ICEPEEE’11

The 2\textsuperscript{nd} 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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- Chairman, ICEPEE’11

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MESSAGE FROM THE CHAIRMAN OF ICEPEE’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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12. Raed Ismail Mahmoud Kafafy
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14. Jalaluldin Bin Din Mohammed
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# ICEPEE’11 CONFERENCE PROGRAMME – DAY 1

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  Speaker I – (Name)  
  *(Title)*  
  Chairperson:  
  Co-Chairperson:  
  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  
  Speaker III - (NAME)  
  *(TITLE)*  
  Chairperson:  
  Co-Chairperson:  |
| **1300 - 1400**          | Lunch Break |
| **1400 - 1500**          | 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 |
| **1500 - 1530**          | Tea Break |
| **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
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**Speaker I**  
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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 | *Tea Break*                  |
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PE(49,55,63,64,65,66,75,80) |
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RE(6,8,9,10,11,17,28),TT  
EE(35) |
| 2030 - 2130 | *Banquet Dinner*              |

**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**

**19th May, 2011 (Thursday)**

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<td>ESRE(32,67), REE(16,37), EE(19), EIRE(14), ORT(21,29)</td>
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**Notes:**
- **RE:** Religion and Ethics
- **BE:** Bioethics
- **PES:** Philosophy of Engineering Sciences
- **EEBI:** Ethics for Engineering based Industries
- **EE:** 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
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 moral values and principles which form the standards guiding the code of conduct of individuals, organizations and professions. For engineers, ethics form a system of principles and strategies used to solve complex problems involving other people’s lives.
The 2nd International Conference on Engineering Professional Ethics and Education
May 17 – 19, 2011   Legend Hotel, Kuala Lumpur, Malaysia.

KEYNOTE SPEAKER 4

Dr. Ahmad Abubakar Mahmoud Gummi
Umm Al-Qura University
Kingdom of Saudi Arabia


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.

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Parallel Session: PE (Professional Ethics)  
EEPP( Engineering Education Policies and Practice)
### Parallel Session: PEEE (Professionalism and Ethics in Engineering Education)

**Chairperson:** Dr. Jamal I. Daoud  
**Co-chairperson:** Dr. Abdi Omar Shuriye

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