

ICEPEE'11

The 2nd International Conference on Engineering Professional Ethics and Education

17 – 19 May 2011
Legend Hotel, Kuala Lumpur, Malaysia

PROGRAMME BOOK

Organized by



**Faculty of Engineering
International Islamic University Malaysia, IIUM**

Website: <http://www.iium.edu.my/engineering>

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MESSAGE FROM THE CHAIRMAN OF ICBioE'11



Dr. Mohammed Saedi Jami

Chairman

*International Conference on Engineering Professional Ethics and Education
(ICEPEE '11)*

Faculty of Engineering
International Islamic University Malaysia

Assalaamu'alaikum Warahmatullaahi Wabarakaatuh

Dear respected Keynote Speakers, Paper Presenters, Participants and all guests of ICEPEE'11, thank you for accepting our invitation and coming to participate in our conference. This conference was organized by IVEES-RG, the Islamization, Values and Ethics in Engineering Sciences Research Group. IVEES-RG undertakes a multifunction research activity in fields related to engineering ethics, professionalism and technology. It is one of the fundamental research clusters towards actualising the vision of the International Islamic University Malaysia (IIUM).

ICEPEE'11 focuses on various aspects of engineering professional ethics and education, with the theme: "The Role of Professional Ethics in Engineering Education". Accepted papers concentrate on ethics in engineering education, religion and ethics, bioethics, philosophy of engineering sciences, social responsibility in engineering and engineering education for sustainable development.

The conference will be addressed by Professor Dato' Abang Abdullah Abang Ali, Faculty of Engineering, Universiti Putra Malaysia, Associate Professor Stephan Millett, Curtin University, Perth, Western Australia, Professor Eng. Dr. Usman A. El-Nafaty, Abubakar Tafawa Balewa University (ATBU), Bauchi, Nigeria and Associate Professor Dr. Ahmad Abubakar Mahmoud Gummi, Umm Al-Qura University, Mecca, Saudi Arabia.

I would like to seize this opportunity to thank all IVEES-RG members as well as all congress committee members, academic and administrative staff of the Faculty of Engineering.

For the keynote speakers, paper presenters, participants and all guests we wish you nice stay in Kuala Lumpur, Malaysia.

Wassalam

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ICEPEE'11 CONFERENCE PROGRAMME – DAY 1

17 th May, 2011 (Tuesday)	
0830 - 0900	Registration
0900 - 0945	Opening Ceremony – Ballroom 1
0945 - 1000	<i>Tea Break</i>
1000 - 1300	<p>Plenary Session I – Ballroom 2 Speaker I – (Name) <i>(Title)</i> Chairperson: Co-Chairperson:</p> <p>Speaker II - Professor Dato Abang Abdullah Abang Ali Engineering Curriculum and Professional Ethics in the Islamic World Chairperson: Dr Abdi Omar Shuriye Co-Chairperson: Dr Jamal I. Daoud</p> <p>Speaker III - (NAME) <i>(TITLE)</i> Chairperson: Co-Chairperson:</p>
1300 - 1400	<i>Lunch Break</i>
1400 - 1500	<p>Plenary Session II – Ballroom 2 Speaker I – Associate Professor Stephan John Millet HOW TO TALK ABOUT ETHICS FROM A WESTERN PERSPECTIVE Chairperson: Dr Waleed Fekry Faris Co-Chairperson: Dr Shihab Ahmed Hameed</p>
1500 - 1530	<i>Tea Break</i>
1530 - 1730	Parallel Session I
	PES(79), PE(3,5,15,23,36,41),EEPP(59)

Notes:

PES: Philosophy of Engineering Sciences

PE: Professional Ethics

EEPP: Engineering Education Policies and

practice

ICBioE'11 CONFERENCE PROGRAMME – DAY 2

18 th May, 2011 (Wednesday)			
0900 - 1030	Plenary Session III – Ballroom 2 Speaker I – Chairperson: Co-Chairperson: Speaker II - Chair Professor Dr. Usman A. El-Nafaty ENGINEERING ETHICS Chairperson: Dr Jalel Chelbi Co-Chairperson: Dr Raed Ismail Mahmoud Kafafy		
	1030 - 1100	<i>Tea Break</i>	
1100 – 1300	Parallel Session II		
	PE(49,55,63,64,65,66, 75,80)		
1300 - 1400	<i>Lunch Break</i>		
1400 - 1530	Parallel Session III		
	PEEE(2,13,40,71,73,76)		
1530 - 1545	<i>Tea Break</i>		
1545 - 1730	Parallel Session IV		
	RE(6,8,9,10,11,17,28),TT EE(35)		
2030 - 2130	<i>Banquet Dinner</i>		

Notes:

PE: Professional Ethics

PEEE: Professionalism and Ethics in Engineering Education

RE: Religion and Ethics

EE: Engineering and Environment

ICBioE'11 CONFERENCE PROGRAMME – DAY 3

19 th May, 2011 (Thursday)			
0900 - 1000	Plenary Session IV – Ballroom 2 Speaker I – Dr. Ahmad Abubakar Mahmoud Gummi The Amoeba of Medical Ethics Chairperson: Prof. Othman Khalifah Co-Chairperson: Dr Ma'an Fahmi R. Alkhateeb		
1000 - 1030	Tea Break		
1030 - 1300	Parallel Session V		
	RE(34,48,61,74), BE(44,50), PES(31,69,70,77)		
1300 - 1400	Lunch Break		
1400 - 1530	Parallel Session VI		
	PES(78),EEBI(27,45,60,72), EEE(68)		
1530 - 1545	Tea Break		
1545-1730	ESRE(32,67),REE(16,37),EE(19),EIRE(14),ORT(21,29)		

Notes:

RE: Religion and Ethics

BE: Bioethics

PES: Philosophy of Engineering Sciences

EEBI: Ethics for Engineering based Industries

EEE: Engineering Education and Entrepreneurship

ESRE: Ethics and Social responsibility in Engineering

REE: Research in engineering education

EE: Engineering and Environment

EIRE: Enhancing Innovation in Research and Education

ORT: Other Related Topics

KEYNOTE SPEAKER 1



Professor Dato Abang Abdullah Abang Ali
Faculty of Engineering, University Putra Malaysia,
43400 Serdang, Selangor, Malaysia

Professor Dato' Abang Abdullah Abang Ali, President, Malaysian Society for Engineering & Technology (mSET) and Past President, Federation of Engineering Institutions of Islamic Countries (FEIIC) and the Institution of Engineers, Malaysia (IEM) joined Universiti Putra Malaysia, as a lecturer in Structural Engineering in 1976. In 1982 he was appointed Dean, Faculty of Engineering. His research work focused on construction materials, affordable quality housing and industrialized building systems. He was promoted to the post of Professor of Civil Engineering in 1987. He was the founding Director of the Institute of Advanced Technology (ITMA) and Housing Research Centre (HRC) in the university. To date he has produced over 200 publications mainly in structural engineering and engineering education and served as editor or referee to a number of local and international journals. His research group at HRC has obtained a U.S., U.K., Swiss & Malaysian Patent and won a Geneva Innovation Gold Medal and a CIDB R&D Award for their research on an Interlocking Load bearing Hollow Block Building System. In 2002, he was elected a Fellow of the Academy of Sciences, Malaysia (ASM).

Engineering Curriculum and Professional Ethics in the Islamic World

As the world's environment deteriorates and its natural resources fast becoming scarce as a result of irresponsible acts of man, there is an urgent need to properly educate engineering students in professional ethics. The effort should not be limited to a few lectures on ethics in the curriculum but include a new teaching and learning approach in order to produce engineers who are not only alerted to the need for sustainable technologies but those who in professional practice on graduation walk the talk in making this world a better place to live in. Professional ethics should cover a myriad of issues ranging from environmental and resource conservation to the fight against corruption. The Islamic world should provide leadership in this, carving an engineering curriculum that produce engineers who are scientifically and technically competent while at the same time ethically imbued.

KEYNOTE SPEAKER 2



Associate Professor Stephan John Millet

Founding Director, Centre of Applied Ethics and Philosophy
Curtin University , Australia

Stephan is Associate Professor and founding Director of the Centre for Applied Ethics and Philosophy at Curtin University in Perth, Australia, Chair of the University Human Research Ethics Committee and Ethics Specialist with the Faculty of Health Sciences – advising on curriculum reform and research ethics. He is a former newspaper editor, journalism academic and school teacher. His PhD in Philosophy from Murdoch University is for work on Aristotle's metaphysics, Spinoza and environmental ethics. The final chapters focus on the concept of responsibility.

He has been teaching and researching ethics for 24 years in which time he has devised and taught courses in ethics for undergraduate programs in Journalism and postgraduate programs in Public Administration and Health Sciences. His PhD students are working in ethics and aesthetics. Stephan is known internationally for his work on philosophy and ethics in schools and pioneered the introduction of philosophy into schools in his home state. He wrote the course of study in Philosophy and Ethics now being taught under the auspices of the Western Australian Curriculum Council and has published three textbooks for the course.

As founder of the Curtin University Centre for Applied Ethics and Philosophy he has, in the past several years, increasingly specialised in health ethics, professional ethics and research ethics. He is a sought-after speaker and regularly conducts seminars for professional groups and public servants. His applied ethics interests include ethics pedagogy, media ethics, environmental ethics, health ethics and research ethics. Philosophical interests focus on ethics and metaphysics. His current research centres on phenomenology, the ethics of care and professional ethics.

How to talk About Ethics from A Western Perspective

Trust is the glue that holds a society together. It is more basic than an ethical principle or a value. Without trust we would not have an economy, we would not have a society that functions. For there to be trust, we need people or organisations that are trustworthy. When we become professionals we are subject to stronger obligations to be trustworthy than ordinary members of the public. The public has to trust that the bridges we build, the offices we design and the products we make will work the way we say they will. But the professions can have a narrow view of morality based on the roles they play: this means that a person in their professional role can justify on moral grounds actions that they would not engage in as parents, as sons or daughters or as ordinary members of their communities. This talk discusses the nature of trust and related concepts such as responsibility, virtue, integrity and the dangers professionals face in adopting an ethical position as professionals that they would not adopt in their private lives.

KEYNOTE SPEAKER 3



Chair Professor Dr. Usman A. El-Nafaty

Abubakar Tafawa Balewa University

Bauchi, Nigeria

Usman A. El-Nafaty obtained his BSc. Chem. Eng. from King AbdulAziz University, Jeddah, Saudi Arabia (1986), his MSc. Chem. Eng. from King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia (1990) and his PhD. Chem. Eng. from University of Manchester Institute of Science & Technology (UMIST), Manchester, UK (1998). He has taught at the Chemical Engineering Department of KFUPM for over ten years before transferring services to Abubakar Tafawa Balewa University (ATBU), Bauchi, Nigeria. He was twice on research visit to Sultan Qaboos University, Muscat, Sultanate of Oman where he spent various periods as visiting consultant. He has undergone technical training in cement technology and industrial gasses companies and has conducted research in various chemical engineering fields such as: testing formaldehyde as binder and alternative to cement; catalytic conversion of methanol to light olefins using ZSM-5 and SAPO-34 zeolites; transport and reaction in fine FCC catalyst particles using 2-Dimensional stochastic networks and design and optimization of the catalyst pore structure using 2-D stochastic networks. El-Nafaty has published several articles in international journals on various subjects in chemical engineering, and has conducted and supervised many research and design projects. He has also attended a number of international conferences in USA, UK and the Middle East. El-Nafaty is Registered Engineer with COREN, Nigeria. He has special interest and is actively engaged in promotion of values, ethics and best practices in the engineering profession through delivering seminars on the subject to various groups of undergraduate students in Nigerian universities. He is currently FBN Chair Prof. of Chemical Engineering, Director of Linkages and Deputy Vice Chancellor (Administration) of the Abubakar Tafawa Balewa University (ATBU), Bauchi, Nigeria.

ENGINEERING ETHICS

Engineering has been defined as the profession in which knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind. In other words, it is a profession concerned with the creative application of scientific knowledge to analyze, design, construct and operate the products and services of societal needs with full cognizance of the environment, sustainable development and foremost of which are the safety, health and welfare to human life. Ethics on the other hand, are sets of set of moral values and principles which form the standards guiding the code of conduct of individuals, organizations and professions. For engineers, ethics form system of principles and strategies used to solve complex problems involving other people's lives.

KEYNOTE SPEAKER 4



Dr. Ahmad Abubakar Mahmoud Gummi

Umm Al-Qura University
Kingdom of Saudi Arabia

MBBS (1982, ABU Zaria). Diploma in Arabic Studies (1991, Umm Al-Qura University Makkah). BA Islamic Law (1996, Umm Al-Qura University Makkah). MA Islamic Jurisprudence (2003, Umm Al-Qura University Makkah). PhD Islamic Jurisprudence (2010, Umm Al-Qura University Makkah). Resident Medical officer, Yaba Military Hospital Lagos (1983 -1985). Medical Officer, Airborne Wing, Nigerian Army School of Infantry Jaji (1985 -1987). Chairman, Mosque Foundation Ltd (2009 - to date). Preacher, Sultan Bello Mosque Kaduna (2004 - to date).

The Amoeba of Medical Ethics

Despite the great advances in modern medicine, ethical issues in medical practice have remained elusive with greater concern for the scope of their application. The myriad of Cultural and religious differences does compound the problem. This challenge has prodded for a common basic moral analytical framework and a unified basic moral language to base medical practice on. Beauchamp and Childress (2001) developed the four principles approach the basic prima facie for moral commitments represented as - respect for autonomy, beneficence, non-maleficence, and justice.

The medical practice is far from complacent with medical issues that harbor on social-cultural orientation. Abortion, sodomy, alcohol and tobacco which studies have all shown to be more harmful on health than illegal substances and yet they have not drawn conclusive legal injunctions, at least in modern societies. This calls for immediate ethical consideration.

ICEPEE'11 CONFERENCE SCHEDULE (DAY 1, 17 MAY 2011)

Parallel Session: PES(Philosophy of Engineering Sciences PE(Professional Ethics)	
Chairperson: Dr. Sultana A.M Co-Chairperson: Dr. Shihab A. Hameed	
1530-1730 (Boardroom I)	
ID	Title, Author(s) and Affiliation
***	Invited Speaker -1
79	Enhancing Affective Domain in Training Science Based Teachers: Towards an Islamic Model Abdelaziz Berghout (Invited Speaker-2)
3	Ethical and Effective Teaching at Higher Education Souad A. M. Al-Batt'hi
5	Evaluation of Islamic Insurance Over Conventional Insurance, Ethics and Values Fatima A. Galal, Zuriah A. Rahman
15	Ethical Issues in Monitoring and Based Tracking Systems Othman O. Khalifa, Jalel Chebil, Aisha-Hassan Abdallah and Shihab Hammed
23	Availability of Materials on Engineering Ethics in the Internet Yusof Ismail, Suhaimi Mhd Sarif
36	Engineering Ethics in Islam: An Evaluative and Comparative Study between Code of Ethics of Institution of Engineers, Bangladesh (IEB) and Code of Professional Conduct of Board of Engineers Malaysia (BEM) Muhammad Amanullah
41	The Optimally Mobile Muslim Experts in the service of the Ummah Suleyman Muyibi, Mohammed Jamie

ICEPEE'11 CONFERENCE SCHEDULE (DAY 2, 18 MAY 2011)

Parallel Session: PE (Professional Ethics)	
EPPP(Engineering Education Policies and Practice	
Chairperson:Dr. Tariq Elsadiq Abdussalam Abdussalam	
Co-chairperson: Dr. Zuraida Ahmad	
1100-1300 (Boardroom 2)	
ID	Title, Author(s) and Affiliation
49	Contributions of Islamic scholars to Sustainable Human and Environmental Development <i>Ibrahim Olatunde Uthman , L. O. Abbas and Dr. K. K. Oloso</i>
55	Environmental Engineering Education for Sustainable Development: Wastewater Reuse Scheme in Resource Constrained Regions <i>Mohammed Saedi Jami, Suleyman A. Muxibi and Abdullah Al-Mamun</i>
63	الإخلاق الإسلامية في القضايا الطبية: الأسرار الطبية نموذجاً عارف علي عارف
64	Mnagement of Research and Development (R&D) in Educational Organizations <i>Rashid A. Saeed, Othman O. Khalifa, Aisha Hassan, Farhat Anwar, Saad O. Bashir, Omer Mahmoud, Jalel Chebli</i>
65	Sustainable Development: Islamic Dimension with Special Reference to Conservation of the Environment <i>Abdul Haseeb Ansari, Parveen Jamal, Umar A. Oseni</i>
66	Engineers' Obligations towards Sustainable Environment <i>Mosharrof Hussain Masud, Md. Akhtaruzzaman, S. M. Sadakatul Bari and Farhat Anwar</i>
75	Trust, Responsibility and Being Professional <i>Stephan Millett</i>
59	Gender Dimension of Women in Engineering Education and Profession in the Developing Countries <i>A.M. Sultana, Ahmad Sohaimi bin Lazim and Nor Erlina Bt Mohd Zulkefli</i>

ICEPEE'11 CONFERENCE SCHEDULE (DAY 2, 18 MAY 2011)

Parallel Session: PEEE (Professionalism and Ethics in Engineering Education)	
Chairperson: Dr. Jamal I. Daoud	
Co-chairperson: Dr. Abdi Omar Shuriye	
1400-1530 (Boardroom 3)	
ID	Title, Author(s) and Affiliation
2	Why are Ethics in research Crucial? <i>Faihelrahman A. Abbas Mohamed O. Babikir, Mohamed E. S. Mirghani and N. A. Kabashi</i>
13	الهندسة الوراثية: محاوله لتأسيس رؤية دينية اخلاقية <i>محمد خليفة صديق</i>
40	Honesty and Integrity in the KOE,IIUM <i>Nassereldeen Ahmed kabbashi</i>
71	Thinking Skills Course and Student's Academic Self-Efficacy <i>Jamal I. Daoud, Yania A. Shaybani</i>
73	Integrating and Infusing of Islamic Values in the Existing Engineering Course Subject <i>Zuraida Ahmad</i>
76	Outcome and Quality Assurance-based Curriculum in Professional Accreditation of Engineering Courses: A Case study <i>Othman O. Khalifa, Abdulfatimah A. Aboaba, and Amir A. Shafie</i>

ICEPEE'11 CONFERENCE SCHEDULE (DAY 2, 18 MAY 2011)

Parallel Session: RE (Religion and Ethics) TTEE(Teaching technologies and Engineering Education)	
Chairperson: Dr. Sohirin Mohammad Solihin Solihin (For Arabic) Co-chairperson: Dr. Aisha Hassan Abdullah	
1545-1730 (Boardroom I)	
ID	Title, Author(s) and Affiliation
6	Ethics teaching in The National Ribat University: Ten years experience in teaching Medical ethics in the medical curriculum Omer Musa
8	الأخلاق والقيم في الإسلام طارق الصادق عبد السلام
9	القواعد العامة لنظرية المعرفة في إسلام المعرفة طارق الصادق عبد السلام
10	الضبط الإجتماعي بين النموذج الغربي والنموذج الإسلامي طارق الصادق عبد السلام
11	معالم الرحمة في أخلاق النبي صلى الله عليه وسلم سعد الدين منصور محمد و سردار دمريال
17	تأصيل مقررات تخصص علوم الأرض بالجامعات السودانية:- دراسة تطبيقية على مقررات تخصص الجيولوجيا بكلية العلوم – جامعة كردفان (السودان) مشعل عبدالقادر صالح
28	ادب حوار الأديان في القرآن: تفسير المنار نموذج صباح مير غني عثمان محمد و سوهيرين محمد صالحدين
35	Enhancement of Computer Engineering Education with Islamic Values Shihab A. Hameed

ICBioE'11 CONFERENCE SCHEDULE (DAY 3, 19 MAY 2011)

Parallel Session: RE (Religion and Ethics) BE(Bioethics) PES(Philosophy of Engineering Sciences)	
Chairperson: Dr. Shihab A. Hameed Co-chairperson: Dr. Parveen Jamal	
1030-1300 (Boardroom 2)	
ID	Title, Author(s) and Affiliation
34	Strategy and Policy Statements on Green ICT: An Islamic Perspective <i>Shihab A. Hameed</i>
48	التمويل الإسلامي للمشروعات الهندسية ضوابطه ومبادئه من الجانب الأخلاقي محمود محمد علي
61	Historical Analysis of the Sociopolitical Factors that Influenced Medieval Science <i>A. F. Salami, H. Bello-Salau, A. O. Shuriye</i>
74	Animal Ethics: An Islamic Perspective <i>Muhammad Amanullah</i>
44	Islamic legal tools in biotechnology Istihalah (chemical transformation)in GMF as a case study <i>Anke Imam Bouzenita</i>
50	Serum in Mammalian cell Culture: Weighing the Challenges of Bioprocessing, Ethics and Animal Welfare <i>Yumi Zuhani Has-Yun Hashim, Maizirwan Mel, Hamzah Mohd Salleh, Yusilawati Ahmad Nor, Siti Hajar Othman and Wan Yusra Hannanah Wan Abdul Razak</i>
31	A philosophical Approach to Artificial Intelligence and Islamic Values <i>Ali Akbar Ziaee</i>
69	Islamic Position on Physics with Reference to Ibn al-Haytham <i>Abdi O. Shuriye</i>
70	The Culture of Election and Democracy in the Taxonomy of Islamic Political Literature in Relation to the Democratic Revolutions in the Middle East and North Africa <i>Abdi O. Shuriye</i>
77	البناء المعرفي أثره في المشروع الإسلامي أحمد المجتبي بانقا

ICBioE'11 CONFERENCE SCHEDULE (DAY 3, 19 MAY 2011)

Parallel Session: PES (Philosophy of Engineering Sciences) EEBI(Ethics for Engineering Based Industries) EEE(Engineering Education and Entrepreneurship)	
Chairperson: Prof. Dr. Meshaal Abdelgadir Co-chairperson: Dr. Suleyman Muyibi	
1400-1530 (Boardroom 3)	
ID	Title, Author(s) and Affiliation
78	IIUM Engineering Education A Model <i>Amir A. Shafie</i>
27	Ethics and values in Collaboration between Universities and Industry (Sudan case Study) <i>Maymouna Mubarak Osman</i>
45	The Importance of a Standardized Islamic Manufacturing (IMP) for Food and Pharmaceutical Productions <i>Ricca Rahman Nasaruddin, Faizah Fuad, Maizirwan Mel, Irwandi Jaswir, Hamidon Abd. Hamid</i>
60	Ethical Analysis of the Full-Body Scanner (FBS) for Airport Security <i>H. Bello-Salau, A. F. Salami, M. A. Saka, A. F. Ibrahimy, A. O. Shuriye</i>
72	Ethics for Food Processing: An Islamic Perspective <i>Muhammad Amanullah</i>
68	The new face of International Intervention and Conflict Management <i>Abdi O. Shuriye</i>

ICBioE'11 CONFERENCE SCHEDULE (DAY 3, 19 MAY 2011)

Parallel Session: ESRE (Ethics and Social Responsibility in Engineering) REE(Research in Engineering Education) EE(Engineering and Environment) EIRE(Enhancement Innovation in Research and Education)	
Chairperson: Dr Jalel Chebile Co-chairperson: Dr. Mohammed Elwathig	
1545-1730 (Boardroom 1)	
ID	Title, Author(s) and Affiliation
32	Engineers Obligation towards Sustainable Environment Mosharrof Masud
67	Technology Transfer in Developing Countries Omer Mahmoud , Othman khalifa, Aisha Abdallah, Rashid S.A, Shihab
16	Continuous Quality Improvement Strategies in Engineering Curriculum Sany Izan Ihsan and Othman O. Khalifa
37	Islam and Higher Education: Toward planning the future of Muslims Shihab A. Hameed
19	Nuclear Energy - An Ethical Use of Resources Nahrul Khair bin Alang Md Rashid
14	Creative Thinking in Engineering Problem Solving Othman O. Khalifa, Saad Osman Bashir, Omer Mahmmod and Rashid A. Saeed
21	Perceived Islamic Work Ethics and Organisational Commitment among Muslim Engineers in Perak Tengah and Manjung Districts Mohamed Shamaun Yushak, Adli Rafai Ahmad Rajuddin, Zakiah Mohamed, Norfazilah Bawadi, Khairiah Mohamad Daud, Suhaimi Mhd Sarif
29	Islamic Theory of knowledge M. Azram