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PUBLICATIONS:

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1. Suliman Mohamed Mohamed Ali, Waleed Fekry Faris, **Ahmad Faris Ismail**, "Numerical Study of Heat Transfer of Embossed Plate Fined Heat Sink", IOP Conf. Series: Materials Science and Engineering, 184 (Article ID 012059), 2017.
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PRESENTATIONS:

Ahmad Faris Ismail, “Technology Transfer and Innovation Ecosystem”, Keynote Speaker, The 2nd International Conference on Technology Transfer in the Muslim World, Kuala Lumpur, August 2017.

Ahmad Faris Ismail, “Heat Transfer and Stability of CNT-based Nanofluids”, Keynote Speaker, International Conference on Recent Innovations in Mechanical and Civil Engineering (iCAM2k16), Hyderabad, December 2016.

Ahmad Faris Ismail, “Empowering Research in Malaysia”, Invited Speaker, IIUM Research Symposium (IRS2016), Kuantan, Malaysia, December 2016.

Ahmad Faris Ismail, “Heat Transfer Applications using CNT-based Nanofluids”, Keynote Speaker, 3rd International Conference on Mechanical, Automotive, and Aerospace Engineering (ICMAAE16), Kuala Lumpur, July 2016.

Ahmad Faris Ismail, “Microfluidics: Transport, Mixing, and Dilution in Laminar Flow”, Invited Speaker, Swedish Malaysian Symposium 2016, Gothenburg, Sweden, May 2016.

Ahmad Faris Ismail, “Modelling of Microfluidics Network Using Electric Circuits”, Keynote Speaker, The 1st Swedish Malaysian Symposium 2015, Kuala Lumpur, September 2015.

Ahmad Faris Ismail, “OBE and Washington Accord Signatory Status of IIUM”, IIUM KOE PG Seminar, Kuala Lumpur, with live skype to CECOS University Peshawar, Pakistan, October 2015.

Ahmad Faris Ismail, “Modelling of Microfluidics Network Using Electric Circuits”, IEEE Regional Symposium on Micro and Nanoelectronics (RSM2015), Kuala Terengganu, Malaysia, August 2015.

Ahmad Faris Ismail, “Corrosion Effects of CNT-Nanofluids on Different Metals”, 3rd International Conference on Advanced Materials and Information Technology Processing (AMITP 2013), Los Angeles, USA, October 2013.

Ahmad Faris Ismail, “Academic Self-Assessment Review”, Capacity Building Workshop in Academic Performance Measurement for OIC Countries, Syiah Kuala University, Aceh, Indonesia, July 2013.

Ahmad Faris Ismail, “Enhancing Heat Transfer Using Nanofluids”, Keynote Speaker, The First International Conference on Engineering and Technology (ICETD 2012), Bandar Lampung, Indonesia, June 2012.

Ahmad Faris Ismail, “Development of Research and Technology and Collaboration Among Islamic Universities”, General Talk, Institut Agama Islam Negeri (IAIN) Raden Intan, Lampung, Indonesia, June 2012.

Ahmad Faris Ismail, “Quality Assurance and Accreditation of Academic Programmes”, Invited Talk, The 2-Day Vice Chancellors’ Forum on Higher Education in the Islamic World: Challenges and Opportunities, Islamabad, Pakistan, June 2012.

Ahmad Faris Ismail, “Academic Self-Assessment Review”, Capacity Building Workshop in Academic Performance Measurement for OIC Countries, Islamic University of Technology (IUT), Dhaka, Bangladesh, February 2012.

Ahmad Faris Ismail, “Academic Self-Assessment Review”, Capacity Building Workshop in Academic Performance Measurement for OIC Countries, Islamic University in Uganda (IUIU), Mbale, Uganda, January 2012.

Ahmad Faris Ismail, “Framework of Islamization”, Islamization Coordinators Workshop, IIUM Gombak, May 2011.

Ahmad Faris Ismail, “IIUM Towards Research University”, ITD IEEP 2011, IIUM Gombak, March 2011.

Ahmad Faris Ismail, “Research Grant and Publication”, A Half-Day Workshop on Research Grant and Publication for Supervisor and Supervisee, AIKOL, IIUM Gombak, March 2011.

Ahmad Faris Ismail, “Supporting the Economy based on Research and Innovation”, Keynote Speaker, 2nd International Conference in Industrial Engineering and Operations Management (IEOM), Kuala Lumpur, Malaysia, January 2011.

Ahmad Faris Ismail, “Intellectual Capital Development for The National Innovation Ecosystem”, Invited Speaker, 2nd International Conference on Intellectual Capital Management (ICM) 2010, Zanjan, Iran, October 2010.

Ahmad Faris Ismail, “Towards Becoming a Research University”, Islamic Enhancement and Evaluation Programme (IEEP), Kulliyah of Engineering, Kuala Lumpur, July 2010.

Ahmad Faris Ismail, “Getting Financial Support”, Postgraduate Supervision Colloquium, IIUM Gombak, July 2010.

Ahmad Faris Ismail, “New Initiatives to Enhance Research and Innovation Collaborations at IIUM”, Invited Speaker, 1st Eurasian Silk Road Universities Convention (ESRUC), Erzurum, Turkey, May 2010.

Ahmad Faris Ismail, “Invention for Commercialization”, Invited Speaker, Regional Seminar on Linking Investment to Invention, Damascus, Syria, March 2010.

Ahmad Faris Ismail, “Innovation Ecosystem”, Invited Speaker, Regional Seminar on Linking Investment to Invention, Damascus, Syria, March 2010.

Ahmad Faris Ismail, “Strategic Planning in Malaysian Higher Education: Teaching & Learning, Research, and Good Governance”, Invited Speaker, IDB Knowledge Sharing Workshop: “Achieving Excellence in Higher Education”, Ifrane, Morocco, November 2009.

Ahmad Faris Ismail, “Academic Administrator Commitment in Realizing the Research-University Agenda”, Managerial Skills Workshop, Kuala Lumpur, August 2009.

Ahmad Faris Ismail, “IIUM as a Research University”, Islamic Enhancement and Evaluation Programme (IEEP), Kulliyah of Engineering, Kuala Lumpur, July 2009.

Ahmad Faris Ismail, “Research and Research Unit”, panelist, CFS Islamic Enhancement and Evaluation Programme (IEEP), Port Dickson, July 2009.

Ahmad Faris Ismail, “Human Capital Development through Technical Education in Malaysia”, Invited Speaker, Congress of Vocational and Technical Education in Islamic Countries, Istanbul, Turkey, June 2009.

Ahmad Faris Ismail, “Achieving Balance Score Card...the Journey”, panelist, 15th AIKOL Islamic Enhancement and Evaluation Programme (IEEP), IIUM Gombak, June 2009.

Ahmad Faris Ismail, “The Good Supervision and the Appropriate Method to Manage Supervisees”, Workshop on Postgraduate Supervision, IIUM Gombak, May 2009.

Ahmad Faris Ismail, “IOK Implementation Experiences”, Islamization of Knowledge (IOK) Coordinators Induction Workshop, IIUM Gombak, March 2009.

Ahmad Faris Ismail, “Problem Based Learning (PBL)”, Students Revival Camp, IIUM Gombak, February 2009.

Ahmad Faris Ismail, “How to Conduct Effective Performance Appraisal”, Managerial Skills Workshop, Ayer Keroh, Malacca, October 2008.

Ahmad Faris Ismail, “Strategies to Promote Research Culture and Postgraduate Studies at Kulliyah Level”, Managerial Skills Workshop, Ayer Keroh, Malacca, October 2008.

Ahmad Faris Ismail, “Student Assessment: Current Practice at the Kulliyah of Engineering, IIUM”, Special Workshop and Brainstorming Session on Student Assessment, Port Dickson, August 2008.

Ahmad Faris Ismail, Rashmi Walvekar, and Mohammad Khalid, “Numerical Study on Buoyancy Driven Heat Transfer Utilizing Nanofluids in a Rectangular Enclosure”, The UK-Malaysia Engineering Conference 2008, London, July 2008.

Ahmad Faris Ismail and Hamzah Mohd Salleh, “Strategic Planning and Balanced Scorecard”, One-week Workshop on Balanced Scorecard, SMT Technology, Sudan, June 2008.

Ahmad Faris Ismail, “Getting the Student Started on Their Research & Preparing Thesis Work”, Workshop on Supervision, Kuala Lumpur, April 2008.

Ahmad Faris Ismail, “The Role of Education and Training in Industrialisation in Malaysia”, Invited Speaker, International Seminar on Vision of Education and Training of Royal Commission for Jubail and Yanbu, Jubail, Saudi Arabia, October 2007.

Ahmad Faris Ismail, “Managing Quality Awards: “Attaining High Achievement in Kulliyah/University/National and International Levels”, One-day Workshop Toward Quality Practice for the Assessment of Teaching, Research, and Publication Awards, IIUM Gombak, September, 2007.

Ahmad Faris Ismail, “Worldview for Dynamic and Positive People”, Study Circle II for B.ED Headmaster 2nd Cohort Students, Morib, Selangor, July 2007.

Ahmad Faris Ismail, “Academic Self Assessment”, One-week Workshop on Academic Self Assessment, University of Ha’il, Saudi Arabia, April 2007.

Ahmad Faris Ismail, “Briefing on FRGS (Fundamental Research Grant Scheme) – Technology and Engineering”, Workshop on Research Enhancement, Universiti Utara Malaysia, May 2007.

Ahmad Faris Ismail, “Briefing on FRGS (Fundamental Research Grant Scheme)”, panelist, FRGS Briefing Session, IIUM Gombak, March 2007.

Ahmad Faris Ismail, “Islamization of the Curriculum”, panelist, Ta’ruf and Intellectual Discourse 28 (TIDE 28), Genting Highlands, April 2006.

Ahmad Faris Ismail, “Curriculum Planning”, Competency Level Assessment Programme (Education: Grade DS/DU 52), Centre for Educational Technology, IIUM, Kuala Lumpur, April 2006.

Ahmad Faris Ismail, “Overview of the Outcome Based Education”, One-day Workshop on Academic Matters, Kulliyah of Engineering, IIUM, Kuala Lumpur, January 2006.

Ahmad Faris Ismail, “Introduction to IIUM’s Vision and Mission”, Induction Course No. 1/2006, IIUM Gombak, January 2006.

Ahmad Faris Ismail, “Research: Problems, Prospects and Reward”, panelist, Ta’ruf and Intellectual Discourse 26 (TIDE 26), IIUM Gombak, September 2005.

Ahmad Faris Ismail, “Solving Engineering Problems Using Computational Fluid Dynamics (CFD)”, Professorial Lecture Series, Kulliyah of Engineering, IIUM, Kuala Lumpur, March 2005.

Ahmad Faris Ismail, “The Promotion Form”, Seminar for Academic Administrators (Series No. 1/2005), IIUM Kuantan, January 2005.

Ahmad Faris Ismail, Norshyahdi Syamli, and Azana Hafizah Mohd Aman, “Computational Fluid Dynamic (CFD) Study of Continuous Solidification”, Regional Symposium on Chemical Engineering (RSCE2004), Bangkok, December 2004.

Ahmad Faris Ismail, “Curriculum Management: Planning and Implementation Skills”, Competency Level Assessment Programme (Education: Grade DS/DU 54), Centre for Educational Technology, IIUM, Kuala Lumpur, December 2004.

Ahmad Faris Ismail, Technical Session (1A) Chairman, Conference on Engineering Education (CEE 2004), Kuala Lumpur, December 2004.

Ahmad Faris Ismail, “IIUM Work Ethics”, Competency Level Assessment Programme (Education: Grade DS 45), Centre for Educational Technology, IIUM, Kuala Lumpur, June 2004.

Ahmad Faris Ismail, Panelist, “Forum in the Quest of Comprehensive Excellence”, Ta’aruf for June 2004/2005 Intake, IIUM Gombak, June 2004.

Mirghani I. Ahmed, **A. F. Ismail**, and Yousif A. Abakr, “Modified Tool Holder for Cryogenic Machining”, Third International Conference on Advanced Manufacturing Technology (ICAMT 2004), Kuala Lumpur, May 2004.

Mirghani I. Ahmed, **Ahmad F. Ismail**, Yousif A. Abakr, and Musaddaq M Alawad, “Parametric Study of New Cryogenic Machining System”, Third International Conference on Advanced Manufacturing Technology (ICAMT 2004), Kuala Lumpur, May 2004.

M. R. Khan, **A. F. Ismail**, and M. S. Ibrahim, “Influence of Higher Order Coupling Terms in Vibration Analysis of Anti-Symmetric Cross-Ply Composite Plates”, Third International Conference on Advanced Manufacturing Technology (ICAMT 2004), Kuala Lumpur, May 2004.

Z. Ahmad, **A. F. Ismail**, and A. A. Khalid, “Bahaviour of Composite Tubes Subjected to Transverse Loading”, Third International Conference on Advanced Manufacturing Technology (ICAMT 2004), Kuala Lumpur, May 2004.

Ahmad Faris Ismail, “Organization Structure of the Kulliyah & University”, Competency Level Assessment Programme (Education: Grade DS 45), Centre for Educational Technology, IIUM, Kuala Lumpur, March 2004.

Ahmad Faris Ismail, “An Overview of Research in Basic and Applied Science”, Research Methodology Course, Research Centre, IIUM, Kuala Lumpur, March 2004.

Ahmad Faris Ismail, “Experimentation and Data Collection”, Research Methodology Course, Research Centre, IIUM, Kuala Lumpur, March 2004.

Ahmad Faris Ismail, “Research: An Introductory Concepts, Nature, Characteristics, Classification and Process”, Research Methodology Course, Research Centre, IIUM, Kuala Lumpur, January 2004.

Ahmad Faris Ismail, “Experimentation and Data Collection”, Research Methodology Course, Research Centre, IIUM, Kuala Lumpur, January 2004.

Ahmad Faris Ismail and Yousif A. Abakr, “CFD Study on Fluidized Bed Combustion of High Moisture Municipal Solid Waste”, Comprehensive Seminar on Construction and Creation of Sustainable Society based on the Zero-Discharge Concept, JSPS-VCC Core University Program “Environmental Science”, Kyoto, Japan, December 2003.

M. M. Haque and **Ahmad F. Ismail**, “Use/Selection of Advanced Materials in Manufacturing”, The 3rd International Conference on Recent Advances in Materials, Minerals and Environment 2003 (RAMM), Penang, October 2003.

M. M. Haque and **Ahmad F. Ismail**, “Effect of Pouring Temperatures on Casting Properties of Industrially Important Metals and Alloys”, The Eight Asian Foundry Congress (AFC-8), Bangkok, Thailand, October 2003.

Yousif A. Abakr **Ahmad F. Ismail**, and Mirghani I. Ahmed, “Experimental Investigation of a Multistage Evacuated Solar Still”, International Symposium on Renewable Energy: Environment Protection & Energy Solution for Sustainable Development, Kuala Lumpur, September 2003.

Yousif A. Abakr **Ahmad F. Ismail**, and Mirghani I. Ahmed, “CFD Analysis of an Evacuated Solar Still”, International Symposium on Renewable Energy: Environment Protection & Energy Solution for Sustainable Development, Kuala Lumpur, September 2003.

Yousif A. Abakr, Mirghani I. Ahmed, and **Ahmad F. Ismail**, “Developments on Solar Operated Water Desalination”, International Symposium on Renewable Energy: Environment Protection & Energy Solution for Sustainable Development, Kuala Lumpur, September 2003.

Zuraida Ahmad, Asad Abdullah Khalid, and **Ahmad Faris Ismail**, “Failure Mechanisms During the Lateral Loading of Filament Wound Composites”, The 3rd International Conference on Advances in Strategic Technologies (ICAST 2003), Kuala Lumpur, August 2003.

Zuraida Ahmad, **Ahmad F. Ismail**, and Asad A. Khalid, “Failure of Composite Tubes Subjected to Lateral Quasi-Static and Impact Loading”, Engineering and Technology Conference 2003 (EnTech 2003), Kuching, August 2003.

Zuraida Ahmad, Asad Abdullah Khalid, and **Ahmad Faris Ismail**, “Development of Low-Cost Semi-Automatic 2-Axis Filament Winding Machine”, Engineering and Technology Conference 2003 (EnTech 2003), Kuching, August 2003.

Ahmad Faris Ismail, “Revisiting the Kulliyah Strategic Plan”, Kulliyah of Engineering IOP (Islamic Orientation Programme), Kuantan, Pahang, August 2003.

Ahmad Faris Ismail, “An Overview of Research in Basic and Applied Science”, Research Methodology Course, Research Centre, IIUM, Kuala Lumpur, July 2003.

Ahmad Faris Ismail, “Research Projects”, One Day Seminar on Industry-Based Project Thesis, IIUM Gombak, February 2003.

Ahmad Faris Ismail, Session Chairman – Water Quantity and Flood, JSPS-VCC Water Environmental Planning Group Seminar, IIUM Gombak, October 2002.

Ahmad Faris Ismail, “Criteria for Promotion of Academic Staff of IIUM”, Seminar for Academic Administrators (Series No. 1/2002), IIUM Gombak, August 2002.

Ainil Sufreena Mohd Supian, Fadhli Wong Mohd Hassan Wong, **Ahmad Faris Ismail**, and Lai Weng Kim, "Identity Authentication Via typing Biometrics", 2nd World Engineering Congress (Information Communication Technology), Kuching, Sarawak, July 2002.

M. J. E. Salami, **A. F. Ismail**, and N. T. Mustapha, "Design and Implementation of Intelligent Data Acquisition System for Critical Measurements", 2nd World Engineering Congress (Manufacturing Engineering, Automation & Robotics), Kuching, Sarawak, July 2002.

Ahmad Faris Ismail, Panelist, "Forum on Power Over ICT: Prerequisite to IIUM Students", Ta'aruf for June 2002/2003 Intake, IIUM Gombak, June 2002.

Ahmad Faris Ismail, Session Chairman – Infrastructure and Service, JSPS-VCC Environmental Planning Group Seminar, IIUM Gombak, April 2002

Ahmad Faris Ismail, Panelist, Study for Excellence Programme, Kulliyah of Engineering, IIUM Gombak, April 2002.

Ahmad Faris Ismail, "Renewable Energy in Malaysia and Rice Husks Combustion for Energy", Keynote Speaker, Training Workshop on Renewable Energy Technologies for Clean and Sustainable Development, Amman, Jordan, March 2002.

Mohd Sultan Ibrahim, **A. F. Ismail**, M. R. Khan, "Free Vibration Analysis of Laminated Composite Plates Based on Higher Order Shear Deformation Theory by Using Finite Element Method", The Annual Workshop National Science Fellowship (NSF), Petaling Jaya, January 2002.

Ahmad Faris Ismail, "Introduction on IRPA Programme & IRPA Application Form – Part I, II and III", Briefing on IRPA Application Form, Research Centre, IIUM Gombak, January 2002.

Zuraida Ahmad, Asad A. Khalid, and **Ahmad Faris Ismail**, "Finite Element Analysis of Composite Cylinders Subjected to Radial Crushing", 11th International Conference of Composite Structures (ICCS/11), Australia, November 2001.

Fadhli Wong Mohd Hasan Wong, Ainil Sufreena Mohd Supian, **Ahmad Faris Ismail**, Lai Weng Kin, and Ong Cheng Soon, "Enhanced User Authentication Through Typing Biometrics with Artificial Neural Networks and K-Nearest Neighbor Algorithm", Thirty-Fifth Asilomar Conference On Signals, Systems, And Computers, Asilomar, USA, November 2001.

Ahmad Faris Ismail, "Strategic Planning Towards Achieving Higher Quality & Productivity in Education", panelist, Ta'ruf and Intellectual Discourse XVIII (TIDE 18), Genting Highlands, November 2001.

Ahmad Faris Ismail, Momoh Jimoh Salami, Iskandar Al-Thani Mahmood, Mohd Adnan Mohd Salleh, and Nasaruddin T. Mustapa, "Automation of Pump Test Rig System", IPTA Research and Development Exhibition 2001 (Pameran Penyelidikan & Pembangunan IPTA 2001), Kuala Lumpur, October 2001. Poster & Product Exhibition.

Ahmad Faris Ismail and Ajmal Ansari, "Temperature Controlled Organ Bath", IPTA Research and Development Exhibition 2001 (Pameran Penyelidikan & Pembangunan IPTA 2001), Kuala Lumpur, October 2001. Poster & Product Exhibition.

Ahmad Faris Ismail and Fadhli Wong Mohd Hasan Wong, "Enhanced User Authentication Through Typing Biometrics with Artificial Neural Networks and K-Nearest Neighbor Algorithm", IPTA Research and Development Exhibition 2001 (Pameran Penyelidikan & Pembangunan IPTA 2001), Kuala Lumpur, October 2001. Poster & Product Exhibition.

Ahmad Faris Ismail, "Kulliyah Strategic Plan: To be a World Class Centre of Engineering Education and Research with Values and Ethics", Kulliyah of Engineering IOP (Islamic Orientation Programme), Cherating, Pahang, September 2001.

Ahmad Faris Ismail, "The Expectation and Challenges after Graduation", IIUM Ibadah Camp, Templer's Park, Selangor, August 2000.

Ahmad Faris Ismail, "IIUM Science and Technology Plan", IIUM Strategic Planning 2001-2010 Retreat, Kuantan, July 2001.

Ahmad Faris Ismail, “Postgraduate Studies: Experimentation and Data Collection”, Research Methodology Course, Research Centre, IIUM, Kuala Lumpur, June 2001.

Ahmad Faris Ismail, “World Class Technical and Vocational Education”, Malaysia France Institute In-House Seminar, Bangi, March 2001.

Ahmad Faris Ismail, “Agenda For Muslim Youth - Opportunities In Science And Technology With Emphasis On Information Technology”, International Muslim Youth Conference, IIUM Gombak, February 2001.

Ahmad Faris Ismail, Iskandar Al Thani Mahmood, and Tasneem Pervez, “Automation of Pump Test Rig System”, First International Conference on Mechatronics, Kuala Lumpur, February 2001.

Asad A. Khalid, **Ahmad F. Ismail**, and Nurul Amin A.K.M., “Finite Element Study on Composite Cones Under Axial Compression Loading”, First International Conference on Mechatronics, Kuala Lumpur, February 2001.

M. I. Ahmed, Y. A. Abakar, T. Pervez, and **A. F. Ismail**, “Design and Analysis of a Solar Still Using Finite Element Method”, First International Conference on Mechatronics, Kuala Lumpur, February 2001.

Ahmad Faris Ismail, “Our Future: How Will We Deal With It?”, Engineering Technology Exhibition 2000, Gombak, Selangor, September 2000.

Ahmad Faris Ismail, “The Role of Muslim Youth in the Development of the Ummah”, IIUM Ibadah Camp, Gombak, Selangor, April 2000.

Ahmad Faris Ismail, “Leadership in Islam”, IIUM Ibadah Camp, Gombak, Selangor, March 2000.

Ahmad Faris Ismail, “How to Motivate and Facilitate Group Members”, Nuqaba Training Programme, Batang Kali, Selangor, February 2000.

Ahmad Faris Ismail, Resource Person, IRPA Workshop 2000, Genting Highlands, February 2000.

Ahmad Faris Ismail, “Penguasaan IT – Satu Kemestian Dalam Menghadapi Cabaran Mendatang: Bagaimana Persediaan Kita?”, Kursus Kepimpinan Pelajar IPTA '99, Sepang, Selangor, November 1999.

Khudzir Ismail, Mohd Azlan Mohd Ishak, Colin E. Snape, S. D. Brown, Mohd Asri Mohd Nawi, and **Ahmad Faris Ismail**, “Characterisation of Organic Sulphur Forms in Oxidised Coals Via High Pressure Temperature Programmed Reduction”, National Seminar on Advances in Malaysian Energy Research, Bangi, Selangor, October 1999.

Khudzir Ismail, Mohd Azlan Mohd Ishak, Md. Lias Kamal, Colin E. Snape, S. D. Brown, Mohd Asri Mohd Nawi, Omar Abdul Kadir, and **Ahmad Faris Ismail**, “Determination of Organic Sulphur Forms in Some Malaysian and Indonesian Coals by High Pressure Temperature-programmed Reduction”, National Seminar on Advances in Malaysian Energy Research, Bangi, Selangor, October 1999.

Ahmad Faris Ismail, Facilitator of IIUM 5-Year Strategic Plan Retreat, Ayer Keroh, Malacca, October 1999.

A.F. Ismail, B. A. Jubran, and R. C. Abdullah, “Temperature Transient Profile For Combustion of Porous Cylindrical Carbon-Riched Particle”, IASTED International Conference on Applied Modelling and Simulation, Cairns, Australia, September 1999.

Ahmad Faris Ismail, “Postgraduate Studies: Experimentation and Data Collection”, Research and Methodology Course, Management Centre, IIUM, Kuala Lumpur, September 1999.

Ahmad Faris Ismail, “Formulation of the Malaysian Engineering Education Model”, Panelist, Colloquium on the Malaysian Engineering Education Model for the Next Millennium, Putrajaya, Selangor, August 1999.

- Ahmad Faris Ismail** and Faisal M. A. Mahdi, “Reactivity Study of Rice Husk Combustion using TGA”, World Renewable Energy Congress '99, Kuala Lumpur, June 1999.
- Y.A. Bakar, B. A. Jubran, **A. F. Ismail**, and M.I. Ahmed, “Prediction of the Performance of a Compact Evacuated Solar Still”, World Renewable Energy Congress '99, Kuala Lumpur, June 1999.
- Ahmad Faris Ismail**, “Adaptation of Islamic Values in Management”, Executive Development Programme, Trolak, Perak, June 1999.
- Ahmad Faris Ismail**, “Interpersonal Relations and Attitudes at Work”, Clerical Development Workshop, IIUM, Kuala Lumpur, May 1999.
- Ahmad Faris Ismail**, “Perkembangan dan Kerjaya Dalam Bidang Teknologi Maklumat”, Minggu IT, Sek. Men. Keb. Taman Seri Rampai, Kuala Lumpur, April 1999.
- Ahmad Faris Ismail**, “Co-operation on R&D and Continuing Professional Development”, Panelist, Dialogue Session Between IEM and Institutions of Higher Learning, Kuala Lumpur, March 1999.
- Ahmad Faris Ismail**, “Mengurus Kehidupan yang Cemerlang – Islam sebagai Satu Cara Hidup”, Kursus Induksi No. 1/99, Kuala Kubu Baru, March 1999.
- Ahmad Faris Ismail**, “Managing Your Time Successfully”, Secretarial Development Seminar, IIUM, Kuala Lumpur, November 1998.
- Ahmad Faris Ismail**, “Workshop on IT and Media”, Muslim Leaders’ Forum '98, Kuala Lumpur, August 1998.
- Ahmad Faris Ismail**, “Workshop on Motivation”, Muslim Leaders’ Forum '98, Kuala Lumpur, August 1998.
- Ahmad Faris Ismail**, “Postgraduate Studies: Experimentation and Data Collection”, SLAB Research and Methodology Seminar, Management Centre, IIUM, Kuala Lumpur, June 1998.
- Ahmad Faris Ismail**, “Rethinking Engineering Profession”, Keynote Speech, Faculty Seminar, Kulliyah of Engineering, IIUM, Kuala Lumpur, May 1998.
- Ahmad Faris Ismail**, “Characteristics of Servants of Allah”, STADD Tarbiyyat and Training Programme, IIUM, Kuala Lumpur, October 1997.
- Ahmad Faris Ismail**, “The Role of Muslims”, STADD Tarbiyyat and Training Programme, IIUM, Kuala Lumpur, October 1997.
- Ahmad Faris Ismail**, “Perkembangan IT Semasa”, Kursus Ekspres Internet & E-mail 1997, IIUM, Kuala Lumpur, October 1997.
- Ahmad Faris Ismail**, “Peranan Komputer Dalam Pembelajaran”, Kelantan Infotech '97, Kota Bharu, September 1997.
- Ahmad Faris Ismail**, Talal F. Yusaf, and Faisal M. A. Mahdi, “Experimental Studies of Self-Ignition Phenomenon During Rice Husks Combustion”, International Conference on Fluid and Thermal Energy Conversion '97, Yogyakarta, July 1997.
- Talal F. Yusaf, Abdul Halim Shamsuddin, and **Ahmad Faris Ismail**, “Natural Gas A Best Solution of The Environmental Pollution For Internal Combustion Engines”, International Conference on Fluid and Thermal Energy Conversion '97, Yogyakarta, July 1997.
- Ahmad Faris Ismail**, Talal F. Yusaf, and ABD Shamsuddin, “Coal Combustion in Vertical Combustor Using FLUENT”, National Conference on Combustion Technologies for Cleaner Environment, IIUM-Kuala Lumpur, July 1997.
- Faisal Mahdi, **Ahmad Faris Ismail**, and Talal F. Yusaf, “Rice Husk Combustion Using TGA”, National Conference on Combustion Technologies for Cleaner Environment, IIUM-Kuala Lumpur, July 1997.

Ahmad Faris Ismail and Tasneem Pervez, “Temperature Profile for Combustion of Porous Cylindrical Particle with Mass Transfer Limitation”, Second International Conference on The Application of Numerical Methods in Engineering, UPM-Serdang, June 1997.

Tasneem Pervez and **Ahmad Faris Ismail**, “The Effect of Shear Deformation on Viscous Damping Approximation of Anisotropic Laminated Composite Plates”, Second International Conference on The Application of Numerical Methods in Engineering, UPM-Serdang, June 1997.

Ahmad Faris Ismail, “Self-Confidence”, STADD Tarbiyyat and Training Programme, IIUM, Kuala Lumpur, March 1997.

Ahmad Faris Ismail, “Program Kejuruteraan Terkini”, Perkampungan Menara Gading 97, Universiti Islam Antarabangsa (UIA), Kuala Lumpur, March 1997.

Ahmad Faris Ismail, “Modelling of Char Structure Influence on the Self-Ignition Temperature During Coal Gasification”, First Trabzon International Energy and Environment Symposium, Trabzon, Turkey, July 1996.

Ahmad Faris Ismail and Talal F. Yusaf, “Rice Husks Combustion for Energy”, First Trabzon International Energy and Environment Symposium, Trabzon, Turkey, July 1996.

Ahmad Faris Ismail and Hamzah M. Salleh, “Prediction and Simulation of Controlled Released Systems Based on Multilayer Arrangement of Monodisperse Drug Particles Separated by Bioerodible Polymer”, 12th Symposium of Malaysian Chemical Engineers, Bangi, Malaysia, July 1996.

Ahmad Faris Ismail, Chairman of Petroleum and Gas Engineering Session, 12th Symposium of Malaysian Chemical Engineers, Bangi, Malaysia, July 1996.

Ahmad Faris Ismail, “Combustion Modeling Using Fluent”, CFDHT (Computational Fluid Dynamic and Heat Transfer) Workshop, IIUM, Kuala Lumpur, Malaysia, May 1996.

Ahmad Faris Ismail, “Steady-state Model of Spherical Char Particle Ignition During Combustion Processes”, IASTED International Conference on Modelling and Simulation, Pittsburgh, USA, April 1996.

Ahmad Faris Ismail, “Developing Water Resources for Enhancing the Quality of Environment and Life”, Chairman and Panelist of the Main Forum in Seminar on Developing Water Resources for Enhancing the Quality of Environment and Life, Kuala Lumpur, December 1995.

Ahmad Faris Ismail, “Road Safety: The Engineering Factor”, SRC Road Safety Campaign, IIUM, Kuala Lumpur, August 1994.

Ahmad Faris Ismail, “Dissolution Process: Discrete Simulation Using Digital Image Processing”, SRC Expo On The Development of Technology In The Muslim World, IIUM, Kuala Lumpur, September 1994. Poster Exhibition.

Ahmad F. Ismail, F. Boissier, and K. Zygourakis, “Ignition Phenomena During Coal Combustion”, 1993 Annual Meeting of the AIChE, St. Louis, MO, November 7-12 (1993).

SUPERVISION OF FINAL YEAR PROJECT, MSc. AND Ph.D STUDENTS:

Ph.D. Project: “Waste Heat Recovery Mechanism for Auxiliary Power Unit in Automotive Vehicles” by Safarudin Gazali Herawan, 2008 – 2017.

Ph.D. Project: “Study on Fin-induced Pseudo-turbulent Flow Boiling Characteristics of Micro-gap Evaporators” by Shugata Ahmed, 2013 – 2017.

Ph.D. Project: “Multiwalled Carbon Nanotube Vertical CVD Synthesis, Characterization and its Application in Radiation Vulcanized Rubber (SMR & ENR-50) Nanocomposite” by Mohammad Khalid, 2008 – 2011.

Ph.D. Project: “Experimental Studies and CFD Simulation for Convective Heat Transfer of CNT-Nanofluids for Thermal Management” by Rashmi Gangasa Walvekar, 2007 – 2012.

Ph.D. Project: “Interactive Learning – Mathematica Enhanced Cector Calculus (ILMEV)” by Yuzita Yaacob, 2003 – 2007.

Ph.D. Project: “An Investigation on Composite Tubes Subjected to Radial Crushing Load” by Zuraida Ahmad, 2000 – 2005.

Ph.D. Project: “Experiment and Mathematical Analysis of a Multistage Evacuated Solar Still” by Yousif Abdalla Abakar, 1999 – 2005.

MSc. Project: “Multilayered Absorber Solar Collector : An Implementation Of Solar Water Heating System In Roofless Personalized Apartment House” by Norhafana Binti Mohamed, 2014 – 2016.

MSc. Project: “A Study of Flow Field Simulation on the Hood Surface Design of a Car using Computational Fluid Dynamics” by M. Mahatir Momsarip, 2008 –

MSc. Project: “Experimental Study of Automated Electrical Car Power Window ‘Preset’ Position” by Muazzin Mupit, 2008 – 2011.

MSc. Project: “Heavy Duty DC-Motor Starter Control Using An Armature Current Decay Sensing Technique For The Fast-On Application” by Suhaili Yusof, 2006 – 2011.

MSc. Project: “Comparative Performance Study of FHMIP (Fast Handover Hierarchal Mobile IPV6)” by Shariq Haseeb, 2004 – 2006.

MSc. Project: “Machine Transliteration of Arabic-Roman Words” by Mohd. Zaki Ayob, 2004 – 2006.

MSc. Project: “Speech and Speaker Authentication System” by Suraya Mohammad, 2004 – 2006.

MSc. Project: “Voice Recognition as Password” by Hannah Sofian, 2004 – 2007.

MSc. Project: “Design of Automotive Body Parts using Composite Materials” by Imran, 2002 –

MSc. Project: “Free Vibration Analysis of Laminated Composite Plates Based On Higher Order Shear Deformation Theory Using Finite Element Method” by Mohd. Sultan Ibrahim bin Shaik Dawood, 2000 – 2002.

MSc. Project: “Failure Analysis of Composite Materials (Plate/Shell)” by Jamaluddin Mahmud, 1999 – 2001.

MSc. Project: “Experimental Investigation of Combustion Processes of Rice Husks and Malaysian Coals” by Faisal M. A. Mahdi (Faculty of Engineering, UKM) 1996 – 1999.

MSc. Project: “Elastohydrodynamic Analysis of Hard Rolling” by Mohamed A. H. Abdel Malik (Faculty of Engineering, UPM) 1996 - 1997.

Final Year Project: “Application of Self-Lubricating Nanofluids in Car Pumping System” by Al Syamir Al Amin, 2015 - 2016.

Final Year Project: “Enhancing Thermal Comfort in Car’s Passenger Cabin Using Solar Pawered Device” by Khairul Safwan Abdul Halim, 2015 - 2016.

Final Year Project: “Modern Design of Car Radiator (Fin Design Comparison) Using Fluent” by Zainul ‘Athari Shafie, 2015 - 2016.

Final Year Project: “Enhancing Thermal Comfort Inside a Malaysian Car by Developing Effective Sunshade” by Iqbal Saleh, 2015 - 2016.

Final Year Project: “New Design of Car Radiator Fin Using Star-CCM” by Mohamad Ady Zafray Ismail, 2015 - 2016.

Final Year Project: “Investigation of CNT-Nanofluids as Radiator Coolant Using CFD” by Wan Ahmad Muhaimin Wan Jusoh, 2015 - 2016.

Final Year Project: "Improving Thermal Comfort of a Packed Car by Modifying Sunshade" by Wan Atiq Zaim Wan Zaini, 2015 - 2016.

Final Year Project: "CFD Simulation of Radiator Heat Transfer Using Nanofluids" by Nur Ain Mastura Burhanudin, 2015 - 2016.

Final Year Project: "CFD Investigation of Car Pumping Efficiency of Nanofluids" by Hilmi Hariz Mahabot, 2015 - 2016.

Final Year Project: "Corrosion Effect of CNT-Nanofluid on Car Radiator Materials" by Muhammad Nabil Suzelan Amir, 2015 - 2016.

Final Year Project: "Physical Behavior of Nanofluids Used in Radiator" by Asnida Anuar, 2012 - 2013.

Final Year Project: "Design and Development of Smaller Car Radiator" by Bazli Aghniya Abd Halim, 2012 - 2013.

Final Year Project: "A Study on Viscosity of Nanofluids and Pumping Losses" by Nurulafiqah Aziz, 2012 - 2013.

Final Year Project: "Heat Transfer Enhancement for CNT Nanofluid" by M. Farid Firdaus Abdul Wahab, 2012 - 2013.

Final Year Project: "Enhanced Heat Transfer in Car Radiator Using Mixture of Nanofluids" by Ahmad Syafiq Suhaimi and Abdul Aziz Rusydi Mohamed Nazir, 2010 - 2011.

Final Year Project: "Implementation of Nanofluid in Car Radiator System" by Mohd Affizul Salim and Nur Hazirah Nordin, 2010 - 2011.

Final Year Project: "Design & Development of a Lab-scale Bioreactor for Heat Inducible Enzyme Expression System" by Daud Adam, 2009 - 2010.

Final Year Project: "Stability and Thermal Conductivity Enhancement of CNT Nanofluids" by Basyirah Zainal Abidin, 2008 - 2009.

Final Year Project: "Stability and Thermal Conductivity Enhancement of CNT Nanofluids Using Sodium Sulfate" by Nurul Azreen Aziz, 2008 - 2009.

Final Year Project: "Simulation for Convective Heat Transfer of Nanofluid" by Wan Azizul Wan Ibrahim, 2007 - 2008.

Final Year Project: "Interior Automotive Styling Using Virtual Reality" by Mohd Ar Rasyid Mohd Wali, 2007.

Final Year Project: "Feasibility Study of Electromagnetic Powered Engine" by Muhamad Ajmal Mohamad, 2007.

Final Year Project: "Aerodynamics Investigation of Solar Cars Using Fluent" by Ahmad Muaz Abdul Mutalib, 2006 - 2007.

Final Year Project: "Automotive Styling Using Virtual Reality" by Wan Nor Aniza Wan Ibrahim, 2006 - 2007.

Final Year Project: "Production of Recombinant PhyBAFA45" by Siti Salmi Jusoh@Yusof, 2006 - 2007.

Final Year Project: "Production of Recombinant PhyBAFA45" by Roshazira Sharim, 2006 - 2007.

Final Year Project: "Design and Development of Energy System Derived from Sg. Pusu River" by Nik Mustafa Nik Sulaiman, 2005.

Final Year Project: "Experimental and Numerical Analysis of Clean Engine System with Special Emphasis on Performance of Catalytic Converter" by Che Muhd Syahir Che Yusof, 2005.

Final Year Project: “Integrated Multimedia Convocation System” by Mazlan Shah Jalaluddin and Muhammad Kamal Abd Halim, 2004.

Final Year Project: “Production, Purification, and Immobilization of Thermotoga Maritima β -Glucuronidase” by Shakirah Zakaria and Syamsiah Aini Shohaimi, 2004.

Final Year Project: “Fingerprint Biometric Security System” by Abdullah Abdulkadeer Al Attas and Abdulhakam A. M. Assisiq, 2004.

Final Year Project: “Computational Fluid Dynamics (CFD) in Manufacturing Application (Solidification in Continuous Casting)” by Norsyahdi Syamli Shooryadi, 2004.

Final Year Project: “Fingerprint-based Time and Attendance System” by Malai Nadiyah Hanim Sheikh Salleh, 2004.

Final Year Project: “Intelligent Fault Detection in Automotive System and Classification” by Md Sahrol Mauludin Kayon and Abdullah Ahmad, 2003.

Final Year Project: “Investigation of Catalytic Converter Performance on Petrol Engine and Its Manufacturing Characteristics” by Hilmi Isa and Mohd. Azmir Mohd. Azhari, 2003.

Final Year Project: “Design and Development of Swarm-Intelligence for Constraint Optimization Problems” by Shariq Haseeb and Khairul Azami Sidek, 2003.

Final Year Project: “Simulation of Fingerprint – Automated Teller Machine (ATM) and Information Kiosk” by Adlinawaty Abdul Rahim and Siti Nuraini Saadul Baharim, 2002.

Final Year Project: “Design and Development of Robotics Cells in Robotics Lab” by Abdul Khathar Suleiman and Ahmad Arifbillah Fakhrizzaki, 2002.

Final Year Project: “Intelligent Electronic Cooling (with Heat Transfer Analysis)” by Mohamed Farid Muhammad Ismail and Helmi Fadzli Bachok, 2002.

Final Year Project: “Analysis and Design of Automotive Body Part using CATIA” by Sabariah and Lukman Arif, 2002.

Final Year Project: “Enhanced Real Time Online Password Authentication Through Typing Biometrics System” by Fadhli Wong Mohd Hasan Wong and Ainil Sufreena Mohd Supian, 2001.

Final Year Project: “Mechatronics System in Small Airplane” by Mohd. Afni Fauzi and Amir Syaarom Aris, 2001.

Final Year Project: “Design and Implementation of Labview-based Intelligent Data Acquisition System for Critical Measurement in a Pump Test Set” by Nasroddin T. Mustapha, 2001.

Final Year Project: “Motor Control for Velocity in Sub-sonic Wind Tunnel” by Noor Lisa Rahmat, 2000.

Final Year Project: “Development of Data Logging System for Subsonic Wind Tunnel Application” by Farah Azwati Shafie, 2000.

Final Year Project: “Development of Image Processing Software and its Application” by Ahmad Ridzuan Abd. Rahman and Mohd. Shafree Mohd. Yusof, 1999.

Final Year Project: “Automated Pump Testing Machine” by Iskandar Al-Thani Mahmood and Mohd Adnan Mohd Salleh, 1999.

Final Year Project: “Horizontal Continuous Casting System” by Sithi Hamna Abu Baker and Norizan Jonny, 1998.

ACADEMIC AND RESEARCH AWARDS:

Kulliyyah of Engineering 15 Years Service Award, 2009.

FUIW (The Federation of the Universities of the Islamic World) Tribute to the Personality having Contributed to the Development of Islamic University Education, March 2008.

Patent Granted (No. MY-152227-A), “A Method and an Apparatus for Mavhining a Tool Steel”, with A.K.M. Nurulain and Mohd Amri bin Lajis, 2014.

Patent Granted (No. MY-150485-A), “Aluminofluorosilicate Powder”, with Khalid A. Saeed and Ammar A. Mustafa, 2013.

Patent Granted (No. MY-148502-A), “A Method of Producing Nanofluids Comprising Carbon Nanotubes (CNTs)”, with Rashmi G. Walvekar, Ahmad Tariq Jameel, Waqar Asrar, Faridah Yusof, Ma’an Al-Khatib, and Mohammad Khalid, 2013.

Patent Granted (No. MY-143230-A), “Production of Bioethanol by Single step Bioconversion of Sewage Treatment Plant Sludge”, with Md. Zahangir Alam and Nassereldeen Ahmad Kabbashi, 2013.

Patent Granted (No. MY-148307-A), “Synthesis of Carbon Nanofibers (CNFs) on Powdered Activated Carbon”, with Abdullah Al-Mamun, Muhammad A Rahman, Suleyman Aremu Muyubi, Md. Zahangir Alam, Ma’an Fahmi Rashid Al-Khatib, and Yehya M. Ahmad, 2013.

Patent Pending (No. PI 2010000488), “Method of Producing Cross-Linked Nanocomposites”, with Mohammad Khalid, Faridah Yusof, Ma’an Al-Khatib, Chantara Theyy Ratnam, and Rashmi G. Walvekar.

Patent Pending (No. PI 20091384), “Synthesis of Carbon Nanotubes (CNTs) on Powdered Activated Carbon for Water Treatment”, with Abdullah Al-Mamun, Muhammad A Rahman, Suleyman Aremu Muyubi, Md. Zahangir Alam, Ma’an Fahmi Rashid Al-Khatib, and Yehya M. Ahmad.

Patent Pending (No. PI 20082672), “Production of Bioethanol by Direct Bioconversion of Oil Palm Empty Fruit Bunches (EFB) Using Lignocellulolytic Fungi and Yeast”, with Md. Zahangir Alam and Nassereldeen Ahmad Kabbashi.

Patent Pending (No. PI 20082359), “A New Technique of Enhancing Tool Life by Electrode Cooling during Electric Discharge Machine (EDM)”, with Ahsan Ali Khan.

Patent Pending (No. PI 20070778), “Inducible Temperature Shift Expression of Bacterial Phytase and Future Bioreactor Design”, with Abd-El Aziem Farouk Gad, Ralf Greiner, Hamzah Mohd Salleh, Shareef Mohideen Ismail, and Faraz Bakht Khan.

Patent Pending (No. PI 20070780), “A Novel Molecular Detection System for Halal Certification of Food”, with Abd-El Aziem Farouk Gad, Torla Hassan, Ralf Greiner, Hamzah Mohd Salleh, and Mohamed Faizal Noor Batcha.

Patent Pending (No. PI 20063220), “A Partially Evacuated Multi-Stage Solar Still”, with Y. A. Abakr and M. I. Ahmed.

Gold Medal, “Cancer Chemotherapeutics Kit for Drug Development”, with Anis Nurashikin Nordin, Ioana Voiculescu, Yumi Hashim, Maizirwan Mel, Irmanisha Ibrahim, and Ahmad Fairuz Mansor, International Trade Fair (Ideas-Inventions-New Products) Nuremberg (iENA), 2013.

Silver Medal, “A New Dental of GIC-based Root Canal Sealer”, with Ammar A. Mustafa and Khalid A. S. Al-Khateeb, Malaysian Technology Expo (MTE), 2011.

Silver Medal, “A New Type of Glass Ionomer Cement with Superior Mevhanical Properties”, with Ammar A. Mustafa and Khalid A. S. Al-Khateeb, Malaysian Technology Expo (MTE), 2011.

Bronze Medal, “Improved CVD Reactor for Efficient and Less Hazardous Synthesis of Lab Scale Carbon Nanomaterials”, with Abdullah Al-Mamun, Mohammed Al-Saadi, Suleyman A. Muyubi, Md. Zahangir Alam, Iis Sopian, Azni Idris, Muataz A. Atieh, and Yehya M. Ahmed, BioInno Awards 2010, 2010.

Silver Medal, “Modification of CVD Reactor for Carbon Nanomaterials Production”, with Abdullah Al-Mamun, Mohammed Al Saadi, Suleyman A. Muyubi, Md. Zahangir Alam, Iis Sopian, Muataz A.

Atieh, and Yehya M. Ahmed, IIUM Research, Invention and Innovation Exhibition (IRIIE 2010), 2010.

Bronze Medal, “Effect of Initial Concentration and Adsorbent Dosage on the Removal of Pb from Aqueous Solutions”, with Abdullah Al-Mamun, Yehya M. Ahmed, Suleyman A. Muyubi, Md. Zahangir Alam, Ma’an Al-Khatib, Ahmad Tariq Jameel, Azni Idris and Mohammed Al Saadi, IIUM Research, Invention and Innovation Exhibition (IRIIE 2010), 2010.

Gold Medal and Special Award from the Association of Polish Inventors and Rationalizers, “Effect of Electron Beam Irradiation on the Properties of Natural Rubber/Carbon Nanotube Nanocomposite”, with Mohammad Khalid, Faridah Yusof, Chantara Thevy Ratnam, Ma’an Fahmi Rashid Al Khatib, and Rashmi Walvekar, Taipei International Invention Show and Technomart, 2009.

Gold Medal, “Stability and Thermal Conductivity Enhancement of CNT Nanofluids Using Gum Arabic”, with Rashmi Walvekar, Mohammad Khalid, Faridah Yusof, Waqar Asrar, Ahmad Tariq Jameel, and Ma’an Fahmi Rashid Al Khatib, Taipei International Invention Show and Technomart, 2009.

Gold Medal, “Effect of Carbon Nanotubes and Radiation Dosage on Mechanical Properties of Natural Rubber (SMR)”, with Mohammad Khalid, Faridah Yusof, Chantara Thevy Ratnam, Ma’an Fahmi Rashid Al Khatib, and Rashmi Walvekar, International Invention, Innovation and Technology Exhibition (ITEX), 2009.

Gold Medal, “Stability and Thermal Conductivity Enhancement of CNT Nanofluids Using Gum Arabic”, with Rashmi Walvekar, Mohammad Khalid, Faridah Yusof, Waqar Asrar, Ahmad Tariq Jameel, and Ma’an Fahmi Rashid Al Khatib, International Invention, Innovation and Technology Exhibition (ITEX), 2009.

Silver Medal, “The Accuracy of BGK Scheme in Solving Laminar Viscous Flow Problems”, with, Ashraf Ali Omar, Ong J. Chit, and Waqar Asrar, Kulliyah of Engineering Research and Innovation Exhibition (KERIE’09), 2009.

Silver Medal, “Effect of Electron Beam Irradiation on the Properties of Natural Rubber/Multiwalled Carbon Nanotube Nanocomposite”, with Mohammad Khalid, Faridah Yusof, Chantara Thevy Ratnam, Ma’an Al Khatib, and Rashmi Walvekar, Kulliyah of Engineering Research and Innovation Exhibition (KERIE’09), 2009.

Bronze Medal, “Preparation and Stability Studies of Carbon Nanotube Suspension for Thermal Management”, with Rashmi Walvekar, Ahmad Tariq Jamil, Waqar Asrar, Faridah Yusof, Ma’an Al Khatib, and Mohammad Khalid, Kulliyah of Engineering Research and Innovation Exhibition (KERIE’09), 2009.

Gold Medal, “Non-Newtonian Magneto-hydro-dynamics Rivlin-Ericksen Fluids: Perturbation Solutions”, with Muhammad R. Mohyuddin, Iftikhar Ahmed, G. Murtaza, and M. Azram, Kulliyah of Engineering Research and Innovation Exhibition (KERIE’07), 2007.

IIUM 15 Years Service Award, 2007.

Gold Medal, “A Temperature-based Prototype Bioreactor for the Production of Thermophilic Recombinant Bacterial Phytases”, with Abd-El Aziem Farouk Gad, Ralf Greiner, and Shareef Mohideen Ismail, Seoul International Invention Fair (SIIF), 2006.

Gold Medal, “Molecular FA99/96 for Pork Detection in Halal Labeled Food”, with Abd-El Aziem Farouk Gad, Mohamed Faizal Noor Batcha, Ralf Greiner, Torla Hassan, and Hamzah Salleh, Seoul International Invention Fair (SIIF), 2006.

Gold Medal, “Economical Industrial Scale Bioreactor for Bacterial Enzymes Production”, with Abd. ElAziem Farouk Gad, B. C. Chan, Anis Shobirin Meor Hussin, Hamzah Mohd. Salleh, and Ralf Greiner, 34th International Exhibition of Inventions, New Techniques and Products of Geneva, 2006.

Silver Medal, “Arabic to Roman Transliteration”, with Mohd Zaki Ayob, Kulliyah of Engineering Research and Innovation Exhibition (KERIE’06), 2006.

IIUM Special Recognition Award, Quality Day, 2005.

IIUM Quality Research Award (Kulliyyah Level), Quality Day, 2005.

Gold Medal, “Design of Pressure Based Typing Biometric Authentication System”, with Wasil Elsadig Eltahir, Prof. Dr. M. J. E. Salami, and W. K. Lai, Kulliyyah of Engineering Research and Innovation Exhibition (KERIE), 2005.

Silver Medal, “A Temperature-Based Prototype Bioreactor for the Production of Thermophilic Recombinant Bacterial Phytases”, with Assoc. Prof. Dr. Abd-ElAzim Farouk Gad, Ralf Greiner, Dr. Hamzah Mohd Salleh, Shareef Mohideen and Faraz Bakht Khan, Kulliyyah of Engineering Research and Innovation Exhibition (KERIE), 2005.

Silver Medal, “Economical Industrial Scale Bioreactor for Bacterial Enzymes, Animal Feed and Biofertilizer Production”, with Assoc. Prof. Dr. Abd-ElAzim Farouk Gad, Ralf Greiner, Anis Shobirin Meor Hussin, Dr. Hamzah Mohd Salleh, B. Chan, Mohd Firdaus Abd. Wahab, Siti Raudah Sutrisno and Syajaratul Jahriah Hassan, Kulliyyah of Engineering Research and Innovation Exhibition (KERIE), 2005.

Silver Medal, “A New Concept of Cryogenic Cooling with Modified Tool Holder and Safety Features”, with M. I. Ahmed, 33rd International Exhibition of Inventions, New Techniques and Products of Geneva, 2005.

Bronze Medal, “Solar Silo in 3 Stages”, with Y. A. Abakr and M. I. Ahmed, 32nd International Exhibition of Inventions, New Techniques and Products of Geneva, 2004.

Second Place, “Fingerprint Biometric Security System”, with Abdullah Abdulkadeer Al Attas and Abdulhakam A. M. Assisiq, IEE Inter-Varsity Project Competition, 2004.

Kulliyyah of Engineering 10 Years Service Award, 2004.

IIUM Excellent Researcher Award (Kulliyyah Level), Quality Day, 2002.

Research and Development Division, Ministry of Higher Education (MOHE), “Arah Aliran dan Unjuran Kemasukan Pelajar di IPT dari Negara-Negara OIC (Trends and Projections of Student Enrollment in Higher Education Institution of the OIC Countries)”, April 2012 – July 2012.

IIUM Research Endowment Grant (Type B), “The Application of CNT-GA Nanofluids in Car Radiators”, April 2011 – March 2012.

RAGS Fund, “Design, Develop and Study on Performance of the Multidirectional Absorber with Cross Design in Air Flow Solar Thermal Collector”, with Dr. Zafri Azran Abdul Majid, Prof. Dato’ Dr. Kamaruzzaman Sopian, Dr. Mohd. Hafidz Ruslan, Prof. Dato’ Dr. Mohd. Yusof Othman, and Dr. Abdul Adam Abdullah, January 2013 – December 2014.

KTP Fund, “Pilot Scale Production of Biogas from Co-Digestion of Cow Manure and Food Waste for Electricity Generation”, with Assoc. Prof. Dr. Maizirwan Mel, Dr. Sany Izan Ihsan, and Sarifah Yaacob, October 2012 – September 2014.

eScience Fund, “Micro-Structuring of Nonconductive Ceramic Materials using Micro-EDM with Pyrolytic Carbon in Dielectric Fluid”, with Prof. Dr. Mohammad Yeakub Ali, Prof. Dr. Ahsan Ali Khan, Assoc. Prof. Md. Abdul Maleque, Dr. Mohamed Bin Abd. Rahman, and Dr. Wan Ahmad Yusmawiza Bin Wan Yusoff, January 2012 – December 2013.

FRGS Research Fund, “Experimental and Numerical Investigations of Thermal Optimization of Microchannels”, with Prof. Dr. Mirghani Ishaq Ahmed and Dr. Sany Izan Ihsan, July 2011 – June 2013.

Consultancy Project from PETRONAS, “Healthy Diet Workshop (Food Therapy) for Slimfit Program”, with Dr. Norazlan Shah Hazali and Mashita Masri, 2012.

FRGS Research Fund, “A New Reliable Numeric-Analytic Technique to Solve Nonlinear Problems Arising in Engineering and Science”, with Dr. Md Sazzad Hossein Chowdhury and Prof. Dr. Ishah Hashim, December 2009 – November 2011.

FRGS Research Fund, “Synthesis of High Purity and High Quality of Carbon Nanotubes by Using Nulti Stage Chemical Vapour Deposition (MS-CVD)”, with Dr. Muataz Ali Atieh, Prof. Dr. Suleyman Aremu Muyibi, Dr. Md. Zahangir Alam, and Prof. Dr. Azni Idris, October 2007 – September 2009.

FRGS Research Fund, “Fundamental Study of Nano Fluidic Flow System using CFD”, November 2006 – November 2008.

FRGS Research Fund, “Kinetic Studies and Optimisation of Biofuel from Cassava-Starch via Yeast Fermentation”, with Azlin Suhaida Azmi, Dr. Maizirwan Mel, and Assoc. Prof. Dr. Md Zahangir Alam, October 2007 – September 2009.

IUM Research Endowment Grant (Type B), “Dynamics and Instabilities of Heated Nano-Thin Falling Films”, with Assoc. Prof. Dr. Ahmad Tariq Jameel, Prof. Dr. Waqar Asrar, Assoc. Prof. Dr. Faridah Yusof, Assoc. Prof. Dr. Ibrahim Ali Noorbacha, and Dr. Asif Hoda, January 2011 – December 2012.

IUM Research Endowment Grant (Type A), “Investigation of Feasibility for Gyro Ball as an Alternative Renewable Energy Sources”, with Syamsul Bahari Abdul Hamid and Dr. Sany Izan Ihsan, August 2008 – February 2009.

IUM Research Endowment Grant (Type B), “Islamizing Engineering Curriculum: A Practical Approach”, with Assoc. Prof. Dr. Abdi Omar Shuriye, November 2007 – October 2009.

IUM Research Fund, “An Assessment of the Zero Energy House – A Comparison of Energy Conservation Strategies and Bioclimatic Performances in the Temperature and Tropical Context”, with Assoc. Prof. Dr. Maisarah Ali, Dr. Puteri Shireen Jahnkassim and Prof. Md. Najib Ibrahim, December 2005 – December 2006.

IRPA Research Fund, “The Development of a Multimedia Symbolic Package (Vector Analysis) to Enhance a Computer Algebra System (CAS)”, with Dr. Hamzah Mohd Salleh and Yuzita Yaacob, October 2004 – May 2007.

IRPA Research Fund, “A Gas-Kinetic Scheme for the Compressible Navier Stokes Equation”, with Assoc. Prof. Dr. Ashraf Ali Omar, October 2004 – May 2007.

IRPA Research Fund (Top Down), “Development of New Diamond Layered Wheels for Ultra Precision Grinding”, with Prof. Dr. AKM Nurulamin and UTM team, August 2004 – August 2007.

IRPA Research Fund, “Analog and Digital Data Communication Using Low Voltage Power as Medium”, with Assoc. Prof. Dr. Sheroz Khan, November 2003 – December 2004.

IRPA Research Fund, “Design, Development, and Prototyping of Automated Visual Micro Chip Inspection System”, with Prof. Dr. Momoh Jimoh Salami, November 2003 – December 2004.

IUM Research Fund, “Design of Automotive Body Parts Using Composite Materials”, with Mohamed Abd. Rahman, August 2002 – August 2003.

IPRA Research Fund, “Design, Development, and Evaluation of a Pressure-based Typing Biometrics Authentication System”, with W. K. Lai and Assoc. Prof. Dr. Momoh J. Salami, September 2002 – August 2003.

IRPA Research Fund, “Improvement in Machinability of Hard to Machine Work Materials by Cryogenic Cooling and Job Preheating” with Assoc. Prof. Dr. A.K.M. Nurulamin, 2001.

IPRA Research Fund, “An Investigation of Composite Tubes Subjected to Radial Crushing Load” with Dr. Asad A. Khalid, 2001.

IRPA Research Fund, “Development of A Model for Resin Transfer Mold (RTM) Using Computational Fluid Dynamics (CFD) Tool – CFX”, 2000.

IRPA Research Fund, “Development of Efficient and Clean Combustion/Engine System”, 2000.

IRPA Research Fund, “Development of Diamond Coated Cutting Tools Technique for Machining Composite Materials”, with Dr. Abu Abdullah, 1999.

IRPA Research Fund, “A Design and Analysis Tool for Sheet Metal Forming Processes Using Finite Element Method” with Assoc. Prof. Dr. Tasneem Pervez, 1999.

IRPA Research Fund, “Development of Computer Controlled Pumps Test Set”, 1999.

Kulliyah of Engineering 5 Years Service Award, 1999.

IIUM Research Fund, “Experimental Investigation of a Multi-stages Solar Still”, with Prof. Bassam Ali Jubran and Dr. Mirghani Ahmed, January 1998 – December 1998.

Kulliyah of Medicine Project, “Design and Manufacturing of Organ Bath”, with Assoc. Prof. Dr. Ajmal Ansari, 1998.

IRPA Research Fund, “Clean and Efficient Energy Systems Using Malaysian Coals”, 1996-1999.

IIUM Research Fund, “The Effect of Process Conditions on Rice Husks Combustion”, Mar 1995 - Dec 1996.

IRPA Research Grant, “Discrete Simulation of Gasification Processes of Carbon Solid Materials (Gas-Solid Systems)”, 1995.

IRPA Research Grant, “General Purpose Code for Computational Fluid Dynamics” with Dr. Rached Ben Mansour, 1995.

IIUM Research Award, 1994.

Rice Graduate Fellowship, 1988-1993.

Dean's List (Spring 1985, Spring 1986, Fall 1986, Spring 1987 and Summer 1987)

Member of Omega Chi Epsilon (Chemical Engineering Honor Society)

WORK EXPERIENCE:

Senior Professor (August 2008 – present), Faculty of Engineering, International Islamic University Malaysia, Courses in Computer System and Programming, Fluid Mechanics and Statics.

Visiting Academic (January 2014 – June 2014), Faculty of Health, Engineering and Sciences, University of Southern Queensland, Australia.

Deputy Rector (Research and Innovation), International Islamic University Malaysia (2009 – 2013)

Chief Information Officer, International Islamic University Malaysia (2009 – 2013)

Dean, Faculty of Engineering, International Islamic University Malaysia (1999 – 2009)

Acting Dean, Faculty of Engineering, International Islamic University Malaysia (1997 – 1999)

Professor (May 2003 – August 2008), Faculty of Engineering, International Islamic University Malaysia, Courses in Computer System and Programming, Fluid Mechanics, and Sensors and Vision Systems.

Associate Professor (March 1998 – May 2003), Faculty of Engineering, International Islamic University Malaysia, Courses in Computer System and Programming, Computer Vision and Image Processing, Digital Control, Sensors and Vision Systems, Fluid Mechanics, Thermal Science, Product Design, Engineering Mechanics, Linear Algebra, Vector Calculus, and Advanced Engineering Mathematics.

Assistant Professor (Dec 1993 – March 1998), Faculty of Engineering, International Islamic University Malaysia, Courses in Computer Aided Analysis (Fortran, C, Matlab, Numerical Methods), Engineering Mathematics and Fluid Systems.

Visiting Scientist (Dec 2004), Graduate School of Engineering, Kyoto University, Japan.

Member, IIUM Majlis, (2009 – 2013)

Member, Scholarship and Study Leave Committee, International Islamic University Malaysia (2010 – 2013)

Member and Alternate Chairman, IIUM Tender Committee B (2012 – 2013)

Member, Investment Committee, International Islamic University Malaysia (2009 – 2013)

Chairman, University Risk Management Steering Committee, (2010 – 2013)

Chairman, Risk Management Technical Committee, (2011 – 2013)

Chairman, IIUM Website Steering Committee, (2010 – 2013)

Chairman, IIUM Smartcard Project, (2010 – 2013)

Chairman, IIUM Administration Enhancement Technical Committee, (2010 – 2013)

Chairman, IIUM Steering Committee of Asian University Ranking & THE-QS World University Ranking, (2010 – 2013)

Chairman, IIUM Research University Working Committee (2012)

Chairman, Steering Committee for the Campus Security Solution Project, 2010.

Member, Malaysian Scholarly Publishing Council, (2010 – 2013)

Member, Interview Panel for the Selection of the Vice-Chancellor of the Islamic University of Technology (IUT), Bangladesh, July 2007.

IDB (Islamic Development Bank) Consultant (August 2003), Development of MBBU (Mussa Bin Bique University, Mozambique) Master Plan.

Acting Director, Center for Engineering Excellence (CEE), (2001 – 2002)

Acting Chairman, University Technical and Computing Committee, International Islamic University Malaysia (1997)

Deputy Dean, Faculty of Engineering, International Islamic University Malaysia (1994 – 1997)

Member, IIUM Senate (1997 – 2013)

Chief Editor, IIUM Journal of Engineering (2000 – 2013)

Member, International Advisory Board, Australian Journal of Islamic Studies, (2009 – present)

Member, Advisory Board, Journal of Strategic Foresight, published by Turkish Asian Center for Strategic Studies (TASAM), (2009 – present)

MQA (Malaysian Qualifications Agency) Evaluation Panel for Chemical Engineering (2008 – present)

Co-Chairman, Malaysian Engineering Deans' Council, 2007 – 2009

Deputy Chairman, Main Working Committee, Malaysian Engineering Deans' Council,, 2007 – 2009

Member, Malaysian Engineering Deans' Council, 1997 – 2009

Chairman, IIUM Technical Committee for Research Acculturation Grants (RAGS), 2012.

Member, The Academic Planning & Development Committee (Standing Senate Committee) (2006 – 2009)

Member, IIUM ICT Council (2009 – present)

Member, Board of Academic Review (BAR), IIUM (2003 – present)

Member, Board of Research, IIUM (1997 – 2013)

Member, Board of Student Affairs (1999 – 2009)

Member, Board of Quality Culture (2000 – 2013)

Member, Board of Co-Curricular Activity Centre, IIUM (2002 – 2009)

Member, Board of the Centre for Excellence in Continuing Education and Distance Learning – C-ExCel (1999 – present)

Member, Campus Development Council (2000 – 2013)

Member, Budgetary Preparation Standing Committee (2000 – 2009)

Member, Steering Committee, E-Curriculum Evaluation System (E-CURE) Project (2012 – 2013)

Member, IIUM Budget Committee (2012 – 2013)

Member, Committee to Revise the Criteria for Promotion and KPI of Academic Staff (2012)

Member, IIUM Advisory Panel for Academic Quality Compliance (AQC) (2012)

Member, IIUM Ethics Committee (2005 – present)

Member, University Student Admissions Committee (2000 – 2009)

Member, Stage 3 Interview Panel (Pre-Prima Facie Stage) for Promotion of Academic Staff (2004 – 2009)

Member, Panel for Self-Analysis Report, Workshop on Academic Review, December 2004.

Member, Committee on the Implementation of SSB (2001)

Member, Steering Committee for the Establishment of New IIUM Matriculation Centre at Janda Baik, Pahang (2001 - 2005)

Member, Steering Committee for IIUM-MIMOS Collaborative Research on Quantum Cryptography (2007 – 2010)

Member, Steering Committee for the IIUM-ICT Strategic Plan (2005 – 2009)

Member, Steering Committee of the Official Opening Ceremony of IIUM (2001)

Member, Board of Reviewers for Co-Curricular Activity Centre (2005 – 2009)

Member, IIUM Undergraduate Prospectus Committee (2006 – 2009)

Member, Panel of Judges for “Best Teacher Award” at the University Level (2009 – present)

Chairman, IIUM’s Students’ Administrative System and Personality Enhancement Committee (2005)

Chairman, Expert Technical Group for Development of Examination Syllabi and Course Curriculum (for the Competency Level Assessment under the Malaysian Remuneration System) (2003)

Chairperson, Gimmick Presentation Committee, IIUM Quality Day (2003)

Chairman, University Subcommittee on Criteria for Academic Promotion (2001 – 2002)

Chairman, University Subcommittee on the Establishment of Kulliyah of Information and Communication Technology (2001)

Chairman, Kulliyah Procurement Committee (2001 – 2009)

Chairman, Kulliyah Quality Culture Committee (2000 – 2009)

Chairman, Kulliyah Curriculum Committee (1999 – 2009)

Chairman, Kulliyah Postgraduate Committee (1999 – 2009)

Chairman, Kulliyah Board of Appeals (1997 – 2009)

Technical Advisor, IT in-Touch Sdn. Bhd. (1999 – 2000)

Member, Senate Appeal Sub-Committee (1994 – 1997)

Member, University Technical and Computing Committee (1994 – 1996)

Member, IIUM IRPA Steering Committee (1994 – 1997)

Advisor, Engineering Society at IIUM (Enginius) (1994 – 1997)

Chairman, Board of IIUM-MCRIA Robotics and Automation Centre, 1998 – 2009

Member, Education Committee, Malaysian Gas Association, 1999 – present

Member, Board of Studies for Kulliyah of Information and Communication Technology, 2001

Member, Board of Studies for Automotive Engineering Programme, 2000.

Member, Board of Studies for Aerospace Engineering Programme, 2000.

Member, Board of Studies for Biotechnology Engineering Programme, 2000.

Member, Board of Studies for Communication Engineering Programme, 2000.

Chairman, Assessment Panel for MOHE Centre of Excellence (CoE) – Engineering and Technology, 2008.

Member, IPTA FRGS (Fundamental Research Grant Scheme) Evaluation Committee for Technology and Engineering, 2008.

Member, IPTA FRGS (Fundamental Research Grant Scheme) Evaluation Committee for Technology and Engineering, 2007.

Member, IPTA FRGS (Fundamental Research Grant Scheme) Evaluation Committee for Technology and Engineering, 2006.

Member, Technical Evaluation Committee for Science Fund (Industrial Cluster), 2006.

Member, National Steering Committee on Solar, Hydrogen and Fuel Cells, 2003 - present

Member, Panel of Energy Expert for Energy Efficiency Outreach Services project, Malaysia Energy Centre, 1999 - present

Member, Technical Committee, National Science Fellowship Scheme, Ministry of Science, Technology, and Environment, 1998 – present

Member, Protem Committee, Robotics and Automation Association of Malaysia (RAAM), 1998 – 2000.

Member, IEM-FEIC Sub-Committee on Invention and Development, 2003/2004.

Member, Advisory Committee, Malaysian Engineering Education Model Study Team, 1999.

Member, Council of Jury, IIUM Writers Award, IIUM Books Week, 1999

Member, IEM/BEM Special Committee on Engineering University Curriculum, 1998

Resource Person, Clustering Workshop, Ministry of Higher Education, Bukit Tinggi, 22-23 August 2005.

Consultant, Nuclear Malaysia Project, “Socio-economic Impact of Nuclear Technology in Malaysia”, 2009.

Consultant, Commercialisation of Research and Development Fund (CRDF), Project on “Equipment Protection Device: Development of a Device that Offers Intelligent Protection, Monitoring and Control of Remote Equipment using the GSM Infrastructure”, 2004.

External Expert, Technology Acquisition Fund (TAF), MTDC. Project related to Optical Connectors and Communication Equipment, 2002.

Chairman, Technical Evaluation Panel for IGS (Industrial Grant (R&D) Scheme). Project related to Internal Combustion Engine (1998-1999)

Member of Editors, Proceedings of the Third International Conference on Advanced Manufacturing Technology (ICAMT 2004), 2004

Editor and Reviewer, Proceedings of First International Conference on Mechatronics (ICOM’01), 2001

Reviewer, Journal of Heat and Mass Transfer, 2011

Reviewer, Journal of Materials and Processing Technology, 1999

Reviewer, Malaysian Journal of Computer Science, 1996 – present.

Reviewer, Jurnal Kejuruteraan (Journal of Engineering), UKM, 1998-present

Reviewer, Jurnal Teknologi Siri A, UTM, 2002

Member, Editorial Board, International Journal of Biomass and Renewables, 2011 – present

Member, Editorial Board, IIUM Journal of Engineering, 1998 – 2000

Chairman, Organising Committee of the IIUM Engineering Congress 2008, 13 - 15 May 2008.

Chairman, Organising Committee of the International Conference on MEMS and Nanotechnology (ICMN’06), 14 - 15 March 2006.

Chairman, Organising Committee of the 2nd International Conference on Mechatronics (ICOM’05), 10 - 12 May 2005.

Chairman, Organising Committee of International Conference on Advanced Manufacturing Technology (ICAMT 2004), 11 - 13 May 2004.

Chairman, Organising Committee of One Day Seminar on Philosophy of Science in Engineering Education: An Islamic Perspective, 17 March 2006.

Member, Board of Consultants, Journal of Al-Risala, 6th Edition, Issue No.6, November 2006 (1427).

Member, Board of Consultants, Journal of Al-Risala, 7th Edition, Issue No.7, December 2007 (1428).

Member, Steering Committee, AMPT 2013 (Advances in Materials and Processing Technologies Conference), Taipei, 22 – 26 September 2013.

Member, Steering Committee, AMPT 2012 (Advances in Materials and Processing Technologies Conference), Wollongong, Australia, 23 – 26 September 2012.

Member, Steering Committee, AMPT 2011 (Advances in Materials and Processing Technologies Conference), Istanbul, 24 – 27 July 2011.

Member, Local Advisory Board, International Conference on Mechanical, Automotive and Aerospace Engineering, Kuala Lumpur, 17 – 19 May 2011.

Member, Steering Committee, AMPT 2010 (Advances in Materials and Processing Technologies Conference), Paris, 24 – 27 October 2010.

Member, International Advisory Board, International Conference on Mathematical Applications in Engineering (ICMAE'10), Kuala Lumpur, 3 – 8 August 2010.

Member, National Advisory Committee, International Conference on Energy and Environment (ICEE2006), 28 – 30 August 2006.

Member, International Advisory Committee, International Symposium on Robotics and Intelligent Sensors IRIS2010, Nagoya, 8 – 9 March 2010.

Member, Advisory Board, International Conference on Environment 2006, 13 – 15 November 2006.

Member, Technical Reviewing Committee, 3rd AUS International Symposium on Mechatronics (AUS-ISM06), 18 – 20 April 2006.

Member, Advisory Committee, Conference on Engineering Education (CEE 2004), 14 – 15 December 2004.

Member, National Advisory Committee, International Conference on Construction Information Technology 2004 (INCITE 2004), 18 – 21 February 2004.

Member, National Advisory Committee, 2nd International Conference on Artificial Intelligence in Engineering and Technology (iCAiET-2004), 3 – 5 August 2004.

Member, National Advisory Committee, International Conference on Artificial Intelligence in Engineering and Technology (iCAiET-2002), 17 – 18 June 2002.

Chairman, Organising Committee of International Conference on Mechatronics (ICOM'01), 12 - 13 February 2001.

Member, Advisory Committee, International Advanced Technology Forum 2000, 7 - 8 November 2000.

Member, Technical Committee, Asia Pacific General Galvanizing Conference (APGGC 99), 12 – 16 September, 1999.

Member, National Advisory Committee, International Conference on Advances in Materials and Processing Technologies (AMPT'98), 24 - 28 August 1998.

Chairman, Organising Committee of National Conference on Combustion Technologies for Cleaner Environment (CTCE '97), 3 July 1997.

Member, Organising Committee of International Conference on Values and Attitudes in Science and Technology 1996 (VAST'96), 3 - 6 September 1996

Member, Board of Studies for Faculty of Science, 1996.

Member, Board of Studies for Materials Engineering Programme, 1995.

Chairman, Organising Committee of Seminar on Developing Water Resources for Enhancing the Quality of Environment and Life, December 1995

Research Assistant, Rice University (1989-1993)

Research in Coal Pyrolysis and Char Combustion

Teaching Assistant, Rice University (1989-1990).
Courses in Reaction Engineering, Catalysis and Process Control.

Laboratory Assistant, Rice University (1988).
Undergraduate Chemical Engineering Laboratory.

Teaching Assistant, University of Houston (1987-1988).
Courses in Fortran Programming and Linear Algebra.

RESEARCH INTERESTS:

Energy and Environmental Systems
Computational Fluid Dynamic and Heat Transfer
Nanofluids System
Modeling and Simulation
Digital Image Analysis
Polymer and Composite Processing
Pyrolysis and Combustion Processes
Internal Combustion Engine
Discrete Modeling with Cellular Automata
CVD Processes

PROFESSIONAL SOCIETY:

American Chemical Society (ACS), 2010 - .
American Institute of Chemical Engineers (AIChE), 1988 - .
International Association of Science and Technology for Development (IASTED), 1996-.
International Association of Engineers (IAENG), 2009 -
Institutions of Engineers Malaysia (IEM), 1994-.
Honorary Member of Malaysian Gas Association (MGA), 1995 -.
Society of Engineering Education Malaysia (SEEM), 2009 -
Akademi Sains Islam Malaysia (ASASI), 1997-.

CONFERENCES/SEMINAR ATTENDED:

The 1st Swedish Malaysian Symposium 2015, Kuala Lumpur, September 2015.
IEEE Regional Symposium on Micro and Nanoelectronics (RSM2015), Kuala Terengganu, Malaysia, August 2015.
The 3rd International Conference on Advanced Materials and Information Technology Processing (AMITP 2013), Los Angeles, USA, October 2013.
The International Higher Education University Research Performance Forum 2013, Singapore, April 2013.
The 2-Day Vice Chancellors' Forum on Higher Education in the Islamic World: Challenges and Opportunities, Islamabad, Pakistan, June 2012.

The First International Conference on Engineering and Technology (ICETD 2012), Bandar Lampung, Indonesia, June 2012.

Capacity Building Workshop in Academic Performance Measurement for OIC Countries, Islamic University of Technology (IUT), Dhaka, Bangladesh, February 2012.

Capacity Building Workshop in Academic Performance Measurement for OIC Countries, Islamic University in Uganda (IUIU), Mbale, Uganda, January 2012.

International Conference on Global Movement of Moderates, Kuala Lumpur, January 2012.

Malaysia CIO Conference & MYGOSSCON 2011, Putrajaya, November 2011.

2nd International Conference in Industrial Engineering and Operations Management (IEOM), Kuala Lumpur, Malaysia, January 2011.

The 2nd International Conference on Intellectual Capital Management (IICM) 2010, Zanjan, Iran, October 2010.

International Conference on Strategies of Scientific Research in the Universities of the Muslim World: Reality and Prospects, IIUM Gombak, July 2010.

The Heart of Coaching Workshop, Kuala Lumpur, May 2010.

Regional Seminar on Linking Investment to Invention, Damascus, Syria, March 2010.

e-Government Seminar, “Is it Working?”, Kuala Lumpur, February 2010.

IDB Knowledge Sharing Workshop: “Achieving Excellence in Higher Education”, Ifrane, Morocco, November 2009.

Big Think Strategy – Retreat with Bernd Schmitt, “Towards Making Malaysia Great”, Kuala Lumpur, July 2009.

Workshop on Innovation in Higher Education, Kuala Lumpur, October 2008.

2008 Palladium Asia Pacific Summit & Hall of Fame, “Achieving The Execution Premium: Linking Strategy to Operations”, Seoul, September 2008.

Course on Understanding, Implementing and Documenting MS ISO/IEC 17025:2005, IIUM Gombak, March 2008.

Workshop on Enhancement of the Engineering Accreditation Manual (Revised EAC Manual 2006), Kelana Jaya, October 2007.

One-Day Workshop on Managing Quality in University (Perception and New Directions), IIUM Gombak, July 2007.

One-Day Training Programme on OSH Management System Awareness (Part 1), Kuala Lumpur, April 2007.

Workshop on Research Assessment and Ranking, Kuala Lumpur, March 2007.

Workshop on Review of CLA Course/Examination Syllabus, Kuala Lumpur, March 2007.

Kulliyah of Engineering Balanced Scorecard Cascading Workshop, Kuala Lumpur, September 2006.

Seminar and Business Forum on Malaysia-Japan Solar PV Technology Strategy and Application, Kuala Lumpur, February 2005.

Workshop on Outcome-based Education, KLIA, February 2005.

Conference on Engineering Education (CEE 2004), Kuala Lumpur, December 2004.

Regional Symposium on Chemical Engineering (RSCE2004), Bangkok, December 2004.

Third International Conference on Advanced Manufacturing Technology (ICAMT 2004), Kuala Lumpur, May 2004.

Workshop on Engineering Programme Accreditation Manual, Kuala Lumpur, February 2004.

Comprehensive Seminar on Construction and Creation of Sustainable Society based on the Zero-Discharge Concept, JSPS-VCC Core University Program "Environmental Science", Kyoto, Japan, December 2003.

2nd World Engineering Congress, Kuching, Sarawak, July 2002.

JSPS-VCC Water Environmental Planning Group Seminar, IIUM Gombak, October 2002.

Advanced Management Programme for Top University Administrators, Genting Highland, September 2002.

2002 International Conference on Stable and Just Monetary System: Viability of the Islamic Dinar, Kuala Lumpur, August 2002.

Kulliyah IOP and Ukhuwah Enhancement Programme, Pulau Pangkor, August 2002.

One-Day Workshop on Quality Policy and Objectives, IIUM, Gombak, July 2002.

6th Asia-Pacific International Symposium on Combustion and Energy Utilization (6TH APISCEU), Kuala Lumpur, May 2002.

Workshop on Accreditation of Engineering Degrees, Kuala Lumpur, May 2002.

JSPS-VCC Environmental Planning Group Seminar, IIUM Gombak, April 2002.

Training Workshop on Renewable Energy Technologies for Clean and Sustainable Development, Amman, Jordan, March 2002.

Bengkel Jaminan Kualiti IPTA Pertama, Kuala Lumpur, March 2002.

Kulliyah IOP, Cherating, Kuantan, September 2001.

IIUM Strategic Planning 2001-2010 Retreat, Kuantan, July 2001.

HP CAE Technology Seminar, Kuala Lumpur, June 2001.

Asia Oil and Gas Conference, Kuala Lumpur, June 2001.

National Seminar on Rainforest Knowledge Industries as Biowealth for Nation-Building, Bangi, May 2001.

Kursus Bina Negara Perdana, Kem Bina Negara Ulu Sepri, Rembau, April 2001.

First International Conference on Mechatronics (ICOM'01), Kuala Lumpur, February 2001.

International Muslim Youth Conference, IIUM Gombak, February 2001.

International Advanced Technology Forum 2000, Shah Alam, November 2000.

4th National Smart Partnership Dialogue, Kuala Lumpur, September 2000.

Business & Investment Forum for Renewable Energy & Energy Efficiency in Asia & The Pacific 2000, Kuala Lumpur, September 2000.

International Conference of Islamization of Human Sciences, IIUM Gombak, August 2000.

National Seminar and Workshop on Accreditation of Engineering Programmes, Kuala Lumpur, February 2000.

Colloquium on the Malaysian Engineering Education Model 2000, Putrajaya, Selangor, February 2000.

IRPA Workshop 2000, Genting Highlands, February 2000.

Seminar on Malaysian Industrial Energy Efficiency Improvement Project (MIEEIP), Kajang, Selangor, December 1999.

IIUM 5-Year Strategic Plan Retreat, Ayer Keroh, Malacca, October 1999.

MIGHT Consultation '99, Kuala Lumpur, September 1999.

IASTED International Conference on Applied Modelling and Simulation, Cairns, Australia, September 1999.

Colloquium on the Malaysian Engineering Education Model for the Next Millennium, Putrajaya, Selangor, August 1999.

World Renewable Energy Congress '99, Kuala Lumpur, June 1999.

Workshop on Managing Research Grants, Kuala Lumpur, April 1999.

Workshop on R&D Strategic Framework for the MSC (Multimedia Super Corridor), Kuala Lumpur, March 1998.

International Conference on Information Technology in Islamic Banking, IIUM-Kuala Lumpur, November 1997.

International Conference on Fluid and Thermal Energy Conversion '97, Yogyakarta, July 1997.

National Conference on Combustion Technologies for Cleaner Environment, IIUM-Kuala Lumpur, July 1997

Second International Conference on The Application of Numerical Methods in Engineering, UPM-Serdang, June 1997.

Seminar Asean Energy Study 2020 : Findings and Implications, March 1997.

Kulliyah IOP, January 1996, Port Dickson.

First Trabzon International Energy and Environment Symposium, Trabzon, Turkey, July 1996.

12th Symposium of Malaysian Chemical Engineers, Bangi, Malaysia, July 1996.

CFDHT (Computational Fluid Dynamic and Heat Transfer) Workshop, IIUM, Kuala Lumpur, Malaysia, May 1996.

IASTED International Conference on Modelling and Simulation, Pittsburgh, USA, April 1996.

International Workshop on 21st Century Studies of the Muslim Ummah: 2025, March 1996, Kuala Lumpur.

Kulliyah IOP, January 1996, Langkawi Island.

Seminar on Developing Water Resources for Enhancing the Quality of Environment and Life, November 1995, Kuala Lumpur.

Workshop on "IIUM Vision and Mission in the 21st Century", September 1995, Seremban.

MTDC-H&Q Third Technology Conference, August 1995, Kuala Lumpur.

First IIUM Departmental Management and Leadership Workshop, July 1995, Seremban.

Robotics and Automation Conference/Exhibition, November 1994, IIUM.

National Seminar on Waste Combustion, October 1994, UKM.

Kulliyyah IOP, September 1994, Cameron Highland.

Seminar on Managing Student Developmental Process, July 1994, IIUM.

National Seminar on Science Philosophy and History at Higher Learning Institutions, May 1994, UM.

Fourth International Seminar on Al-Quran, February 1994, Pusat Islam.

POSTGRADUATE COURSES TAKEN:

Process Dynamics (Control)
Digital Image Analysis
Computational Methods for Differential Equations
Fluid Mechanics and Transport Processes
Advanced Topics in Thermodynamics
Physico-Chemical Hydrodynamics
Polymer Science and Engineering
Heterogenous Catalysis
Reservoir Engineering
Advanced Unit Operations
Numerical Linear Algebra

SELECTED UNDERGRADUATE COURSES TAKEN:

Process Modeling and Control
Thermodynamics
Fluid Mechanics
Transport Processes
Chemical Reaction Engineering
Chemical Engineering Design
Engineering Analysis and Computation
Math for Scientists and Engineers
Advanced Linear Algebra
Advanced Organic Chemistry
Instrumental Methods Analysis