the new term, and the director Dr. Ross Sadler has suggested Prof. Paul Lam from the City University of Hong Kong to replace Dr. Jae Oh. Due to the recent promotion of Prof. Paul Lam as the Deputy Vice Chancellor, the EXCO agreed that the ANEC be continued with the following:

- Director: Dr. Ross Sadler (Royal Australian Chemical Institute)
- Co-Director: A Member of the Chinese Chemical Society to be determined by Prof. Long Lu.

Proposed projects include participation of network members to the Second International Salinity Forum to be held in Adelaide in March 2008 and the 13th ACC at Shanghai in 2009.

(4) APFAN (Asia-Pacific Food Analysis Network)

The EXCO agreed to the proposal for continuation and that the Director of APFAN, Dr. Peeter Scheelings should propose his co-director.

(5) ChIN (Asian Chemical Information Network)

The EXCO agreed to continue this project with the involvement of Prof. Xiaoxiao Li. There was a comment that the website of FACS is not updated. ChIN also needs to work closely with the FACS Secretariat to upload latest information on the website.

Prof. Long Lu offers to work together with Prof. Xiaoxiao Li to transfer the website to the host server at the Shanghai Institute of Organic Chemistry and after 4 years, a review will be taken. The Chinese Chemical Society will put up a proposal for the Director of ChIN.

(6) GC (Green Chemistry)

The CP recommended that Green Chemistry should be continued. The EXCO agreed to the following:

- Director: Dr. Ho Chee Cheong (Institut Kimia Malaysia)
- Co Director: Prof. Takashi Tatsumi (Chemical Society of Japan)

The EXCO was informed that there is an Asian network of Green Chemistry based in Japan.

(7) LCI-MS (Low Cost Instrumentation and Microscale Chemistry)

The CP informed that there is a switch of positions between the Director and Co-Director in LCI-MS. The EXCO agreed to the continuation of this project with the following:

- Director: Prof. Supawan Tantayanon (Chemical Society of Thailand)
- Co Director: Prof. Winghong Chan (Hong Kong Chemical Society)

It was proposed that LCI-MS will participate in the 4th international symposium in Microscale Chemistry on January 30 - February 1, 2008 in Bangkok, Thailand, and a workshop on small scale organic chemistry laboratory in Bangkok in March 2008

(8) MCNP (Medicinal Chemistry and Natural Products)

The EXCO also agreed to the continuation of the project as follows:

- Director: Prof. David Winkler (Royal Australian Chemical Institute)
- Co-Director: Prof. Chow Won Men (Chemical Society of Vietnam)

Some proposed activities include WATOC congress in Australia in 2008, joint RACI / AFMC / FACS congress (AIMECS 09) in Cairns in 2009 and the 13th ACC.

(9) ANIC (Asian Network for Inorganic Chemistry)

The CP reported a proposal for the initiation of new Project ANIC (Asian Network for Inorganic Chemistry) was submitted by Dr. Ujang Tinggi from Australia. The EXCO was of the opinion that the scope of the project overlaps with environmental chemistry as well as analytical chemistry.

The EXCO however agreed to seek Prof. Tabata's recommendation on whether ANIC can be incorporated into ANAC as this was the case earlier as inorganic and analytical chemistry were combined as ANAIC.

(10) ANRAP (Asian Network Research on Anti-Diabetic Plants)

The CP informed the EXCO that reports have not been received for the ANRAP projects either written or oral. Renewal request from ANRAP has not been received yet. The EXCO was also informed that Prof. Mohammed Mosihuzzaman is in Karachi and may have

difficulties to run the project. The EXCO decided to suspend the ANRAP project.

(11) History and Archives of FACS

The Archive project is in the stage of planning by Prof. Barry Noller. The GA has already approved the project which will last for 2 years and will be reviewed later.

(12) PECD (Professional Ethics in support of Chemical Disarmament)

The President of IKM will look into this as recently there is an interest by the US State Department to be involved and there could be possible funding. The OPCW has also given support to the 12th ACC and IKM will attempt to discuss with the OPCW on the PCED project. In the next meeting, the President will inform the EXCO whether the project will be on.

(13) Conclusion

The EXCO agreed that

- a) All project directors establish a network with representatives from FACS member societies.
- b) There should be a renewal process for Directors and Co-Directors as there are cases where the Directors hold the post for more than 10 years.
- c) It is recommended that the Directors serve a period of two terms with a maximum of 3 terms before handing the task to a new person.

6. Report of the Chairman of Publications

The Chairman of Publications, Prof. Kyung Byung Yoon, reported that in the last 2 years, the printing and distribution of the FACS Newsletters require a budget of USD 20,000 and the support of FACS seed money is USD 500 per year. The Korean Chemical Society (KCS) has to raise the balance to enable the publication of the newsletter.

The President thanked the Korean Chemical Society for their commendable efforts and hoped that Prof. KB Yoon will get the same support from KCS.

7. Venue of the Next FACS EXCO Meeting

There were no offers from member societies to host the next FACS EXCO meeting. Dr. San Thang informed EXCO that the Philippines Society has a conference in 2009 and this could be a possible venue. Taipei can also

host the EXCO meeting in conjunction with the World Polymer Congress in the 2nd half of 2008.

The Secretary General is to explore whether Thailand, Brunei, Cambodia, Saudi Arabia or Bangladesh is willing to host the EXCO meetings up till 2009.

8. Other Business

8-1. Seed Money

The seed money for projects ranges from USD 4000-5000 per year. Based on the income and expenditure for the year, the Treasurer has recommended that the seed money be increased from USD 500 to USD 800 per project at the 14th General Assembly. The President reminded that such a proposal should be discussed at the EXCO meeting first before tabling it to the General Assembly for a decision.

The EXCO is of the opinion that the financial status of FACS is not strong and decided that the seed money be maintained at USD 500 per project.

8-2. Fund Raising

The EXCO agreed that the funds in FACS are still low considering that FACS is already 28 years. The EXCO discussed ways to raise funds such as charging USD 5 at every ACC, but this issue will be discussed at the next meeting.

8-3. FACS Newsletter

On the issue that the Chairman of Publications has to work closely with the Secretariat, there is a proposal that the member society that hosts the FACS Secretariat should be responsible for the publication of the FACS Newsletter. The EXCO agreed to leave the option open for now.

8-4. Next Meeting

The Secretary General shall inform the EXCO on the date and venue of the next EXCO meeting at a later date. There is a possibility that Thailand may host this meeting.

The 52nd FACS EXCO meeting adjourned at 4.50 pm with a vote of thanks to the Chair.

Minutes by:

Prof. Datin Dr. Zuriati Zakaria
Secretary General, FACS

Approved at the 53rd EXCO Meeting on January 31, 2008 in Bangkok, Thailand.

Datuk Dr. Ting-Kueh Soon
President, FACS



(From Left to Right) Prof. K. B. Yoon, Dr. R. Sadler, Dr. D. Winkler, Prof. Barry Noller, Prof. M. Tabata, Prof. L. Lu, Prof. T. Chow, Prof. D. S. Chung (back side), Dr. San S. Thang, Prof. J. Suh, Datuk Dr. T.-K. Soon, Prof. C. L. Bai, Prof. Z. Zakaria (front side)

Saturated-Red and True-Blue Emitting Transition-Metal Based Phosphors

Yun Chi* and Pi-Tai Chou**

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This news letter illustrates a general design principle for the syntheses of osmium (II) and iridium (III) complexes showing either saturated-red or true-blue phosphorescence. Their photophysical properties as well as prospective applications to serve as OLED phosphors are succinctly discussed.

Keywords: Phosphorescence, Osmium, Iridium, Saturated-red, True-blue, Organic light-emitting diode.

1. Introduction

Organic light emitting diodes (OLEDs) represent a relatively new technology for the flat panel displays (FPD) as well as the solid-state lighting (SSL).¹ With key features such as improving energy efficiency and superior viewing angle, OLEDs are identified as the technology of the future compared to the liquid crystal display (LCD); the latter is currently dominating the FPD market worldwide. Being self-emissive in nature, the absence of the back lighting module in OLEDs requires less electrical power and makes them much lighter and extremely thin compared to LCDs. As a result, OLEDs would offer significant power-saving capabilities and reduce long-term application costs. It is worth noting that the first commercial OLED TV named XEL-1 was successfully marketed by SONY in 2007.

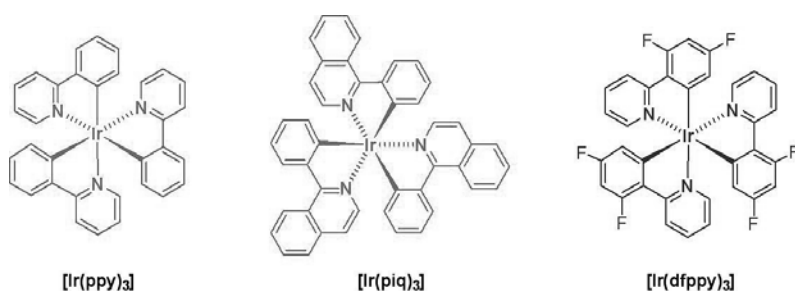
Traditional OLEDs were fabricated using aromatics or hetero-aromatic materials that showed bright emission from the singlet excited state, namely fluorescence. These fluorescent OLEDs show a maximum 25% internal quantum efficiency (IQE) because only 25% of singlet excitons out of all excitons being generated can be harvested due to the probability of electron spin combination during transition. To surpass this limit, an innovation called phosphorescent OLEDs (PhOLED) was later developed, which takes advantage of the principle that electrophosphorescence converts up to 100% of the electrical energy into light. In theory, this

makes PhOLED four times greater in efficiency than previously thought possible for fluorescent OLEDs.²

In contrast to the aforementioned organics, the phosphorescent materials were made possible by incorporation of the third-row transition-metal element into the core of molecular framework. The strong metal-ligand bond strength would improve their chemical and physical stabilities, fulfilling the first requirement for good emitting materials. Moreover, the strong spin-orbit coupling expected for the heavy metal element would lead to an efficient intersystem crossing from the singlet excited state to the respective triplet manifold. Likewise, the enhanced spin-orbit coupling, to a great extent, would also lift the spin-forbidden nature of the $T_1 \rightarrow S_0$ radiative relaxation, resulting in a highly intense phosphorescent emission.³ Based on these concepts, the third-row, late transition metal complexes incorporated by neutral diimine, anionic cyclometalated or other tailor-made chelating ligands may give rise to the desirable absorption and efficient emission characteristics. More specifically, these metal chelate complexes would display intense ligand-centered $\pi\pi^*$ absorptions mixed with a lower energy metal-to-ligand charge transfer (MLCT) transition, such that strong phosphorescence is expected to derive from $\pi\pi^*$, MLCT or a mixture of both states, making them suitable for fabrication of PhOLEDs with outstanding power efficiencies and hence less heat generation.

Since the fabrication of full color displays requires emitters with all three primary colors, rational tuning of phosphorescence from red, green to blue has emerged as a challenging task. Albeit no guarantee of their efficiencies, systematic variation of the ligand π -conjugations has allowed an accurate prediction of their colors; for example, the *tris*-cyclometalated complex $[\text{Ir}(\text{ppy})_3]$, ppy = 2-phenyl pyridine, displayed a vivid green emission centered at 514 nm.⁴ Upon replacing the pyridyl substituent of ppy ligand by a 1-isoquinolinyl substituent, the resulting *tris*-cyclometalated complex $[\text{Ir}(\text{piq})_3]$, piq = 1-phenyl isoquinoline, showed bright red emission at ~620 nm attributed to the much longer elongation of ligand π -conjugation.⁵ As for the blue emission, utilization of the 4,6-difluorophenyl pyridine chelating chromophore has afforded isolation of the Ir(III) complex $[\text{Ir}(\text{dfppy})_3]$ with peak wavelength (λ_{max}) located at 468 nm.⁶ In this news letter, we like to present our recent progress that leads to the preparation of highly efficient, saturated-red ($\lambda_{\text{max}} \sim 625\text{--}645$ nm) and authentic-blue ($\lambda_{\text{max}} \sim 440\text{--}478$ nm) phosphors. The ingenious design of these third-row transition metal complexes represents one of the “hot issues” for material chemists who are currently working on the research subjects related to OLEDs

2. Saturated-Red Phosphors



One class of red-emitting phosphors possesses two chelating pyridyl pyrazolates coordinated to the Os(II) metal cation, together with two *trans*-disposed phosphines. The pyridyl pyrazolate chelates also display *trans*-orientation, giving a virtual C_2 symmetry. This conformation is further confirmed by the observation of a downfield ^1H NMR signal, attributed to the inter-ligand N...H-C hydrogen bond occurring between pyridyl pyrazolate chelates.⁷ The molecular drawing, absorption and luminescence spectra of $[\text{Os}(\text{fppz})_2(\text{PPhMe}_2)_2]$ are shown in Figure 1, (fppz)H

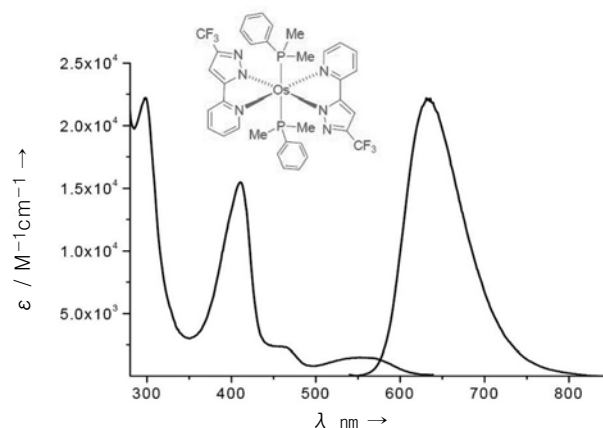


Figure 1. The absorption and emission spectra of $[\text{Os}(\text{fppz})_2(\text{PPhMe}_2)_2]$ recorded in CH_2Cl_2 solution at RT.

= 3-trifluoromethyl-5-(2-pyridyl) pyrazole. The strong absorption band commonly observed around 410 nm is assigned to the spin-allowed $^1\pi^*$ transition involving the chelating ligands. The next lower energy absorption band around 456 nm can reasonably be ascribed to a spin-allowed metal-to-ligand charge transfer ($^1\text{MLCT}$) transition, while the broad peak at 553 nm with lower extinction coefficient ($\epsilon = 1600 \text{ M}^{-1}\text{cm}^{-1}$) is attributed to an Os(II) metal ion enhanced, forbidden transition involving mainly $^3\text{MLCT}$ characters. On the other hand, intense luminescence was observed with peak wavelength located at 632 nm in degassed CH_2Cl_2 solution ($\Phi = 0.19$; $\tau = 0.73 \mu\text{s}$). The significant overlap of the 0-0 onsets between emission and the lowest lying

absorption band, together with a broad, structureless spectral feature, leads to an unambiguous conclusion that the emission originates primarily from the $^3\text{MLCT}$ state.

Highly efficient phosphorescent OLEDs have been successfully fabricated by doping this red-emitting Os(II) complex $[\text{Os}(\text{fppz})_2(\text{PPhMe}_2)_2]$ into poly(*N*-vinylcarbazole) (PVK) matrix. Using 1,3,5-tris(4'-fluorobiphenyl-4-yl)benzene (F-TBB) as a hole-blocking material, maximum luminous efficiency reached 3.5 cd/A, even with air stable aluminum as the cathode. The CIE 1931 chromaticity coordinate is 0.681, 0.317, and remains unchanged over a wide range of operation voltages.⁹ Recently, these Os(II) complexes have been chemically modified to display intense orange emission¹⁰ as well as to become a key element for fabrication of a variety of white-emitting OLEDs.¹¹

As for the iridium metal atom, protocol for

designing saturated-red emitting materials was also developed using the parent, green-emitting *tris*-substituted $[\text{Ir}(\text{ppy})_3]$ and its heteroleptic analogue such as $[\text{Ir}(\text{ppy})_2(\text{acac})]$ as the standard.¹² According to the MO calculation, it is anticipated that the lowest triplet state of $[\text{Ir}(\text{ppy})_3]$ (or $[\text{Ir}(\text{ppy})_2(\text{acac})]$) possesses a mixed IL $\pi\pi^*$ and MLCT character, with the LUMO and HOMO being located at the pyridyl and the phenyl segment of the ppy chelate plus small amount of metal $d\pi$ contribution, respectively.¹³ Accordingly, as shown in Figure 2, replacement of one CH group at the pyridyl fragment by a nitrogen atom, rendering a pyrazine (step A) or a pyrimidine substituted ligand fragment (step B), or even addition of a CF_3 group at the pyrimidine (step B2), would show a decrease in the LUMO energy level of the hypothetical complexes $[\text{Ir}(\text{C}^{\wedge}\text{N})_2(\text{L}^{\wedge}\text{X})]$, $\text{C}^{\wedge}\text{N}$ = cyclometalated heteroaromatics and $\text{L}^{\wedge}\text{X}$ = ancillary chelate. On the other hand, HOMO of these ligands remains unchanged, as they are mainly located at the phenyl group and partially at the metal $d\pi$ orbitals. Thus, such a virtual nitrogen atom substitution at the cyclometalated ligand causes an appreciable reduction of the energy gap for both ${}^3\pi\pi^*$ and ${}^3\text{MLCT}$ emission. This tuning strategy, i.e. a direct nitrogen-for-carbon substitution at the π -framework, is superior to the traditional method using the inductive effect of F or CF_3 substituents.¹⁴ Further attachment of an extra aromatic hexagon into the ligand framework, e.g. using quinoxaline to replace the hypothetical pyrazine fragment (step A1), quinazoline to replace pyrimidine (step B1), or even naphthalene to replace phenyl group (step B3), should render a further decrease of the energy gap by extending the π -conjugation. Therefore, bathochromic shift of the emission toward the saturated red can be achieved using the cyclometalated ligands that are rationally designed after A2, B1 or B3 treatment. Further subtle tuning, for example, back to the shorter wavelength region can be done via employing step A3 (see Figure 2), together with utilization of electron withdrawing ancillary $\text{L}^{\wedge}\text{X}$ chelate.

Selective Ir(III) complexes showing red to saturated-red emission are also shown at the bottom of Figure 2. All of these complexes were successfully used as dopants for fabrication of high efficiency red-emitting PhOLEDs.¹⁵

3. True-Blue Phosphors

Based on the above tuning principle, heteroleptic

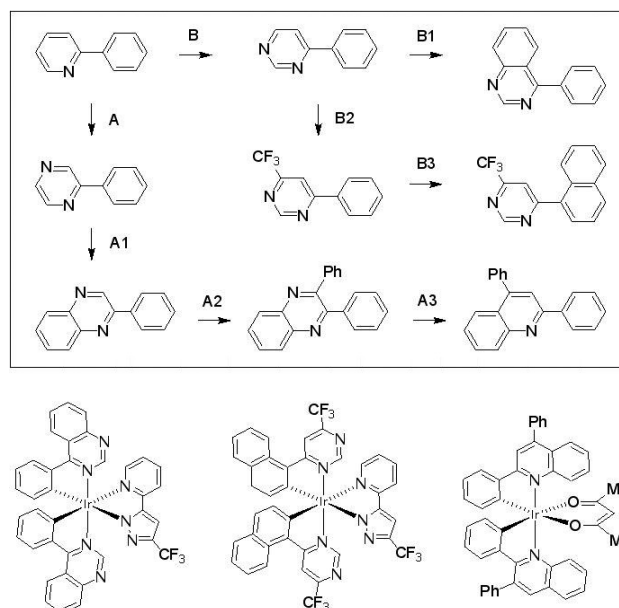


Figure 2. Strategy for tuning the ligand emission to saturated-red and the selective examples of Ir(III) complexes that exhibit saturated-red emission.

Ir(III) complexes with formula $[\text{Ir}(\text{dfpz})_2(\text{L}^{\wedge}\text{X})]$, dfpzH = 1-(2,4-difluorophenyl) pyrazoles, were synthesized in an aim to attain the true-blue phosphorescence. In contrast to the aforementioned $[\text{Ir}(\text{ppy})_2(\text{L}^{\wedge}\text{X})]$ system, the exceedingly large $\pi\pi^*$ energy gap of the dfpz ligands in these Ir(III) complexes allows the third $\text{L}^{\wedge}\text{X}$ ligand to dominate the lowest lying excited state, for which a conceptual relationship involving their HOMO and LUMO energy levels is depicted in Figure 3. Tuning the emission color to true-blue can thus be achieved by selecting suitable blue-emitting $\text{L}^{\wedge}\text{X}$ ligand so that the synthetic task can be accomplished.

The structural drawing, absorption and emission spectra of one derivative $[\text{Ir}(\text{dfpz})_2(\text{fptz})]$ with fptz serving as the third $\text{L}^{\wedge}\text{X}$ ligand are depicted

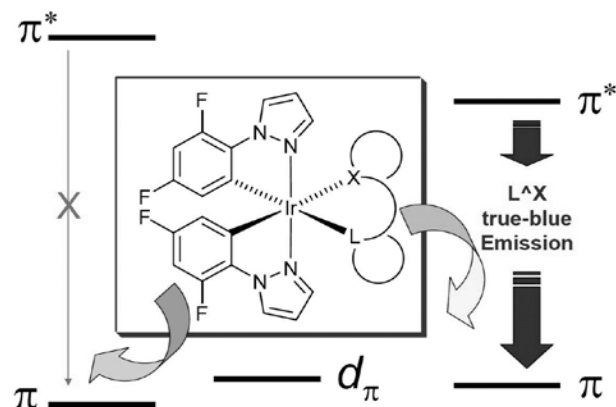


Figure 3. Conceptual orbital energy levels of a blue-emitting heteroleptic Ir(III) complex.

in Figure 4 and Table 1, where (fptz)H stands for 3-trifluoromethyl-5-(2-pyridyl) 1,2,4-triazole. This complex is characterized by an intense $\pi\pi^*$ transition in the UV region of ≤ 375 nm, the results of which are consistent with the expected high energy gap for all chromophores, i.e. both cyclometalated dfpz and the third fptz ligands. The emission spectrum occurred in the anticipated true-blue region (440 ~ 478 nm), except that the low quantum yield ($\Phi = 0.0046$ measured in degassed CH_2Cl_2 at RT)¹⁶ showed worthlessness for fabrication of OLEDs. Such a result can be attributed to the coexistence of several chromophores with nearly degenerate energy levels in both HOMO and LUMO. Thus, the frontier orbitals attributed to the lowest triplet manifold may spread out over the entire molecular framework, resulting in a mixing of various types of $\pi\pi^*$ transitions such as intra-ligand charge transfer (ILCT) and even ligand-to-ligand charge transfer (LLCT).¹⁸ The net result is to reduce the transition moment, and hence gives rise to a diminished radiative transition and dominant radiationless deactivation process.

For searching an effective way of increasing the emission quantum yield at RT, we next designed and synthesized so-called non-conjugated cyclometalated

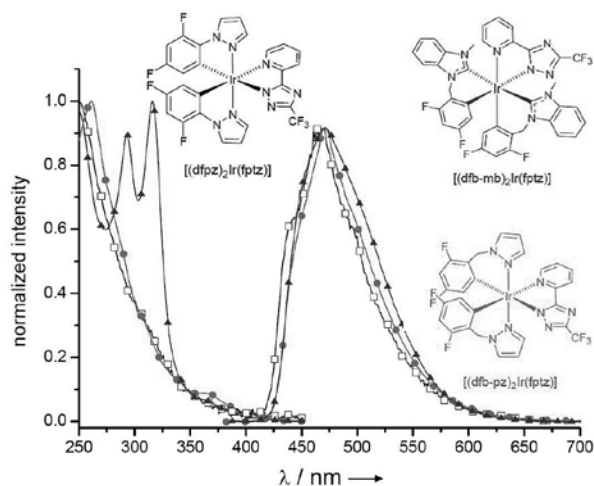


Figure 4. Normalized absorption and emission spectra of Ir(III) complexes, $[\text{Ir}(\text{dfpz})_2(\text{fptz})]$, $[\text{Ir}(\text{dfb-pz})_2(\text{fptz})]$ and $[\text{Ir}(\text{dfb-mb})_2(\text{fptz})]$; all spectral data were recorded in CH_2Cl_2 solution.

Table 1. Selected photophysical data of true-blue Ir(III) complexes recorded in CH_2Cl_2 at RT.

	UV/Vis λ_{max} (nm)	PL λ_{max} (nm)	Q.Y. Φ	τ_{obs} (ns)	k_{r} ($\times 10^5 \text{s}^{-1}$)
$[\text{Ir}(\text{dfpz})_2(\text{fptz})]$	300, 349	457	0.0046	8.6	5.4
$[\text{Ir}(\text{dfb-pz})_2(\text{fptz})]$	261, 368	437, 460	0.1	100	10
$[\text{Ir}(\text{dfb-mb})_2(\text{fptz})]$	293, 316, 363	458	0.73	378	19

ligand, i.e. 2,4-difluorobenzyl-N-pyrazole, (dfb-pz)H, as well as the corresponding Ir(III) metal complexes such as $[\text{Ir}(\text{dfb-pz})_2(\text{fptz})]$.¹⁹ Its emission signal appears in the true-blue region with one obvious peak maxima located at 460 nm; note the vibronic progression is apparently reduced (Figure 4). The phosphorescence quantum efficiency now increases to 0.1 in degassed CH_2Cl_2 solution at RT, which is approximately 20 times better than the previously discussed analogue $[\text{Ir}(\text{dfpz})_2(\text{fptz})]$. The photophysical data clearly demonstrate that the methylene spacer introduced in $[\text{Ir}(\text{dfb-pz})_2(\text{fptz})]$ has effectively interrupted the π -conjugation and widened the $\pi\pi^*$ energy gap of the cyclometalating dfb-pz chelates. Accordingly, upon incorporation of the L^X chelating chromophore, the occurrence of mixed inter-ligand $\pi\pi^*$ electronic transitions is greatly suppressed, resulting in the much improved true-blue emission at RT. Fabrication of PhOLEDs using $[\text{Ir}(\text{dfb-pz})_2(\text{fptz})]$ as blue emitter was achieved with good color chromaticity but inferior device performance simply due to the low emission quantum yield.

Continuing this endeavor, we then turned to the non-conjugated benzyl carbene chelate and synthesized the respective Ir(III) complex $[\text{Ir}(\text{dfb-mb})_2(\text{fptz})]$, in which dfb-mb chelate was generated from precursor 1-(2,4-difluorobenzyl)-3-methyl-benzimidazolium bromide (dfb-mbH₂Br).²⁰ It is proposed that the synergism among three key factors should lead to the successful detection of true-blue phosphorescence at room temperature: (i) non-conjugated nature of dfb-mb chelate that enlarged the ligand-centered $\pi\pi^*$ energy gap, (ii) better electron donating character that enhanced the MLCT contribution at the excited states, and (iii) improved bond strength for the carbene-to-iridium dative bonds as well as the optimal bite angle that should yield the much stable coordination framework. As a result, the emission profile of $[\text{Ir}(\text{dfb-mb})_2(\text{fptz})]$ is depicted in Figure 4. The observed emission quantum yield of 0.73 is the highest ever observed for all true-blue phosphors recorded in fluid states at RT. This, together with an observed lifetime of 0.38 μs , deduces a radiative lifetime as short as 0.5 μs . It is notable that the high quantum yield results from the reduced non-radiative decay rate constant, k_{nr} , which is an order of magnitude smaller than its cyclometalated analogue employing conjugated phenyl carbene chelates.

Due to its superior emission quantum yield, [Ir(dfmb)₂(fptz)] was used as the dopant for fabrication of PhOLEDs. The as-prepared device exhibits a low turn-on voltage of ≤ 4 V, a peak external quantum efficiency of up to 6.0% photon/electron, a peak luminance efficiency of 6.3 cd/A, and a peak power efficiency of 4.0 lm/W, respectively. The 1931 Commission Internationale de L'Éclairage (x, y) coordinates (CIEx,y) are calculated to be 0.158, 0.128. As a result, its chromaticity CIEx+y of ≤ 0.3 and efficiency demonstrate a conceptual breakthrough for efficient true-blue OLED phosphors. Further design of better and more efficient true-blue phosphors is envisioned; however, longevity and life cycles remain as key obstacles on the technology roadmap of OLEDs.

4. Bipolar Host Materials

For PhOLEDs, owing to the longer lifetime of triplet excitons, phosphors are commonly doped into host matrix in order to reduce the concentration quenching, i.e. triplet-triplet annihilation.²¹ Developing efficient host materials is thus of paramount importance versus that for designing better phosphors.²² In principle, the triplet energy gap (E_T) of the host material should be higher in energy than that of the phosphor to prevent back energy transfer as well as to confine triplet excitons on the guest molecules. As such, finding decent host materials for true-blue OLEDs will be particularly challenging because they must have E_T energy greater than the true-blue emission (≥ 2.7 eV), and concomitantly possess optimized charge-carrier transport properties. Silane-based insulating host materials represent the first wide-band gap system being developed.²³ However, inferior carrier injection and transport properties of these host materials necessitate a high concentration of dopant to improve charge hopping, leading to an increase of operating voltage well above the photon energy at high brightness and hence a limited device performance. As a result, designing suitable host materials poses the last (but not the least) critical issue for PhOLEDs.

One outstanding solution is to adopt the bipolar host materials. Selective examples are depicted in Figure 5, all of them possess an electron-donating carbazole unit to provide a shallow HOMO energy level to facilitate the charge carrier injection at lower voltages. In addition, the electron-accepting group such as the pyridine of 26DCzPPy²⁴ and the diphenylphosphoryl ($\text{Ph}_2\text{P}=\text{O}$) substituent of MPO12²⁵ would exhibit high

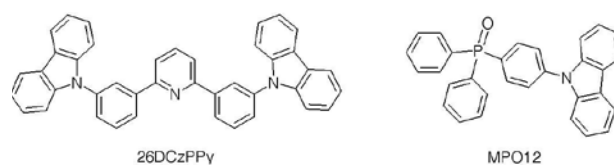


Figure 5. Molecular drawing of two bipolar host materials, 26DCzPPy and MPO12.

electron affinity and improve the electron injection character without notably affecting the overall triplet energy of these carbazole-based host materials. These wide-band-gap bipolar host materials, in theory, should provide better confinement of the triplet excitons on the guest phosphors and hence improve the carrier balance injected into the emissive layer. As a result, high efficiency and reduced efficiency roll-off at higher driving voltages were achieved for typical FIrpic-based blue-emitting OLEDs. Spontaneously, the next task is to intensively test the performances of true-blue OLEDs fabricated using these newly developed bipolar host materials.

5. Conclusion

In summary, we have succinctly demonstrated the successful preparation of Os(II) and Ir(III) metal-based phosphors with suitable emission color and decent quantum yields. Fabrication of PhOLEDs was also achieved, confirming their prospective as emitter dopants. The synthetic strategy for phosphors, employment of efficient wide-band-gap host materials and device fabricating protocol should be integrated to furnish a new methodology, which should pave a broad avenue for the future development of all phosphorescent SSL and FPD devices.

6. Acknowledgments

Our research was supported by the National Science Council and the Ministry of Economic Affairs of Taiwan.

7. References

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1. The Royal Australian Chemical Institute, Inc.

- 1) Number of Members (annual fee paid numbers)** 5,100
- 2) Annual Budget (in USD)** USD 700,000
- 3) List of Periodic Publications** Chemistry in Australia (monthly magazine)

4) 2008 President Profile



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EDUCATION

Footscray Technical School, Dipl. Appl. Chem. 1957

University of Melbourne, BSc 1960, MSc 1962

Australian National University, PhD 1965

(MSc and PhD theses in the field of organic chemistry)

EXPERIENCE

- Monash University University Research Fellow (1967-1970), Senior Lecturer (1970-1980), Associate Professor (1981-1990), Professor and Dean, Faculty of Science (1990-1994)
- Victoria University of Technology Deputy Vice-Chancellor (1994-1997)
- University of Melbourne Honorary Professorial Fellow (1997-present), Member of University Environment Advisory Committee.
- Other Appointments Technical Director, Australian Academy of Technological Sciences and Engineering (2000-2006)
- University Teaching and research during 30 years plus industrial consultancy. Administrative responsibility as Faculty Dean and Deputy Vice-Chancellor.
- Royal Australian Chemical Institute Writer of monthly column in Chemistry in Australia (1984-present), President-Elect (2004-2006), President (2006-2008)

5) Planned Local and International Conferences in 2008

- *3D at the Cove - Drug Discovery and Development Conference*
July 13-17 2008 / Couran Cove Resort, Queensland
<http://www.3datthecove.org/>
- *30 APS - 30th Australasian Polymer Symposium*
Nov. 30 – Dec. 4 2008 / Melbourne Victoria
<http://www.30aps.org.au/>
- *23rd Organic Division Conference - Organic08*
Dec. 7-12 2008 / Wrest Point, Hobart, Tasmania
<http://www.organic08.org/>

6) Number of Permanent Staff 3

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2. Bangladesh Chemical Society

1) Number of Members (annual fee paid numbers) over 3,000 members

2) Annual Budget (in USD) USD 6,000

3) List of Periodic Publications

- The Journal of Bangladesh Chemical Society (ISSN 1022-016X): two issues per year
- "Rosayan" (Bengali word for Chemistry): a news bulletin, two issues per year.

4) 2008 President Profile



Prof. M. Muhibur Rahman

Prof. M. Muhibur Rahman was elected President of the Bangladesh Chemical Society for the term 2007-08. He took over the office in March 2007. Prof. Rahman graduated from the Dhaka University in 1965, and obtained his Ph.D. from the University of Cambridge (UK) in 1970. Since 1966, he has been a teacher of the Department of Chemistry in the University of Dhaka, and since 1987 he is holding a chair in this Department.

As a Research Fellow of the Alexander von Humboldt Foundation, Germany, Prof. Rahman carried out post-doctoral research work in the University of Goettingen, Germany from 1974-1976. He was a senior visiting scientist in the School of Chemical Sciences, University of East Anglia, Norwich, U.K., for 5 months in 1984, when he worked with Prof. Norman Sheppard on the infra-red spectroscopy of adsorbed species. During the period 1984-1995, Prof. Rahman visited the University of Kiel in Germany on several occasions and worked as a guest scientist with Prof. R. N. Schindler on gas kinetic investigations of some reactions of atmospheric interest. His current research interests include kinetics of reactions in solutions, catalytic degradation of volatile organic compounds, synthesis of polymer-metal oxide composites and detection of atmospheric pollutants.

Prof. Rahman is also the current President of the Association of Humboldt Fellows Bangladesh.

5) Planned Local and International Conferences in 2008

- *Annual Conference*
March 15, 2008 / University of Chittagong
bcsc2007.cu.googlepages.com/home.html
- *Symposium on "Chemical Hazards and Security"*
April, 2008.
- *The Bangladesh Chemical Congress 2008*
Jan. 31-Feb. 01 2009 / the University of Dhaka

6) Number of Permanent Staffs


3 (two staffs are part-time)

7) URL www.chemhome-bcs.org (under construction)

8) Address and Permanent Contact Point

10/11, Eastern Plaza
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3. Brunei Darussalam Institute of Chemistry

1) Number of Members (annual fee paid numbers)	70
2) Annual Budget (in USD)	USD 1,000
3) List of Periodic Publications	None
4) 2008 President Profile	5) Planned Local and International Conferences in 2008 Local symposium in Jan 2009
 Dr. Hj Ibrahim Hj Abd Rahman Dean, Faculty of Science Universiti Brunei Darussalam	Dean, Faculty of Science effective from 1 August 2008. Deputy Dean, Faculty of Science, Senior Lecturer in Analytical Chemistry. PhD in Food Chemistry, University of Reading, UK, 1990. Research areas include food chemistry, analytical, and environmental chemistry
	6) Number of Permanent Staff None
	7) URL (English) Under construction
	8) Address and Permanent Contact Point Dr. Hj Ibrahim Hj Abd Rahman Department of Chemistry Faculty of Science Universiti Brunei Darussalam Brunei Darussalam, BE1410

4. Hong Kong Chemical Society

1) Number of Members (annual fee paid numbers)	~100
2) Annual Budget (in USD)	
3) List of Periodic Publications	None
4) 2008 President Profile	
 Wai-Yeung Wong (Raymond)	b 1970 in Hong Kong. The Univ. of Hong Kong (B.Sc. 1992; Ph.D. 1995), Texas A & M Univ. (Postdoc. 1996, Prof. F. Albert Cotton), Univ. of Cambridge (Postdoc. 1997, Profs. The Lord Lewis and P. R. Raithby), Hong Kong Baptist Univ. (Assistant Prof. 1998, Associate Prof. 2003, Professor 2007-). Research field: inorganic and organometallic syntheses, metal-organic optoelectronic materials for OLEDs, metallopolymers for luminescence and solar cell applications, and X-ray crystallography.
5) Planned Local and International Conferences in 2008 <ul style="list-style-type: none">• We do not have any planned local or international conferences in 2008.• We will hold the <i>Chemistry Olympiad</i> competitions for both tertiary and secondary school sectors each year locally.	8) Address and Permanent Contact Point Department of Chemistry Hong Kong Baptist University Waterloo Road, Kowloon Tong Hong Kong SAR, China Tel: +852-3411-7074 Fax: +852-3411-7348 E-mail: rwywong@hkbu.edu.hk
6) Number of Permanent Staff None	
7) URL Under construction	

5. The Chemical Society of Japan

- 1) Number of Members (annual fee paid numbers)** 31,200
- 2) Annual Budget (in USD)** USD 10,000,000
- 3) List of Periodic Publications**
- Kagaku-to Kogyo (Chemistry and Chemical Industry)
(Membership Journal: Japanese language, monthly)
 - Kagaku-to Kyoiku (Chemistry and Education)
(Japanese language, monthly)
 - Bulletin of the Chemical Society of Japan (BCSJ)
(English language, monthly)
 - Chemistry Letters (English language, monthly)
 - Other Publications

4) 2008 President Profile



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1997.10 Executive Vice President, Mitsui Chemicals, Inc. (pursuant to the merger between Mitsui Petrochemical Industries, Ltd. and Mitsui Toatsu Chemicals, Inc.)
1999.6 President, Mitsui Chemicals, Inc.
2005.6 - Present Chairman, Mitsui Chemicals, Inc.
2002.5 - 2004.5 Chairman, Japan Chemical Industry Association
2004.6 - 2006.6 Chairman, The Association for the Progress of New Chemistry
2008.3 - Present President, The Chemical Society of Japan

Education

- 1961 Graduated from Tohoku University (Applied Chemistry)
1966 Doctoral in Engineering, Tohoku University

Awards

- 2003 Distinguished Friends of Singapore

5) Planned Local and International Conferences in 2008

- *The 88th CSJ Annual Meeting*
March 26-30, 2008 / Rikkyo Univ., Tokyo, Japan
- *Chemistry Innovation Symposium Series*
August 2 Sendai / Japan

6) Number of Permanent Staff 27

7) URL <http://www.chemistry.or.jp/index-e.html>

8) Address and Permanent Contact Point

The Chemical Society of Japan
1-5, Kanda-Surugadai, Chiyoda-ku
Tokyo 101- 8307, Japan
Tel) +81-3-3292-6161
Fax) +81-3-3292-6318
e-mail : info@chemistry.or.jp

6. Jordanian Chemical Society

- 1) Number of Members (annual fee paid numbers)** 500
- 2) Annual Budget (in USD)** USD 20,000
- 3) List of Periodic Publications** Jordan Journal of Chemistry
(4 times a year in English, refereed and indexed)

4) 2008 President Profile



Sultan T. Abu-Orabi Al-Adwan

Tafila Technical University /
President
P.O. Box 179, Tafila-Jordan
Phone:
Office (00962) 3 2250521
Home (00962) 2 7060046
Mobile: (00962) 79 5600448
Fax: (00962) 3 2250431
e-mail:
abuorabi@excite.com

<http://www.ttu.edu.jo>

EDUCATION

- 1973 University of Jordan, B.Sc. (Amman)
1977 Western Michigan University, M.Sc. (Kalamazoo, U.S.A.)
1982 University of Michigan, B.Sc. in Chemistry (Ann Arbor, U.S.A.)
M.Sc. in Organic Chemistry
Ph.D. in Organic Chemistry

EXPERIENCE

• Managerial Posts

- 1987 - 1989 Director of Student Activities, Yarmouk University, Jordan.
1998 - 2001 Chairman of Chemistry Department (Yarmouk Univ.).
2001 - 2002 Dean of Students Affairs (Yarmouk Univ.).
2002 - 2005 President – Irbid National University.
2005 - Present President – Tafila Technical University

• Teaching

- 1982 - 1987 Assistant Professor, Yarmouk University, (Jordan)
1987 - 1989 Associate Professor, Yarmouk University, (Jordan)
1989 - 1990 Visiting Associate Professor, Bahrain University, (Bahrain)
1990 - 1993 Associate Professor, King Fahd University of Petroleum and Minerals, Dhahran (Saudi Arabia)
1993 - 1995 Associate Professor Yarmouk University, (Jordan)
1996 - 1996 Professor, Yarmouk University, (Jordan)
1996 - 1998 Professor, King Fahd University of Petroleum and Minerals, Dhahran (Saudi Arabia)
1998 - 2002 Professor Yarmouk University (Jordan)

5) Planned Local and International Conferences in 2008

- 8th Jordan Chemistry Conference
April 21, 2008
- 14th Arab Chemistry conference
March 31, 2008

6) Number of Permanent Staff 8

7) URL www.jorchem.org

8) Address and Permanent Contact Point

Tafila Technical university/President
P.O.Box 179, Tafila, Jordan
Phone: 00962 3 2250521
Fax: 00962 3 2250431
E-mail: jorchem@jorchem.org

7. The Korean Chemical Society

- 1) Number of Members (annual fee paid numbers)** 6,000
- 2) Annual Budget (in USD)** USD 1,500,000
- 3) List of Periodic Publications**
- Bulletin of the Korean Chemical Society (monthly journal : SCI)
 - The Journal of the Korean Chemical Society (bimonthly journal)
 - Chemical Education (quarterly magazine)
 - ChemWorld (monthly magazine)

4) 2008 President Profile



<http://plaza.snu.ac.kr/~myungsoo/kimmskor.htm>

- Present - 1979 Prof. of Chemistry, Seoul National University, Seoul, Korea
- Present - 1994 Consulting Professor, University Hospital, Seoul National University, Seoul, Korea
- Present - 1994 Head of Molecular Science Division, Research Institute for Natural Sciences, Seoul National University, Seoul, Korea
- Present - 1989 Korea Basic Science Center, Principal Researcher (1991-1989), Consulting Professor (Present-1994)
- 1983/8 - 1983/2 Visiting Professor, Royal Society Research Unit, University College of Swansea, Britain (Worked on collisional activation and photodissociation mass spectrometry with Prof. John H. Beynon)
- 1979 - 1978 Research Assistant Professor, College of Pharmacy, University of Utah, Salt Lake City, Utah, U.S.A. (Analytical mass spectrometry of pharmacological compounds)
- 1978 - 1977 Research Associate at Case Western Reserve University, Cleveland, Ohio, U.S.A. (Research on ion photodissociation using ion cyclotron resonance(ICR) mass spectrometer with Prof. R.C. Dunbar)
- 1977 - 1976 Postdoctoral Fellow at Cornell University, Ithaca, New York, U.S.A. (Worked on collisional activation mass spectrometry with Prof. F.W. McLafferty)
- 1976 - 1973 Ph.D. in Chemistry, University of Chicago, Chicago, Illinois, U.S.A. (Adviser: Prof. D.H. Levy)
- 1973 - 1972 M.S. in Chemistry, University of Chicago, Chicago, Illinois, U.S.A.
- 1971 - 1967 B.S. in Chemistry, Seoul National University, Seoul, Korea

Korean Science Prize, Korean Science and Engineering Foundation, 5th, 1995
Lifetime Member(1995), the Korean Academy of Science and Technology
Best Article Award, the Korean Federation of Science and Technology Societies, 1995
Editorial Board(1990), Rapid Communications in Mass Spectrometry

5) Planned Local and International Conferences in 2008

- Biannual (April and October) KCS general membership meeting
- 15th International Symposium on Organosilicon Chemistry
June 1-6, 2008 / Jeju, Korea / <http://www.isos-xv.org>
- 17th International Conference on Organic Synthesis (ICOS-17)
June 22 -27, 2008 / Daejeon, Korea

6) Number of Permanent Staff 7

7) URL www.kcsnet.or.kr

8) Address and Permanent Contact Point

34-1, 5-ga, Anam-dong, Seongbuk-gu
Seoul 136-075, Korea
Phone) +82-2-953-2095
Fax) +82-2-953-2093
e-mail : kcschem@kcsnet.or.kr

8. Kuwait Chemical Society

- 1) Number of Members (annual fee paid numbers)** 240
- 2) Annual Budget (in USD)** USD 42,000
- 3) List of Periodic Publications** Kuwait Chemical Society journal (Alchemyaya)

4) 2008 President Profile



Dr. Abdulaziz A. AlNajjar

Applied Science,
College of Technological
Studies,
Public Authority of Applied
Education and Training
P.O. Box 34484
Adeilia 73255, Kuwait
e-mail:
anajjar_55@yahoo.com

- 1979 B.Sc, Kuwait University, KW
1986 M. S., University of Scranton, USA
1993 Ph.D, University of Essex, UK
1993 Assistant Professor
2000 Associate Professor

Professional Experience

Post-Doctoral Research Fellow, College of Chemistry, University of Cairo, Egypt

Membership in Scientific Professional Societies

President, Kuwait Chemical Society	President
Union of Arab Chemists	Member
Federation of Asian chemical Societies	Member
International Union of Pure & Applied Chemistry	Member

Experience & Administrative Experience

- Head of Applied Science Department, Sept.1993 - Sept. 1998.
- Preparing and Participate in Professional Training Course for Industry, Academic and Society.
- Editor-In-Chief of Kuwait Chemical Society Journal.
- Chairman of Development Committee for High School (Ministry of Education) Industry Branch.
- Member of many scientific and developing committees national and international.
- Attended many Conferences and symposium national and international.

Research Interest

- Synthesis organometalic compounds and studies there biological effect.
- Synthesis of heterocyclic organic compounds.
- Improving teaching and learning.

5) Planned Local and International Conferences in 2008

The investment of the Industry opportunity in the oil sector

6) Number of Permanent Staff 3

7) URL www.kcswk.org (under construction)

8) Address and Permanent Contact Point

P.O. BOX: 39151
Nuzhah - 73052, Kuwait
Phone: +965 2510351
Fax: +965 2525930
e- mail: kw_chemical@hotmail.com

9. Institut Kimia Malaysia (IKM)

- 1) Number of Members (annual fee paid numbers)** 2,416
- 2) Annual Budget (in USD)** USD 500,000
- 3) List of Periodic Publications**
- Berita IKM – Chemistry in Malaysia (a quarterly Publication)
 - Kimia Kini (a semi-annual chemistry education publication)
 - Malaysia Journal of Chemistry (an e-publication on IKM)

4) 2008 President Profile



Datuk Dr. Ting-Kueh, Soon

Dr. Soon graduated from University of Malaya with B. Sc. Hons (Chemistry) in 1972 and obtained his Ph. D. majoring in physical organic chemistry from the same university in 1975. He then joined the Tunku Abdul Rahman College as a Senior Lecturer and has since been serving the College in various capacities until his retirement in 2003.

- President, Institut Kimia Malaysia (IKM) (2007)
- Chairman, Board of Directors, K.I.S.M. Sdn Bhd (2002)
- President, Immediate Past President, Malaysian Scientific Association (MSA) (1996 - 2006)
- Vice Chairman, Board of Trustees, International Foundation for Science (IFS) from 2007 (Member, BOT since 2001)
- Director of Projects, Federation of Asian Scientific Academies and Societies (FASAS) from October 2003 (Honorary Secretary from 1999-2003)
- Member of Executive Committee, Association of Academies of Sciences in Asia (AASA) from 2006
- President, the Federation of Asian Chemical Societies (FACS) for 2007 – 09
 - Editor-in-Chief of WENCOM's Higher Education Guide from 1996–98
 - Member of Editorial Board of Malaysian Oil Science and Technology since 1990.
- National Council for Scientific Research and Development (MPKSN) Award 2000 for Promoting Public Understanding of Science and Technology
- Third World Network of Scientific Organizations (TWNISO) National Award for Public Understanding of Science 1993
- Institut Kimia Malaysia Gold Medal 2002 for distinctive contribution to the profession of chemistry in Malaysia
- MSA Golden Jubilee Meritorious Award 2005 for significant contributions to science and technology development in Malaysia
- P.J.N. (Panglima Jasa Negara which carries the title "Datuk") in 2001
- K.M.N. (Kesatria Mangku Negara) in 1995

5) Planned Local and International Conferences in 2008

- *41st Annual General Meeting (41AGM) 2008*
March 29, 2008 / Petaling Jaya, Selangor Darul Ehsan, Malaysia
- *Seminar on Awareness of REACH and GHS*
March 29, 2008 at the same venue
- *5th Malaysian International Conference Essential Oils and Fragrance and Flavour Materials (MICEOFF5) 2008*
Oct. 28 - 30, 2008 / PWTC, Kuala Lumpur, Malaysia
- *Malam Kimia 2008* in December 2008
- *Malaysian Chemistry Festival (MCF) 2008*
- *Kuiz Kimia Kebangsaan Malaysia (K3M) 2008*
July 17, 2008
- *ASIANALYSIS X 2009*

6) Number of Permanent Staff 4

7) URL www.ikm.org.my

8) Address and Permanent Contact Point

INSTITUT KIMIA MALAYSIA
127B, Jalan Aminuddin Baki
Taman Tun Dr Ismail
60000 Kuala Lumpur, Malaysia
Phone: +603 - 7728 3272
Fax: +603 - 7728 9909
e-mail: ikmmy@tm.net.my

10. Mongolian Chemical Society

- 1) **Number of Members (annual fee paid numbers)** 200
- 2) **Annual Budget (in USD)** USD 2,000
- 3) **List of Periodic Publications** Report of MCS (ones a year)
- 4) **2008 President Profile**



Dr. Barnasan Purevsuren

Doctor (Sc.D), prof. Barnasan Purevsuren was born in Bayankhongor province of Mongolia in 1953. Since 1979 Prof. B. Purevsuren is working as a scientific researcher in the Institute of Chemistry and Chemical Technology (ICCT) of the Mongolian Academy of Sciences (MAS) and since 2001 he is working as a director of ICCT, MAS.

Prof. B. Purevsuren was elected as a president of the Mongolian Chemical Society in 2005 during II congress of MCS. He is a scientist in the field of synthesis of polymers and coal chemistry and technology. He had published 4 monographs, more than 200 published papers and presentations in local and international journals, local and international simposiums and conferences.

Planned policy

- Organization of local and international conferences on chemistry and chemical technology
- Supporting and contribution of knowledge of chemistry and chemical technology in Mongolia
- Supporting chemistry olympiad for pupils and students in Mongolia
- Supporting of environmental problems of chemistry and chemical technology in Mongolia

5) Planned Local and International Conferences in 2008

- *Environmental Problems of Toxic Chemicals*
November, 2008

6) Number of Permanent Staff 1

7) URL Under construction

8) Address and Permanent Contact Point

Bayanzurkh district, Ulaanbaatar-51, Mongolia
Phone: +976-11-453133 Fax: +976-11-453133
e-mail: society.mnchem@yahoo.com
purevsuren@icct.mas.ac.mn
purevsuren_b@yahoo.com

11. Nepal Chemical Society

- 1) Number of Members (annual fee paid numbers)** about 950
- 2) Annual Budget (in USD)** USD 2000
- 3) List of Periodic Publications**
- Journal of Nepal Chemical Society
 - Bulletin of Nepal Chemical Society

4) 2008 President Profile



• **Field of Specialization**

Medicinal Chemistry

• **Other Affiliations**

Member of Academic Council, Nepal Academy of Science and Technology (NAST)

- Presently nominated as Asst.-Campus Chief of Tri-Chandra Multiple Campus, Kathmandu, Nepal

Dr. Ram Narayan Jha

Department of Chemistry
Tri-Chandra Multiple Campus
Tribhuvan
University Kathmandu, Nepal
e-mail:
jha_ramnarayan@yahoo.com

5) Planned Local and International Conferences in 2008

- *Soft Matter Colloquium (National)*
Feb. 24, 2008 / Kathmandu
- *Chemical Congress 2008, Nepal (International)*
May 23-25, 2008, Kathmandu
- *Annual General Meeting of Nepal Chemical Society National*
Sept. 2008 / Kathmandu
- *Chemical Symposium 2008 (National)*
Sept. 2008 / Kathmandu

6) Number of Permanent Staff None

7) URL www.ncs.org.np

8) Address and Permanent Contact Point

Post Box No. 6145
Kathmandu, Nepal

12. New Zealand Institute of Chemistry Inc.

- 1) Number of Members (annual fee paid numbers)** 780
- 2) Annual Budget (in USD)** USD 83,000
- 3) List of Periodic Publications**
- Chemistry in NZ (four issues)
 - ChemNZ (four issues per year)

4) 2008 President Profile



Prof. Bill Henderson
Chemistry Department
University of Waikato

Bill Henderson was born in the north east of England (County Durham) and obtained his BSc and PhD degrees at the University of Leicester, UK. Following a period of postdoctoral research at Northwestern University (USA) with Prof. Du Shriver, he spent two and a half years in the chemical industry in the UK. In 1992 he was appointed to a lectureship at the University of Waikato, where he has been since. He has recently completed two terms as chairperson of the department of chemistry. Research interests include the chemistry of the platinum metals and gold, applications of mass spectrometry to inorganic synthesis and characterisation, and organophosphorus chemistry. He has co-authored over 160 journal articles and three books, and has had a longstanding collaboration with Prof. Andy Hor at the National University of Singapore in the chemistry of platinum sulfide complexes.

5) Planned Local and International Conferences in 2008

- *Biennial NZIC Conference*
November 30 - December 4, 2008
University of Otago, Dunedin
- *Inorganic Chemistry Conference (IC08)*
December 14 - 18, 2008
University of Canterbury, Christchurch

6) Number of Permanent Staff 1

7) URL www.nzic.org.nz

8) Address and Permanent Contact Point

PO Box 39112, Harewood
Christchurch 8545
New Zealand

13. The Philippines Federation of Chemistry Societies (PFCS)

1) Number of Members (annual fee paid numbers) We do not have direct members since PFCS is federation of five organizations; however, we can reach about 3000 chemists and students through these five organizations.

2) Annual Budget (in USD) USD 8,600

3) List of Periodic Publications Philippine Chemical News - a newsletter
KIMIKA - research journal published by the Kapisanang Kimika ng Pilipinas (Chemical Society of the Philippines) which is a member organization; PFCS provides partial financial support to the journal.

4) 2008 President Profile



Dr. Maribel Nonato

3rd Floor Dean's Office,
Main Bldg.
University of Santo Tomas
España Blvd. Sampaloc,
Manila 1015
Philippines

Phone:
+63-2-4061611 local 8224
+63-2-7315728

Fax: (63-2)7409730

e-mail:
mgnonato@mnl.ust.edu.ph
pandans2001@yahoo.com

Dean, College of Science, University of Santo Tomas
Professor of Chemistry, College of Science UST
Member, University Academic Senate
Member, Graduate School Faculty Council

Education

1978 B.S. Chemistry, University of Santo Tomas (UST), Manila
1986 M.Sc. Chemistry, University of Santo Tomas, Manila
1993 Ph.D. University of Wollongong, NSW Australia

Experiences

2000 - 2007 Director, Research Center for the Natural Sciences, UST
2006 - 2007 Acting Assistant to the Rector for Research and Development, UST
2001 - 2007 Discipline Consultant, Natural Sciences Cluster, UST Graduate School
2000 - 2007 Editor, Acta Manilana.
2006 - 2008 Vice President, Philippine Federation of Chemistry Societies
2006 - 2007 Member, Rector's Advisory Committee, UST
2000 - 2005 Member, S & T Flagship, University Research Council
2005 - 2005 Member UST Administration Panel, Dangal Award Search Committee
2002 - 2005 Board Member, Natural Products Society of the Philippines
2000 - 2006 Secretary, Philippine Federation of Chemistry Societies
2000 - present Treasurer, Thomasian Chemists Alumni Association

5) Planned Local and International Conferences in 2008

- *10th Eurasia Conference in the Chemical Sciences and the 23rd Philippine Chemistry Congress*
January 7-11, 2008 / PICC, Manila, Philippines
- *Asia Pacific Conference on Chemistry Education and the 24th Philippine Chemistry Congress*
April 15-17, 2009 / Tagbilaran City, Bohol, Philippines
- Seminars and activities organized by the member organizations for Chemistry Week, 2008
Feb. 15-23, 2008, Manila, Philippines

6) Number of Permanent Staff 1

7) URL www.philippinechem.org

8) Address and Permanent Contact Point

Unit 235 Cityland Pioneer Condominium
128 Pioneer Street, Highway hills
Mandaluyong City, Philippines
Telefax: +632-637-5158
Email: pfcspres@philippinechem.org
pfcsec@philippinechem.org

14. The Saudi Chemical Society

1) Number of Members (annual fee paid numbers) 1,000

2) Annual Budget (in USD) USD 80,000

3) List of Periodic Publications

- Journal of Saudi Chemical Society (quarterly journal : SCI)
- Arabian Journal of Chemistry (quarterly journal : SCI)
- Chemistry (twice a year magazine)
- Chemical Education (once a year magazine)
- Arabian Chemist (once a year magazine)

4) 2008 President Profile



<http://faculty.ksu.edu.sa/9349/default.aspx>

EXPERIENCE

- 2007 President of the Union of Arab Chemists
- 2006 Vice-Dean of Students Affairs, King Saud University, Riyadh
- 2005 President of Saudi Chemical Society
- 2004 Editor-in-chief of Chemistry Magazine published by Saudi Chemical Society
- 2001 Assistance Professor in analytical chemistry, Department of Chemistry, King Saud University, Riyadh

EDUCATION

- 2000 Ph.D. in Analytical Chemistry, University of Loughborough, Loughborough, UK
- 1997 M.Sc. in Analytical Chemistry and Instrumentation, University of Loughborough, UK
- 1993 B.Sc. in Chemistry, King Saud University, Riyadh, Saudi Arabia

Dr. Ahmad H. Alghamdi
Associate Prof. Analytical
Chemistry
Chemistry Department
King Saud University
P.O. Box 2455
Riyadh 11451, Saudi Arabia
Tel) +966-1-4676001
Fax) +966-1-4675888
e-mail :
ahalgamdy@hotmail.com

5) Planned Local and International Conferences in 2008

- Saudi Chemical Society General Assembly Meeting

6) Number of Permanent Staff 2

7) URL www.schems.org.sa

8) Address and Permanent Contact Point

Saudi Chemical Society
Department of Chemistry
King Saud University
P O Box 2455, Riyadh 11451
Saudi Arabia
Tel) +966-1-4676028
Fax) +966-1-4675888
e-mail : support@schems.org.sa

15. Chemical Society Located in Taipei

- 1) Number of Members (annual fee paid numbers)** 1,800
- 2) Annual Budget (in USD)** USD 200,000
- 3) List of Periodic Publications**
- Journal of the Chinese Chemical Society/bimonthly in English
 - Chemistry / quarterly in Chinese

4) 2008 President Profile



http://www.ccu.edu.tw/deptche/eng/tcc_eng.html

EXPERIENCE

1992~	Professor, National Chung Cheng University
1996 ~2002	Dean, College of Science, National Chung Cheng University
1995 ~ 1996	Chairman, Chemistry Department, National Chung Cheng University
1981 ~ 1992	Professor, Tunghai University
1989 ~ 1990	Visiting Scholar, Organic Chemistry Institute, Heidelberg University, Germany
1985 ~ 1989	Chairman, Chemistry Department, Tunghai University
1983/08 ~ 1983/12	Visiting Research Professor, North Texas University, USA
1979~1981	Associate Professor, Tunghai University
1976~1979	Postdoctoral Associate, University of Utah, USA
1975 ~ 1976	Postdoctoral Associate, University of Chicago, USA

RESEARCH INTERESTS

Design and Construction of Polycyclic Molecules of Well-defined Shapes
Synthesis and Chemistry of Cage Compounds
Molecular Design of Perimeter-Modified Crown Ethers

EDUCATION

1975	Ph.D. in University of Oklahoma, USA
1970	M.S. in University of Texas, El Paso, USA
1967	B.S in Tunghai University, Taiwan

5) Planned Local and International Conferences in 2008

- *The International Symposium of Organic Reactions (ISOR)*
Nov. 20-23 2008 / Chiayi
<http://www.ccu.edu.tw/deptche/ISOR2008/>
- *New Diamond and Nano Carbons (NDN)*
May 26-29, 2008 / The Grand Hotel/Taipei
<http://ndnc.mingann.com/WWW/module/core/news/news.php>
- *World Polymer Congress (WPC Macro)*
June 29 - July 4, 2008 / Taipei International Convention Center
<http://www.pst.org.tw/Macro2008>
- *International Chemical Conference, Taipei: Analytical Chemistry (ICCT)*
Oct. 2-5, 2008 / Kaohsiung
<http://icct.chem.nsysu.edu.tw/icct>

6) Number of Permanent Staff 3 + 1 (Part-time)

7) URL chemistry.org.tw

8) Address and Permanent Contact Point

The Chemical Society Located in Taipei
P.O. Box 1-18 Nankang
Taipei 115, Taiwan, R.O.C.
Tel) +886-2-278-98573~5
Fax) +886-2-265-30438
e-mail : ccswww@gate.sinica.edu.tw

15. Chemical Society of Thailand

- 1) Number of Members (annual fee paid numbers)** 900
- 2) Annual Budget (in USD)** USD 40,000
- 3) List of Periodic Publications** None
- 4) 2008 President Profile**



President, The Chemical Society of Thailand
Green Chemistry Research Lab
Department of Chemistry
Faculty of Science
Chulalongkorn University
Bangkok 10330, Thailand
Tel/Fax: +66 2 218 7641

Supawan Tantayanon, Ph.D.

5) Planned Local and International Conferences in 2008

- *PACCON 2008*
Jan 30-Feb. 1, 2008

6) Number of Permanent Staff 1 (part-time)

7) URL www.chemsocthai.or.th (in Thai)

8) Address and Permanent Contact Point

The operation the contact address keeps changing every two years according to the working place of the elected President. These two years, the address is as follows:

Department of Chemistry
Faculty of Science
Chulalongkorn University
PhayaThai Road, Pathumwan
Bangkok 10330, Thailand

Observer Society : The Institute of Chemists PNG

- 1) Number of Members (annual fee paid numbers)** 100
- 2) Annual Budget (in USD)** USD 3,000
- 3) List of Periodic Publications** Journal of ICPNG (annual)
- 4) 2008 President Profile**



Dr. Basil Shelton Marasinghe

F8, Staff Quarters
University of PNG
National Capital District
Papua New Guinea

Office Phone:

+675 326 7223

FAX:

+675 326 0369

Home Phone:

+675 326 0377

e-mail:

basilmar@upng.ac.pg

EDUCATION

- 1974 BSc (Chem. Eng), Jadavpur University, India
- 1980 MSc, University of Bradford (U.K)
- 2000 PhD, University of New South Wales, Australia (PhD thesis in the field of Industrial Chemistry)

EXPERIENCE

- 1978-1980 Demonstrator, University of Bradford
- 1980-1985 Lecturer (1980-1985), Senior Lecturer (1985-1990), Head of the Department, University of Moratuwa (SL)
- 1992-1995 Research Assistant, University of New South Wales (Australia)
- 1998-2000 Chemist, ANCO (Australia)
- 2000-2003 Chemist, NALCO (Australia)
- 2004-present Senior Lecturer, University of PNG (Papua New Guinea)
- 1985-1990 Head of the Department, University of Moratuwa (SL)
- 1985-1990 Member of the Senate, University of Moratuwa (SL)
- 2007-present Member Chemical Standards Committee, National Institute of Standards & Industrial Technology (PNG)
- 2006-present Chief Examiner Grade 12 Chemistry, PNG
- 2008-present President, Science & Technology Society, PNG
- Editor Journal of Science & technology, PNG
- Editor-in-Chief, Journal of JICPNG

5) Planned Local and International Conferences in 2008

- *Chemistry for Development Conference*
November 2008 / University of PNG

6) Number of Permanent Staff

None

7) URL

www.icpng.org.pg

8) Address and Permanent Contact Point

P.O. Box 140,
University of PNG
NCD, Papua New Guinea
Phone: +675 326 7223
Fax: +675 326 0369
Email: basilmar@upng.ac.pg

FACS EXCO MEMBERS (2007-2009)

(as of 2008. 7. 1)

Datuk Dr. Ting-Kueh Soon (Malaysia), President

President
Institut Kimia Malaysia
129B Jalan Aminuddin Baki
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68000 Kuala Lumpur, Malaysia
Phone: +60-3-7955 0576 or +60-3-7957 8930
Fax: +60-3-7728 9909
E-mail: malsci@tm.net.my

Dr. San H. Thang (Australia), Treasurer

Senior Principal Research Scientist
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Prof. Tahsin J. Chow (Taiwan), Coordinator of Projects

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Prof. Kyung Byung Yoon (Korea), Chairman of Publications

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Fax: +82-2-706 4269
E-mail: yoonkb@sogang.ac.kr

Prof. Datin Zuriati Zakaria (Malaysia), Secretary General

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Faculty of Science and Technology
University Kebangsaan Malaysia
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E-mail: zuriz@pkriscc.ukm.my

FACS Secretariat (2007-2009)

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Fax: +60-3-7728 9909
E-mail: ikmmy@tm.net.my

Member Societies

The Royal Australian Chemical Institute, Inc; Bangladesh Chemical Society; Brunei Darussalam Institute of Chemistry; Chinese Chemical Society; Chemical Society of Fiji; Hong Kong Chemical Society; Indian Chemical Society; The Israel Chemical Society; The Chemical Society of Japan; Jordanian Chemical Society; The Korean Chemical Society; Kuwaiti Chemical Society; Institut Kimia Malaysia; Mongolian Chemical Society; Nepal Chemical Society; New Zealand Institute of Chemistry Inc; Chemical Society of Pakistan; The Philippines Federation of Chemistry Societies; The Saudi Chemical Society; Singapore National Institute of Chemistry; Institute of Chemistry, Ceylon; Chemical Society Located in Taipei; Chemical Society of Thailand; Chemical Society of Vietnam (24 members)

Observer Societies

Himpunan Kimia Indonesia; Iraqi Chemists Union; The Institute of Chemists PNG; The Mendeleev Russian Chemical Society (4 members)

MEMBER SOCIETIES

(as of 2008. 7. 1)

Prof. Ian D. Rae

President

The Royal Australian Chemical Institute, Inc.

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Australia

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Fax: +61-3-9328-2670

E-mail: iandrae@bigpond.com

URL: www.raci.org.au

Prof. M. Muhibur Rahman

President

Bangladesh Chemical Society

10/11, Eastern Plaza

Sonargaon Road, Hatirpool

Dhaka 1205, Bangladesh

Phone: +880-2-8614683

E-mail: bchemsoc@bangla.net

URL: www.chemhome-bcs.org

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