



*I***NSTITUSI JURUTERA
MALAYSIA
(Cawangan Sarawak)**

*T***HE INSTITUTION
OF ENGINEERS,
MALAYSIA
(Sarawak Branch)**



LAPORAN TAHUNAN KE-32 **2000**
32nd ANNUAL REPORT

Vision

ITEM SHALL BE THE LEADING PROFESSIONAL INSTITUTION
SPEARHEADING TECHNOLOGY AND WEALTH CREATION IN THE REGION

Mission

BE COMMERCIALY ORIENTATED
SERVE MEMBERS
ENSURE PROFESSIONALISM
SPEED UP ON POLICY DECISIONS AND
SPEAK UP ON ENGINEERING ISSUES
SPEARHEAD SET, R&D AND INNOVATION

SET = Science, Engineering and Technology



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ITEM SARAWAK BRANCH PAST CHAIRMEN

Datuk Ir. Ng Siak Khee	1667/68 1968/69 1970/71 1973/74 1974/75
Datuk Ir. Chai Boon Poh	1969/70 1975/76 1976/77 1979/80 1980/81 1982/83
Ir. James Lee Khiu En	1971/72
Ir. Lye Fah Yew	1972/73
Ir. Alfred Teo Chin Huat	1977/78 1978/79
Ir. John Lai Shang Jen	1980/82
Ir. Fung Chee Ping	1983/84
Datuk Ir. William Lai Kuet Shin	1984/85 1985/86 1988/89 1989/91 1993/94
Datuk Ir. Michael Parker	1986/87 1987/88 1991/92 1992/93
Datuk Ir. Christopher Sim Kwang Tai	1994/95 1995/96
Datu Ir. Michael Ting Kuok Ngie	1996/97
Datu Ir. Stephen Wan Tet Kyung	1997/98 1998/99
Ir. Peter Chong Chung Ping	1999/2000



INSTITUTION OF ENGINEERS, MALAYSIA SARAWAK BRANCH COMMITTEE MEMBERS 1999/2000

Chairman	:	Ir. Peter Chong Chung Ping
Vice-Chairman	:	Ir. Henry Foong Ah Ladd Ir. Nicholas Patrick
Hon. Secretary	:	Ir. Zawawi Haji Embong
Hon. Treasurer	:	Ir. Yong Kiong Choon
Committee Members	:	Ir. Ting Tiew Tuan Ir. Jason Eng Yeon Khiang Ir. Peter Ling Bee Teck (<i>resigned in December 1999</i>) Ir. Lee Hung Sang (<i>resigned on 2nd August 1999</i>)
Immediate Past Chairman	:	Datu Ir. Stephen Wan Tet Kyung

Representative

Sibu Region	:	Ir. Wong Fu Toh
Bintulu Region	:	Ir. Abdul Nasser Abdul Wahab

Chairman for Sub-Committees

Book Project	:	Ir. Peter Chong Chung Ping Dr. Bujang Bin Kim Huat Dr. Ng Chee Khoo
Graduate	:	Mr. John Lau Lee Yii
Newsletter & Publication	:	Ir. Ting Tiew Tuan



SIBU REGION SUB-COMMITTEE 1999/2000

Chairman	:	Ir. Wong Fu Toh
Hon. Secretary	:	Ir. Soh Siau Chui
Hon. Treasurer	:	Ir. Vincent Tang Chok Khing
Committee Members	:	Ir. Thomas Lau King Hian Ir. Yong Ing Ho Ir. Daniel Wong Park Ing Ir. Sim Kwang Teck Ir. Rumai ak. Galis Ir. Robert Tiong Kuok Ming Ir. Tong Hing Lee Ir. Alice ak. Jawan

BINTULU REGION SUB-COMMITTEE 1999/2000

Chairman	:	Ir. Abdul Nasser Abdul Wahab
Hon. Secretary	:	Ir. Tiong Huo Chiong
Hon. Treasurer	:	Ir. Yeo Joon Chiew
Committee Members	:	Ir. Chieng Lee Hong Ir. Pantaleon Su Lai Ting Mr. Wong Tiong Kai
Co-opt Members	:	Ir. Liew Jiu Ming Ir. Tom Wong Mr. Robert King



The Institution of Engineers, Malaysia Sarawak Branch

Ultimate Professional Centre, 2nd Floor, 16 Jalan Bukit Mata Kuching, 93100 Kuching, Sarawak.
Tel: 082-428506 Fax: 082-243718 E-mail: iemsb@po.jaring.my

Our Ref.: IEM/SB/1(B)

9 May 2000

To: All Members
The Institute of Engineers, Malaysia (Sarawak Branch)

Re: Notice of 32nd Annual General Meeting
schedule on Saturday, 24th June 2000 at 9.30 a.m. Sat, 30/06/2001 at 9.30am.

According to the Branch By-Laws (revised and approved 1st August 1998), notice is hereby given that the 32nd AGM of the Institution of Engineers, Malaysia (Sarawak Branch) will be held at Ultimate Professional Centre's Auditorium, 3rd Floor, 16 Jalan Bukit Mata Kuching, 93100 Kuching on Saturday, 24th June 2000 at 9.30a.m.

The 32nd Annual Dinner will be held on the second weekend of July 2000. The details will be made known to you at a later date.

Agenda for the 32nd Annual General Meeting are as follows:-

- 1) Welcoming Address by Chairman
- 2) Confirmation of Minutes of the 31st AGM held on 25th June 1999
- 3) Matters Arising
- 4) Chairman's Annual Report
- 5) Honorary Treasurer's Report
- 6) Announcement of Election result for Branch Committee Session 2000/2001
- 7) Election of Honorary Auditors, two persons and an External Auditor
- 8) New Chairman's Address 2000/2001
- 9) Any other Business

Lunch will be served at the adjournment of the AGM. Kindly register your intention to attend the AGM to facilitate catering purpose.

Yours faithfully,

Ir. Zawawi Embong
Hon. Secretary

c.c. Hon. Secretary, IEM HQ
Chairman, IEM (Sarawak Branch)

*2) Add. by the IEM President (Sess. 2001/2002)

*6) Ann. of Results of Election for B.C. (Session 2001/2002)

The 32nd Ann Dinner will be held on a date to be announced by the org. comm.



The Institution of Engineers, Malaysia Sarawak Branch

IEM/SB/MINUTES
31st AGM 1999

Minutes of the 31st AGM held on Friday, 25th June 1999 at 10.00 a.m. at 3rd Floor,
Ultimate Professional Centre, 16 Jalan Bukit Mata Kuching, 93100 Kuching, Sarawak.

Attendance list as attached in Appendix A/AGM/99.

QUORUM

According to the By-Law No. 39 of the Branch By-Laws (Revised and Approved on 1st August 1998), the Quorum required as minimum of 20 Corporate Members. This was achieved at the 31st AGM, which was attended by 39 members.

AGM/99/1 Welcome Address by Chairman

The Branch Chairman, Ir. Stephen Wan Tet Kyung took the chair and welcomed in particular, YBhg. Datuk Ir. Dr. Haji Ahmad Zaidee bin Laidin, the President of IEM for Kuala Lumpur Headquarters. He also welcome the presence of the Chairman of IEM Miri Branch, Ir. Peter Chia Chhau Khiong.

The President of IEM was invited to deliver his first ever speech at the AGM of IEM Sarawak Branch. YBhg. Datuk Ir. Dr. Haji Ahmad Zaidee bin Laidin said that members not only need to strive for professional excellence but also be entrepreneurial and play a role in Society. He urged that IEM, as an organisation should also be entrepreneurial so that the expenses in servicing the members would not be dependent on membership subscription, but from income generated by professional services and product. He wished the IEM Sarawak Branch well and was happy to be able to meet and speak at the 31st AGM. He noted the many activities that had been organised by IEM Sarawak Branch in the past years and hoped that the incoming Committee would continue with the activities to promote the aims of the IEM.

AGM/99/2 Confirmation of Minutes of 30th AGM held on 27th June 1998

The minutes was read and confirmed upon being proposed by Ir. Simon Lau and seconded by Ir. Soon Choon Hule.

AGM/99/3 Matters Arising

There were no matters arising at the Meeting.

AGM/99/4 Chairman's Report

The Branch Chairman, Ir. Stephen Wan, read and highlighted the significant events and activities, which were printed in the 31st Annual Report from pages 11 to 26. This being his second session as Chairman and according to By-Law (13), he would vacate his Chairmanship. He wished to record his sincere thanks to the Branch Committee and other Sub-Committees for being very supportive and active during the Sessions.



He noted that the incoming Committee have the responsibility of continuing with the Book Project "A Century of Engineering in Sarawak, Year 1900-2000" and courses and seminars to keep its Secretariat very busy.

AGM/99/5 Hon. Treasurer's Report

The Hon. Treasurer, Ir. Simon Lau, presented the Hon. Treasurer's Report. It was noted the financial position of the IEM Sarawak Branch remained healthy. The total fund available as at 31st March 1999 was RM102,565.49. There being no query raised, the Hon. Treasurer's Report was accepted after being proposed by Ir. Jason Eng and seconded by Ir. Philip Chen.

AGM/99/6 Any Other Business

- (i) Ir. Simon Lau proposed that the subsidy from Headquarters be increased from 40% to 60% of the subscription of members. Ir. Peter Chia, the Chairman of IEM Miri Branch, seconded the proposal, the reason being members in Sarawak and for that matter, members in IEM Sabah Branch could not use the facilities offered in Bangunan Ingenieur. The cost of traveling from Sarawak to Kuala Lumpur is as good as traveling to a foreign land. In order to make the branches in Borneo more autonomous the request for 60% of the annual subscription be returned to the branches considered reasonable.

The IEM President stated that he would bring up the matter to the Council for consideration. As he stated earlier, the IEM should be entrepreneurial and generate its own income to service the members and pursue the aims of the Institution.

- (ii) Ir. Zawawi Haji Embong proposed that IEM Sarawak be involved in some business to sustain its activities. He suggested IEM Sarawak to study the MOU that was signed between IEM Sabah Branch with the Ministry of Rural Development on rural project under the IEM/Telford Challenge. The proposal was well accepted and the IEM Sarawak Branch would pursue this matter actively. It would be viewed as an active contribution of IEM towards the social service of raising on living standards in rural area.
- (iii) On the matter of franchising of BEM courses, the IEM President informed that the BEM would franchise the training activities to IEM Headquarters, which would pass on the Branches. In time to come, BEM might require Engineers in Malaysia to attend courses, seminars and conferences to update their technical knowledge. Failing to attend a minimum number of hours, their professional status could be jeopardised.
- (iv) Ir. Lou Chi Tong suggested that IEM Sarawak Branch applied for industrial land from the State Government to enter into business activities. The matter of ownership of landed properties at Branch level was discussed. The IEM President stated that IEM Headquarters are consulting legal opinion for the Branches to own properties and the Branch should then be responsible for its liabilities.

**AGM/99/7 Announcement of Election Results for Branch Committee Session 1999/2000**

The Graduate Committee, headed by Mr. Leslie Chai under the supervision of the Hon. Secretary and the Branch Committee, informed that the method of nomination and balloting followed closely the procedure used by the Election Officer at the Headquarters. Notice of Nomination was sent out on 6th May 1999 and the closing date for the nomination was fixed on 21st May 1999. One (1) nomination was received for each of the following post, i.e.:

(i)	Chairman	:	Ir. Peter Chong Chung Ping
(ii)	Vice-Chairman	:	Ir. Henry Foong Ah Ladd
(iii)	Vice-Chairman	:	Ir. Nicholas Patrick
(iv)	Hon. Secretary	:	Ir. Zawawi Haji Embong
(v)	Hon. Treasurer	:	Ir. Yong Kiong Choon
(vi)	Committee Member (Civil)	:	Ir. Peter Ling Bee Teck
(vii)	Committee Member (Electrical)	:	Ir. Jason Eng Yeon Khiang
(viii)	Committee Member (Mechanical)	:	Ir. Lee Hung Sang
(ix)	Committee Member (General)	:	Ir. Ting Tiew Tuan

They were declared elected unopposed. Therefore, no balloting paper was required.

In summary, the following were declared Office-Bearers and Committee Members of IEM Sarawak Branch for 1999/2000 Session:

(i)	Chairman	:	Ir. Peter Chong Chung Ping
(ii)	Vice-Chairman	:	Ir. Henry Foong Ah Ladd
(iii)	Vice-Chairman	:	Ir. Nicholas Patrick
(iv)	Hon. Secretary	:	Ir. Zawawi Haji Embong
(v)	Hon. Treasurer	:	Ir. Yong Kiong Choon
(vi)	Committee Member (Civil)	:	Ir. Peter Ling Bee Teck
(vii)	Committee Member (Electrical)	:	Ir. Jason Eng Yeon Khiang
(viii)	Committee Member (Mechanical)	:	Ir. Lee Hung Sang
(ix)	Committee Member (General)	:	Ir. Ting Tiew Tuan

AGM/99/8 Nomination and Election of 2 Branch Auditors (By-Law No. 36)

2 Honorary Auditors were appointed as follows:

- (i) Ir. Kuek Eng Guan was proposed by Ir. Stephen Wan Tet Kyung and seconded by Ir. Henry Foong.
- (ii) Ir. Lou Chi Tung was proposed by Ir. Peter Chong Chung Ping and seconded by Ir. Simon Lau.



AGM/99/9 New Chairman's (1999/2000 Session) Address

The new Chairman, Ir. Peter Chong Chung Ping acknowledged the confidence of the outgoing Committee in electing him as the Chairman. Although it was an honour, he was conscious of the responsibility entrusted to him. He urged the new Committee to work actively.

As the Branch had achieved 31 years of age, it should now be matured enough to venture into other areas. He felt that IEM should model after the voluntary service clubs to service the community. Unless engineers are active in societies, their technical contributions would not be recognised.

He also noted that IEM Sarawak Branch had not established any sort of tradition and culture which should be carried out so that the society recognised such traditions as those organised by the engineers. He requested the support and advice of IEM Headquarters to strive to make IEM the premier professional organisation pivotal to Malaysia achieving vision 2020.

As Hon. Secretary for the Branch in the past three (3) years, it has now established that the AGM and Annual Dinner will be held at the last week end of June, every year.

With his frequent attendance at the Council Meeting, representing the Sarawak representative, he had made contacts with the staff and also Office Bearers and Councillors of IEM. Such personal contact made working relationship more cordial and efficient.

There being no other matters discussed, the Meeting adjourned at 11.30 a.m.

Ir. Zawawi Haji Embong
(Hon. Secretary)

Ir. Peter Chong Chung Ping
(Chairman)



**Members Present at the 31st Annual General Meeting of The Institution of Engineers,
Malaysia, Sarawak Branch held on Friday, 25th June 1999 at 10.00 a.m. at 3rd Floor,
Ultimate Professional Centre, 16 Jalan Bukit Mata Kuching, 93100 Kuching**

Ir. Stephen Wan Tet Kyung	:	Chairman
A/Prof. Dr. Bujang bin Kim Huat	:	Vice-Chairman
Ir. Peter Chong Chung Ping	:	Hon. Secretary
Ir. Simon Lau Han Ping	:	Hon. Treasurer
Ir. Zawawi Haji Embong	:	Committee Member (Civil)
Ir. Henry Foong Ah Ladd	:	Committee Member (Electrical)
Ir. Azman Bujang	:	Committee Member (Mechanical)

<u>Name</u>	<u>Membership No.</u>
1. Dato' Ir. Ahmad Zaidee Laidin	F 1019
2. Ir. Lee Hung Sang	M 4587
3. Ir. Ting Tiew Tuan	M 12284
4. Mr. William Tan Khoo Lee	G 19339
5. Ir. Michael Ngu	M 02395
6. Ir. Ong Chiang Ann	M 02516
7. Mr. John Lau Lee Yil	G 16931
8. Mr. Leslie Chai Kim Pau	G 15582
9. Ir. Soon Choon Huie	M 1723
10. Ir. Lee Soo Song	M 03217
11. Ir. Kuek Eng Guan	M 06871
12. Ir. Chua Yaw Chiang	M 7610
13. Ir. Lou Chi Tong	M 04372
14. Ir. Lee Si Khiu	M 6058
15. Ir. Philip Chen Chow Chien	M 09486
16. Ir. Irene Lim Kim Ho	M 10281
17. Ir. Redit Robert	M 2750
18. Ir. Tan Kea Choon	M 04597



**Members Present at the 31st Annual General Meeting of The Institution of Engineers,
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<u>Name</u>	<u>Membership No.</u>
19. Ir. Alan Liew Ben Wu	M 4649
20. Ir. Chai Ching Nam	M 03989
21. Ir. Winsel Ahtos	M 02587
22. Ir. Sim Poh Beng	M 2010
23. Ir. Tan Chuan Ngan	M 3641
24. Ir. Joseph Ting Siew Mee	M 1095
25. Ir. Ngu Piew Choo	M 13655
26. Ir. Nicholas Patrick	M 14440
27. Ir. Kueh Lak Tee	M 11023
28. Ir. Peter Chia	M 9656
29. Ir. James Ling Chai Haw	M 15423
30. Ir. Tong Hing Lee	M 9607
31. Ir. Ho Szu Min	M 2833
32. Ir. Clarence Chin	M 12011
33. Ir. Dorhart Rohani	M 06664
34. Ir. Peter Ling Bee Teck	M 06241
35. Ir. Jason Eng Yeon Kiang	M 11395
36. Ir. Yong Klong Choon	M 08204





CHAIRMAN'S REPORT (1999/2000 SESSION)

Dear Fellow Engineers,

It is my honour to present the Chairman's Report on the progress and achievements of the IEM (Sarawak Branch) for the Session 1999/2000. In promoting the aim and objective of the Institution of Engineers, Malaysia, this is my 1st session as Chairman. I wish to record my sincere thanks to the Branch Committee and also several other Sub-Committees for being very active during the Session. According to By-Law (13), a Chairman may serve the Branch for two (2) Sessions. Accordingly, I have been re-endorsed to be the Chairman of IEM (Sarawak Branch) for the Session 2000/2001. I wish to thank you for your trust in me.

Significant event that I wish to highlight and record are as follows:-

1 ANNUAL REPORT 1999

The Grand Dinner was held on 25th June 1999 at the Sarawak Chamber of Crowne Plaza Riverside Kuching. The Dinner was attended by more than 600 participants. The Guest of Honour was YB Datuk Amar Dr. George Chan Hong Nam. We were honoured also by the present of Datuk Ir. Ahmad Zaidee bin Haji Laidin and Datin. During dinner, donation were presented to three (3) charitable organisations, (a) *Rumah Sri Kenangan (Jabatan Kebajikan Masyarakat Negeri Sarawak)*, (b) *National Cancer Society of Malaysia, Sarawak Branch* and (c) *The Kidney Association of Sarawak*.

The Best Student Engineering Awards were given to 2 final year students from the Faculty of Engineering, UNIMAS, in the Civil Engineering & Electronics Engineering disciplines.

2 SECRETARIAT OFFICE EXPANSION

Due to increase in activities and workload, the Secretariat moved to a larger room on the 2nd Floor, Ultimate Professional Centre, formerly occupied by Malaysian Institute of Accountants (MIA). It now has three (3) computers, three (3) incoming telephone lines and an e-mail address: iemsb@po.jaring.my

3 CONFERENCES

3.1 Conference of Asean Federation of Engineering Organisations (CAFEO)

The CAFEO-17 was held in Singapore from 18th – 20th November 1999. The theme was "The Challenges of Engineers in the New Millennium". IEM (National level) was well represented. From IEM (Sarawak Branch), the only representative was myself and with the help of Dr. Bujang Bin Kim Huat, a joint-paper was written and presented at the Conference by myself. The title of paper was "Economic Crisis: Lessons Learned and the Way Forward for Engineers".



ITEM SARAWAK BRANCH COMMITTEE MEMBERS 1999/2000



Seated : (L-R) Ir. Ting Tiew Tuan (Committee Member)
Ir. Zawawi Haji Embong (Hon. Secretary)
Ir. Peter Chong Chung Ping (Chairman)
Ir. Yong Klong Choon (Hon. Treasurer)
Ir. Jason Eng Yong Khiang (Committee Member)

Standing : (L-R) Mr. William Tan Khoon Lee (Graduate Committee)
Mr. John Lau Lee Yli (Chairman-Graduate Committee)
Dr. Bujang Bin Kim Huat (Conference Seminar/Engineers' Week Organising Chairman)
Dr. Ng Chee Khoo (Publication/Book Project Committee)

Not in the photograph : YBhg. Datu Ir. Stephen T.K. Wan (Immediate Past Chairman)
Ir. Henry Foong Ah Ladd (Vice Chairman)
Ir. Nicholas Patrick (Vice Chairman)
Ir. Wong Fu Toh (Chairman, Sibul Region)
Ir. Abdul Nasser (Chairman, Bintulu Region)
Ir. Peter Ling Bee Teck (Committee)
Ir. Lee Hung Sang (Committee)



SIBU REGION SUB-COMMITTEE 1999/2000 SESSION



Seated : (L-R) Ir. Ting Kong Siin (Advisor), Ir. Vincent Tang Chok Khing (Treasurer),
Ir. Wong Fu Toh (Chairman), Ir. Soh Siau Chui (Secretary),
Ir. Alice Ak. Jawan

Standing : (L-R) Ir. Wong Soon Hiik, Ir. Sim Kwong Teck, Ir. Robert Tiong Kuok Ming,
Ir. Tong Hing Lee, Ir. Daniel Wong Palk Ing

Not in the photograph : Ir. Thomas Lau and Ir. Rumi Ak. Galis

BINTULU REGION SUB-COMMITTEE 1999/2000 SESSION



Seated : (L-R) Ir. Yeo Joon Chiew, Ir. Abdul Nasser Abdul Wahab (Chairman),
Ir. Tiong Huo Chiong (Hon. Secretary), Ir. Liew Jiu Ming

Standing : (L-R) En. Robert King, Ir. Chheng Lee Hong, Ir. Tom Wong

Not in the photograph : Ir. Pantaleon Su, En. Wong Tiong Kai



IEM Sarawak Branch Chairman, Ir. Peter Chong Chung Ping presenting souvenir to the guest of Honour, YB Datuk Amar Dr. George Chan Hong Nam at the 31st Annual Dinner held on 25/8/1999.

Organising Committee members of the 31st Branch Annual Dinner 1999 together with Datuk Prof. Ir. Dr. Haji Ahmad Zaidi (seated, centre), Datu Ir. Stephen Wan (seated, 3rd right) and Ir. Peter Chong Chung Ping (seated, 3rd left).



IEM Sarawak Branch 31st Annual Dinner held on 25/8/1999.
Seated at the VIP table from left to right Chairman Ir. Peter Chong Chung Ping, YB Datuk Amar Dr. George Chan Hong Nam, IEM President Datuk Ir. Dr. Ahmad Zaidi Ladin, YBhg. Datu Ir. Stephen Wan T.K.



IEM Sarawak Branch Committee's Courtesy call to YB Datuk Wong Soon Koh.



The Exco Members of IEM for the session of 2000/2001 at the 41st AGM held on 15th April 2000 at P.J. Left to right: DPT Ir. Dr. Gue See Sew, President Datuk Prof. Ir. Dr. Haji Ahmad Zaidee Laklin, Hon. Secretary Ir. Vincent Chen Kim Kiong, VPs Ir. Choo Kok Beng, Ir. Peter Chong Chung Ping, Ir. Vincent Tan and A/Prof. Ir. Ruslan Hassan.



General view of participants at the Conference on "Engineering in Sarawak". Photo also shows (seated from left to right) the Chairman of the Session, YBhg. Datu Ir. Robert Voon, YB Dato Abang Zohari, Guest Speaker on "An Overview of Industrial Development in Sarawak" prior to being invited to the stage.



Presentation of memento to Guest Speaker, YB Dato Abang Zohari by YBhg. Datu Ir. Robert Voon at the Conference on "Engineering in Sarawak".



Photo shows the arrival of Guest of Honour, YB Datuk Wong Soon Koh (extreme right) Minister for Infrastructure, Development & Communications to deliver his Special Lecture: "Vision on Infrastructure Development in Sarawak for the Next Decade (2000-2009)" at the Conference on Engineering in Sarawak- 17th May 2000 also shown in the photo Dr. Bujang Bin Kim Huat (Organising Chairman) and Ir. Peter Chong Chung Ping.



Photo shows a "Happy Birthday" occasion to YB Datuk Wong Soon Koh on 16th May 2000 after officiating the "Conference on Engineering in Sarawak". Seen in the picture from (left to right) Ir. Peter Chong Chung Ping, YB Datuk Ramesy Noel Jitam, YB Datuk Wong Soon Koh, Dr. Bujang bin Kim Huat, YB Bolhassan Di and YBhg. Datu Ir. Stephen Wan.



The welcoming dinner of the Conference on Engineering in Sarawak: In the Last Century and for the Next Decade, 16th-17th May 2000 Hilton Kuching. Photo shows from left to right YB Bolhassan Di, YBhg. Datu Ir. Stephen Wan, YB Datuk Wahab Dollah, Ir. Peter Chong Chung Ping, Hon. Secretary, Ir. Zawawi Embong (standing), Guest of Honour, YB Datuk Wong Soon Koh representing YAB Chief Minister of Sarawak, Dr. Bujang Bin Kim Huat (Organising Chairman) & YB William Mawan.



Group photograph of the participants at the 2-day seminar in Sibu on 28th-29th April 2000



Head of Construction SBU of CMSB, Wan Muhamad Hatta Wan Mos (2nd left) handing over the sponsorship for Borneo Engineers' Run 2000 to the organising chairman, Zawawi Embong (right) as Construction SBU general manager Abang Azahari Osman (left), CMSB chief financial officer Jeffri Salim Davidson (centre) and IEM SB Chairman Ir. Peter Chong Chung Ping (2nd right) look on.

Participants at the Dialogue between IEM Excomm Members and Sarawak Branch Members in Holiday Inn Resort Damai Lagoon, 1st April 2000.



Photo shows Ir. Abdul Nasser, Chairman of IEM Bintulu Region giving memento to the Guest of Honour, YB Peter Nyarok Ak. Entrie at the IEM Bintulu Region Annual Dinner 2000.



Seen at the Borneo Engineers' Run 2000, Guest of Honour, YB Datuk Awang Tengah Ali Hassan together with Hon. Secretary of IEM (Sarawak Branch), President and Chairman.



IEM President, Datuk Ir. Haji Zaidee Laidin and Chairmen of IEM (Sarawak Branch), Ir. Peter Chong Chung Ping at the Borneo Engineers' Run 2000, 2nd April 2000.

Happy birthday celebration on 1st April 2000 to our President, Datuk Prof. Ir. Dr. Haji Ahmad Zaidee Laidin at Buntal Kuching prior to Borneo Engineers' Run 2000.



YB Datuk Awang Tengah Ali Hassan flagged-off 'Men Open' at the Borneo Engineers' Run 2000 at Holiday Inn Resort Damai Lagoon.

YB Datuk Awang Tengah Ali Hassan flagged-off 'Female Open' at the Borneo Engineers' Run 2000 at Holiday Inn Resort Damai Lagoon.





General scene of the Sarawak Inter-Professional Games Prize Giving Nite 1999.



The delegates of the Technical Site Visit to the Second Kuching Bridge Project walking on an adventurous path approaching the bridge pier.



Part of participants at the short course on Reinforced Soil Structures in Kuching.



Ir. Jason Eng handing over the souvenir to the representative of Serwaja Timur during the Technical Visit.



Participants at the Technical Visit to KOMAG (USA).



The next CAFEO i.e. CAFEO-18 will be held in Hanoi, Vietnam from 21st – 24th November 2000. The theme of the Conference is: "ASEAN Engineering Corporation for the Development in the New Century". It is hope that IEM (Sarawak Branch) members will be active in attending the CAFEO and also involve in AFEO, which is Asean Federation of Engineering Organisations, the Secretariat of which is based in IEM PJ, where Asean Engineers may be registered.

3.2 Conference on Engineering in Sarawak: In the Last Century and For the Next Decade, 16th- 17th May 2000

The Conference was a great success, much thanks are due to the hard-work of Dr. Bujang bin Kim Huat and his Committee. We are grateful to the support of the Ministry of Infrastructure Development & Communications and Ministry of Finance & Public Utilities. The objectives of the Conference and the forty-three (43) papers received are documented in the proceedings of the Conference. There are many policy papers outlining the vision of the government for the next decade, which should be of interest to the engineering community.

I wish to thank Dr. Bujang Bin Kim Huat and his Organising Committee and Sub-Committees for their hard-work.

This Conference is also a prelude to the Book project as described below.

4 **IEM (SARAWAK BRANCH) BOOK PROJECT**

IEM (Sarawak Branch) entered into a Contract (11th February 2000) with a team of professional writers to research, write and organise the printing of a historical book, the title of which is "A Century of Engineering in Sarawak, 1900-2000". The writers are Ms. Nikki Lugun, Mr. Michael John Reed and Mr. Wayne Tarman. The pre-publication of the Book will be launched sometime in September 2000. The completed mock copy will be ready for comments and seeking of sponsorship for publication in November 2000. It is hoped that the Book will be launched early year 2001.

From preliminary discussions with Ministers and other senior engineers and contractors, the objective of the Book has been received with great support. The Book will be dedicated to all people with engineering ingenuity who have contributed to the building of infrastructures and utilities in Sarawak. It is hoped that the Book will be a collector's item.

5 **ENGINEERS' WEEK 2000, 22ND MARCH – 2ND APRIL 2000**

The Engineers' Week 2000 was again a great success, organised by the Branch, headed by Dr. Bujang bin Kim Huat and also Ir. Zawawi Haji Embong. The theme of the week was "Engineer – A Multiple Role Profession". During the week, the following activities took place:-

5.1 Radio Interview

A radio interview was held with English Section, Radio Sarawak under the 'Personality' program. Ms. Fiona Lim and Ir. Peter Chong Chung Ping were interviewed separately.

5.2 Press Conference

A Press Conference was held on 21st March 2000 resulting in activities being printed in English, Bahasa & Chinese newspapers.



5.3 Technical Visits

Technical visits to Komag (USA), Sarwaja Timur and Kuching Second Bridge took place from 23rd – 25th March 2000. They were well attended.

5.4 IEM ExCo (National) Meeting

IEM ExCo (National) Meeting was held for the first time in Sarawak on the 1st April 2000, which was followed by a Dialogue Session with the IEM (Sarawak Branch) Committee. This was a historical event as the National IEM ExCo Meeting was never held in Sarawak before. At the Welcome Dinner held on the 1st April 2000, the gathering also celebrated the birthday of National President, Datuk Prof. Ir. Ahmad Zaidee bin Haji Laidin, with cake cutting and congratulation message, published in the two (2) English media newspapers in Sarawak.

5.5 Borneo Engineers' Run 2000

For the first time, the previously known "Engineers' Run" was renamed "Borneo Engineers' Run 2000". Due to time constraint, there were not many registration from throughout Borneo island. nevertheless, we have runners from Miri, Bintulu, Sibu and Semenanjung Malaysia. The Run was flagged-off by YB Awang Tengah Ali Hasan, representing the Chief Minister of Sarawak. We were most grateful for the main sponsorship of Cahya Mata Sarawak and also other sponsorships received. The Run was considered a great success. A vote of thanks is accorded to Ir. Zawawi Haji Embong, who is also the Hon. Secretary of IEM (Sarawak Branch). He is well supported by the young graduates section of the IEM (Sarawak Branch), without whom the Run would not be such a success.

6 SEMINARS / TALKS / COURSES HELD DURING THE SESSION

6.1 Seminar on Road Construction over Peat and New Techniques for Design and Quality Control of Stabilized Pavements, 3rd – 4th August 2000

Speakers: Ir. Dr. Toh Cheng Teik, Dr. Saoud Abdul Aziz Sultan and Julian Walters
Duration: 2 days
Attendance: 150

6.2 Seminar on Effective Presentation (Public Speaking), 15th September 1999

Speaker: Dunstan Chan
Duration: 1/2 day
Attendance: 51

6.3 Seminar on Advance Methods of Foundation Testing, 27th September 1999

Speaker: Patrick Bermingham
Duration: 1/2 day
Attendance: 34

6.4 Short Course on Construction Management, 6th – 7th December 1999

Speaker: Dr. George S. Birrell
Duration: 2 days
Attendance: 45



6.5 Short Course on Design, Construction and Repair of Concrete Structures Using Continuous Fibre and Reinforced Polymer (FRP) Materials, 9th – 10th December 1999

Speaker: Dr. Tan Kiang Hwee
Duration: 2 days
Attendance: 20

6.6 Seminar on Steel Sheet Pile Design & Application, 18th January 2000

Speaker: Boris Even
Duration: 1/2 day
Attendance: 43

6.7 Advance Course on Reinforced Soil Structures, 22nd March 2000

Speaker: Ir. Dr. Toh Cheng Teik, Ir. Dr. Loke Kean Hooi and Ir. Lee Chee Hai
Duration: 1 day
Attendance: 90

6.8 Joint Lecture on Arbitration of Construction Industry Disputes – Form and Procedure in Dealing with Technical and Quasi-Judicial Issues, 11th April 2000

Speaker: Ir. Khoo Choong Keow
Duration: 1/2 day
Attendance: 88

6.9 Talk on Importance of Site Investigation & Avoidance of Geotechnical Failures, 27th May 2000

Speaker: Ir. Dr. Gue See Sew
Duration: 1/2 day
Attendance: 42

7 HON. TREASURER'S REPORT

As can be seen from the Hon. Treasurer's Report and Auditor's Report, the accumulated fund now stand at RM116,546.91 as at 31st March 2000, which is an improvement from the accumulated fund of the previous Session.

The operation cost of the administrative expenditure of the Branch has increased tremendously. The expenditure is now RM59,965.11. It shows the great increase of activities organised by the administrative office. Expenses on Book Project will be recovered from sale of the book.

8 BRANCH INVOLVEMENT IN SOCIAL ACTIVITIES

8.1 Community Engineers

The registration of Community Engineer is to encourage engineers to serve in the community, particularly in the area of promoting the study of engineering in the schools. The service to the community can be extended to advising the public on the proper maintenance and preservation of the built infrastructure and utilities.



8.2 IEM Telford Challenge

This challenge is under the umbrella of community engineers, described above. The objective is to encourage engineers to be involved in rural project undertaken by the government to eradicate poverty and lack of amenities in the rural community.

We should pursue involvement in social activities so as to contribute to the well being of the society. In this manner, engineers' position and status will be recognised by the society and the public.

9 ELECTION TO VICE PRESIDENT POST AT THE IEM NATIONAL LEVEL

During the month of April 2000, Ir. Peter Chong Chung Ping stood for election to the Vice President post in the overall IEM Election exercise. He was successfully elected with the highest number of vote.

This is the first time an engineer from Sarawak has been elected to the position. It is hoped that IEM (Sarawak Branch) will play a greater role in the national body and also bring recognition of IEM (Sarawak Branch)'s contribution to the State and the nation.

10 CONCLUSION

In conclusion, I wish to record my thanks to the support I received from Committee Members and also Invited Committee Members for a very successful 1999/2000 Session. It is hoped that established event such as the Borneo Engineers' Run 2000, frequent courses and seminars, occasional conference, may be maintained in future years. There were 18 days of activities including AGM and Dinner 1999. There were 10 Branch Meetings and no less 18 Sub-Committee Meetings held.

IEM (Sarawak Branch) must be seen to be expanding and be involved in society so that it will become a spokesman on issues related to engineering issues.

Signed:

Ir. Peter Chong Chung Ping
Chairman of IEM (Sarawak Branch)

Date: 31st May 2000



HONORARY TREASURER'S REPORT

I have the pleasure to submit herewith the audited account of the Institution of Engineers, Malaysia (Sarawak Branch) for the year ended 31 March 2000.

In departure from the past practice of using appointed member-auditor to verify the account, the EXCO had decided to use a professional external auditor to prepare and audit the account. The audited account, consisting of the Auditor's Report, Balance Sheet, Income & Expenditure Account, and Notes to the Accounts, shows a surplus for the year of amount RM12,876.00.

No comparative figures for last year were provided as this was the first externally audited account for the Institution. Comparative year-to-year figures will be provided beginning next year.

I wish to take this opportunity to extend my gratitude to members who had provided all the much needed support in ensuring full participation in organised activities, such as, Engineers' Run, Annual Dinner and courses which were income-generating activities that had provided the much needed infusion of fund to the Institution. My gratitude also goes to the EXCO members for their kind support and assistance in making my task a pleasant one.

Lastly, I request for your consent to accept the account as submitted.

Thank you.

Ir. Yong Kiong Choon
Honorary Treasurer
IEM Sarawak Branch





MEMBER FIRM OF
MALAYSIAN INSTITUTE OF ACCOUNTANTS

RICHARD KIEW & COMPANY

PUBLIC ACCOUNTANTS
APPROVED COMPANY AUDITORS



1st Floor, 10A Lorong 4 Nanas Road 93400 Kuching, Sarawak. P.O. Box 2536, 93750 Kuching, Sarawak. Tel: 082-254758/254394 Fax: 082-254394

REPORT OF THE AUDITORS
TO THE MEMBERS OF
THE INSTITUTION OF ENGINEERS, MALAYSIA
SARAWAK BRANCH

We have audited the accounts set out on pages 2 to 4 of The Institution of Engineers, Malaysia, Sarawak Branch and accordingly, included such tests of the accounting records and such other auditing procedures as we considered appropriate in the circumstances except as explained in the following paragraph.

Owing to the nature of the accounting records, we were unable to satisfy ourselves as to the completeness of these records and have accepted assurances from the accounting staff that all the Institution's transactions have been reflected in the records.

In our opinion, subject to the effects of adjustments, if any, as might have been required:-

- i) the accounts give a true and fair view of the state of affairs of the Institution at 31 March 2000 and of the results of the Institution for the year ended on that date; and
- ii) proper accounting and other records kept by the Institution have been properly kept.

Richard Kiew & Company
RICHARD KIEW & COMPANY
Public Accountants

Dated: 27 MAY 2000

KUCHING


RICHARD KIEW JIAT FONG (PAM) FCA FCCA FTII CPA




**THE INSTITUTION OF ENGINEERS, MALAYSIA
(SARAWAK BRANCH)**

BALANCE SHEET AS AT 31 MARCH 2000

	<u>RM</u>
CURRENT ASSETS	
Sundry debtor	1,000.00
Deposits & prepayment	2,600.00
Fixed deposit	50,668.96
Bank balance	62,063.37
Cash in hand	350.83
	<u>116,683.16</u>
Deduct: CURRENT LIABILITIES	
Accrual	500.00
Loan from headquarters for book project	10,000.00
	<u>10,500.00</u>
NET CURRENT ASSETS	<u>106,183.16</u>
FIXED ASSETS, note 1(b)	10,363.75
	<u><u>116,546.91</u></u>
 <i>Financed by:-</i>	
ACCUMULATED FUND	
Accumulated surplus brought forward	103,670.91
Surplus for the year	<u>12,876.00</u>
	<u><u>116,546.91</u></u>


Chairman


Treasurer

Dated: 27 MAY 2000

KUCHING

The notes on page 4 form an integral part of the accounts.



THE INSTITUTION OF ENGINEERS, MALAYSIA
(SARAWAK BRANCH)

INCOME AND EXPENDITURE ACCOUNT

FOR THE YEAR ENDED 31 MARCH 2000

	<u>RM</u>
OPERATING INCOME	
Annual dinner	49,080.00
Courses organised	27,978.48
Engineers' run 2000	47,848.40
Grant	40,000.00
IEM Conference	6,200.00
Interest from fixed deposit	993.43
Selling of log books, code of Ethics, etc	324.00
Subsidy from parent institution	<u>31,750.00</u>
Total operating income	<u>204,174.31</u>
Less: OPERATING EXPENDITURE	
Annual dinner	35,883.52
Courses organised	16,003.50
Engineers' run 1999 & 2000	17,867.70
Donation	3,271.98
Inter-profession games	2,052.50
Souvenirs	1,279.00
Subsidy to regional committee	<u>5,050.00</u>
	81,408.20
ADMINISTRATIVE EXPENDITURE, note 2	59,965.11
BOOK PROJECT, note 3	<u>49,925.00</u>
	<u>191,298.31</u>
SURPLUS FOR THE YEAR CARRIED FORWARD TO BALANCE SHEET	<u>12,876.00</u>

The notes on page 4 form an integral part of the accounts.



THE INSTITUTION OF ENGINEERS, MALAYSIA
(SARAWAK BRANCH)

NOTES TO THE ACCOUNTS - 31 MARCH 2000

1. SIGNIFICANT ACCOUNTING POLICIES

(a) Basis of accounting

The accounts of the institution have been prepared under the historical cost convention and comply with approved accounting standard.

(b) Depreciation

It is the past practice of the institution not to provide for depreciation of fixed assets. This is not in accordance with IAS4. Fixed assets are taken up at cost.

2. ADMINISTRATIVE EXPENDITURE

This represents expenses incurred in relation to:-

	<u>RM</u>
Salary, allowances & bonus	16,151.95
EPF & socso contribution	1,465.00
Printing & stationery	18,939.98
Postage	3,936.20
Motor vehicle expenses	1,242.74
General expenses	1,253.29
AGM backdrop	100.00
Bank charges	59.52
Repair & maintenance	640.00
Advertisement	1,102.40
Telephone, fax & jaring	4,693.69
UPC - office, function room rental	5,992.79
Travelling expenses	1,446.50
Office refreshment & meeting expenses	2,441.05
Auditors' remuneration	<u>500.00</u>
	<u>59,965.11</u>

3. BOOK PROJECT

The institution is currently embarking on a book project in respect of engineering in Sarawak.





**Speech by YB DATUK WONG SOON KOH
Minister for Infrastructure Development & Communications
at The IEM Conference Opening Ceremony on 16 May, 2000**

I am deeply honoured to have given this opportunity to address you this evening. Firstly, because I am speaking to the very people whose professional duties and undertakings bear direct relevance to the works of my ministry. Secondly, because this must have been one of the very rare occasions that I can have the opportunity to address in one place at the same time what must be the largest gathering of engineers from the various region of Sarawak.

It is also praiseworthy to note that participants in this Conference are drawn from a good cross-section of our professional and technical workforce. I am confident that given the diversity of your background and expertise, there will be a fruitful exchange of views and experiences in all fields of engineering or engineering-related knowledge. Your collective effort and the resultant collective knowledge can be of great value to all of you, what one man can accomplish single-handed, during his entire lifetime, is but meagre at best, no matter how knowledgeable he may be. The self-limiting nature of an individual effort is obvious. In this regard, I would like to quote one ancient Chinese Philosopher, Chuangtse who pointed out the self-limiting nature of an individual and the subjectivity of knowledge - he said:

In an argument between you and me, you think you have got the better of me, and I will not admit your superiority. Then, are you really right and I really wrong? I think I have got the better of you and you will not admit my superiority - then, am I really right and you really wrong? or perhaps are we both right or perhaps are we both wrong? This you and I cannot know. These are shrouded in darkness, and who is going to establish the truth? If we let a man who agrees with you establish it, then, he already agrees with you, so how could he establish it? If we let one who agrees with me establish the truth, then he already agrees with me, so how could he establish it? If we let one who disagrees with both of us establish the truth, then he already disagrees with both of us, so how could he establish it? If we let one who agrees with both of us establish the truth, then he already agrees with both of us, so how could he establish it? Thus, you and I cannot know the truth, according to Chuangtse therefore, it requires many, many people to come together to find the 'Tao' - the way, the truth, the correct way.

Therefore success in this world is not always an individual's effort, there is no such thing as success without a network of loyal friends and supporters. A winning football team is one that best co-ordinates the efforts of its players. It is the same in all other human endeavours. It is therefore my hope that IEM is a winning team that can best co-ordinate the efforts of its members. I would like to look upon IEM as a strong base which will emanate intelligent view points and well-informed knowledge which can guide the thinking and attitudes of the engineering fraternity.

The theme of your conference is "Engineering in Sarawak In the last century and for me next decade". Last century - that reminds us of the good old days, that also reminds us of our simple life styles, poorer working conditions, that also reminds us of things old, obsolete and antiquated.



Antiques are usually valuable items equated with high quality - the value of works by Leonardo de Vinci or Picasso increases with time. They are not only antiques but also masterpieces. But while Mona Lisa may be valuable for its antiquity, being antiquated in other things could mean backwardness. Slide-rule, windmills, steam engines and steam boats which were brilliantly and ingeniously designed and invented become only some amusing items to look at.

Ways of life change and the ways we go about doing things also change knowledge changes. But all these changed rather gradually in the past. Before 19th century, everything seemed to have been on the 'standstill' - but since 19th century, it was observed that some major changes occurred every now and then. Today, a significant innovation takes place almost every other week.

In his book 'Empires of Mind' - Waitley suggests that we should arm ourselves with strategies for ruling when the only rule is change.

Indeed we must change - we have to learn to innovate because we cannot expect that the accumulated knowledge, skills, competence, products services or tools of the present will be adequate for long. The pace of change is so rapid - the centre of gravity of knowledge is constantly on the move.

Change or innovation can be very simple - it can be just keen observation, some inspiration and imagination. It is not necessarily technical. There was for example not much technology involved in moving a lorry body off the wheels and putting it on a ship. The simple but ingenious idea of transporting goods in containers is hardly a technical or a technological breakthrough. It was a simple change, yet containerization doubled, tripled and quadrupled the productivity of the ocean-going freighter and made possible the colossal expansion of world trade over the last 30 years or so.

Another example of an innovative practice is installment payment, invented by a United States manufacturer of farming machinery to enable farmers to buy their necessary farming machinery not only revolutionized the farming world but also transformed the economics and businesses of the world. On the other hand, scientific break-through or technological method cannot just depend on flashes of common sense, insight and intuition. More often than not, it has to be analytical, involving a great deal of drudgery and inductive reasoning. Only true scientific or technical discipline can enable a person to work for a breakthrough, for a new way or a correct way of doing thing.

To advance and to move forward we need to change - the qualities of consistency and continuity, perceived as the virtues of a worker in the past, will now prove to be limitations unless we also add qualities of creativity and innovativeness, we must shift from being just diligent and productive to being creative and innovative. This change must involve transforming our mindsets and creating a different working culture. And this change must involve welcoming change, anticipating change and executing change. Welcoming change is opening on mental windows to see changes as opportunities rather than threat. Anticipating change is accepting the uncertainty and the unpredictability of change but being well-prepared for the change and challenges. Executing change is achieving change through keeping abreast with the latest knowledge and skills and through better management of our resources.

Towards this end, I would like to quote Henry Ford when he said "The new direction is still not clear. Change can be constant, the path ahead is difficult. The reward can be financial gain or



financial loss - there can be disappointments and frustrations. Yet, the knowledgeable, the brave and the committed must continue the search, who knows, the knowledgeable, the brave and the committed will one day reap the harvest".

What I have said thus far is about looking ahead, to welcome, to anticipate and to execute changes and challenges ahead of us, in the next decade and beyond. Come the morning of 1st of January 2020, some of you who are younger will be around. The old ones may not be there. Some will and I think, God willing, I am be there to witness a great nation which is fully developed along all dimensions - socially, economically and political - The hope of our nation hinges on all of us, particularly the younger ones who are going to make this possible.

But in continuing our professional development, it is also important to look back in the past, over the last century, not for any nostalgic reason but more to learn from the success and mistakes of the past. The experiences of those veteran engineers who served the State in the early days, the trials and tribulations they went through would be invaluable in guiding the younger generation of engineers. Invaluable because these veterans were at the forefront of development in Sarawak. They were the pioneers of those early days who planned and built all major infrastructure works vital for the development of the State of Sarawak. Their works may not be Mona Lisa, may not be masterpiece, as seen through modern eyes. But what they did can definitely be a source of wisdom, encouragement and aspiration to us all. In this regard, I do suggest as I have suggested before, that efforts be made to glean their experience and have them compiled for reference.

In this case, valuable knowledge gained from the past, added with the up-to-date knowledge, there will be a reservoir of engineering knowledge for all to share - I believe this is what IEM should do and is doing: establishing a working atmosphere that encourages collaboration and knowledge sharing which must form an integral part of day-to-day work. The old saying that knowledge is power makes people hoard knowledge. They believe that knowledge hoarding makes them indispensable. But it is now generally acknowledged that power comes not from knowledge kept, but from knowledge shared.

Knowledge and information collection, creation and usage is part of everyday life of the professionals who have just moves into the 21st century. Those of you who have read the book called "Megatrends" written by John Naisbitt may be struck by the author's proposition that America made the transition from being an industrial society to an 'information society' when white collar workers started to outnumber blue collar workers. According to John Naisbitt, the new source of power has now been shifted from money in the hands of a few to information in the hands of many. Bill Gates in his book *Business - the speed of thought* made an interesting remarks, he said 'I have a simple but strong belief. The most meaningful way to differentiate you from your competitors, the best way to put distance between you and the crowd, is to do an outstanding job with knowledge and information - how you gather, manage and use knowledge and information will determine whether you win or lose.

See in the light of what John Naisbitt has said and seen in the light of Bill Gate's remark, all of you have every reason to be here today and in the next few days or so. My congratulations to the organising Chairman Prof. Dr. Bujang bin Kim Huat and his committee, to Mr. Peter Chong Chung Ping, the Chairman of IEM and his committee for so remarkably staging this conference.

My best wishes to you all and wish you all every success. Thank you.

**THE INSTITUTION OF ENGINEERS, MALAYSIA
(SARAWAK BRANCH)
CODE FOR ENGINEERING DISCIPLINES MASTER LIST**

0001 AERONAUTICAL	0028 GEOLOGICAL
0002 BUILDING	0029 COMPUTER
0003 CIVIL	0030 MATERIALS
0004 ELECTRICAL	0031 INSTRUMENTATION & CONTROL
0005 ELECTRONIC	0032 TEXTILE
0006 FUEL	0033 ELECTRICAL & ELECTRONIC
0007 GAS	0034 CIVIL & STRUCTURAL
0008 HIGHWAY	0035 MUNICIPAL
0009 ELECTROMECHANICAL	0036 ELECTRONIC & RADIO
0010 FLIGHT	0037 BIOCHEMICAL
0011 PRODUCTION	0038 BUILDING SERVICES
0012 MECHANICAL	0039 INSTRUMENTATION & SYSTEMS
0013 MARINE	0040 MINING & METALLURGY
0014 NAVAL ARCHITECTURE	0041 MECHANICS
0015 MINING	0042 NUCLEAR
0016 PETROLEUM	0043 CONTROL
0017 INDUSTRIAL	0044 WATER RESOURCES
0018 ENVIRONMENT	0045 OFFSHORE
0019 STRUCTURAL	0046 ENERGY
0020 ARCHITECTURAL	0047 MANUFACTURING
0021 HYDRAULIC	0048 AEROSPACE
0022 PUBLIC HEALTH	0049 COMMUNICATION
0023 METALLURGY	0050 CONSTRUCTION
0024 TRANSPORT	0051 GEOTECHNICAL
0025 CHEMICAL	0052 THERMAL
0026 AGRICULTURAL	0053 MANUFACTURING SYSTEMS
0027 MINERAL PROCESSING	0099 OTHERS