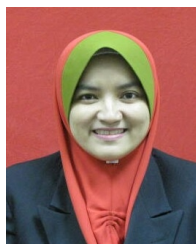


## CURRICULUM VITAE (CV)



### 1. PERSONAL AND SERVICE PARTICULAR

Title : Profesor Dr.  
Name : Suriani binti Abu Bakar  
Sex : Female  
Nationality : Malaysia  
Telephone : (O)  
7296 (F)  
suriani@fsmt.upsi.edu.my (E)  
Present Position : Professor VK7 (Special Grade C)  
Department : Faculty of Science and Mathematics

### 2. ACADEMIC QUALIFICATION

Qualification | Major | Institution | Year

- Doktor Falsafah (Ph.D) (Fizik / Fizik) , Universiti Teknologi MARA, 2011
- Sarjana Sains (Fizik / Fizik Bahan) , Universiti Teknologi Malaysia, 2005
- Sarjana Muda Sains Dengan Kepujian (Fizik / Fizik Industri) , Universiti Teknologi Malaysia, 2002

### 3. PROFESSIONAL AFFILIATION

Organisation | Role | Year | Level

- Persatuan Sains Analisis Malaysia (Analis), AHLI/MEMBER, 2017 - 2025, (National)
- Malaysian Membrane Society, AHLI/MEMBER, 2017 - 2025, (National)
- Asian Nanoscience and Nanotechnology, AHLI/MEMBER, 2015 - 2016, (International)
- Institute of Physics, AHLI/MEMBER, 2015 - 2016, (International)
- Institute of Physics (IOP), AHLI / MEMBER, 2012, (International)

- IEEE, AHLI / MEMBER, 2012, (International)
- The Malaysian Solid State Science and Technology Society MASS, AHLI / MEMBER, 2012, (National)
- Malaysian Institute of Physics (MIPM), AHLI / MEMBER, 2006, (International)

#### 4. FIELD OF SPECIALIZATION

Fizik

#### 5. RESEARCH INTEREST

1. Carbon Nanotubes
2. Graphene
3. Vertically Aligned Carbon Nanotubes from Palm Oil/Waste Cooking Palm Oil Using Thermal Chemical Vapor Deposition (TCVD) Method
4. Hydrogenated Amorphous Carbon Thin Films (a-C:H)
5. Diamond-like Carbon Films (DLC)
6. Plasma Enhanced Chemical Vapor Deposition Technique (PECVD) etc.

#### 6. WORK EXPERIENCE AND CAREER HISTORY

Position | Department | Duration

##### I Academic Position

- (Profesor) Fakulti Sains dan Matematik, UPSI, (09-2017) until (present)
- (Profesor Madya) Fakulti Sains dan Matematik, UPSI, (02-2014) until (08-2017)
- (Pensyarah Kanan) Fakulti Sains dan Matematik, UPSI, (12-2011) until (01-2014)
- (Pensyarah) Fakulti Sains dan Matematik, UPSI, (03-2006) until (11-2011)

##### II Administrative Position

- (PENGARAH) Pejabat Karang Mengarang, UPSI, (08-2017) until (08-2019)
- (KETUA JABATAN) Jabatan Fizik, UPSI, (05-2013) until (05-2015)

#### 7. SUPERVISION OF STUDENT

Name of Student | Mod (if available) | Position | Title of Thesis | Start Date | End Date | Status

##### I MASTER

- Fatiatun, (Mod A), Supervisor, (Fabrication of Graphene Oxide/ Zinc Oxide Nanocomposite through Spraying Method for Solar Cell Application), 29-09-2015 until 07-05-2018, (Submitted)
- Rika Noor Safitri, (Mod A), Supervisor, (Enhancement of Field Electron Emission Properties of Carbon Nanotubes/Zinc Oxide Nanocomposites Using Single and Multi-step Methods), 28-09-2013 until 14-04-2015, (Completed)
- Suhufa Alfariisa, (Mod A), Supervisor, (Synthesis of Carbon Nanostructured Materials from Waste Engine Oil using Thermal Chemical Vapor Deposition Method), 03-07-2013 until 17-03-2015, (Completed)
- Amira Shakila Binti Razali, (Mod A), Co-Supervisor, (Pencirian Filem Nipis Kaliksarina Didopkan dengan Nanotiub Karbon Untuk Pengesanan Ion CD<sub>2</sub><sup>+</sup>), 20-06-2013 until 19-04-2016, (Completed)

- Nur Azmina binti Mohamed Safian, (Mod A), Supervisor, (Physical Properties Optimization of Carbon Nanotubes from Palm Oil Precursor), 18-01-2012 until 18-02-2014, (Completed)
- Nur Falina binti Alias, (Mod A), Supervisor, (Sintesis Nanotiub Karbon daripada Minyak Masak Terpakai dan Sifat Pemancaran Elektron Medan), 18-01-2012 until 17-03-2015, (Completed)

## II PHD

- Nur Amirah Binti Jamaluddin, Co-Supervisor, (Wastewater Treatment of Palm Oil Mill Effluent (POME) by Responsive Graphene with Magnetic Surfactants), 22-06-2017 until 07-05-2018, (In Progress)
- Al Masoodi Ali Abdul Ameer Mohammed, Supervisor, (The Enhancement of UV Sensor Response by Zinc Oxide Nanostructures / Graphene Oxide Bilayer Nanocomposites Film), 25-01-2017 until 07-05-2018, (Presentation)
- Muqoyyanah, Supervisor, (Improving the Performance of Dye-Sensitized Solar Cells with Agglomerated-Free Graphene as Counter-Electrode and TiO<sub>2</sub> Nanostructures as Photoanode ), 29-02-2016 until 07-05-2018, (Presentation)
- Khayri Zaid Z Alzait, Supervisor, (Using Graphene Oxide-Based Electrodes with Constant Magnetic Field-Assisted Electrodeposition System for Removal CU<sup>2+</sup>), 25-02-2016 until 07-05-2018, (Presentation)
- Tretya Ardyani, (Graphene-Phylic Surfactants for Latex Technology), 28-01-2016 until 07-05-2018, (Presentation)
- Tretya Ardyani, Co-Supervisor, (Graphene-Phylic Surfactants for Latex Technology), 29-09-2015 until 07-05-2018, (Presentation)
- Nurhafizah Binti Md Disa, Supervisor, (Synthesis of Graphene Oxide Using Electrochemical Exfoliation Method for Electrode Materials Application), 28-11-2013 until 17-01-2017, (Completed)
- Norhafizah Binti Jusoh, Supervisor, (Mass Production of CNTS from Waste Cooking Palm Oil Precursor by Utilizing Peristaltic Sprayer and Its Application as Supercapacitor Electrode Material), 22-08-2013 until 07-05-2018, (Presentation)
- Siti Nur Akmar Mohd Yazid, Co-Supervisor, (Synthesis and Characterisation of Metal Oxide/ Graphene Nanocomposites for Glucose Sensor Applications), 03-07-2013 until 17-01-2017, (Completed)
- Nor Dalila binti Abd Rahman, Supervisor, (Synthesis of Aligned Carbon Nanotubes from Waste Chicken Fat Using Thermal Chemical Vapour Deposition Method for Field Emission Devices), 15-05-2012 until 16-06-2016, (Completed)
- Nor Dalila binti Abd Rahman, Supervisor, (Synthesis of Aligned Carbon Nanotubes from Waste Chicken Fat Using Thermal Chemical Vapour Deposition Method for Field Emission Devices), 15-05-2012 until 16-06-2016, (Completed)

## 8. RESEARCH ACTIVITY

Title | Grantor | Amount | Duration | Co-researcher | Type

### I Completed

#### LEADER

- Synthesis And Comparison Of Carbon Nanotubes Produced From Different Types Of Bio-Hydrocarbon Precursors, UNIVERSITI PENDIDIKAN SULTAN IDRIS - RM9400, 10-01-2012 to 10-01-2013 (Shahrul Kadri bin Ayop, Mazlina binti Mat Darius) - Short-term/Vote/Universiti Grant (grant below RM10,000)
- Ion Bombardment Energy Calculation Software Of CH<sub>4</sub> Plasma Using A Direct-Current Plasma Enhanced Chemical Vapour Deposition (DC, UNIVERSITI PENDIDIKAN SULTAN IDRIS - RM5996.4, 07-01-2006 to 06-01-2007 - Short-term/Vote/Universiti Grant (grant below RM10,000)
- Vertically Aligned Carbonnanotubes From Waste Cooking Palm Oil For Field Electron Emission Application, NGO - RM10000, 12-01-2010 to 12-01-2011 - Private Grant

- Carbon Nanotubes Synthesized from Waste Cooking Palm Oil Precursor as Adsorbent in Water Pollution Management, MUTINASIONAL/ASING - RM10915.1, 01-10-2015 to 01-10-2016 (Azmi bin Mohamed,Illyas bin Md Isa,Azlan bin Kamari,Norhayati binti Hashim) - Geran Antarabangsa/ Swasta/ NGO
- Synthesis and Characterization of Graphene by Electrochemical Exfoliation Method, SWASTA TEMPATAN - RM20000, 01-01-2014 to 01-01-2015 - Geran Antarabangsa/ Swasta/ NGO
- Amorphous Carbon Films From Waste Engine Oil: An Environmental-Friendly Approach, SWASTA TEMPATAN - RM20000, 01-12-2012 to 01-12-2014 (Shahrul Kadri bin Ayop,Mohamad rusop mahmood) - Geran Antarabangsa/ Swasta/ NGO
- Graphene Oxide: Natural Rubberlatex Nanocomposites As Supercapacitor Electrodes, KEMENTERIAN PENGAJIAN TINGGI - RM35000, 27-08-2015 to 27-08-2016 (Azmi bin Mohamed,Azlan bin Kamari) - Geran Agensi Kerajaan
- DEVELOPMENT OF SCALED-UP PROTOTYPE OF OIL-BASED CNT PRODUCTION (SUPER-CNT-PRO) SYSTEM UTILIZING DOMESTIC VEGETABLE AND ANIMAL OIL SOURCES AS CARBON FEEDSTOCK, KEMENTERIAN PENGAJIAN TINGGI - RM174000, 01-10-2013 to 01-04-2016 (Rosly bin Jaafar,Illyas bin Md Isa,Azmi bin Mohamed,Dr. Salina Muhamad (Unisel), Prof. Dr. Mohamad Rusop Mahmood (UiTM)) - Geran Agensi Kerajaan
- Preparation and Field Electron Emission Properties of Aligned Carbon Nanotube-Zinc Oxide Nanorods Composites, KEMENTERIAN PENGAJIAN TINGGI - RM50000, 03-12-2012 to 03-06-2015 (Rosazley bin Ramly,Azmi bin Mohamed,Prof. Dr. Abdul Rahman Mohamed (USM)) - Geran Agensi Kerajaan
- A Study Of The Mechanism Of Vertically Aligned Carbon Nanotube Growth Using Palm Oil As The Carbon Source, KEMENTERIAN PENGAJIAN TINGGI - RM82000, 15-03-2011 to 15-03-2013 (MOHD MUSTAMAM ABD KARIM,SALINA MUHAMAD (UiTM),MOHAMAD RUSOP MAHMOOD (UiTM),ROSLAN MD NOR (UM)) - Geran Agensi Kerajaan
- Synthesis and Comparison of Carbon Nanotubes Produced From Different Types of Bio-Hydrocarbon Precursors, UNIVERSITI PENDIDIKAN SULTAN IDRIS - RM9400, 01-10-2012 to 01-10-2013 (Shahrul Kadri bin Ayop,Mazlina binti Mat Darus) - Geran Universiti

#### **MEMBER**

- Study of Physico -Chemical Parameters and Heavy Metal in a Former Tin Mining Pond in Perak, Peninsular Malaysia, MUTINASIONAL/ASING - RM10915.1, 01-10-2015 to 01-10-2016 (Azlan bin Kamari,Norjan binti Yusof,Hanisom binti Abdullah,Azmi bin Mohamed,Norhayati binti Hashim,Illyas bin Md Isa) - Geran Antarabangsa/ Swasta/ NGO
- Synthesis, Characterisation And Application Of New Chitosan- Additive (S) Films For Food Perservation., KEMENTERIAN PENGAJIAN TINGGI - RM26000, 27-08-2015 to 27-08-2016 (Azlan bin Kamari,Azmi bin Mohamed) - Geran Agensi Kerajaan
- Synthesis Of Graphene Oxide/Chitosan Nanocomposites And Their Efficacy As Novel Environmental Friendly Media For Water-Insoluble Pesticide Formulations, KEMENTERIAN PENGAJIAN TINGGI - RM111170, 01-12-2014 to 01-12-2016 (Azlan bin Kamari,Azmi bin Mohamed,Illyas bin Md Isa,Norhayati binti Hashim,Dr. Che Fauziah bin Ishak (UPM),Dr. Adila binti Mohamad Jaafar (UPM)) - Geran Agensi Kerajaan
- Synthesis of New Layered Metal Herbicide Nanohybrids and Their Controlled-Release Properties, KEMENTERIAN PENGAJIAN TINGGI - RM84800, 01-07-2014 to 01-01-2017 (Norhayati binti Hashim,Azmi bin Mohamed,Illyas bin Md Isa,Azlan bin Kamari,Prof. Dr. Mohd Zobir bin Hussein (UPM),Dr. Adila binti Mohamad Jaafar (UPM)) - Geran Agensi Kerajaan
- Electrical and Structural Properties of Carbon Nanotube Effects on Novel Calixarene Thin Films for Metal Cation Sensing, UNIVERSITI PUTRA MALAYSIA - RM49900, 01-02-2014 to 01-02-2017 (Faridah Lisa binti Supian,Syed Abdul Malik bin Syed Mohamad,Prof. Dr. Muhamad Mat Salleh (UKM)) - Geran Agensi Kerajaan

- Synthesis Of Metal Oxide-Graphene Nanocomposite And Its Application As Glucose Sensor, KEMENTERIAN PENGAJIAN TINGGI - RM150000, 01-06-2013 to 01-06-2016 (Ilyas bin Md Isa,Norhayati binti Hashim) - Geran Agensi Kerajaan
- Space Mass Balance, KEMENTERIAN SAINS TEKNOLOGI DAN INOVASI - RM102730, 15-08-2012 to 15-08-2014 (Shahrul Kadri bin Ayop,Rosly bin Jaafar,Mohd Ikhwan Hadi bin Yaacob,Mohd Helmy Hashim (Pegawai ANGKASA)) - Geran Agensi Kerajaan
- Development Of A Prototype Computer-Based Linear Motion Experimental Set For Secondary And Tertiary Physics Education, KEMENTERIAN PENGAJIAN TINGGI - RM150000, 01-08-2012 to 01-08-2014 (Rosly bin Jaafar,Shahrul Kadri bin Ayop,Shaharudin bin Ali,Rosazley bin Ramly) - Geran Agensi Kerajaan
- Development And Study Of Metal Ions Calixarenes Sloid-State Using Langmuir And Langmuir-Blodgett (Lb) Films For Contamination Me, KEMENTERIAN PENGAJIAN TINGGI - RM108000, 01-08-2011 to 01-02-2014 (FARIDAH LISA SUPIAN,SYED ABDUL MALIK SYED MOHAMAD,SHAHRUL AINLIAH ALANG AHMAD,TIM H. RICHARDSON) - Geran Agensi Kerajaan
- Low Fluorine Content Phosphate Based Surfactants For Green Solvent Applications, UNIVERSITI PENDIDIKAN SULTAN IDRIS - RM72800, 02-01-2013 to 02-01-2015 (Azmi bin Mohamed,Azlan bin Kamari,Norhayati binti Hashim) - Geran Universiti
- Fundamental Study Of Carbon Nanotubes-Composite Ultrastrength Nanopaper With High Conductivity: Using Malaysia Palm Oil Trees Source, UNIVERSITI PENDIDIKAN SULTAN IDRIS - RM48000, 03-12-2012 to 03-12-2014 (Rosazley bin Ramly,Sarani Zakaria UKM),Rushdan Ibrahim (FRIM)) - Geran Universiti
- Production Of Nanocellulose From Native Cellulose: An Enviromental Friendly Approach - Utilizing Ultrasound, UNIVERSITI PENDIDIKAN SULTAN IDRIS - RM8000, 02-05-2012 to 02-05-2013 (Rosazley bin Ramly,Rosly bin Jaafar) - Geran Universiti

#### **Member**

- Designing and Evaluating an Interactive-Engagement Lecture (IEL) Model for Introductory University Physics Courses, UNIVERSITI PENDIDIKAN SULTAN IDRIS - RM210050.09, 01-01-2003 to 31-03-2004 (Abd Samad bin Hanif,Md Zahar bin Othman,Mohamad bin Ibrahim,Norhisham bin Mohamad Nordin,Che Soh bin Said,Maizatul Hayati binti Mohamad Yatim,Amily Shafila binti Shariff,Saira Banu binti Omar Khan,Jamilah binti Hamid,Sulaiman bin Sarkawi,Mohamad bin Hassan) - Short-term/Vote/Universiti Grant (grant more than RM200,000)

## **II Ongoing**

#### **LEADER**

- Fabrication of Hydrophilic and Agglomerated-Free Polyvinylidene Fluoride/ Graphene Oxide Electrode Materials in Capacitive Deionization System for Dye Removal from Textile Industry Wastewater, MUTINASIONAL/ASING - RM11428.86, 01-11-2017 to 01-11-2018 (Azmi bin Mohamed,Norhayati binti Hashim,Dr. Mohamad Hafiz Mamat (UiTM),Dr. Rosiah Rohani (UKM)) - Geran Antarabangsa/ Swasta/ NGO
- High-Efficiency Dye-Sensitized Solar Cell Based on Graphene-TiO<sub>2</sub> Nanocomposites Films, MUTINASIONAL/ASING - RM38186.25, 01-01-2017 to 01-01-2019 (Azmi bin Mohamed,Norhayati binti Hashim,Ilyas bin Md Isa,Azlan bin Kamari,Dr. Mohamad Hafiz Mamat (UiTM),Dr. Mohamad Hafiz Mamat (UiTM)) - Geran Antarabangsa/ Swasta/ NGO
- Synthesis and characterization of Graphene/ZnO Nanocomposites and Their Potential Applications for Transparent Conductive Electrodes, KEMENTERIAN PENGAJIAN TINGGI - RM102080, 02-11-2015 to 02-08-2018 (Azmi bin Mohamed,Ilyas bin Md Isa,Azlan bin Kamari,Norhayati binti Hashim,Dr. Mohamad Hafiz Bin Mamat (UiTM)) - Geran Agensi Kerajaan

- Large Area Graphene Thin Film Fabrication And Transfer Process From Exfoliated Graphite, KEMENTERIAN SAINS TEKNOLOGI DAN INOVASI - RM298750, 01-08-2014 to 01-07-2017 (Illyas bin Md Isa,Norhayati binti Hashim,Azlan bin Kamari,Azmi bin Mohamed) - Geran Agensi Kerajaan

#### **MEMBER**

- Wastewater Treatment of Palm Oil Mill Effluent (POME) by Responsive Graphene with Magnetic Surfactants, MUTINASIONAL/ASING - RM11893, 01-10-2016 to 01-10-2017 (Azmi bin Mohamed,Azlan bin Kamari,Norhayati binti Hashim) - Geran Antarabangsa/ Swasta/ NGO
- Synthesis, Characterization And Application Of Amphiphilic Chitosan Derivatives as Green Media For Water Insoluble Pesticide Formulations, MUTINASIONAL/ASING - RM38831, 15-01-2016 to 15-01-2018 (Azlan bin Kamari,Azmi bin Mohamed) - Geran Antarabangsa/ Swasta/ NGO
- Synthesis and formulation of high sensitivity and wide working range graphene electrochemical bisphenol A sensor modified with layered material nanocomposites, KEMENTERIAN PENGAJIAN TINGGI - RM79000, 15-08-2017 to 15-08-2019 (Illyas bin Md Isa,Noorshida binti Mohd Ali,Norhayati binti Hashim) - Geran Agensi Kerajaan
- Synthesis and Characterization of Cationic Surfactant in Water-in-CO<sub>2</sub> Microemulsions for Development of Novel Surfactant Coverage Index, KEMENTERIAN PENGAJIAN TINGGI - RM143600, 02-11-2015 to 02-11-2018 (Azmi bin Mohamed,Azlan bin Kamari,Norhayati binti Hashim) - Geran Agensi Kerajaan

### **9. CONSULTANCY AND ADVISORY WORK**

#### **Project | Organisation | Duration | Role | Type**

- Silver Medal Pecipta 2017 , UMT 10-2017 - 10-2017 (MEMBER) - (Profesor Pelawat/ Adjung)
- External Examiner, PhD, India, Anna University, India 09-2017 - 10-2017 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- Panel Interviewer for Pure Science Scholarship Programme (MYBRAINS) 2016 Sponsorship of Ministry of Education Malaysia - 25-28 July 2016, KPT 07-2017 - 01-2017 (MEMBER) - (Project)
- External Examiner, PhD UTM, UTM 06-2017 - 07-2017 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- External Examiner, MEng Thesis, UTHM, UTHM 06-2017 - 07-2017 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- External Examiner, MEng Thesis, UTHM, UTHM 06-2017 - 07-2017 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- Reviewer for Materials Letters Elsevier, Elsevier 01-2017 - 07-2017 (MEMBER) - (Referee for Article/Journal)
- Reviewer for Materials Letters Elsevier, Elsevier 01-2017 - 07-2017 (MEMBER) - (Referee for Article/Journal)
- Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)-Shah Alam- 29-30 November 2016., UNISEL 11-2016 - 11-2016 (MEMBER) - (Project)
- Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)-Shah Alam- 29-30 November 2016., UNISEL 11-2016 - 11-2016 (MEMBER) - (Project)
- Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)-Shah Alam- 29-30 November 2016., UNISEL 11-2016 - 11-2016 (MEMBER) - (Project)

- Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)-Shah Alam- 29-30 November 2016., UNISEL 11-2016 - 11-2016 (MEMBER) - (Project)
- MASS 2016 Young Researcher Award in Solid State Science and Technology by Malaysian Solid State Science and Technology Society (MASS), Nov 2016, Malaysian Solid State Science and Technology Society (MASS) 11-2016 - 11-2016 (MEMBER) - (Profesor Pelawat/ Adjung)
- MASS 2016 Young Researcher Award in Solid State Science and Technology by Malaysian Solid State Science and Technology Society (MASS), Nov 2016, Malaysian Solid State Science and Technology Society (MASS) 11-2016 - 11-2016 (MEMBER) - (Profesor Pelawat/ Adjung)
- Director- Community Service Program *1 Day as a Junior Scientist* with Sekolah Rendah Integrasi Teras Islam, Slim River, Perak, UPSI, 7 Sept. 2016, UPSI-SRITI 09-2016 - 09-2016 (MEMBER) - (Member of Committee providing academic services to UPSI)
- Scientific Committees- National Congress on Membrane Technology 2016 (NATCOM 2016) Johor, 24-25 Aug 2016. , UTM 08-2016 - 07-2016 (MEMBER) - (Project)
- Appointed as Judge for oral presentation session during National Congress on Membrane Technology Conference 2016 (NATCOM 2016) Johor, 24-25 August 2016, UTM 08-2016 - 08-2016 (MEMBER) - (Member of Editorial Board (International Level))
- Invited Speaker at National Congress on Membrane Technology 2016 (NATCOM 2016), Johor, MALAYSIA, 24-25 Aug 2016., UTM 08-2016 - 08-2016 (MEMBER) - (Member of Editorial Board (International Level))
- Keynote Speaker at The 2nd Electronic and Green Materials International Conference 2016 (EGM 2016), Phuket, THAILAND, 1-2 May 2016, Malaysia Research & Innovation Society (MyRIS) 05-2016 - 05-2017 (MEMBER) - (Member of Editorial Board (International Level))
- Reviewer for ACS, ACS Applied Materials & Interfaces 04-2016 - 05-2018 (MEMBER) - (Referee for Article/Journal)
- External Examiner, MEng Thesis, USM, USM 04-2016 - 06-2017 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- INVITED SPEAKER DURING INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN MATERIAL AND CHEMICAL SCIENCE, GANDHIGRAM RURAL INSTITUTE, INDIA 12-2015 - 12-2015 (MEMBER) - (Member of Editorial Board (International Level))
- Elucidation of Novel Ligand Characteristics, RMIC, UPSI 11-2015 - 11-2015 (MEMBER) - (Referee for Research Proposal)
- Penilai Geran Penyelidikan KPT, Kementerian Pengajian Tinggi 11-2015 - 12-2016 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- INVITED SPEAKER DURING 3RD MALAYSIAN GRAPHENE AND CARBON NANOTUBE WORKSHOP, UTM 10-2015 - 10-2015 (MEMBER) - (Member of Editorial Board (International Level))
- Outstanding Contribution in Reviewing, Materials & Design, Elsevier 07-2015 - 07-2015 (MEMBER) - (Referee for Article/Journal)
- Penilai Artikel Jurnal, Journal of Alloys and Compound, Elsevier 07-2015 - 07-2015 (MEMBER) - (Referee for Article/Journal)
- Penilai Artikel Jurnal, Materials Letters, Elsevier 07-2015 - 07-2015 (MEMBER) - (Referee for Article/Journal)
- Penilai Artikel Jurnal, Materials & Design, Elsevier 06-2015 - 06-2015 (MEMBER) - (Referee for Article/Journal)
- Chairperson - (IC-NET 2015), UiTM 02-2015 - 02-2015 (MEMBER) - (Appointed as Consultant by external organization/Curriculum board)
- Invited Speaker, IC-NET 2015, UiTM - NIT 02-2015 - 02-2015 (MEMBER) - (Member of Editorial Board (International Level))

- PELANTIKAN SEBAGAI PAKAR RUJUK BAGI PENYEDIAAN PROGRAM BAHARU IJAZAH SARJANA FAKULTI SAINS DAN MATEMATIK, FSM, UPSI 02-2015 - 12-2015 (MEMBER) - (Member of Editorial Board (International Level))
- External Examiner - UTM, MSc -Noor Fariza Subari, UTM 01-2015 - 01-2015 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- External examiner -UTM, MSc - ong Wai Kit, UTM 01-2015 - 01-2015 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- PAKAR RUJUK BAGI SEMAKAN SEMULA PROGRAM DIPLOMA SAINS, FAKULTI SAINS DAN MATEMATIK, FSM, UPSI 01-2015 - 12-2015 (MEMBER) - (Member of Editorial Board (International Level))
- External Examnier - UTM, MSc - Peh Ly Tat, UTM 01-2015 - 01-2015 (MEMBER) - (External IPTA Referee/ Pengadil Luar IPTA)
- PENILAI PROPOSAL SARJANA (PENYELIDIKAN)  
-ARGO KHOIRUL ANAS (M20122002251), JABATAN KIMIA,FSM,UPSI 12-2014 - 12-2014 (MEMBER) - (Referee for Research Proposal)
- PENILAI PROPOSAL PERINGKAT SARJANA (PENYELIDIKAN )  
-RIKA NOOR SAFITRI (M20131000690), JABATAN FIZIK,FSM UPSI 12-2014 - 12-2014 (MEMBER) - (Referee for Research Proposal)
- PENILAI PROPOSAL PERINGKAT SARJANA (PENYELIDIKAN)-  
TRETAYA ARDYANI (M20122002250), JABATAN KIMIA,FSM,UPSI 12-2014 - 12-2014 (MEMBER) - (Referee for Research Proposal)
- Penceramah Bagi Bengkel Graduate On Time (G.O.T) Bagi Para Pelajar Pasca Siswazah IPS UPSI, IPS, UPSI 11-2014 - 11-2014 (MEMBER) - (Member of Editorial Board (International Level))
- Juri 2nd International Postgraduate Conference on Science and Mathematics, Fakulti Sains dan Matematik 10-2014 - 10-2014 (MEMBER) - (Member of Editorial Board (International Level))
- Penilai Luar Kenaikan Pangkat Staf Akademik Universiti Selangor, Universiti Selangor 09-2014 - 10-2014 (MEMBER) - (Promotion Assessor)
- Penilai Pencerapan Kursus Pensijilan Pengajaran dan Pembelajaran Pensyarah Baharu UPSI Tahun 2014, BPAQ, UPSI 09-2014 - 10-2014 (MEMBER) - (Referee for Research Proposal)
- Ahli Penyelidik Bersekutu NANO-SciTech Centre, Institut Sains, Universiti Teknologi Maara, Universiti Teknologi Mara 08-2014 - 12-2014 (MEMBER) - (Member of Editorial Board (International Level))
- Fasilitator Bengkel Pembangunan Pelan Hala Tuju Graphene Kebangsaan, MOSTI 06-2014 - 06-2014 (MEMBER) - (Member of Editorial Board (International Level))
- Fasilitator Bengkel Pembangunan Pelan Hala Tuju Graphene Kebangsaan, Direktorat Nanoteknologi Kebangsaan, MOSTI 06-2014 - 06-2014 (MEMBER) - (Member of Editorial Board (International Level))
- Fundamental Study Of Graphene-Composite Nanocellulose Paper With High Conductivity: Using Local Natural Resources and Green Approach, Universiti Pendidikan Sultan Idris 03-2014 - 04-2014 (MEMBER) - (Referee for Research Proposal)
- Penceramah Bagi Bengkel Graduate On Time (G.O.T) Bagi Para Pelajar Pasca Siswazah IPS UPSI, IPS, UPSI 03-2014 - 03-2014 (MEMBER) - (Member of Editorial Board (International Level))
- Invitation as A Chairperson for the Malaysia - Japan International Conference on NANO Science, NANOtech & NANOENG 2014, UiTM 02-2014 - 03-2014 (MEMBER) - (Member of Committee providing academic services to UPSI )
- Menilai Artikel Jurnal di Peringkat Antarabangsa, Scienceweb Publishing 01-2014 - 12-2014 (MEMBER) - (Project)
- Penilai Luar Kenaikan Pangkat Staf Akademik (Prof. Madya) UNISEL, UNISEL 01-2014 - 01-2014 (MEMBER) - (Promotion Assessor)



- Journal Reviewer-Advancement In Scientific and Engineering Research, Scienceweb Publishing 01-2014 - 01-2014 (MEMBER) - (Referee for Article/Journal)
- Journal Reviewer - Advancement in Scientific and Engineering Research, Scienceweb Publishing 01-2014 - 01-2014 (MEMBER) - (Referee for Article/Journal)
- JEMPUTAN SEBAGAI PESERTA PAMERAN DI PUSAT SAINS NEGARA, MTSF SCIENCE EDUCATION FAIR 11-2013 - 12-2013 (Member) - (Penglibatan)
- INVITED SPEAKER FOR THE PL-RAMAN WORKSHOP, UITM - ALV TECHNOLOGIES SDN.BHD & UM 11-2013 - 11-2013 (MEMBER) - (Project)
- JEMPUTAN MEMBERI CERAMAH MOTIVASI, PONDOK PENGAJIAN ILMU WAHYU MERLIMAU MELAKA 11-2013 - 11-2013 (MEMBER) - (Project)
- LOREAL MALAYSIA FOR WOMAN IN SCIENCE FELLOWSHIP, LOREAL MALAYSIA 11-2013 - 10-2015 (Member) - (Perundingan Tanpa Bayaran)
- FELO PENYELIDIKAN NANOTEKNOLOGI RESEARCH CENTE UPSI, UPSI 11-2013 - 10-2013 (Member) - (Penglibatan)
- Research Fellow-Nanotechnology Research Centre, FSM, UPSI., FSM UPSI 11-2013 - 11-2018 (MEMBER) - (Project)
- Research Fellow-Nanotechnology Research Centre, FSM, UPSI., FSM UPSI 11-2013 - 11-2018 (MEMBER) - (Project)
- Mesyuarat Pembentangan Proposal Peringkat Sarjana (Penyelidikan dan Kertas Kerja) - Jamaliah Binti Jakpar, UPSI 10-2013 - 11-2013 (Member) - (Penglibatan)
- PENILAI ARTIKEL JURNAL - FABRICATION AND PHOTOLUMINESCENCE PROPERTIES OF RBXBA1-XZRO3 HOLLOW NANOSPHERES MATERIALS LETTERS, MATERIALS LETTER, ELSEVIER 10-2013 - 10-2013 (MEMBER) - (Referee for Article/Journal)
- JURI EKSPLO PENYELIDIKAN DAN INOVASI DALAM PENDIDIKAN PERINGKAT KEBANGSAAN, UPSI 09-2013 - 09-2013 (MEMBER) - (Project)
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- AJK KERTAS KERJA TEKNIKAL BAGI PROGRAM INTERNATIONAL CONFERENCE ON NANOSCIENCE AND NANOTECHNOLOGY 2013 (NANO-SCITECH 2013), UNIVERSITI TEKNOLOGI MARA, SHAH ALAM 02-2013 - 07-2013 (Member) - (Penglibatan)
- REVIEWER FOR CHEMICAL ENGINEERING JOURNAL- ELSEVIER (IMPACT FACTOR : 3.461 (2013), ELSEVIER 01-2013 - 05-2013 (Member) - (Penglibatan)
- REVIEWER FOR JOURNAL OF NANOPARTICLE RESEARCH - SPRINGER (IMPACT FACTOR 3.287)(2013), SPRINGER 01-2013 - 12-2013 (Member) - (Penglibatan)
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- REVIEWER FOR CHEMICAL ENGINEERING JOURNAL - ELSEVIER, ELSEVIER 01-2013 - 05-2013 (MEMBER) - (Referee for Article/Journal)
- MEMBER OF JAWATANKUASA INOVASI DAN PENGKOMERSIALAN UNIVERSITI , UPSI, UPSI 01-2013 - 12-2013 (Member) - (Penglibatan)
- REVIEWER FOR JOURNAL OF NANOPARTICLE RESEARCH - SPRINGER (IMPACT FACTOR 3.287)(2013), SPRINGER 01-2013 - 05-2013 (MEMBER) - (Referee for Article/Journal)

- Lantikan sebagai Ahli Penyelidik Bersekutu NANO-SciTech Centre, Institute of Science, UiTM, Shah Alam, NANO-SciTech Centre, Institute of Science, UiTM, Shah Alam 03-2012 - 03-2014 (Member) - (Appointed as Consultant by external organization/Curriculum board)
- REVIEWER FOR 2012 IEEE SYMPOSIUM ON BUSINESS, ENGINEERING & INDUSTRIAL APPLICATIONS, IEEE SYMPOSIUM ON BUSINESS, ENGINEERING & INDUSTRIAL APPLICATIONS 01-2012 - 05-2013 (Member) - (Penglibatan)

## 10. PUBLICATION

Author | Title | Publish Date | Publisher

### I Majalah / Suratkhbar / Artikel / Buletin/ Blog

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- Suriani binti Abu Bakar, "SURFACE STRUCTURAL VARIATIONS OF NANOSTRUCTURED POROUS SILICON TEMPLATE FORMED ELECTROMECHANICALLY OF CURRENT DENSITY PARAMETERS" , "2012 IEEE SYMPOSIUM ON BUSINESS, ENGINEERING AND INDUSTRIAL APPLICATIONS (ISBEIA 2012)" , 23/09/2012, MALAYSIA SECTION IE/IA/PEL JOINT CHAPTER
- Suriani binti Abu Bakar, "CONTROLLABLE DENSITY OF ALIGNED ZINC OXIDE NANOROD ARRAYS BY MOLARITIES VARIATION" , "2012 IEEE SYMPOSIUM ON HUMANITIES , SCIENCE AND ENGINEERING RESEARCH (SHUSER 2012)" , 24/06/2012, IEEE MALAYSIA POWER ELECTRONICS, INDUSTRIAL ELECTRONICS & INDUSTRIAL APPLICATIONS JOINT CHAPTER
- Suriani binti Abu Bakar, "CVD Growth of Carbon Nanotubes from Palm Oil Precursor" , "2012 IEEE Symposium on Business, Engineering and Industrial Applications" , 23/09/2012, UPSI, UNISEL, UiTM, Advanced Rubber Technology Unit & NANO-Science Centre
- Suriani binti Abu Bakar, "CARBON NANOTUBES ON POROUS SILICON SUPPORT - A DIAMETER CONTROLLED SYNTHESIS" , "2012 INTERNATIONAL CONFERENCE ON ENABLING SCIENCE AND NANOTECHNOLOGY (ESCINANO 2012)" , 05/01/2013, UNIVERSITI TEKNOLOGI MALAYSIA
- Suriani binti Abu Bakar, "Nanofibrillated Cellulose From Kenaf Core Using Different Mechanical Treatment Methods" , "2nd International Conference On Kenaf and Allied Fibres (ICKAF)" , 03/12/2013, Universiti Putra Malaysia
- Suriani binti Abu Bakar, "Properties Of Nanofibrillated Cellulose From Kenaf Bast Using Different Mechanical Treatment" , "3rd International Conference On The Advancement of Materials and Nanotechnology 2013" , 19/11/2013, USM & UiTM
- Suriani binti Abu Bakar, "EFFECT OF CARBON NANTUBES ON NANO COMPOSITE FROM NANO FIBRILLATED CELLULOSE" , "INTERNATIONAL CONFERENCE OF NANO AND MATERIALS SCIENCES" , 12/02/2015, WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY (WASET)
- Suriani binti Abu Bakar, "EFFECT OF SYNTHESIS TIME ON CARBON NANOTUBES GROWTH FROM PALM OIL AS CARBON SOURCEBY THERMAL CHEMICAL VAPOR DEPOSITION METHODS" , "INTERNATIONAL CONFERENCE ON ELECTRONIC DEVICES SYSTEM AND APPLICATIONS (ICEDSA 2012)" , 01/01/2012, IEEE XPLORE
- Suriani binti Abu Bakar, "DIAMETER CONTROLLED OF CARBON NANOTUBES SYNTHESIZED ON NANOPOROUS SILICON SUPPORT" , "INTERNATIONAL ON MANUFACTURING OPTIMIZATION INDUSTRIAL AND MATERIAL ENGINEERING (MOIME 2012

INTERNATIONAL ON MANUFACTURING OPTIMIZATION INDUSTRIAL AND MATERIAL ENGINEERING(MOIME 2012)" , 29/03/2013, MOIME 2012

- Suriani binti Abu Bakar, "EFFECT OF IRON AND COBALT CATALYST ON THE GROWTH OF CARBON NANOTUBES FROM PALM OIL PRECURSOR" , "INTERNATIONAL ON MANUFACTURING, OPTIMIZATION, INDUSTRIAL AND MATERIAL ENGINEERING(MOIME2013)" , 29/03/2013, MOIME2013
- Suriani binti Abu Bakar, "Effect of Wet-Strength Agent Polyethylenimine (PEI) on Nanocomposite" , "IPCSM'14" , 18/10/2014, Fakulti Sains dan Matematik, UPSI
- Suriani binti Abu Bakar, "Modification Of Cellulose To Nanofibrillated Cellulose (NFC) From Oil Palm Empty Fruit Bunch" , "International Post Graduate Conference On Science and Mathematics 2013" , 05/10/2013, Faculty of Science and Mathematics, UPSI
- Suriani binti Abu Bakar, "Production of Nanofibrillated Cellulose From Kenaf Bast and Core" , "International Post Graduate Conference on Science and Mathematics 2013" , 05/10/2013, Fakulti Sains dan Matematik, UPSI
- Suriani binti Abu Bakar, "METAL ACCUMULATION IN PLANT TISSUE AND SOIL METAL BIOAVAILABILITY AS AFFECTED BY APPLICATION OF AGRICULTURAL WASTES IN METAL CONTAMINATED SOIL" , "KOLOKIU KEBANGSAAN GERAN RACE (RESEARCH ACCULTURATION COLLABORATIVE EFFORT)2015" , 13/01/2015, KPM
- Suriani binti Abu Bakar, "AURUM AND PLATINUM AS METAL CONTACT TO AMORPHOUS CARBON THIN FILMS" , "NATIONAL PHYSICS CONFERENCE 2009 (PERFIK 2009)" , 07/12/2009, PROGRESS OF PHYSICS RESEARCH IN MALAYSIA
- Suriani binti Abu Bakar, "EFFECT OF CATALYST CONCENTRATION ON THE GROWTH OF PALM OIL BASED VERTICALLY ALIGNED CARBON NANOTUBES" , "NATIONAL PHYSICS CONFERENCE 2009 (PERFIK 2009)" , 07/12/2009, PROGRESS OF PHYSICS RESEARCH IN MALAYSIA
- Suriani binti Abu Bakar, "THE EFFECT OF DEPOSITION TEMPERATURE TO PHOTOCONDUCTIVITY PROPERTIES OF AMORPHOUS CARBON THIN FILMS DEPOSITED BY THERMAL CVD" , "NATIONAL PHYSICS CONFERENCE 2009 (PERFIK 2009)" , 07/12/2009, PROFRESS OF PHYSICS RESEARCH IN MALAYSIA

#### **XI Classified report / Teknikal**

- Suriani binti Abu Bakar, "FINDINGS IN NANOTECHNOLOGY - NANOTUBES REPORTED FROM A.B. SURIANI AND CO-RESEARCHERS" , "NULL" , 2010-11-23, VERTICAL NEWS
- Suriani binti Abu Bakar, "A Study on The Growth Mechanism of Vertically Aligned Carbon Nanotubes Using Palm Oil as The Carbon Source" , 2016-04-05, UPSI
- Suriani binti Abu Bakar, "DEVELOPMENT OF SCALED-UP PROTOTYPE OF OIL-BASED CNT PRODUCTION (SUPER-CNT-PRO) SYSTEM UTILIZING DOMESTIC VEGETABLE AND ANIMAL OIL SOURCES AS CARBON FEEDSTOCK" , 2016-08-16, UPSI
- Suriani binti Abu Bakar, "Fundamental Study Of Carbon Nanotubes-Composite Ultrastrength Nanopaper With High Conductivity: Using Malaysia Palm Oil Trees Source" , 2016-04-06, UPSI
- Suriani binti Abu Bakar, "Kajian Penfhasilan Nanofibrilasi Selulosa Dari Sumber Semulajadi Menggunakan Kaedah Ultrasonik" , 2015-01-29, Universiti Pendidikan Sultan Idris
- Suriani binti Abu Bakar, "Low Fluorine Content Phosphate Based Surfactants For Green Solvent Applications" , 2015-02-27, Universiti Pendidikan Sultan Idris
- Suriani binti Abu Bakar, "PREPARATION AND FIELD ELECTRON EMISSION PROPERTIES OF ALIGNED CARBON NANOTUBE-ZINC OXIDE NANORODS COMPOSITES" , 2015-03-16, UNIVERSITI PENDIDIKAN SULTAN IDRIS



## 11. INNOVATION

Name | Patent No | Date

- Quasi-Aligned Carbon Nanotubes Synthesised From Waste Engine Oil (LY 2015000791), 20/05/2015
- ENHANCED DISPERSION OF MULTIWALL CARBON NANOTUBES IN NATURAL RUBBER LATEX NANOCOMPOSITES BY SURFACTANTS BEARING PHENYL G (LY2015002056), 12/03/2015
- agrochemical compositions and methods for manufacturing thereof (PI 2015704382), 12/02/2015
- PREPARATION OF MWCNTS/ NATURAL RUBBER LATEX NANOCOMPOSITES BY HIGHLY BRANCHED HYDROCARBON SURFACTANTS (LY2014000539), 05/06/2014
- NEW AND SIMPLE APPROACH OF GRAPHENE LATEX NANOCOMPOSITE PRODUCTION FOR SUPERCAPACITOR APPLICATION (LY2014000538), 05/06/2014
- A METHOD FOR PRODUCING VERTICALLY ALIGNED CARBON NANOTUBES FROM PALM OIL (UI 2010004929), 01/10/2010
- VERTICALLY ALIGNED CARBON NANOTUBES (UI 2010004930), 01/10/2010

## 12. INVOLVEMENT IN ACADEMIC ACTIVITY

(OTHER THAN TEACHING, SUPERVISION, RESEARCH AND CONSULTANCY)

Course, Seminar And Workshop

Name | Venue | Date From | Date To | Role

### I National

- SEMINAR SERIES "THE NEW ELECTRICAL CONDUCTOR BASED ON CARBON", UNIVERSITI TEKNOLOGI PETRONAS, Malaysia, 14-03-2012 - 14-03-2012 (PESERTA)
- NANOMATERIALS TECHNOLOGY SPECIALIZED CONFERENCE 2012, UNIVERSITI TEKNOLOGI MALAYSIA, SKUDAI, Malaysia, 06-03-2012 - 07-03-2012 (PESERTA)
- MALAYSIA TECHNOLOGY EXPO (MTE) 2012, PUSAT DAGANGAN DUNIA PUTRA (PWTC), Malaysia, 16-02-2012 - 18-02-2012 (PESERTA)
- BioMalaysia 2011 Conference & Exhibition, Kuala Lumpur Convention Centre (KLCC), Malaysia, 21-11-2011 - 23-11-2011 (PESERTA)

### II University

- Majlis Menandatangani dan Lafaz Ikrar Bebas Rasuah Kakitangan Universiti Pendidikan Sultan Idris, Panggung Percubaan, Kampus Sultan Azlan Shah, Universiti Pendidikan Sultan Idris, Tanjong Malim, Malaysia, 19-02-2018 - 19-02-2018 (PESERTA)
- Getting Published In Social Science Scopus-Indexed Journals Workshop, Dewan Konvensyen, Aras 5 Bangunan e-Learning, Kampus Sultan Abdul Jalil Shah, UPSI, Malaysia, 08-02-2018 - 08-02-2018 (PESERTA)
- Bengkel Penyediaan Dokumentasi Bagi MS ISO 17025:2017 Akreditasi Makmal Siri 2 (Kerjasama BPRKKP), Silka Maytower Hotel, Kuala Lumpur, Malaysia, 02-02-2018 - 04-02-2018 (PESERTA)
- Bengkel Penggunaan dan Pemurnian Sistem MyBOOK, Bilik Mesyuarat, Pejabat Karang Mengarang, Malaysia, 07-09-2017 - 08-09-2017 (PESERTA)
- Bengkel Program Baharu Siswazah 2017, Crystal Crown Hotel Kuala Lumpur, No. 3, Jalan Jambu Mawar, Off Jalan Kepong, 52000 Kuala Lumpur, Malaysia, 28-04-2017 - 30-04-2017 (PESERTA)
- Majlis Amanat Naib Canselor UPSI 2017, Dewan Besar UPSI, KSAS, UPSI, Malaysia, 18-04-2017 - 18-04-2017 (PESERTA)
- Bengkel pemantapan penyeliaan dan penilaian tesis/kertas projek bagi pensyarah Jabatan Fizik-Siri II, Bilik Seminar, Blok 4, Jabatan Fizik, UPSI, Malaysia, 04-04-2017 - 04-04-2017 (PESERTA)

- Bengkel Petent (Dalam) dan Pengkomersilan, Bilik Seminar Jabatan Biologi, FSMT, UPSI, Malaysia, 17-03-2017 - 17-03-2017 (PESERTA)
- Bengkel pementapan penyeliaan dan penilaian tesis/kertas projek bagi pensyarah Jabatan fizik -Siri 1, Bilik Seminar, Blok 4, Jabatan Fizik, UPSI, Malaysia, 16-03-2017 - 16-03-2017 (PESERTA)
- Majlis Bersama YH Prof. Dato' Dr. Mohammad Shatar Sabran, Naib Canselor UPSI, Auditorium, KSAJS, UPSI, Malaysia, 24-02-2017 - 24-02-2017 (PESERTA)
- Sesi Perkongsian Berkaitan Permohonan Geran Penyelidikan Antarabangsa, Bilik Seminar Jabatan Biologi, FSMt, UPSI, Malaysia, 22-02-2017 - 22-02-2017 (PESERTA)
- Bengkel Klinik Penyediaan Proposal Penyelidikan FRGS dan PRGS 2016, Bilik Seminar Fakulti Sains dan Matematik, UPSI, Malaysia, 11-01-2017 - 11-01-2017 (PESERTA)
- Technical Talk & Membership Drive Bersama IEEE Oceanic Engineering Society, Bilik Seminar Jabatan Fizik, Fakulti Sains & Matematik, Kampus Sultan Azlan Shah, UPSI, Malaysia, 02-09-2016 - 02-09-2016 (PESERTA)
- Bengkel Pementapan Penyeliaan dan Penilaian Latihan Mengajar Fizik., Bilik Mesyuarat Jabatan Fizik, Fakulti Sains & Matematik, Kampus Sultan Azlan Shah, UPSI, Malaysia, 02-08-2016 - 02-08-2016 (PESERTA)
- Majlis Anugerah Kecemerlangan Staf 2016, Auditorium Utama, KSAJS, UPSI, Malaysia, 08-06-2016 - 08-06-2016 (PESERTA)
- Seminar dan Bengkel Public Private Research Network, Dewan Konvensyen, E-Learning, KSAJS, UPSI, Malaysia, 16-05-2016 - 16-05-2016 (PESERTA)
- Kunjungan Hormat dan Perkongsian Aspirasi (MPN), Bilik Mesyuarat Utama, FPPM, UPSI, Malaysia, 18-04-2016 - 18-04-2016 (PESERTA)
- Bengkel Sistem E-Jurnal UPSI Untuk Ketua Editor Jurnal, Makmal Exa, Aras 1 Bangunan Pusat ICT, Kampus Sultan Azlan Shah, UPSI, Malaysia, 29-03-2016 - 29-03-2016 (PESERTA)
- Sesi Dialog Bersama Ketua Pengarah Pendidikan Tinggi, JPT, Dewan Konvensyen, Aras 5, E-Learning, KSAJS, UPSI, Malaysia, 29-03-2016 - 29-03-2016 (PESERTA)
- Perjumpaan TNC (PI) bersama staf bagi menyemarakkan 4P UPSI, Auditorium Utama, UPSI, Malaysia, 16-02-2016 - 16-02-2016 (PESERTA)
- Majlis Amanat Naib Canselor 2016, Dewan SITC, KSAJS, Malaysia, 28-01-2016 - 28-01-2016 (PESERTA)
- Majlis Sambutan Maulidur Rasul 1437H, Auditorium Utama, KSAJS, UPSI, Malaysia, 06-01-2016 - 06-01-2016 (PESERTA)
- Majlis International Guest Lecture by Prof. Dr. Ian Scowen, University of Lincoln, U.K, FSMT & Bangunan Elearning, UPSI, Malaysia, 04-09-2015 - 04-09-2015 (PESERTA)
- Bengkel Penyeliaan & Penulisan Abstrak Program Pengajian Siswazah FSMT, Bilik Seminar FSMT, KSAS, FSMT, Malaysia, 20-08-2015 - 20-08-2015 (PESERTA)
- Bengkel Separuh Hari Program Baharu, Ijazah Sarjana Muda (ISM), FSMT, Bilik Seminar FSMT, UPSI, Malaysia, 28-04-2015 - 28-04-2015 (PESERTA)
- Bengkel Pemurnian SOP Makmal Fakulti Sains & Matematik, Bilik Seminar Jabatan Biologi, Fakulti Sains & Matematik, Kampus Sultan Azlan Shah, UPSI, Malaysia, 23-04-2015 - 23-04-2015 (PESERTA)
- Perhimpunan Bulanan (April 2015), ASK dan APC 2014, Dewan Besar KSAS, Proton City, UPSI., Malaysia, 15-04-2015 - 15-04-2015 (PESERTA)
- KARNIVAL PENYELIDIKAN UNIVERSITI 2015, Dewan Konvensyen, Aras 5, Bangunan E-Learning, UPSI, Malaysia, 05-03-2015 - 05-03-2015 (PESERTA)
- Majlis Menyemarakkan 4P UPSI, Auditorium Utama, Universiti Pendidikan Sultan Idris, Tanjong Malim, Perak Darul Ridzuan, Malaysia, 05-02-2015 - 05-02-2015 (PESERTA)
- Majlis Amanat Naib Canselor 2015, Dewan Besar, Kampus Sultan Azlan Shah, Proton City., Malaysia, 28-01-2015 - 28-01-2015 (PESERTA)

- Bengkel Hala Tuju & Penyediaan Takwim Fakulti Sains dan Matematik, Quality Hotel City Centre, Kuala Lumpur, Malaysia, 16-01-2015 - 18-01-2015 (PESERTA)
- Kursus Pembinaan Pasukan Pengurusan dan Sokongan Fakulti Sains dan Matematik, Cinta Sayang Resort, Sungai Petani, Kedah, Malaysia, 12-12-2014 - 14-12-2014 (PESERTA)
- Perhimpunan Bulanan - NOVEMBER 2014, Dewan Besar, Kampus Sultan Azlan Shah, UPSI, Malaysia, 05-11-2014 - 05-11-2014 (PESERTA)
- Bengkel Outcome Based Education (OBE) Siri 2, Auditorium, UPSI, Tanjong Malim, Malaysia, 23-10-2014 - 23-10-2014 (PESERTA)
- Bengkel Outcome Base Education (OBE), Auditorium UPSI, Malaysia, 16-10-2014 - 16-10-2014 (PESERTA)
- Bengkel Course Outline & Course Structure Siri 3 - kerjasama Bahagian Hal Ehwal Akademik, Makmal Komputer 4, Bangunan Pusat ICT, Universiti Pendidikan Sultan Idris, Kampus Sultan Azlan Shah., Malaysia, 27-08-2014 - 27-08-2014 (PESERTA)
- Perhimpunan Bulanan Staf UPSI (OGOS) dan Sambutan Raya, Dewan SITC, UPSI, Malaysia, 12-08-2014 - 12-08-2014 (PESERTA)
- Majlis Perhimpunan Bulanan - JULAI 2014, Auditorium Utama, UPSI., Malaysia, 02-07-2014 - 02-07-2014 (PESERTA)
- Sambutan Hari Guru Peringkat UPSI, Dewan Besar, Kampus Sultan Azlan Shah, Universiti Pendidikan Sultan Idris, Proton City., Malaysia, 19-05-2014 - 19-05-2014 (PESERTA)
- Kursus Pengurusan dan Kepimpinan Penyelidikan (Sesi 2), Bilik Latihan 2, Aras Bawah Blok C, UPSI, Tanjong Malim, Malaysia, 05-05-2014 - 05-05-2014 (PESERTA)
- Expert Talk On ISI/Scopus Journal Publication - Professor Tony Bush, University of Nottingham, Dewan Sri Tanjong, Kampus Sultan Abdul Jalil Shah, Universiti Pendidikan Sultan Idris, Tanjong Malim., Malaysia, 17-03-2014 - 17-03-2014 (PESERTA)
- Bengkel T.O.T Inquiry Learning 2014, Bilik Seminar Fakulti, Bangunan ST01, Kampus Sultan Azlan Shah, Proton City., Malaysia, 14-02-2014 - 16-02-2014 (PESERTA)
- Bengkel Kaedah Penyelidikan Pendidikan KRL3033 & Latihan Mengajar KPR3974 - PJJ Semester 2 2013/2014, Bilik Mesyuarat Fakulti Sains & Matematik, Kampus Sultan Azlan Shah, Proton City, Malaysia, 13-02-2014 - 13-02-2014 (PESERTA)
- Taklimat Proses P&P MS ISO 9001: 2008 Kepada Staf Akademik UPSI, Dewan Kuliah Pusat 6, UPSI, Malaysia, 12-02-2014 - 12-02-2014 (PESERTA)
- Bengkel/Mesyuarat Jawatankuasa Pengajian Semakan Semula Program Akademik 2014, Hotel Quality, Kuala Lumpur, Malaysia, 07-02-2014 - 09-02-2014 (PESERTA)
- Program Wacana Akademik 2014 - Jabatan Fizik, Bilik Seminar, Jabatan Fizik, Fakulti Sains & Matematik, Kampus Sultan Azlan Shah, Proton City., Malaysia, 06-02-2014 - 06-02-2014 (PESERTA)
- Kursus Interactive Lecture (Kumpulan 2) - Kerjasama Pusat ICT, Makmal Komputer, Aras 1, Bangunan Pusat ICT, KSAS, UPSI, Malaysia, 20-01-2014 - 20-01-2014 (PESERTA)
- Majlis Amanat Naib Canselor 2014, Dewan SITC, Kampus Sultan Abdul Jalil Shah, UPSI, Malaysia, 15-01-2014 - 15-01-2014 (PESERTA)
- Bengkel Pemurnian Kertas Kerja Semakan Kurikulum AT11, AT12 dan AT13, Bilik Mesyuarat Jabatan Biologi, Fakulti Sains & Matematik, Universiti Pendidikan Sultan Idris., Malaysia, 31-10-2013 - 31-10-2013 (PESERTA)
- Bengkel Akreditasi MQA dan Taklimat Open and Distance Learning (ODL), Bilik Mesyuarat FSMT, Malaysia, 02-10-2013 - 02-10-2013 (PESERTA)
- Perhimpunan Bulanan Staf Bersama Naib Canselor (Ogos 2013), Dewan Besar, Kampus Sultan Azlan Shah, UPSI, Malaysia, 01-08-2013 - 01-08-2013 (PESERTA)

- Bengkel Komunikasi, Kepimpinan dan Kemahiran Pengucapan Awam (Kerjasama TNCA P&I), Dewan Sri Tanjong, UPSI, Malaysia, 10-07-2013 - 11-07-2013 (PESERTA)
- Bengkel Penyediaan Rancangan dan Pengisian Borang Penyelidikan E-Science, Bilik Seminar, Jabatan Fizik, UPSI, Malaysia, 08-05-2013 - 08-05-2013 (PESERTA)
- Perhimpunan Bulanan Staf Bersama Naib Canselor UPSI (MEI 2013), Dewan Besar, Kampus Sultan Azlan Shah, UPSI, Malaysia, 08-05-2013 - 08-05-2013 (PESERTA)
- Wacana Ilmu Anjuran Jabatan Fizik FSMT, Bilik Seminar Jabatan Fizik, UPSI, Malaysia, 02-05-2013 - 02-05-2013 (PESERTA)
- Perhimpunan Bulanan dan Anugerah Perkhidmatan Cemerlang 2012, Dewan SITC, Kampus Sultan Abdul Jalil, UPSI, Malaysia, 03-04-2013 - 03-04-2013 (PESERTA)
- Wacana Ilmu Bagi Tahun 2013 Anjuran Jabatan Fizik, Bilik Seminar, Aras Bawah, Blok 04, FSMT, Malaysia, 07-03-2013 - 07-03-2013 (PESERTA)
- Perhimpunan Bulanan Staf Bersama Naib Canselor UPSI (MAC 2013), Dewan Besar, Kampus Sultan Azlan Shah, UPSI., Malaysia, 06-03-2013 - 06-03-2013 (PESERTA)
- Letihan Penggunaan Pengkalan Data Scopus, Makmal Latihan IT, Perpustakaan Tuanku Bainun, Malaysia, 19-12-2012 - 19-12-2012 (PESERTA)
- Program Wacana Ilmu Fizik Siri 6, Fakulti Sains & Matematik, Bilik Mesyuarat Jabatan Fizik, Fakulti Sains & Matematik, Universiti Pendidikan Sultan Idris., Malaysia, 05-12-2012 - 05-12-2012 (PESERTA)
- Wacana Ilmu Fizik Siri 5, Bilik Seminar, Jabatan Fizik, UPSI, Malaysia, 08-11-2012 - 08-11-2012 (PESERTA)
- Bengkel Penyediaan Program Baharu, Bilik Seminar Jabatan Fizik, UPSI, Malaysia, 31-10-2012 - 31-10-2012 (PESERTA)
- Wacana Ilmu Fizik Siri 4, Bilik Mesyuarat Jabatan Fizik, Blok 4, UPSI, Malaysia, 03-10-2012 - 03-10-2012 (PESERTA)
- Pengurusan Penyelidikan Berimpak Tinggi, Bilik Latihan 2, Aras Bawah, Blok C, Kampus Sultan Abdul Jalil Shah, UPSI, Malaysia, 09-08-2012 - 10-08-2012 (PESERTA)
- Wacana Ilmu Fizik Siri 3, Makmal Pengajaran 4, STO4, Aras 2, Kampus Baru, UPSI, Malaysia, 01-08-2012 - 01-08-2012 (PESERTA)
- Bengkel Penulisan Proposal Penyelidikan, Bilik Seminar FSMT, Proton City, Malaysia, 12-07-2012 - 13-07-2012 (PESERTA)
- Program Wacana Ilmu Fizik, Fakulti Sains dan Matematik, Makmal Pengajaran 7, Aras 2 Blok 4, Jabatan Fizik, Fakulti Sains & Matematik, UPSI., Malaysia, 05-07-2012 - 05-07-2012 (PESERTA)
- Bengkel Analisis "Course Self-Review", Makmal Pengajaran 7, Aras 2 Blok 4, Kampus Sultan Azlan Shah, Universiti Pendidikan Sultan Idris., Malaysia, 21-06-2012 - 21-06-2012 (PESERTA)
- Tayangan Perdana : The Making of Young Scientists 2011, Dewan Konvensyen, Aras 5 Bangunan e-Learning, Universiti Pendidikan Sultan Idris, Tanjong Malim., Malaysia, 20-04-2012 - 20-04-2012 (PESERTA)
- Bengkel Penawaran Program Baharu FSMT (Jabatan Fizik), Makmal Pengajaran 7, Aras 2 Blok 4, Jabatan Fizik, Fakulti Sains & Matematik, UPSI, Malaysia, 12-04-2012 - 12-04-2012 (PESERTA)
- Perkembangan Kerjaya Ahli Akademik : Memperteguh Budaya Merancang, Dewan Konvensyen, Aras 5 Bangunan e-learning, Universiti Pendidikan Sultan Idris., Malaysia, 01-03-2012 - 01-03-2012 (PESERTA)
- English for Work (P&P), Bilik Latihan 1, Blok C, UPSI, Malaysia, 08-06-2010 - 10-06-2010 (PESERTA)
- Bitara, Teluk Dalam Resort, Pulau Pangkor, Malaysia, 08-02-2010 - 11-02-2010 (PESERTA)
- Kursus IELTS Tutorial, Tadahan Selatan, UPSI, Malaysia, 09-06-2008 - 10-06-2008 (PESERTA)
- Kursus Penilaian Tahap Kecekapan (TK 3), Kompleks Muzik, UPSI, Malaysia, 14-05-2008 - 29-05-2008 (PESERTA)

- Bengkel International English Language Testing System (IELTS) Bil. 2/2007, Makmal Pengajaran Mikro, Tadahan Utara, UPSI, Malaysia, 04-06-2007 - 07-06-2007 (PESERTA)
- Kursus Induksi Umum, Institut Latihan FAMA, Port Dickson, Malaysia, 03-09-2006 - 13-09-2006 (LAIN-LAIN)
- Kursus Induksi Khusus Kumpulan Pengurusan dan Profesional dan sokongan 1, , Malaysia, 14-08-2006 - 16-08-2006 (PESERTA)

### III Other

- AL 103 Intellectuality and Social Consience, Kampus AKEPT, Bandar Enstek, Nilai, Malaysia, 30-10-2017 - 31-10-2017 (PESERTA)
- AL 406 Leadership Styles and Characteristics, Akademi Kepimpinan Pendidikan Tinggi (AKEPT), Lebuah Enstek,, 71760 Bandar Enstek, Negeri Sembilan, Malaysia, 14-09-2017 - 15-09-2017 (PESERTA)
- Persidangan Meja Bulat ACLRI-MPN Ke-2 Sustainable Transformation Agenda For High Income Nation, Doubletree Hilton, Malaysia, 26-06-2012 - 26-06-2012 (PESERTA)
- Program Melawat Lab MTDC, USM, Engineering Campus, Nibong Tebal, Malaysia, 28-03-2012 - 28-03-2012 (PESERTA)

### Conference

**Project Title | Conference Name | Date From | Date To | Role**

#### I International

- Improving the Photovoltaic Performance of DSSCs Using a Combination of Mixed-phase TiO<sub>2</sub> Nanostructure Photoanode and Agglomerated Free Reduced Graphene Oxide Counter Electrode Assisted with Hyperbranched Surfactant, UNNES PHYSICS International Symposium 2018, 03-05-2018 - 04-05-2018 (PENGUCAPTAMA)
- SYNTHESIS OF GRAPHENE OXIDE VIA ELECTROCHEMICAL EXFOLIATION METHOD USING TRIPLE-TAILS SURFACTANT FOR ELECTRODE MATERIALS APPLICATION, 8th International Conference on Nanoscience and Nanotechnology (Nano-Scitech 2017), 24-02-2017 - 27-02-2017 (PENGUCAPTAMA)
- Fabrication of Highly Conductive Electrodes of Graphene Oxide/Natural Rubber Latex-Based Electrodes by using a Hyper-Branched Surfactant, The Electronic and Green Materials (EGM 2016) International Conference, 01-05-2016 - 02-05-2016 (PENGUCAPTAMA)
- Graphene Oxide Based Polymer Nanocomposites and Their Supercapacitor Applications, 6th Global Experts Meeting and Expo on Nanomaterials and Nanotechnology, 21-04-2016 - 23-04-2016 (PEMBENTANG)
- Highly Conductive Electrodes of Graphene Oxide/Natural Rubber Latex-Based Electrode Using Hyper-Branched Surfactant , International Conference on Recent Advances in Material and Chemical Sciences (ICRAMCS-2015), 14-12-2015 - 15-12-2015 (PEMBENTANG)
- Zinc Oxide/Carbon Spheres Nanocomposites and Their Field Electron Emission Properties, 5th International Conference on Key Engineering Materials, 21-03-2015 - 23-03-2015 (PEMBENTANG)
- Growth Mechanism and Chemical Reaction of Carbon Nanotubes Growth from Palm oil Precursor Using Different Carrier Gas, INTERNATIONAL CONFERENCE ON NANOSCIENCE, NANOTECHNOLOGY AND NANOENGINEERING 2014, 28-02-2014 - 03-03-2014 (PEMBENTANG)
- Effect of Substrate Positions in Thermal Chemical Vapor Deposition Reactor on Vertically Aligned Carbon Nanotubes Synthesized from Palm Oil , 3th International Advances In Applied Physics and Material Sciences (APMAS 2013), 24-04-2013 - 28-04-2013 (PEMBENTANG)
- Synthesis of Carbon Nanotubes on Nanostructured Titanium Dioxide Thin Films , NANO SciTECH 2013, 01-03-2013 - 04-03-2013 (PEMBENTANG)
- CVD Growth of Carbon Nanotubes from Palm Oil Precursor , 2012 IEEE Symposium on Busniess, Engineering and Industrial Aplication, 23-09-2012 - 26-09-2012 (PEMBENTANG)

- 1. Selective Growth of Vertically Aligned Carbon Nanotubes from Palm Oil
- 2. Time Evolution of the Growth of Vertically Aligned Carbon Nanotubes using Palm Oil, Nano Materials Technology Specialized Conference 2012, 06-03-2012 - 07-03-2012 (PEMBENTANG)

## II National

- Fabrication of Conductive and Agglomerated-Free Graphene Oxide based Nanocomposites for Electrode Materials Application assisted by Hyper-Branched Surfactant, NATIONAL CONGRESS ON MEMBRANE TECHNOLOGY 2016 (NATCOM2016), 24-08-2016 - 25-08-2016 (PEMBENTANG)
- Parametric Study of vertically Aligned Carbon Nanotubes Synthesized From Palm Oil, 6th International Conference on Diffusion in Solids and Liquids: Mass Transfer, Heat Transfer and Microstructure and Properties, DSL-2010, 03-07-2010 - 09-07-2010 (PEMBENTANG)
- Field Electron Emission Properties of Vertically Aligned Carbon Nanotubes Grown from Palm Oil, 3rd INTERNATIONAL CONFERENCE ON FUNCTIONAL MATERIAL AND DEVICES 2010 (ICFMD-2010), 13-06-2010 - 17-06-2010 (PEMBENTANG)
- Different Properties of Palm Oil Based Carbon Nanotubes by Different Catalyst Preparation Method, 25th Regional Conference on Solid State Science & Technology 2009 RCSSST 2009, 21-12-2009 - 23-12-2009 (PEMBENTANG)
- i. Structural Properties of DC-PECVD Hydrogenated Amorphous Carbon (a-C:H) Thin Films.
- ii. The Influence of DC Power On Raman, Optical Band Gap and Refractive Index of Hydrogenated Amorphous Carbon (a-C:H) Thin Films Deposited from CH<sub>4</sub> Plasma.  
, International Conference on Nanoscience and Nanotechnology 2008 (Nano-SciTech 2008), 18-11-2008 - 21-11-2008 (PEMBENTANG)

## 14. AWARD IN ACADEMIC AND PROFESSIONAL FIELD

Award Name | Award By | Level | Date

### I Academic

- Anugerah Ahli Akademik Harapan, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 04-06-2014
- Sijil Penghargaan Menamatkan PhD dalam masa 3 Tahun, UPSI (UNIVERSITY), 04-09-2012
- Anugerah Dekan, Fakulti Sains dan Teknologi, UTM-Konvokesyen UTM, Mac 2003, Fakulti Sains dan Teknologi, UTM (UNIVERSITY), 15-03-2003

### II Medal

- Sijil Penghargaan Perkhidmatan Cemerlang 2016, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 28-04-2017
- Sijil Penghargaan Perkhidmatan Cemerlang 2015, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 29-06-2016
- Sijil Penghargaan Perkhidmatan Cemerlang 2015, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 08-03-2016
- Sijil Penghargaan Perkhidmatan Cemerlang 2014, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 15-04-2015
- Sijil Penghargaan Perkhidmatan Cemerlang 2013, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 28-05-2014
- Anugerah Perkhidmatan Cemerlang 2013, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 16-10-2013
- Anugerah Perkhidmatan Cemerlang, UNIVERSITI PENDIDIKAN SULTAN IDRIS (UNIVERSITY), 03-04-2013

### III Research

- Green, Economical and Simple Fabrication Approach of Graphene Oxide/Natural rubber Latex Nanocomposites for Large-Scale Industrial Application, PECIPTA 2017 (INTERNATIONAL - SILVER), 07-10-2017
- Rotenone-OCMC : An Environmental Friendly Pesticide Formulation for Sustainable Agriculture, Persidangan Dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2015 (PECIPTA 2015) (INTERNATIONAL - BRONZE), 04-12-2015
- A New Copper (Ii) Sensor By Chemical Modified Electrode, 26 th International Invention, Innovation & Technology Exhibition 2015 (ITEX 2015) (INTERNATIONAL - SILVER), 21-05-2015
- Nanomaterials Manufactured from Recyclable Waste Materials, 26 th International Invention, Innovation & Technology Exhibition 2015 (ITEX 2015) (INTERNATIONAL - BRONZE), 21-05-2015
- CONVERSION OF WASTE MATERIALS INTO NANOSTRUCTURED CARBON, BioInnovation Awards 2014 (INTERNATIONAL - SILVER), 19-11-2014
- New And Simple Approach Of Graphene-Latex Nanocomposites Production For Supercapacitor Application, 25th International Invention, Innovation & Technology Exhibition (ITEX 2014) (INTERNATIONAL - SILVER), 05-08-2014
- G-TeC: Green Conductive Wire From Biohydrocarbon Precursor, 25th International Invention, Innovation & Technology Exhibition (ITEX 2014) (INTERNATIONAL - SILVER), 05-08-2014
- Carbon Nano - and Microsphere from Waste Engine Oil, Advanced Materials Conference 2012 (NATIONAL - LAIN-LAIN), 12-12-2013
- Simple and Low Cost Gauge Pressure Experiment Set  
- Winner Prize (Science Education Award), Malaysian TORAY Science Foundation (MTSF) (NATIONAL - EMAS DAN ANUGER), 28-11-2013
- Penganugerahan L<sub>2</sub>Oréal-UNESCO For Women in Science National Fellowship 2013, For Women in Science 2013 (NATIONAL - EMAS DAN ANUGER), 14-11-2013
- Vertically Aligned Carbon Nanotubes Synthesized From Waste Chicken Fat, Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2013 (PECIPTA 2013) (INTERNATIONAL - EMAS DAN SETARA), 07-11-2013
- A Novel Coral Like Structure of Aligned Carbon Nanotubes (A - Cnts) on Porous Silicon Template (Psit) Without Using Catalyst, Invention, Innovation & Design 2010 - Special Edition (NATIONAL - GANGSA DAN SETA), 12-10-2013
- Assessment of the Adsorption of Supra Sumifix Blue By Nanoparticle Hematite Extracted from Steel Mill Industrial Waste, International Conference on Nanoscience and Nanotechnology 2013 (INTERNATIONAL - LAIN-LAIN), 01-03-2013
- Micro-Raman and Field Electron Emission Characterization of Carbon Nanotubes Sythesized From Chicken Fat, International Conference on Nanoscience and Nanotechnology 2013 (INTERNATIONAL - LAIN-LAIN), 01-03-2013
- Production of High Quality Carbon Nanotubes from Industrial Waste Catalyst and Waste Cooking Palm Oil Precyrsor, Malaysia Technology Expo 2013 (INTERNATIONAL - GANGSA DAN SETA), 21-02-2013
- Chicken Fat as Carbon Source for the Synthesis of Vertically Aligned Carbon Nanotubes, Malaysia Technology Expo 2013, Invention and Innovation Award 2013 (INTERNATIONAL - PERAK DAN SETAR), 21-02-2013
- Low Cost Hybrid C02 - Philic Surfactant for Green Solvent Applications, Malaysia Technology Expo 2013 (INTERNATIONAL - EMAS DAN SETARA), 21-02-2013
- Chicken Fat As Carbon Source for the Synthesis of Vertically Aligned Carbon Nanotubes, MALAYSIA TECHNOLOGY EXPO 2013 (MTE 2013) & MALAYSIA INTERNATIONAL DESIGN EXPO & AWARDS 2013 (mIDEA (INTERNATIONAL - PERAK DAN SETAR), 21-02-2013

- Universal Mass Balance, MALAYSIA TECHNOLOGY EXPO 2013 (MTE 2013) (INTERNATIONAL - GANGSA DAN SETA), 21-02-2013
- Universal Mass Balance, MALAYSIA TECHNOLOGY EXPO 2013 (MTE 2013) & MALAYSIA INTERNATIONAL DESIGN EXPO & AWARDS 2013 (mIDEA (INTERNATIONAL - GANGSA DAN SETA), 21-02-2013
- Production of High Quality Carbon Nanotubes from Industrial Waste Catalyst and Waste Cooking Palm Oil Precursor, MALAYSIA TECHNOLOGY EXPO 2013 (MTE 2013) & MALAYSIA INTERNATIONAL DESIGN EXPO & AWARDS 2013 (mIDEA (INTERNATIONAL - GANGSA DAN SETA), 21-02-2013
- Low Cost Hybrid Co2-Philic Surfactant For Green Solvent Applications, MALAYSIA TECHNOLOGY EXPO 2013 (MTE 2013) & MALAYSIA INTERNATIONAL DESIGN EXPO & AWARDS 2013 (mIDEA (INTERNATIONAL - EMAS DAN SETARA), 21-02-2013
- Participation in Novel Research & Innovation (NRIC) competition organized by USM, USM (NATIONAL - CONSOLATION), 19-07-2012
- Excellent Research Award" during 76th Convocation of UiTM, UiTM (NATIONAL - GOLD), 23-05-2012
- The Best Award (cash worth RM1000) at Malaysia Technology Expo 2012 (MTE 2012), MTE 2012 (INTERNATIONAL - GOLD), 18-02-2012
- Gold Medal at MTE 2012, MTE 2012 (INTERNATIONAL - GOLD), 18-02-2012
- Gold Medal at MTE 2012, MTE 2012 (INTERNATIONAL - GOLD), 18-02-2012
- Novel Structure Carbon Nanotubes From Waste Cooking Palm Oil, MALAYSIA TECHNOLOGY EXPO 2012 (INTERNATIONAL - EMAS DAN ANUGER), 16-02-2012
- Vertically Aligned Carbon Nanitubes Syntesized From Environmental Friendly Precursor; Coconut Oil For Flat Panel Display Applica, MALAYSIA TECHNOLOGY EXPO 2012 (INTERNATIONAL - EMAS DAN SETARA), 16-02-2012
- Measurement of Liquid Density Using Low Cost Analog Kicthen Balance, Science Education Award 2011, Malaysia Toray Science Foundation (INTERNATIONAL - LAIN-LAIN), 21-12-2011
- Gold Medal at BioMalaysia 2011 Conference and Exhibition, BioMalaysia 2011 Conference and Exhibition (INTERNATIONAL - GOLD), 23-11-2011
- Outstanding Paper Award at International Conference on Advanced Electromaterials 2011 (ICAE 2011), Jeju, Korea, ICAE 2011 Jeju, Korea (INTERNATIONAL - GOLD), 10-11-2011
- Preparation of Palm Oil Based Carbon Nanotubes at Various Ferrocene Concentration, The International Conference for Nanomaterials Synthesis and Characterization 2011 (INTERNATIONAL - LAIN-LAIN), 04-07-2011
- Aligned Carbon Nanotubes from Waste Cooking Oil for Field Electron Emission Application: An Environmental-Friendly Approach, 39th Exhibition of Inventions Geneva (INTERNATIONAL - PERAK DAN SETAR), 06-04-2011
- Ultraviolet Photoconductive Sensor Fabricated Using Environmentally Friendly and Novel Zinc Oxide Nanostructures: Nanoholes Aliigned Zinc Oxide Nanorod Arrays for Realization of Efficient and Green EI, 39th Exhibition of Invention Geneva (INTERNATIONAL - PERAK DAN SETAR), 06-04-2011
- Pembentang Terbaik Kolokium Kebangsaan Pasca Siswazah Sains dan Matematik 2010, UPSI (NATIONAL - CONSOLATION), 22-12-2010
- Aligned Carbon Nanotubes From Waste Cooking Palm Oil for Field Electron Emission Application: An Environmental-friendly Approach, Invention, Innovation & Design 2010 - Special Edition (NATIONAL - EMAS



DAN SETARA), 12-10-2010

- Silver Medal and Best Poster Award at 3th International Conference on Functional Material and Devices (ICFMD 2010) organized by University of Malaya, Terengganu, Malaysia , Centre for Ionics, University of Malaya-Reader Digest (INTERNATIONAL - SILVER), 14-06-2010
- The 21st International Invention, Innovation Technology Exhibition (ITEX2010) organized by Minds, KLCC, Kuala Lumpur, Malaysian Invention and Design Society (INTERNATIONAL - SILVER), 14-05-2010
- A Novel Photo-Response Characteristic of Nanocomposite CNT/MEH-PPV Using Palm Oil Derived CNT for Organic Solar Cell: Bronze Medal at the 9th Malaysia Technology Expo (MTE), Malaysian Association of Research Scientist (INTERNATIONAL - BRONZE), 04-02-2010
- A Novel Photo-Response Characteristic of Nanocomposite CNT/MEH-PPV Using Palm Oil Derived CNT for Organic Solar Cell: Silver Medal at the 7th Invention, Innovation and Design (IID) competition, UiTM (UNIVERSITY - SILVER), 12-01-2010
- Nitrogen as a Dopant for Amorphous Carbon Thin Films: Bronze Medal at the 7th Invention, Innovation and Design (IID) competition , UiTM (UNIVERSITY - BRONZE), 12-01-2010
- Palm Oil as Starting Materials for Vertically Aligned Carbon Nanotubes (VACNTs) Production: Gold Medal at the 7th Invention, Innovation and Design (IID) competition, UiTM (UNIVERSITY - GOLD), 12-01-2010
- Diamond Award: Invention (Category: Student) (cash worth RM3000 & certificate), UiTM- Bank Islam (UNIVERSITY - GOLD), 12-01-2010
- Diamond Award: Special Award for Women Inventor (cash worth RM3000 & certificate) , UiTM-Bank Islam (UNIVERSITY - GOLD), 12-01-2010
- Producing Vertically Aligned Carbon Nanotubes from Natural Oil: Gold Medal at the 7th Invention, Innovation and Design (IID) competition, UiTM (UNIVERSITY - GOLD), 12-01-2010
- Palm Oil as Starting Materials for Application of FED TV: Silver Medal and Best Booth Award at the Invention, Innovation and Design (IID) competition, Faculty of Applied Sciences, UiTM, S. Alam (FACULTY - SILVER), 13-10-2009
- Best Poster Award at the Nanotechnology International Conference 2008, organized by UiTM-Nogaya Institute of Technology, Japan, S. Alam, UiTM-Nagoya Institute of Technology, Japan (INTERNATIONAL - GOLD), 18-11-2008