

**CURRICULUM VITAE
DR. ROSNITA MUHAMMAD
UNIVERSITI TEKNOLOGI MALAYSIA**



PERSONAL DETAILS

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- Email Address: rosnita@utm.my / atinsor@gmail.com
- Home Address: No 29, Jalan Pulai Perdana 3,
Taman Sri Pulai Perdana, 81110 Kangkar Pulai, Johor, Malaysia
- Office Address: Department of Physics, Faculty of Science,
Universiti Teknologi Malaysia, 81310, Skudai, Johor,
- Date of Birth: 10th July 1972

- Google Scholar:
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- Scival Experts:
<https://pure.utm.my/en/persons/rosnita-muhammad/publications/>
- ResearchGate:
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- Scopus:
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- Faculty of Science (UTM):
<http://science.utm.my/physics/staff/academic2/>

ACADEMIC QUALIFICATION

- PhD (Physic, Nanomaterial, Nanofabrication), 2011, UTM Skudai, Johor.
- MSc (Physic, Material Science), 1997, UTM Skudai, Johor
- BSc (Industrial Science), 1995, UTM Skudai, Johor
- Sijil Pelajaran Malaysia, 1989, SMPC, Kota Bharu, Kelantan
- Sijil Rendah Pelajaran, 1987, SMPC, Kota Bharu, Kelantan

FIELD OF SPECIALIZATION

- Nanomaterials, Nanostructure (Nanodots, Nanowires), Nanofabrication (MOCVD, PECVD, Sol-Gel, Sputtering etc), Thin Film.
- Compound Semiconductor Materials Science (III-V semiconductors), Epitaxial Growth and Characterisation.
- Solar Cells and Solid Oxide Fuel Cells based on Nanostructure III-V Compound.

RESEARCH GRANTS

Investigator

- Sol-Gel Dip Coating Assisted Method for Growth Parameters Optimization of Yttria-Stabilized Zirconia Thin Film, GUP, RM 40,000.00, 1 Jul 2017 – 30 June 2019.
- Highly Sensitive III-V Nanomaterials for Solid Oxide Fuel Cells Applications, GUP, RM 50,000.00, Dis 2015 – Feb 2017.
- Current-Voltage Characterization of As-Grown Gallium Arsenide Nanowires using Conductivity Atomic Force Microscopy, FRGS, RM 106,000.00, Jun 2014 – Sept 2016.
- Highly Conductive Solar Cell Based on Defect Free Gallium Arsenide Nanowires, GUP Tier 1, UTM, RM 20,000, Jun 2014 – Sept 2015.
- Fabrication of Core-Shell GaAs/AlGaAs Nanowire Arrays for Solar Cells, GUP Tier 2, UTM, RM 40,000.00, Apr 2013 – Mar 2014
- Synthesized and electrical characterize of high quality GaAs nanowire grown using metal organic chemical vapor deposition, GUP Innovative Encouragement – for non-academic staf, UTM, RM 20,000.00, Sept 2011 – Feb 2013

Co-Investigator

- Synthesis and Characterization of high purity 100Ru thin film for double beta decay detection (Project Leader : Dr. Izyan Hazwani, UTM), FRGS, RM 65,200.00, Aug 2017 – July 2019.
- Growth of Zinc Oxide Nanowires on RF-sputtered Zinc Oxide Thin Films for Nanogenerators using microwave-assisted chemical bath deposition (Project Leader : Dr. Suriati Paiman, UPM), FRGS, RM 79,000.00, Aug 2017 – July 2019.
- Solid Oxide Fuel Cells based on Semiconductor Nanostructures for Power Industry (Project Leader : Prof. Dr. Yussof Wahab/Prof. Dr. Hadi Nur), LRGS, MOE, RM 1,500,000.00, Feb 2015 – Jan 2020.

- Kolokium Kebangsaan Pendidik Sains, Teknologi, Kejuruteraan dan Matematik (KKPSTEM) 2016 Peringkat Negeri Johor, Networking Grant, CCIN, RM 13,200.00, Jul 2016 – Nov 2016.
- Integrated Mathematical Modeling On GIS Processed Data of Diseases Infected Animal (Project Leader :Nur Aminah Bt Mahmud), GUP Tier 2, UTM, RM28,040, Jun 2014 – May 2015.
- Elliptic-Parabolic Equation on Fruit Waste Drying Process into Powder and Natural Dye Using Instant Control Pressure Drop Technique (Project Leader : Dr. Che Rahim Bin CheTeh), GUP Tier 2, UTM, RM 28,040, Jun 2014 – May 2015.
- Modeling and Numerical Simulation of Thermal Control Curing Process for Thermoset Composite Material Using PDES (Project Leader :Dr. Hamisan Bin Rahmat), GUP Tier 1, UTM, RM 20,000, Jun 2014 – May 2015.
- Growth Of Defect-Free Indium Phosphide Nanowires Via Vapor-Liquid-SolidMechanism For Photovoltaics (Project Leader : Dr. Suriati Paiman, UPM), FRGS, RM 86,000.00, Dec 2013 – Nov 2015.
- Fabrication of III-V Semiconductor NWs on Silicon Substrate for Electronic Application(Prof. Dr. YussofWahab), GUP Tier 1, UTM, RM 102,000.00, Dec 2012 – Mac 2015
- Czochralski Growth of Monocrystalline crystal from a non-crystalline seed (Wan Hairul Anuar), GUP Tier 2, UTM, RM 44,000.00, Apr 2013 – June 2014.
- Improvement of Visualisation and Thermal Hot Zone by Modifying the insulator design of Czochralski Crystal Growth System (Dr. Zuhairi Ibrahim), GUP Innovative Encouragement, RM 20,000.00, Sept 2011 – Feb 2013
- Characterization study of Silicon Nanowires using the Homemade 150 MHz very high frequency-plasma enhanced chemical vapor deposition(Prof. Dr. YussofWahab), FRGS, RM 46,000.00, Oct 2009 – Aug 2011
- Growth of Silicon Nanowires using the Homemade 150 MHz very high frequency-plasma enhanced chemical vapor deposition (Prof. Dr. YussofWahab), IRGS,VOT 78916, RM 10,000.00, Feb 2009 – Jan 2010
- Epitaxial growth and Characterization of GaAs nanowires using Gold Colloids by MOCVD method (Prof. Dr. ZulkafliOthaman), FRGS, VOT 78339, RM 113,000.00, Nov 2008 – Oct 2010
- Modelling and Simulation of nanostructures for single transistors (Assoc. Prof. Dr. Ahmad Radzi Mat Isa), FRGS, VOT 78237, RM76,000.00, Sept 2007 – Aug 2009
- Growth of InGaAs quantum dots (Prof. Dr. Zulkafli Othaman), ScFund MOSTI, VOT 79157, RM161,000.00, August 2007 – July 2009
- Craniofacial Mapper System (Assoc Prof. Dr. Zulkepli Majid), VOT 79256, RM192,000.00, Dec 2007 – Nov 2009
- The Synthesis and Growth of Silicon Quantum Dots Using VHF-PECVD for Single-Electron Transistors (Prof. Dr. Samsudi Sakrani), IRPA VOT 74542, RM2,567,240.00, August 2004 – July 2007
- The Structural and Optical Characteristic Studies of Quantum Nanostructures for Single-Electron Transistors Materials (Prof. Dr. Yussof Wahab), IRPA VOT 74543, RM1,386,640.00, August 2004 – July 2007
- Studies of Giant Magnetoresistance for Magnetic Sensors (Prof. Dr. Yussof Wahab), Short Term Grant, UTM, VOT 75120, RM48,000, Jun 2004 – July 2005
- Studies On Carbon/Silicon Based Semiconductor Fabricated Using Dc-PECVD (Prof. Dr. Zulkafli Othaman), IRPA VOT 75082, RM30,000, Feb 2004 – Jan 2005

HONORS AND AWARDS

- Industrial Art & Technology Exhibition 2017 (INATEX 2017), Certificate of Participation, Highly Conductive Yttrium Stabilized Zirconia Thin Film Electrolyte, 21-23 Nov 2017, UTM Skudai
- ITEX 2016, Bronze Medal, Highly Sensitive Green Nanowires, 11 – 14 May 2016, KLCC.
- Industrial Art & Technology Exhibition 2015 (INATEX 2015), Bronze medal, Highly Sensitive Green Nanowires, 2-5 Nov 2015, UTM Skudai
- Excellent Service Award (APC) 2013, Citra Karisma UTM, 26 Jun 2014
- Malaysia Technology Expo 2014 (MTE 2014), Bronze Medal, Defect Free GaAs Nanowires, 20-22 Feb 2014, PWTC KL.
- Industrial Art & Technology Exhibition 2013 (INATEX 2013), Bronze medal, Defect Free GaAs Nanowires, 2-4 Oct 2013, UTM Skudai.
- Appointed as a Senior Lecturer (DS51), starting on 30 May 2013
- PhD awarded (47th UTM Convocation), 24 Sept 2011
- Promotion to Senior Research Officer (Q44), 21 July, 2011
- Sustainability Staff Honor Award (SRA) for 2009 and 2010
- UTM Scholarship Awards for master studies, Anugerah Biasiswazah Pembangunan Teknologi dan Perindustrian (UTM-PTP), November 1995 – Julai 1997.

WORKING EXPERIENCE

- **Senior Lecturer** (May 2013 – now)
Physic Department, Faculty of Science, UTM (Jul 2015 – now)
Resource Sustainability Research Alliance, UTM (Feb – June 2015)
Sustainability Research Alliance, UTM (May 2013 – Jan 2015)
- **Senior Research Officer** (Jul 2011 – Apr 2013)
Sustainability Research Alliance, UTM
- **Research Officer** (February 2003 – June 2011)
IbnuSina Institute, UTM (Feb 2003 – Apr 2009)
Sustainability Research Alliance, UTM (May 2009 – June 2011)
- **Lecturer** (Disember 1997 – February 2003)
Kolej Islam Johor, 80300 Johor Bharu, Johor.
- **Research Assistant** (November 1997 – Disember 1997)
Project Title : New Molecular Inorganic Fluorescent Sensor
Project Leader : Prof. Dr. Mustaffa Shamsuddin
Faculty of Science, UTM, Johor.
- **Research Assistant** (August 1997 – October 1997)
Project Title : Thin Film Solar Cells for Electrical Power Generation
Project Leader : Prof. Dr. Samsudi Sakrani
Faculty of Science, UTM, Johor.
- **Research Assistant** (July 1995 – Disember 1995)
Project Title : Kapasitor Saput Tipis
Project Leader : Prof. Madya Dr. Karim Deraman
Faculty of Science, UTM, Johor.

PUBLICATIONS

JOURNAL

- N. A. Rusli, **R. Muhammad**, S. K. Goshal, H. Nur, N. Nayan & S. N. Jaafar (2019). Bias Voltage dependent structure and morphology evolution of magnetron sputtered YSZ thin film: A basic insight. *Materials Research Express*. DOI-10.1088/2053-1591/ab3907.
- M. S. A. Mohd Saidi, S. K. Goshal, R. Arifin, M. K. Roslan, **R. Muhammad**, W. N. W. Shamsuri, M. Abdullah & M. S. Shaharin (2018). Spectroscopic properties of Dy³⁺ doped tellurite glass with Ag/TiO₂ nanoparticles inclusion: Judd-Ofelt analysis. *Journal of Alloys and Compounds*. Vol 754, pg 171-183.
- M. A. Khan, Y. Wahab, **R. Muhammad**, M. Tahir & S. Sakrani (2018). Catalyst-free fabrication of novel ZnO/CuO core-Shell nanowires heterojunction: Controlled growth, structural and optoelectronic properties. *Applied Surface Science*. Vol 435, pg 718-732.
- N. A. Rusli, Z. Ibrahim, **R. Muhammad**, Y. Wahab & S. Sakrani (2018). Review: Development of Platinum Electrode for Low Temperature Solid Oxide Fuel Cells. *eProceedings Chemistry*, eISSN 2550-1453, Vol 3, pg 5-8.
- S. Y. Jaafar, Y. Wahab, **R. Muhammad**, Z. Othaman, S. Sakrani & Z. Ibrahim (2018). The effect of RF-sputtering temperature of Yttria-Stabilized Zirconia nanostructure electrolyte for SOFC application. *Malaysian Journal of Catalysis*. Vol 3, pg 8-12.
- S. Deraman, **R. Muhammad** & W. N. W. Shamsuri (2017). AFM and XRD Analysis of Lanthanum Strontium Cobalt Thin Film Fabricated Using Sol-Gel Dip Coating Method. *Journal of Science and Technology*. Vol 9 (3), p 60-64.
- N. Hidayah, **R. Muhammad** & W. N. W. Shamsuri (2017). Morphological and Electrical Characterization of Nickel Oxide-Yttria Stabilize Zirconia Thin Film Prepared Using Sol-Gel Dip Coating Method. *Journal of Science and Technology*. Vol 9 (3), p 41-44.
- **R. Muhammad**, Y. Wahab, Z. Ibrahim, K. Deraman, Z. Othaman & S. Sakrani (2017). Gallium Arsenide nanowires for electrode application in SOFC grown using MOCVD. *International Journal of Hydrogen Energy*, Vol 42 (14), IF: 3.205.
- S. Y. Jaafar, Y. Wahab, **R. Muhammad**, Z. Othaman, Z. Ibrahim, N. Nayan & R.K. Tan (2017). Conductivity of Yttria-Stabilized Zirconia Nanostructure Electrolyte for Solid Oxide Fuel Cell Application by Using Magnetron Sputtering. *Trans Tech Publications*, Vol 268, pg 352-357.
- N.F.M. Rahimi, Y. Wahab & **R. Muhammad** (2017). Morphological of Yttrium Stabilized Zirconia (YSZ) Thin Film of Electrolyte in Solid Oxide Fuel Cell Application. *Trans Tech Publications*, Vol 268, pg 343-346.
- N. Akhiruddin, **R. Muhammad**, Y. Wahab & Z. Ibrahim (2017). Growth of ZnO Nanowires by Vapour Solid Mechanism. *Trans Tech Publications*, Vol 268, pg 249-253.
- N. A.A. Rahman, **R. Muhammad**, Z. Ibrahim & Y. Wahab (2017). Growth of Copper Nanowires by using Thermal Oxidation for Solid Oxide Fuel Cell. *Trans Tech Publications*, Vol 268, pg 234-238.

- A.R. Nurhamizah, I. Zuhairi, **R. Muhammad**, Y. Wahab & S. Sakrani (2017). Effect of Annealing Temperature on Platinum/YSZ Thin Film Fabricated Using RF and DC Magnetron Sputtering. *Solid State Phenomena*, Vol 268, pg 229-233.
- S. Sakrani, N. Jamaludin, **R. Muhammad**, Y. Wahab, A. K. Ismail, S. Suhaimi & Y.H.Mohammed. (2016). Effect of gas flow rate on structural properties of zinc oxide nanowires grown by vapor-solid mechanism. *AIP Conference Proceedings*, Vol 1733(020040), doi: 10.1063/1.4948858 (Scopus).
- **R. Muhammad**, Z. Othaman, Y. Wahab, Z. Ibrahim & S. Sakrani (2016). Influence of Substrate Orientation on the Structural Properties of GaAs Nanowires in MOCVD. *AIP Conference Proceeding*, Vol 1725, doi: 10.1063/1.4945503 (Scopus)
- **R. Muhammad**, Y. Wahab, Z. Othaman & S. Sakrani (2015). Current-Voltage Characterization of Gallium Arsenide Nanowires Using a Conductive Atomic Force Microscopy. *Advanced Material Research*, Vol 1109, p 239-242, doi: 10.4028/www.scientific.net/AMR.1109.238 (Scopus).
- M A Khan, S Sakrani, Y Wahab, S Suhaimi & **R. Muhammad** (2015), The Synthesis of Cuprous Oxide Nanowire in the presence of Oxygen using a Hot Tube thermal evaporation method. *Malaysia Journal of Fundamental and Applied Science*, Vol 11(4), p 174-178.
- M A Khan, S Sakrani, Y Wahab, S Suhaimi & **R. Muhammad** (2014), Synthesis of Cu₂O and ZnO and their Heterojunction Nanowires by Thermal Evaporation: A Short Review. *Jurnal Teknologi*, Vol 71(5) (Scopus), p 83-88.
- **R. Muhammad**, R. Ahamad, Z. Ibrahim & Z. Othaman (2014). Structure and Electrical Characterization of Gallium Arsenide Nanowires with different V/III ratio growth parameters. *AIP Conference Proceedings*, Vol 1588, p 257-260, doi: 10.1063/1.4866956 (Scopus).
- **R. Muhammad**, Y. Wahab, Z. Ibrahim, Z. Othaman, S. Sakrani & R. Ahamad (2014). The Effect of V/III Ratio on the Crystal Structure of Gallium Arsenide Nanowires. *Advanced Materials Research*, Vol 895, p 539-546. (Scopus).
- **Rosnita M.**, Zulkafli O., Samsudi S., Yussof W. and Zuhairi I. (2013). The Electrical Conductivity of GaAs nanowires by Conductive Atomic Force Microscopy. *Journal of Crystal Growth*. (Web of Science). Impact Factor : 1.730 (submitted)
- **Rosnita M.**, Zulkafli O., Zuhairi I., Samsudi S., Yussof W. (2012). The Initial Stages of GaAs/Au Eutectic Alloy Formation for the Growth of GaAs Nanowires. *SainsMalaysiana*, Vol 41, Issue 9, p 1137-1143, (Web of Science). Impact Factor = 0.408.
- Edy Wibowo, Zulkafli Othaman, Samsudi Sakrani, A S Ameruddin, D Aryanto, **R Muhammad**, Imam Sumpono. (2011). Morphology and Chemical Composition of In_xGa_{1-x}As NWs Au-assisted Grown at Low Growth Temperature Using MOCVD. *Journal of Applied Sciences*. (Scopus). Vol 11 (7), p 1315-1320.
- **Rosnita M.**, Zulkafli O., Samsudi S. and Yussof W. (2010). The effect of annealing process on the colloidal gold and GaAs nanowires. *AIP Proceeding*. Vol 1250. p 377-380. (Web of Science).
- Edy Wibowo, Zulkafli O, Samsudi S, Amira S. Ameruddin, Didik A, **Rosnita M**, Imam Sumpono and Habib Hamidinezhad. (2010). Morphological evolution of ternary In_xGa_{1-x}As nanowires (NWs) grown with Au-particle assisted using vertical chamber MOCVD. *Malaysian Journal of Fundamental and Applied Science*. Vol 6 (2). p132-136.
- **Rosnita M.**, Zulkafli O., Yussof W. and Samsudi S. (2009). Gallium arsenide nanowires formed by Au-assisted MOCVD: Effect of growth temperature. *Modern Applied Science*. Vol 3(7) p 73-77.

- **Rosnita M.**, Zulkafli O., Yussof W. and Samsudi S. (2009). Morphological and Electrical characterisation of GaAs nanowires. *AIP Proceeding*. Vol 1150. p 344-347. (Web of Science).
- **Rosnita M.**, Zulkafli O., Samsudi S., Yussof W., Ahmad Radzi M. I., Imam S. and EdyWibowo. (2009). Growth rate of Gallium Arsenide Nanowires. *Proceeding of International Conference Regional Annual Fundamental Science Seminar*. Vol II. p 75-79.
- **Rosnita M.**, Zulkafli O., Yussof W. and Samsudi S. (2009). Epitaxial Method of Quantum Devices Growth. *Jurnal Fizik*. Vol 4. p 1-9.
- **Rosnita M.**, Zulkafli O., Yussof W. and Samsudi S. (2008). InAs/GaAs quantum dots grown by metal-organic chemical vapor deposition at different temperature. *Modern Applied Science*. Vol2 (3). p 70-74.
- R. Muhammad, Z. Othaman, Y. Wahab, L. K. Boo & S. Roslan (2008). Effect of Growth Temperature on InAs/GaAs Quantum Dots Grown by MOCVD. *Solid State Science & Technology Letters*. Vol 15 (2). P 150-155.
- **Rosnita M.**, Zulkafli O., Samsudi S. and Yussof W. (2008). Vapour-liquid-solid mechanism using gold colloid for the growth of GaAs nanowires. *Malaysian Journal of Fundamental and Applied Science*, Vol 4(2), p 363-367.
- **Rosnita M.**, Zulkafli O., Yussof W. and Samsudi S. (2008). Epitaxial GaAs nanowires grown on GaAs substrate using VLS mechanism. *Jurnal Fizik*. Vol 3, p 52
- Zulkafli Othaman, Kheng Boo Lim, Samsudi Sakrani, **Rosnita Muhammad** (2008). The Stranski-Krastanov three dimensional island growth prediction on finite size model. *Jurnal Fizik*. Vol 3, p 1-5.
- Shahrizar Roslan, Zulkafli Othaman, **Rosnita Muhammad**, Lim Kheng Boo. Growth Parameters of InAs/GaAs quantum dots grown by MOVPE (2006). *Jurnal Fizik*. Vol 1. p 1-6.
- Lau Chen Chen, B. Ismail, M. N. Yusuf and **R. Muhammad**. Electronic Conduction Processes in Amorphous Silicon-Carbon Alloy (a-Si:C:H) Thin Films Prepared by RF Magnetron Sputtering (2005). *Solid State Science and Technology*. Vol 13, No 1 & 2. P 11-16.

THESIS

- **Rosnita Muhammad** (2011). *Structure and Electrical Properties of Gallium Arsenide Nanowires Grown By Metal Organic Chemical Vapor Deposition*. Universiti Teknologi Malaysia
- **Rosnita Muhammad** (1997). *The Characterization of Structural, Optical and Electrical Properties of Tin (IV) Oxide and Effect of Gas Exposure*. Universiti Teknologi Malaysia.
- **Rosnita Muhammad** (1995). *The Studies of Indium Metal and Semiconductor Silicon Contact*. Universiti Teknologi Malaysia.

BOOK CHAPTER

- **Rosnita Muhammad**, Yussof Wahab, Zulkafli Othaman & Samsudi Sakrani (2014). The Growth of Gallium Arsenide Nanowires. *Sustainability in Advanced Materials*. PENERBIT UTM. P 13-22.
- Didik Aryanto, Zulkafli Othaman, Abd Khamim, Shahrizar, **Rosnita Muhammad**, Imam Sumpono & Amira Saryati (2008). Surface Morphology and Lateral Distribution of Self-assembled In_{0.5}Ga_{0.5}As Nanostructures grown on GaAs(100) Substrates. *Advances in Fundamentals and Social Sciences*. PENERBIT UTM. p 11-24

CONFERENCES

- Nurhamizah Ahmad Rusli, **R. Muhammad**, S. K. Goshal, H. Nur & S. N. Yasmin. Deposition Time Dependent Growth Evolution of Magnetron Sputtered YSZ Thin Film: A Good Candidate for SOFC, NanoMITe Annual Symposium (NANOSYM 2019), Putrajaya Marriot Hotel, 21-22 Aug 2019.
- Nurhamizah Ahmad Rusli, **R. Muhammad**, S. K. Goshal, H. Nur & N. Nayan. Annealing temperature induced improved crystallinity of YSZ thin film, The 7th International Conference and Workshop on Basic and Applied Science (ICOWOBAS 2019), KSL Resorts Johor Bahru, 14-18 July 2019.
- Nurhamizah Ahmad Rusli, **R. Muhammad**, S. K. Goshal, H. Nur & S. N. Yasmin, Radio frequency Magnetron sputtered YSZ thin film: Impact of oxygen ratio, NanoMITe Annual Symposium (NMAAS 2017), UPM Serdang, 14-15 Nov 2017.
- Nor Hidayah, **R. Muhammad** & W. N. W. Syamsuri, Morphological and Electrical Characterization of Nickel Oxide-Yttria Stabilized Zirconia Thin Film Prepared Using Sol Gel Dip Coating Method, 3rd International Conf on the Application of Science & Mathematics (SCIEMATHIC 2017), UTHM Pagoh, 24-25 Oct 2017.
- Shahirah Deraman, **R. Muhammad** & W. N. W. Syamsuri, AFM & XRD Analysis of Lanthanum Strontium Cobalt Thin Film Fabricated Using Sol Gel Dip Coating Method, 3rd International Conf on the Application of Science & Mathematics (SCIEMATHIC 2017), UTHM Pagoh, 24-25 Oct 2017.
- **R. Muhammad**, Y. Wahab, Z. Ibrahim & Z. Othaman, Optimal Growth Parameters by MOCVD for defect free GaAs Nanowire Structure, Regional Conf on Solid State Science & Technology, KSL Resort Johor, 15-17 Nov 2016.
- M. A. Khan, Y. Wahab, S. Sakrani & **R. Muhammad**, Novel Synthetic Methodology of Catalyst-Free ZnO/CuO Core-Shell Heterojunction Nanowire Arrays for Advanced Optoelectronic Devices, Regional Conf on Solid State Science & Technology, KSL Resort Johor, 15-17 Nov 2016.
- S. Y. Jaafar, Y. Wahab, **R. Muhammad**, Z. Othaman, Z. Ibrahim & N. Nayan, Effect on RF Magnetron Substrate Temperature of YSZ as electrolyte of SOFC Nanostructure by using RF Magnetron Sputtering, Regional Conf on Solid State Science & Technology, KSL Resort Johor, 15-17 Nov 2016.
- N.A.A. Rahman, **R. Muhammad**, Z. Ibrahim & Y. Wahab, The Growth of CuO Nanowires by Thermal Oxidation for SOFC application, Regional Conf on Solid State Science & Technology, KSL Resort Johor, 15-17 Nov 2016.
- N. Akhiruddin, **R. Muhammad**, Y. Wahab & Z. Ibrahim, Growth of ZnO Nanowires by Vapor Solid Mechanism, Regional Conf on Solid State Science & Technology, KSL Resort Johor, 15-17 Nov 2016.

- N. F. M. Rahimi, Y. Wahab & **R. Muhammad**, Morphological of Yttrium Stabilized Zirconia (YSZ) thin film as electrolyte in SOFC application, Regional Conf on Solid State Science & Technology, KSL Resort Johor, 15-17 Nov 2016.
- Nurhamizah A. R, Zuhairi. I, **R. Muhammad**, Y. Wahab & S. Sakrani, Post-Annealing Study of Platinum/YSZ/Platinum Characteristic for Low Temperature SOFC, Regional Conf on Solid State Science & Technology, KSL Resort Johor, 15-17 Nov 2016.
- N. Fathirah, Y. Wahab, **R. Muhammad** & T. Sathiabama, Overview Research on Performance of SOFC, Nanomite Annual Symposium 2016, UTM Kuala Lumpur, 28 Sept 2016.
- N. A. Rusli, Z. Ibrahim, **R. Muhammad**, Y. Wahab & S. Sakrani, Development of Platinum Electrode for Low Temperature SOFC, Nanomite Annual Symposium 2016, UTM Kuala Lumpur, 28 Sept 2016.
- N. Akhiruddin, **R. Muhammad**, Y. Wahab & Z. Ibrahim, A review on ZnO Nanowires for SOFC application, Nanomite Annual Symposium 2016, UTM Kuala Lumpur, 28 Sept 2016.
- N. A. A. Rahman, **R. Muhammad**, Z. Ibrahim & Y. Wahab, The growth of CuO nanowires using thermal evaporation for SOFC applications, Nanomite Annual Symposium 2016, UTM Kuala Lumpur, 28 Sept 2016.
- S. Y Jaffar, Y. Wahab, **R. Muhammad**, Z. Othaman, S. Sakrani & Z. Ibrahim, The effect of RF-sputtering temperature of YSZ nanostructure electrolyte for SOFC application. Nanomite Annual Symposium 2016, UTM Kuala Lumpur, 28 Sept 2016.
- S. Y. Jaafar, Y. Wahab, **R. Muhammad**, Z. Othaman, S. Sakrani & Z. Ibrahim, The Influence of The Influence of RF Sputtering Power of Yttria-Stabilized Zirconia Nanostructure Electrolyte for SOFC Application, RAFSS 2016, UTM Kuala Lumpur, 19-20 May 2016.
- **R. Muhammad**, Z. Othaman, Y. Wahab and S. Sakrani, Influence of Substrate Orientation on the Structural Properties of GaAs Nanowires in MOCVD, *ICAMST 2015*, Gracia Hotel, Semarang, Indonesia, 6-7 Oct 2015.
- **R. Muhammad**, Y. Wahab, Z. Othaman and S. Sakrani, III-V Semiconductor Nanowire for Solid Oxide Fuel Cells, *ICFCHT 2015*, Pullman Hotel and Resorts Kuala Lumpur, 1-3 Sept 2015.
- M A Khan, S Sakrani, Y Wahab, S Suhaimi and **R Muhammad**, The Synthesis of Cuprous Oxide Nanowires in the presence of Oxygen using a Hot Tube Thermal Evaporation Method, *RAFSS 2014*, Persada Johor International Centre, Johor, 8-10 Sept 2014.
- **R Muhammad**, Y Wahab, Z Othaman and R Ahamad, The Effect of Annealing Temperature on Gold Catalyst and Substrate Surface in the Growth of GaAs Nanowires, *SEATUC 2014*, MSuite JB, 3-5 March 2014.
- **R Muhammad**, Y Wahab, Z Othaman, S Sakrani and Z Ibrahim, Current-Voltage Characterization of Gallium Arsenide Nanowires Using Conductive Atomic Force Microscopy, *NANO-SciTech 2014 & IC-NET 2014*, UiTM, 28-3 March 2014.
- **R Muhammad**, Y Wahab, Z Othaman and Z Ibrahim, The Effect of Pre-Annealing Process to the Growth of GaAs Nanowires, *ICAMN 2013*, Park Royal Hotel, Penang, 19-22 November 2013.
- **R Muhammad**, R Ahamad, Z Ibrahim and Z Othaman, Structure and Electrical Characterization of Gallium Arsenide Nanowires with different V/III ratio growth parameters, *IMFP 2013*, AwanaGenting, KL, 27 – 30 Aug 2013.

- **R Muhammad**, W Yussof, Z Othaman, and S Sakrani, The Effect of V/III ratio on the crystal Structure of GaAs nanowire, *ICSSST 2012*, Holiday Inn, Melaka, 18 – 21 Dec 2012.
- **R Muhammad**, W Yussof, Z Othaman, and S Sakrani, The Effect of Substrate Orientation to the Structure of Gallium Arsenide Nanowire, *RAFSS 2011*, Thistle Hotel, JB, 20 -21 Dec 2011.
- **R Muhammad**, Z Othaman, R Ahamad and S Sakrani, The Growth of Gallium Arsenide Nanowires on Silicon Substrate using Metal Organic Chemical Vapor Deposition, *RCSST 2011*, Seremban, November 2011.
- **R Muhammad**, Z Othaman, S Sakrani, Y Wahab, The effect of annealing process on the colloidal gold & GaAs nanowires, *Persidangan Fizik Kebangsaan (PERFIK)*, Avillion Legacy, 7 – 9 Dec 2009
- **R Muhammad**, Z Othaman, S Sakrani, Y Wahab, Growth of Gallium Arsenide Nanowires on Silicon (100) substrate using a metal organic chemical vapor deposition, *25th RCSST 2009*, Bayview Beach Resort, Pulau Pinang, Nov 2009
- Z Othaman, **R Muhammad** & S Roslan, Uniform Indium Arsenide Quantum Dot Formation, *25th RCSST 2009*, Bayview Beach Resort, Pulau Pinang, Nov 2009
- **R Muhammad**, Z Othaman, S Sakrani, Y Wahab, Growth rate of GaAs nanowires, *International Conference Regional Annual Fundamental Science Seminar (ICORAFSS)*, 3 – 4 Jun 2009
- Didik Aryanto, Zulkafli Othaman, Abd Khamim Ismail, **Rosnita Muhammad**, Amira Saryati, Surface morphology studies of single and double layer In_{0.5}Ga_{0.5}As/GaAs quantum dots grown by stranski-krastanov growth modes, *International Conference Regional Annual Fundamental Science Seminar (ICORAFSS)*, 3 – 4 Jun 2009
- H Hamidinezhad, Y Wahab, Z Othaman, **R Muhammad**, The role of catalyst metals to the growth of Si Nanowire, *International Conference Regional Annual Fundamental Science Seminar (ICORAFSS)*, 3 – 4 Jun 2009
- Y Wahab, H Hamidinezhad, Z Othaman, **R Muhammad**, Edy Wibowo, Analysis of Silicon nanowires synthesized from SiO₂ on silicon wafer substrate, *International Conference Regional Annual Fundamental Science Seminar (ICORAFSS)*, 3 – 4 Jun 2009
- Didik Aryanto, Zulkafli Othaman, Abd. Khamim Ismail, Shahrizar Roslan, **Rosnita Muhammad**, Imam Sumpono, and Amira Saryati Ameruddin, Surface Morphology and Lateral Distribution of Self-Assembled In_{0.5}Ga_{0.5}As Nanostructures Grown on GaAs (100) Substrates. *International Graduate Conference on Engineering and Science (IGCES) 2008*, 23-24 Dec. 2008, UTM.
- **Rosnita M.**, Zulkafli O., Samsudi S., Yussof W., Ahmad Radzi M. I., Imam S., EdyWibowo and DidikAryanto. Gallium Arsenide nanowires formed by Au assisted MOCVD :Effect of growth temperature. *24th Regional Conference on Solid State Science and Technology*, 30 Nov – 2 Dec 2008, Port Dickson, Negeri Sembilan.
- Didik Aryanto, Zulkafli Othaman, Abd Khamim Ismail, Shahrizar Roslan, **Rosnita Muhammad**, Imam Sumpono, and Amira SaryatiAmerudin, Evolution of Surface Morphology of Self-Assembled In_xGa_{1-x}As Nanostructures Grown on GaAs Substrate Using MOCVD. *24th Regional Conference on Solid State Science and Technology (RCSST)*, 30 Nov – 2 Dec 2008, Port Dickson, Negeri Sembilan.
- **Rosnita M.**, Zulkafli O., Samsudi S., Yussof W., Ahmad Radzi M. I., EdyWibowo and DidikAryanto. Epitaxial GaAs nanowires on GaAs grown by MOCVD. *2nd International Conference on Functional Materials and Devices (ICFMD 2008)*. 16-19 June 2008. Berjaya Time Square, Kuala Lumpur.

- Amira Saryati, Zulkafli Othaman, **R Muhammad**, Shahrizar, Didik, L K Boo, Formation of Germanium Quantum Dots on Silicon substrate, *Regional Annual Fundamental Science Seminar (RAFSS)*, 27 – 29 May 2008.
- Didik Aryanto, Abd Khamim, Z Othaman, Shahrizar, **R Muhammad**, L K Boo, Effect of buffer layer thickness on the surface morphology of InGaAs epitaxy layer grown by MOCVD, *Regional Annual Fundamental Science Seminar (RAFSS)*, 27 – 29 May 2008.
- K Nazimah, Y Wahab, S Sakrani, **R Muhammad**, Annealing effects on magnetic properties of thin film ferromagnetic multilayer structures, *Regional Annual Fundamental Science Seminar (RAFSS)*, 27 – 29 May 2008.
- R Shahrizar, Z Othaman, **R Muhammad**, L K Boo, Amira, Didik, The role of atomic steps on the growth of InGaAs/GaAs quantum dots grown by MOVPE, *Regional Annual Fundamental Science Seminar (RAFSS)*, 27 – 29 May 2008.
- **R Muhammad**, Z Othaman, S Sakrani, Y Wahab, InAs/GaAs Quantum Dots Grown By Chemical Vapor Deposition At Different Temperature, *Regional Conference Solid State Science and Technology (RCSST)*, 27 – 29 Nov 2007
- Shahrizar R, Z Othaman, **R Muhammad**, L K Boo, Growth parameters of InAs/GaAs quantum dots grown by MOVPE, *Regional Conference Solid State Science and Technology (RCSST)*, 27 – 29 Nov 2007
- L K Boo, Z Othaman, **R Muhammad**, Shahrizar, Uniform Indium arsenide Quantum Dots formation, *Regional Conference Solid State Science and Technology (RCSST)*, 27 – 29 Nov 2007
- **Rosnita M.**, Zulkafli O. and Samsudi S. (2007). Epitaxial Methods of Quantum Devices Growth. *Regional Annual Fundamental Science Seminar 2007*. IbnuSina Institute, UTM. July 2007.
- Y Wahab, W WYeong, K Deraman, C B Soh, **R Muhammad**, Photoluminescence studies of In_{0.5}Ga_{0.5}As/GaAs quantum dots. *Regional Conference Solid State Science and Technology (RCSST)*, June 2006
- Y. Wahab, N. Subari, S. Sakrani and **R. Muhammad**. Temperature and non-magnetic layer thickness dependence GMR in ferromagnetic multilayer structure. *The XXII Regional Conference Solid State Science and Technology*, 18-21 Dec 2005, Hyatt Regency Hotel, Kuantan, Pahang.
- Lau Chen Chen, B. Ismail, M. N. Yusuf and **R. Muhammad**, Electronic Conduction Processes In Amorphous Silicon-Carbon Alloy (a-Si:C:H) Thin Films Prepared By Rf Magnetron Sputtering. *The XXII Regional Conference Solid State Science and Technology*, 18-21 Dec 2005, Hyatt Regency Hotel, Kuantan, Pahang.
- Yussof Wahab, Karim Deraman, **Rosnita Muhammad** and Mohd. Nor Yusof. The Structural and Optical Characteristic Studies of Quantum Nanostructures for Single-Electron Materials, *Minggu Penyelidikan Sains dan Matematik 2005*, 21 – 23 September 2005, Dewan Sultan Iskandar, UTM
- Lau Chen Chen, B. Ismail, M. N. Yusuf and **R. Muhammad**, Optical Properties Of Amorphous Silicon-Carbon Alloy Films Prepared Using Rf Magnetron Sputtering Technique. *Annual Fundamental Science Seminar 2004 (AFSS 2004)*, 14-15 Jun 2004, Institut IbnuSina, UTM.
- Lau Yee Chen, Samsudi Sakrani, Rashdi Shah Ahmad, Yussof Wahab and **Rosnita Muhammad**. Giant Magnetoresistance in Co/Cu/Co Nanostructures, *International Conference on Advancement Science and Technology (iCAST)*, 5-7 August 2003, Kuala Lumpur.
- **Rosnita Muhammad**, Karim Deraman and Bakar Ismail, Kesan pemanasan dan dedahan oksigen ke atas saput tipis timah oksida (SnO₂) yang disepuh pada suhu berbeza-

beza. *Persidangan Serantau Sains Keadaan Pepejal ke XIII*, 10-11 Disember 1996, UTM Johor.

- **Rosnita Muhammad**, Karim Deraman and Bakar Ismail, Perubahan kapasitans terhadap frekuensi pada julat suhu rendah 180 – 300 K bagi saput tipis SnO₂. *Persidangan Serantau Sains Keadaan Pepejal ke XII*. 2-3 November 1995, USM Penang.

SUPERVISION WORKS

PhD Student:

- Nurhamizah Bt Ahmad Rusli, The Growth and Characterization of Yittria Stabilized Zirconia as an anode and electrolyte using RF Magnetron Sputtering for Solid Oxide Fuel Cell Applications, Mar 2016 – ongoing.
- Nur Fathirah Bt Mohd Rahimi, Synthesis of YSZ and Zirconia thin films using Sol-Gel Dip Coating Method, Mar 2016 – ongoing.

Master Student:

- Shahirah Bt Deraman, Optimal Growth of YSZ Nanostructure using Sol-Gel Method, Mar 2015 – Mac 2019.
- Nor Hidayah Bt Md Amin, Optimal Growth of YSZ Nanostructure using RF-Sputtering Mar 2015 – Mac 2019 :
- Nur Azilah Bt Abdul Rahman, The Growth of CuO Nanowire using thermal evaporation method for Solid Oxide Fuel Cell Applications, Mar 2015 – ongoing.
- Noraqidah Bt Akhiruddin, The Growth of ZnO Nanowire using thermal evaporation method for Solid Oxide Fuel Cell Applications, Mar 2015 – ongoing.
- Nor Fadilah Binti Mohamad Nasir, Synthesis of GaAs Nanowires using RF Magnetron sputtering, Sept 2014 – ongoing.
- Siti Noryasmin Binti Jaafar, The Growth of Yittria Stabilized Zirconia for Solid Oxide Fuel Cell Applications, Completed on Jun 2017.
- Naziha Binti Jamaludin, Zinc Oxide Nanowires prepared by thermal evaporation method Completed on Jun 2016.

Final Year Project (PSM)

- 2017/2018 – Hajjar Zabidy (4 SSCF). PSM Title: Morphological Characterization of Copper Oxide Nanowires Grown Using Thermal Oxidation.
- 2016/2017 - Norhayati Husna Ab Razak (4 SSCF). PSM Title: Influence of gold nanoparticle to the growth of GaAs Nanowire.
- 2016/2017 - Norsyahirah Che Razak (4 SSCF). PSM title: Optimum growth parameter of III-V semiconductor nanowire using RF sputtering.
- 2015/2016 - Syarifah Aloyah (4 SSCZ). PSM title: Studies on YSZ thin Films Using RF Magnetron Sputtering.

Industrial Training

- Lakshmana Bahrathi A/L Satiyamurti, UTM (Matric No – A14SC0067), 11 Jun – 1 Sept 2017 at Mapei Malaysia Sdn Bhd, Nilai.
- Nur Atika Rahmat, UTM (Matric No – A14SC0158), 11 Jun – 1 Sept 2017 at Johnson Matthey Malaysia Sdn Bhd, Nilai.
- Nur Ezzati Abdul Manap, UTM (Matric No – A14SC0163), 11 Jun – 1 Sept 2017 at Pejabat Perkeso Negeri Sembilan, Seremban.
- Aryna Abd Majid, UTM (Matric No – A14SC0022), 11 Jun – 1 Sept 2017 at Akashi Kikai Industry (M) Sdn Bhd, Negeri Sembilan.
- Noreen Farhani Mohd Sukri, UTM (Matric No – A14SC0134), 11 Jun – 1 Sept 2017 at Akashi Kikai Industry (M) Sdn Bhd, Negeri Sembilan.
- Nur Syuhada Zazali, UTM (Matric No – A14SC0197), 11 Jun – 1 Sept 2017 at Akashi Kikai Industry (M) Sdn Bhd, Negeri Sembilan.
- Noorisma Farina Abdul Rahim, UTM (Matric No – A14SC0316), 11 Jun – 1 Sept 2017 at Kilang Sawit Serting, Negeri Sembilan.
- Nur Liyana Mohd Dali, UTM (Matric No – A14SC0182), 11 Jun – 1 Sept 2017 at Fakulti Sains & Teknologi, USIM, Negeri Sembilan.
- Noor Filzah Bt Fazil, UTHM (Matric No – AW130021), 16 Jan – 14 July 2017 at Department of Physics, UTM.
- Muhamad Nurhakim Pandak, UTM (Matric No – A12PP0045), 12 Jun – 2 Sept 2016 at Billion Prima Sdn Bhd, Kulai.
- Nur Fatin Jaafar, UTM (Matric No – A13SC0125), 12 Jun – 2 Sept 2016 at Billion Prima Sdn Bhd, Kulai.
- Nur Syamimi Zulkiple, UTM (Matric No – A13SC0143), 12 Jun – 2 Sept 2016 at Billion Prima Sdn Bhd, Kulai.
- Nursyahirah Muhamad Nader, UTM (Matric No – A13SC0168), 12 Jun – 2 Sept 2016 at Billion Prima Sdn Bhd, Kulai.
- Nursyaza Syafiq Rosli, UTM (Matric No – A13SC0169), 12 Jun – 2 Sept 2016 at Billion Prima Sdn Bhd, Kulai.
- Siti Najihah Huzaidi, UTM (Matric No – A13SC0212), 12 Jun – 2 Sept 2016 at Billion Prima Sdn Bhd, Kulai.
- Muhammad Affiq Bin Kamal, UIAM (Matric No – 1310341), 2 Feb – 15 July 2016 at Department of Physics, UTM.
- Abdul Rahman Bin Fadzil, UIAM (Matric No – 1316577), 2 Feb – 15 July 2016 at Department of Physics, UTM.

EVALUATION WORKS

- Assessor for 1st assesment 2017/2018-1 (PhD Stud – Nur Nabihah Yusof, Surface Plasmon Assisted Improved Behavior of Silver & Titanium Nanoparticles Co-Embedded Neodymium Doped Magnesium-Zinc-Sulfophosphate Glass)
- Assessor for PSM Proposal 2017/2018 (PSM 1 - SSCU 4902)
 1. Hajjar Zabidy
 2. Nur Munira Zainal Abidin
- Internal Assessor for Viva-Voce, 6 Mac 2017 (MSC Stud-Bakhtiar Ridhwan Bachiran, Copper-Doped Tin Sulphide Thin Film Deposition Using Thermal Evaporation Technique for Solar Cell Material)
- Assessor for 1st assesment 2016/2017-3 (PhD Stud – Al Luhaybi Hana Abdullah H, Structural and Optical Properties Evaluation of Gold Nanoparticles Via Synthesis, Characterization and Modeling)
- Assessor for 1st assesment 2016/2017-1 (PhD Stud – Nurhashimah Hassim, Graphene Based Electrodes for Inverted Organic Solar Cell)
- Assessor for 1st assesment 2015/2016-2 (PhD Stud – Emilly Albert Alim, Silicon Carbide Nanotube Deposition Using UHF-PECVD Technique)
- Assessor for PSM Proposal & Prosiding 2015/2016 (PSM 2 - SSCU 4904)
 3. Khairulanwar Bin Abu Shah
 4. Masilah Binti Tumeran
 5. Syarifah Aloyah Binti Syed Husin

TEACHING

- 2019/2020
 - Sem 1 : SSCP 4623 (Material Sciences)
 - Sem 1 : SSCU 4902 (Projek Sarjana Muda I)
 - Sem 1 : SSCP 1811 (Physics Laboratory I)
 - Sem 1 : FSPP 0022 (UTM Foundation)
- 2017/2018
 - Sem 2 : Medical Leave (8 months)
 - Sem 1 : SSCP 4623 (Material Sciences)
 - Sem 1 : 1811 (Physics Laboratory I)
 - Sem 1 : SSCU 4902 (Projek Sarjana Muda I)
 - Sem 1 : FSPP 0022 (UTM Foundation)
- 2017/2018
 - Sem 2 : MSCF 1443 (Thin Film Physics)
 - Sem 2 : SSCP 4453 (Low Temperature Physics and Superconductivity)
 - Sem 2 : SSCP 1821 (Physics Laboratory II)
 - Sem 2 : SSCU 4904 (Projek Sarjana Muda II)
 - Sem 1 : SSCP 4623 (Material Sciences)
 - Sem 1 : SSCP 1811 (Physics Laboratory I)
 - Sem 1 : SSCU 4902 (Projek Sarjana Muda I)
 - Sem 1 : FSPP 0022 (Asasi UTM)

- 2016/2017
 - Sem 2 : MSCF 1443 (Thin Film Physics)
 - Sem 2 : SSCP 4603 (Vacuum and Thin Film Technology)
 - Sem 2 : SSCP 1821 (Physics Laboratory II)
 - Sem 2 : SSCP 4904 (Projek Sarjana Muda II)
 - Sem 1 : SSCP 4623 (Material Sciences)
 - Sem 1 : SSCP 1811 (Physics Laboratory I)
 - Sem 1 : SSCU 4902 (Projek Sarjana Muda I)
 - Sem 1 : SSCU 4904 (Projek Sarjana Muda II)
- 2015/2016
 - Sem 2 : SSCP 4443 (Magnetic Materials)
 - Sem 2 : SSCP 1821 (Physics Laboratory II)
 - Sem 2 : SSCP 4904 (Projek Sarjana Muda II)
 - Sem 1 : SSCU 4902 (Projek Sarjana Muda I)
 - Sem 1 : SSCP 1811 (Physics Laboratory I)

COMMUNITY SERVICES & ADMINISTRATIVE RESPONSIBILITIES

2017

- Appointment as MSc Thesis Internal Examiner entitled “Copper Doped Tin(II) Sulfide Thin Film Deposition Using Thermal Evaporation Technique for Solar Cell Material” , Physics Department, FS, UTM (September 14, 2017)
- Jemputan Menghadiri Sesi Temubual Audit Pematuhan Program Pasca Siswazah 2017, T05, FS, UTM (July 23, 2017)
- Appointment as Academic Advisory/ Supervisor for UTM Student Exchange from King Mongkut University Thailand (June 5, 2017)
- Appointment as Academic Advisory (PA) for First Year Student, FS, UTM (August 20, 2017)
- Appointment as Assessor for First Assessment Semester 3 Session 2016/2017-Taibah University Students, FS, UTM (August 6, 2017)
- Perlantikan sebagai Penyelia Latihan Industri/ Latihan Penyelidikan Semester III Sesi 2016/2017, FS, UTM (July 25, 2017)
- Perlantikan Sebagai Fasilitator Latihan Penggunaan Peralatan Amali Tahun 1 Jabatan Fizik, FS, UTM (July 25, 2017)
- Lantikan sebagai Ahli Task Force Penyediaan SAR Program Prasiswazah, Fakulti Sains, UTM bermula 15 Julai 2017 hingga 30 Jun 2018 (July 19, 2017)
- Perlantikan sebagai Ketua/ Pengawas Peperiksaan Akhir Semester II Sesi 2016/2017, FS, UTM (May 15, 2017)
- Perlantikan sebagai Jawatankuasa Penentuan dan Penilaian Spesifikasi Teknikal Fakulti Sains (Bajet D & Q), FS, UTM (April 18, 2017)
- Pelantikan Sebagai Jawatankuasa Task Force Program Baharu Master Taught Course (Nanotechnology)-Transnational Education dengan Twente University (Mac 29, 2017)

- Pelantikan sebagai Ahli Task Force Penyedia Dokumen bagi Perolehan Peralatan RMK11-2017, Jabatan Fizik, FS, UTM (Feb 23, 2017)
- Perlantikan sebagai Felo Penyelidik Bersekutu “Centre for Sustainable Nanomaterials (CSNano), Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR)” untuk tempoh 3 tahun, 15 Dis 2016 – 14 Dis 2019 (Jan 5, 2017)
- Appointment as Chairperson for First Assessment Semester 1 Session 2016/2017, FS, UTM (Jan 1, 2017)
- Appointment as Assessor for First Assessment Semester 1 Session 2016/2017, FS, UTM (Jan 1, 2017)

2016

- Perlantikan sebagai Penilai Proposal PSM1 Sesi 2016/2017, Jabatan Fizik, FS, UTM (Dis 18, 2016)
- Perlantikan sebagai Ahli Task Force Program Pembangunan Science, Technology, Engineering & Mathematics (STEM) Fakulti Sains, UTM (Dis 1, 2016)
- Perlantikan sebagai Penyelia pelajar Projek Sarjana Muda (PSM) I/II Sesi 2016/2017-SSCU 4902/ SSCU 4904-Norhayati Husna Ab Razak (September 4, 2016)
- Perlantikan sebagai Penyelia pelajar Projek Sarjana Muda (PSM) 1 Sesi 2016/2017-SSCU 4902- Norsyahirah Che Razak (September 4, 2016)
- Perlantikan sebagai Fasilitator bagi Hands On Training di Makmal Vakum dan Sputtering, Jabatan Fizik, FS, UTM (Ogos 23, 2016)
- Perlantikan sebagai Fasilitator One Day High Impact Publication Workshop (Ogos 23, 2016)
- Perlantikan sebagai Penyelia Latihan Industri/Latihan Penyelidikan Semester Pendek Sesi 2015/2016 (Julai 31, 2016)
- Perlantikan sebagai Ahli Task Force Kolokium Kebangsaan Pendidik Sains, Teknologi, Kejuruteraan & Matematik (KKPSTEM) 2016 Peringkat Negeri Johor (July 3, 2016)
- Perlantikan sebagai Penilai Laporan Projek Sarjana Muda 2 dan Prosiding 2015/2016, Jabatan Fizik, FS, UTM (Jun 26, 2016)
- Pelantikan sebagai Ahli Jawatankuasa Persidangan Serantau Sains & Teknologi Keadaan Pepejal 2016 Kali ke-29, FS, UTM (Jun 19, 2016)
- Appointment As Assessor for First Assessment Semester 2 session 2015/2016, FS, UTM (June 8, 2016)
- Perlantikan sebagai Ahli Task Force Prosiding Projek Sarjana Muda Sesi 2015/2016 (Jun 8, 2016)
- Perlantikan sebagai Pengerusi/Penilai Pembentangan Pelajar PSM 2 Sesi 2015/2016, Jabatan Fizik, FS, UTM (May 29, 2016)
- Perlantikan sebagai Jawatankuasa Penentuan dan Penilaian Spesifikasi Teknikal -Bajet D & Q selama 2 tahun, FS, UTM (May 17, 2016)
- Perlantikan sebagai Pembantu Penyelia Projek Sarjana Semester II Sesi 2015/2016-Ithnaini Mohamed Kamil, UTM Razak School (April 25, 2016)
- Perlantikan sebagai Jawatankuasa Pengurusan Jabatan Fizik bermula 1 Mac 2016 – 31 Dis 2017, Jabatan Fizik, FS, UTM (April 13, 2016)

- Perlantikan sebagai Penyelaras Amali Fizik (Tahun 1), Jabatan Fizik, FS, UTM-1 Mac 2016 – 31 Dis 2017 (Mac 29, 2017)
- Perlantikan sebagai Jawatankuasa Keselamatan & Kesihatan Pekerjaan dan 5S- 1 Mac 2016 hingga 31 Dis 2017 (Mac 29, 2016)
- Perlantikan sebagai Jawatankuasa Latihan Industri bermula 1 Mac 2016 hingga 31 Dis 2017, FS, UTM (Mac 29, 2016)
- Perlantikan sebagai Jawatankuasa Projek Sarjana Muda, Jabatan Fizik, FS, UTM (Mac 29, 2016)
- Perlantikan sebagai Penyelaras Makmal Jabatan Fizik-Panel Fizik Bahan, FS, UTM (Mac 2, 2016)
- Lantikan sebagai Penyelia Pelajar Latihan Praktikal- Abdul Rahman Fadzil & Muhammad Affiq Kamil bermula 2 Feb – 14 Julai 2016, Jabatan Fizik, FS, UTM (Feb 28, 2016)
- Appointment as Co-Supervisor –Master of Philosophy: Siti Noryasmin Jaffar, UTM Razak School (Feb 21, 2016)
- Perlantikan sebagai Pegawai Bertanggungjawab bagi Surat Tunjuk Minat (LOI), UTM FS – Mint-SRC, UTHM (Feb 15, 2016)
- Perlantikan sebagai Ahli Jawatankuasa Penganalisan Data Jabatan Fizik, Fakulti Sains, UTM sehingga 31 Dis 2017 (Feb 1, 2017)
- Perlantikan sebagai Ahli Jawatankuasa Task Force Audit COPPA, Jabatan Fizik, FS, UTM (Jan 25, 2016)

2015

- Perlantikan sebagai Pembantu Pengerusi Viva PhD- Koh Meng Hock pada 29 Oct 2015, FS, UTM (Oct 15, 2015)
- Perlantikan sebagai Penyelia Pelajar Projek Sarjana Muda (PSM) I/II Sesi 2015/2016 SSCU 4902/SSCU 4904- Syarifah Aloyah Syed Husin
- Perlantikan sebagai ahli Task Force Penyediaan Dokumen bagi Perolehan Alat RMK-11 Fakulti Sains, UTM (Jan 12, 2015)

2014

- Appointment as Co-Supervisor –Master of Science (Physics): Nor Fadilah Mohamad Nasir, FS, UTM (Sept 10, 2014)
- Appointment as Co-Supervisor –Master of Science (Physics): Naziha Jamaludin, FS, UTM (May 21, 2014)

SKILLS

Analytical Analysis:

- MOCVD (Metal Organic Chemical Vapor Deposition)
- MAGNETRON SPUTTERING (DC and RF)
- SPM (Scanning Probe Microscopy-AFM, STM, DFM)

- CAFM (Conductivity Atomic Force Microscopy)
- SEM (Scanning Electron Microscopy)
- FESEM (Field Emission Scanning Electron Microscopy)
- TEM (Transmission Electron Microscopy)
- EDX (Energy Dispersion X-Ray Spectroscopy)
- XRD (X-Ray Diffraction)
- PECVD (Plasma Enhanced Chemical Vapor Deposition)
- 4 Point Probe (Current-Voltage & Electrical analysis)
- UV-VIS (Ultraviolet- Visible spectrophotometer)
- PL (Photoluminescence)

Training in:

- Health and Safety Management
- Synthesis of nanofabrication and semiconductor materials
- MOCVD system (operation and fabrication)
- Gas piping in cleanroom

Extensive Experience with:

- Excel v. 95 to 2013
- Word v. 95 to 2013
- Powerpoint v. 95 to 2013

INTELECTUAL PROPERTY

- IP/PT/2019/1145- Invention Disclosure, Nickel Oxide Yttrium Stabilize Zirconia Thin Film Growth, Rosnita Muhammd, Nor Hidayah Mat Amin
- IP/PT/2017/0823- Invention Disclosure, Highly Conductive Yttrium Stabilized Zirconia Thin Film Electrolyte, Rosnita Muhammad, Sib Krishna Goshal, Wan Nurulhuda Wan Shamsuri, Nur Fathirah Rahimi.
- PI 2014 0003060 – Nanowire Growth, 29 Oct 2014, Rosnita Muhammad, Rahmalan Ahamad, Yussof Wahab, Zulkafli Othaman, Samsudi Sakrani, Zuhairi Ibrahim.

COURSES/WORKSHOP

Bengkel Memasukkan Maklumat Kursus iCGPA, Bilik Mesyuarat Jabatan Kimia, FS UTM (13 Nov 2017)

Bengkel Website Staf Akademik Jabatan Fizik, Makmal Komputer, Jabatan Fizik, FS, UTM (Sept 26, 2017)

Bengkel E-Learning Jabatan Fizik, Makmal Komputer, Jabatan Fizik, FS, UTM (Sept 19, 2017)

Majlis Penghargaan Staf FS UTM, Dewan Banquet, UTM (16 Ogos 2017)

Latihan Penggunaan Peralatan Amali Tahun 1, Blok C20 & C21, Jabatan Fizik, FS, UTM (25-26 Julai & 1-2 Aug 2017)

Taklimat Penyeliaan Latihan Industri/ Latihan Penyelidikan, Dewan Kuliah 2, FS UTM (16 Julai 2017)

Taklimat Graduate Supervision Course Series 3 (AS 103), Dewan Kuliah 1, FS UTM (7 Jun 2017)

Bengkel Penyediaan Dokumen Perolehan RMK 11-2017 Fakulti Sains (28 Mac 2017)

Bengkel E-Learning Jabatan Fizik, Bilik Mesyuarat Jabatan Fizik, FS, UTM (Mac 8, 2017)

Bengkel Semakan Kurikulum (L1) Jabatan Fizik, Bilik Mesyuarat Jabatan Fizik, FS UTM (Feb 7, 2017)

Bengkel i-OBE Jabatan Fizik, Makmal Komputer, Jabatan Fizik, FS UTM (Jan 22, 2017)

Bengkel Submit ELPPT Tahun 2016, Makmal Komputer, Jabatan Fizik, FS, UTM (Dis 29, 2016)

Bengkel Survey on the Achievement of Course Outcome Online (SCO) Jabatan Fizik, FS UTM (Dis 13, 2016)

Workshop On Advanced Spectroscopy pada 1 – 2 Aug 2016, T05, FS, UTM (July 31, 2016)

Taklimat Graduate Supervision Course Series 3 (AS 103), Dewan Kuliah 1, FS, UTM (Jun 7, 2017)

Kursus Supervisory Development Program Level 2 (AS102), Bilik Seminar Jabatan Kimia, FS, UTM (April 12-13, 2016)

Bengkel Semakan dan Penilaian Borang Soal Selidik, Bilik Mesyuarat Utama Fakulti Sains, UTM (4 Feb 2016)

Bengkel dan Mesyuarat Jawatankuasa Task Force Audit COPPA Jabatan Fizik, Fakulti Sains, UTM (3 Feb 2016)

Sesi Engagement bersama Pentadbir Fakulti Sains (Taklimat KPI), UTM (2 Feb 2016)

Taklimat Webometrics Fakulti Sains oleh Unit Komunikasi Digital, Pejabat Hal Ehwal Korporat UTM, Dewan Kuliah 1, Fakulti Sains, UTM (19 Jan 2016)

Bengkel Pra-Value Management Fakulti Sains, Meeting Room C10, Chemistry Department, UTM Skudai (17 Jan 2016)

Bengkel Penyediaan CAR secara atas talian, C22 Computer Lab, Mathematic & Science Department, UTM Skudai (6 Jan 2016)

Bengkel ELPPT Jabatan Fizik, Physics Department, UTM Skudai (30 Dis 2015)

Research Collobartion UTM-UTHM, Mint SRC UTHM (25 Nov 2015)

Bengkel E-Learning Jabatan Fizik, Physics Department, UTM Skudai (9 Nov 2015)

Bengkel Website Jabatan Fizik Siri II, Physics Department, UTM Skudai (3 Nov 2015)

INATEX 2015, Dewan Sultan Iskandar, UTM Skudai (2 – 5 Nov 2015)

Bengkel Website Jabatan Fizik Siri I, Physics Department, UTM Skudai (13 Oct 2015)

International Conference on Advanced Materials Science & Technology (ICAMST 2015), Gracia Hotel, Semarang Indonesia (6-9 Oct 2015)

RMC Engagement Day (RED), N24, UTM Skudai (6 Sept 2015)

5th International Conference of Fuel Cell & Hydrogen Technology (ICFCHT 2015), Pullman Hotel, KL (1-3 Sept 2015)

SPPT Courses : E-Learning, Bilik Latihan 1, Pusat Latihan, UTM (17-20 Aug 2015)

SPPT Courses : Sijil Pengajaran dan Pengajian Tinggi 2015, F54, UTM (2-13 Aug 2015)

Attending Courses Nanaomaterials : Syntheses and Characterization, Kompleks Eureka, USM Penang (20 & 21 Apr 2015)

Basic E-Learning, Makmal Komputer CTL, UTM Skudai (14 Apr 2015)

Menghadiri Pelancaran Konsortium NanoMITe, Dewan Utama, UTMKL (13 Apr 2015)

Post Graduate Supervisory Course, L50, UTM Skudai (6 Apr 2015)

Bengkel 'Write A Great Paper & Get it Published in a Research Journal, Dewan Sultan Iskandar, UTM Skudai (4 Mar 2015)

Research Collaboration UTM-USM, Medical Programme (25 Feb 2015)

Conductivity Atomic Force Microscopy Hands on & Meeting, USM Nibong Tebal (29 Oct 2014)

Menghadiri Kursus Penulisan Tesis ke Buku, Akademi DBP, Menara DBP, KL (Oct 15-16, 2014)
 Leadership Module Writing & Publication (Introductory), Dewan Utama, Pusat Latihan UTM (12 – 13 October 2014)
 Akademi Sains Malaysia Training Workshop –How to write a winning research proposal, Armada Hotel, Petaling Jaya (20-22 May 2014)
 Advanced E-Learning Courses, CTL Computer Lab, UTM (12 May 2014)
 Short Courses: The Power Presentation Skills, Pusat Latihan UTM, UTM (21 – 22 Apr 2014)
 Teaching Portfolio Courses, CTL Computer Lab, UTM (16 March 2014)
 Worldview of New Academia Courses, Dewan Banquet, UTM (24 – 25 Feb 2014)
 Workshop on Advanced Surface Analytical Technique Using XPS, Fakulti Sains, UTM (26 – 27 Dis 2013)
 Bengkel Garis Panduan Permohonan Gran GUP, Grand Paragon Hotel, JB (19 – 20 Dis 2013)
 Seminar“High Impact Journal: An art of writing by Assoc Prof Dr Sib Krishna“, Dewan Kuliah 1, Fakulti Sains UTM (11 Dis 2013)
 Bengkel Kewangan Pejabat TNCPI (4-6 Dis 2013)
 Public Lecture“Atomic Resolution STEM: Imaging & Characterization by Profesor Emeritus Makoto Shiojiri“, Dewan Senat UTM (29 Nov 2013)
 Seminar “How to write a book with an international reputable publisher-from selecting the suitable publisher to writing a book“, Bilik Seminar Prospect, FKK UTM (25 Nov 2013)
 Taklimat Scival Expert, UTM Library (20 Nov 2013)
 Taklimat Penempatan Harta Tetap dan Pendaftaran dalam Sistem, Dewan Senat UTM (7 Nov 2013)
 Taklimat ELPPT berdasarkan bidang Sains, Dewan Teater 1, Institut Ibnu Sina UTM (25 Okt 2013)
 Taklimat PSPTN, Dewan Senat UTM (23 Okt 2013)
 Pra-Bengkel Kewangan TNCPI, Dewan Teater 2, Institut Ibnu Sina UTM (22 Okt 2013)
 Taklimat ELPPT umum 2013, Dewan Senat UTM (11 Okt 2013)
 Taklimat Scival UTM Expert, Bilik Mesyuarat Berlian, Pej TNCPI (7 Okt 2013)
 Participant in INATEX Exhibition (Bronze Medal), Sultan Iskandar Hall, UTM Skudai (2-4 Oct 2013)
 Taklimat KPI, Dewan Senat UTM (22 Julai 2013)
 Taklimat FRGS, Dewan CTL UTM (5 Julai 2013)
 Taklimat Book Chapter, Bilik Mesyuarat Berlian, Pej TNCPI (20 Jun 2013)
 Bengkel Gran Flagship SRA, SRA UTM (13 Jun 2013)
 Kursus UTMSHare, Pusat Latihan UTM (23 Mei 2013)
 Kursus Laman Web, Wordpress, Pusat Latihan UTM (15 – 16 Mei 2013)
 GOP Program ke Korea (15 – 25 Apr 2013)
 Bengkel Buku Penyelidikan, Dewan Seminar, Pusat Latihan UTM (9 April 2013)
 Bengkel Pengurusan Sebut Harga Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi), Bilik Kaca, Dewan Sultan Iskandar (25 Mac 2013)
 Kursus Penulisan Journal High Impact, Pusat Latihan, UTM Skudai (12-14 Mac 2013)
 Program Healthy Living for UTM Staf-Kumpulan 7 Siri 1, Pusat Latihan, UTM Skudai (26 – 27 Dis 2012)
 Bengkel Perancangan Strategik Sustainability RA, Pusat Latihan, UTM Skudai (21 Nov 2012)
 Bengkel Patent-Stage 2, Mahkota Hotel, Melaka (29 Oct – 2 Nov 2012)
 Bengkel Pengurusan Kewangan dan Penyediaan Belanjawan 2013/2014, Holiday Inn, Melaka (10-12 Sept 2012)
 Menghadiri taklimat GUP 2013, RMC UTM (6 Jul 2012)
 Kursus BI-GOP Siri 10, Pusat Latihan UTM (3-4, 10-12 Julai 2012)

Menghadiri Taklimat Gran dari MOSTI (Scfund, Technofund dll), Dewan Senat UTM (15 Jun 2012)

Mewakili SRA dalam taklimat Akredetasi, Dewan Senat (14 Jun 2012)

Menghadiri Bicara Karya oleh Prof. Dr. Azraii Kassim-The Extreme Future: The Top Trends Will Reshape The World In The Next 20 Year, PSZ UTM (30 May 2012)

Kursus Pembacaan Pruf, Pusat Latihan UTM (9-11 Mei 2012)

Bengkel Patent –Stage 1, Mercury Hotel, Senai (14-18 May 2012)

Bengkel Patent Search ICC, MSuite JB (23-24 Apr 2012)

Bengkel Pengisytiharan Harta, CICT (18 Apr 2012)

Bengkel UTMFin, CICT (21-22 Feb 2012)

Urusetia Green Generation Forum, DSI UTM (22-23 Dis 2011)

Menghadiri Taklimat SBPA oleh Pihak JPA (16 Dis 2011)

Menghadiri Taklimat Prof Karimi dari National University of Singapore, FKK (2 Dis 2011)

Terlibat dalam Bengkel Pemantauan GUP Tier 1 dan Tier 2 Sustainability RA, Bangunan Censeleri (23 Nov – 30 Dis 2012)

Menghadiri Taklimat Dr Kohei-Sustainable Solid Management in Sustainable Campus (14 Oct 2011)

Menghadiri Syarahan Umum-Sains Mikrograviti, Dewan Senat UTM (13 Oct 2011)

Kursus Pengurusan Dokumen Universiti Siri II dan Pengurusan Kewangan HRFin (12 Oct 2011)

Taklimat KPI Web System untuk individu setiap RA, Dewan Senat UTM (28 Sept 2011)

Taklimat Penulisan Book Chapter Nanotechnology IIS, Ibnu Sina Institute (22 Aug 2011)

Taklimat Book Chapter Sustainability RA, Fakulti Sains UTM (18 Aug 2011)

Bengkel Penulisan Book Chapter, Institut Ibnu Sina, UTM Skudai (26 – 27 Jul 2011)

Kursus Komputer-Microsoft Power Point 2007, Tahap 2, Pusat Latihan UTM, UTM Skudai (20 – 21 Jul 2011)

Bengkel Pengurusan Penyelidikan Bersama RMC, Pusat Latihan UTM, UTM Skudai (6 – 7 July 2011)

Bengkel Pemantauan Geran Institusi, C17 Aras 4, Fakulti Sains, UTM Skudai (24 Jun 2011)

Bengkel Permohonan Geran Scfund, Bilik Theatre 1, Institut Ibnu Sina, UTM (25 May 2011)

Menghadiri taklimat Nanotechnology- Opportunities and Challenges, Jabatan Fizik, UPM Serdang (16 May 2011)

Taklimat Pengurusan Kewangan Projek Penyelidikan, Bilik CTL, Bangunan F54 (28 Apr 2011)

Bengkel Manual Prosedur Kerja dan Fail Meja, Mahkota Hotel, Melaka (5 & 6 Mar, 2011)

Bengkel Pemurnian MPK dan FM, CEPP (23 Mar 2011)

Grant Universiti Penyelidikan (GUP) Talk (26 Jan 2011)

Kursus Value Creation, CEPP UTM (28 – 29 Dec 2010)

Bengkel Penyelarasan data KPI-RMC, RA & TNCPI (5 Oct 2010)

Forum Sustainable Building, Dewan Senat (26 Apr 2010)

Seminar Behavioural and Sustainability, FAB (18 Aug 2010)

Klinik kemasukan dan semakan data ke sistem balance scorecard (27 July 2010)

Bengkel Penilaian FRGS Bil 2/2010 (5 July 2010)

Bengkel High Impact Journal with Dato‘ NC (27 – 28 Apr 2010)

Bengkel Pengemaskinian Broucher Research Alliance (22 – 23 Feb 2010)

Menghadiri Second International Conference and Workshops on Basic and Applied Sciences and Regional Annual Fundamental Science Seminar 2009 (ICORAFSS 2009), (3 – 4 June, 2009)

Third International Meeting on Frontier of Physics (IMFP 2009), Awana Genting, (12 – 16 Jan 2009)

Menghadiri seminar 24rd Regional Conference Solid State Science & Technology (RCSST 2008), Port Dickson, N. Sembilan. (30 Nov – 2 Dec 2008)

Menghadiri seminar antarabangsa " International Conference Functional and Material Devices (ICFMD), Berjaya Time Square, KL (16-19 Jun 2008)

Menghadiri seminar regional annual fundamental science (RAFSS 2008) (27 – 29 May 2008)

Kursus MOCVD & Nanostructure Modelling, (26 Feb – 1 Mac 2008), ITB, Bandung.

Lawatan Penyelidikan ke Australia National University, 6-11 Ogos 2007, Canberra, Australia.

Bengkel Patent Search, (12 Feb 2007), RMC.

Program Ulasan Buku, (22 Feb 2007), UTM.

Kursus Pengendalian Rapid Thermal Processor, (6 -7 Mac 2007).

Bengkel Sasaran Kerja Tahunan (6-8 Apr 2007), Melaka.

Perlantikan AJK Biro Penerbitan BKRMCMC 2007

Nanotechnology Applications in Fabrication & Metrology Courses Workshop On Nanomaterials , 7 May 2007

Membentangkan kertas kerja di Regional Fundamental Science Seminar (RAFSS 2007). Tajuk : Epitaxial Method Of Quantum Devices Growth

Latihan Penggunaan DrDok (Jun 2008)

Bengkel Perancangan Strategik ICT RMC 2007-2010

Latihan Penggunaan Peralatan MOCVD : Fasa Kedua

Mengikuti Lawatan Penyelidikan di Australian National University, Canberra, Australia.

Jawatankuasa Kerja (Urusetia) INATEX 2007

Menguruskan permohonan jemputan Profesor Pelawat, Dr Hark Hoe Tan dari ANU, Canberra. Cadangan tarikh : 8 – 22 Jan 2008

Latihan Pemasangan *Gas Sensor Cartridges Lifeline* dan *Gas Cylinders* untuk gas bertoksik dan mudah terbakar

Penghargaan Kepada Staf – Kumpulan Sigma di atas anugerah Pensijilan 5S RMC.

Kursus Audit Amalan 5S dan Bengkel Penambahbaikan 5S RMC.

Bengkel Mengenalpasti Keperluan PDDL, RMC

Membentangkan Kertas Kerja pada Seminar 23rd Regional Conference Solid State Science & Technology 2007 (MASS), Hyatt Regency JB. Tajuk kertas kerja: InAs/GaAs Quantum Dots Grown By Chemical Vapor Deposition At Different Temperature

Post – 6th Asean Microscopy Conference Workshop di IIUM, Kuantan, 13 – 14 Dis 2007.

Kursus Biro Tatanegara (BTN), Gunung Pulai Johor, 16 – 20 Feb 2006,

Scientific Talk – Cleanroom, IbnuSina Institute, 28 -29 Mar, 2006

AJK Hari Bersama Pelanggan, RMC, 13 Apr 2006

Training Scanning Probe Microscopy, Physic Department, 22 -26 May 2006

Workshop : Pengurusan dokumen university, Dewan CTL RMC, 31 May 2006

Annual Fundamental Science Seminar, IbnuSina Institute, 6 – 7 June 2006

Bengkel Patent Search, Meeting Room RMC, 6 July 2006

Taklimat Pengenalan KMK, Bilik CTL, 7 Ogos 2006

Training MOCVD System, Cleanroom, IbnuSina Institute, 18 -22 Sept, 2006

Talk of MOCVD System, IbnuSina Institute, 20 Sept 2006

Training on MOCVD-heater, IbnuSina Institute, 1 – 2 Nov 2006

Workshop on Nanotechnology and Computing, Ibnu Sina Institute (1 Sept 2005)

AJK Kerja Pameran dan Anugerah Pameran R&D IPTA 2005 di PWTC, KL (30 September – 2 Oktober 2005)

Menyertai Pameran Minggu Penyelidikan Sains dan Matematik 2005 dalam Kumpulan *Single-Electron Transistors*, DSI UTM (21 – 23 September 2005).

Bengkel Kesedaran Kualiti II dan Penyediaan Fail Meja, Pulau Spring Resort (27 September 2004)

Industrial Art and Technology Exhibition, INATEX, Dewan Sultan Iskandar, UTM (6 – 8 Julai 2004) as AJK Pameran.

Annual Fundamental Science Seminar AFSS 2004, Institut Ibnu Sina, UTM (14 – 15 June 2004) as a Participant and Secretariat.

Kursus Induksi Kumpulan Pengurusan dan Profesional Siri 1/2004, Blok P16, UTM (25 May – 10 June 2004)

Bengkel Kualiti, Pusat Pengurusan Penyelidikan, UTM (13 – 14 May 2004)

Kursus Microsoft Power Point 2000, Pusat Teknologi Maklumat & Komunikasi, UTM (14 – 15 April 2004)

Kursus Pengenalan Penyelidikan dan Pembangunan, UTM (12 – 13 Feb 2004)

Programme ICT (PSMB)- Microsoft Access, ITP YPJ, Johor Bharu (22 – 23 Ogos 2001)

Bengkel Intensif Latihan Mengajar Untuk Staf Akademik Kolej Islam Yayasan Pelajaran Johor, Kolej Islam Johor, Larkin (10 – 15 Mei 1999)

Bengkel Pengajaran Matematik, Sains Kejuruteraan dan Bahasa Inggeris, Taman Tampoi Utama, Johor Bharu (3 – 4 Dis 1998)

Kursus Teknologi Bahan, Jabatan Fizik, Fakulti Sains, UTM (29 – 30 Oktober 1996)

Pembentangan Kertas Kerja Seminar di Seminar Pengajian Siswazah, Fakulti Sains, UTM (18 – 19 Oktober 1996).

Pembentangan Kertas Kerja Seminar di Seminar Penyelidikan dan Pengajian Siswazah, Fakulti Sains, UTM (24 – 25 Oktober 1995)

Practical Training at Mitsubishi Electric (M) Sdn. Bhd., Senai, Johor (2 Mei – 25 Jun 1994)

COMMITTEES

- Ahli Jawatankuasa Penentuan dan Penilaian Spesifikasi Teknikal Fakulti Sains (bajet D & Q) (18 Apr 2017 – 17 Apr 2019)
- Ahli Jawatankuasa Pengurusan Jabatan Fizik (1 Mac 2016 – 31 Dis 2017)
- Ahli Jawatankuasa Penganalisaan Data Jabatan Fizik, FS (1 Feb 2016 – 31 Dis 2017)
- Penyelaras Makmal Jabatan Fizik – Panel Fizik Bahan (2 Mac 2016 – now)
- Penyelaras Amali Fizik Tahun 1 Jabatan Fizik, FS UTM (1 Mac 2016 – 31 Dis 2017)
- Jawatankuasa Latihan Industri Jabatan Fizik, FS (1 Mac 2016 – 31 Dis 2017)
- Jawatankuasa Projek Sarjana Muda Jabatan Fizik, FS UTM (1 Mac 2016 – 31 Dis 2017)
- Jawatankuasa Keselamatan & Kesihatan Pekerjaan 5S Jabatan Fizik FS UTM (1 Mac 2016 – 31 Dis 2017)
- Ahli Taskforce Penyediaan SAR Program Prasiswazah FS UTM (15 Julai 2017 – 30 Jun 2018)
- Ahli Task Force Penyediaan Dokumen Bagi Perolehan Alat RMK-11 2017 Fakulti Sains (23 Feb 2017 – Jul 2017)
- Lantikan Taskforce Program Baharu Master Taught Course (Nanotechnology)- Transnational Education dengan Twente University (29 Mac 2017 – selesai)
- Ahli Taskforce Program Pembangunan Science, Technology, Engineering & Mathematics (STEM) Fakulti Sains UTM (1 Dis 2016 – 31 Dis 2017)
- Lantikan Taskforce Program Bersama Industri dan Alumni Fakulti Sains 2017 (6 Mac 2017)
- Ahli Task Force Penyediaan Dokumen Bagi Perolehan Alat RMK-11 Fakulti Sains (12 Jan 2016 – Jul 2016)
- Ahli Jawatankuasa Task Force Audit Coppa (1 Jan 2016 – selesai)
- Panel penilai bagi pemilihan calon pelajar Pasca Ijazah (PhD dan Master) bagi projek penyelidikan SOFC (Nov 2015 – Mac 2016)

- Reviewer of paper from Physical Science International Journal (1 paper has been reviewed Aug 2014)
- Reviewer of selected ICoMEIA 2014 conference papers (5 papers have been reviewed)
- Programme Committee of ICoMEIA 2014
- Ahli Jawatankuasa Penilaian Teknikal Pejabat TNCPi (1 Mac 2013 – 28 Feb 2015)
- Malaysia Associates Solid State Member (MASS), Life member. No: 189
- UTM Alumni (1995 – now)
- Badan Kebajikan Staf UTM (BAKES)
- Ecotourism Campus Member (PHB & Sustainability)
- Quantum Structure Research Group Member (QuaSR), Ibnu Sina Institute, UTM Skudai
- Biro Kerohanian Badan Kebajikan RMC 2008-2009
- AJK Pameran INATEX 2008
- AJK Pameran INATEX 2007
- AJK Biro Penerbitan BKRMCM, 2007
- AJK Pameran INATEX 2006
- AJK Malam Penghargaan IPTA
- IPTA R & D Expo 2005 (Setiausaha JKK Pamerandan Anugerah peringkat Universiti)
- PIBG Sekolah Kebangsaan Taman Sri Pulai, 2005 –now
- PIBG Tadika Didik Al-Insan, 2005 – now
- AJK Masjid Taman Sri Pulai Perdana
- Ahli Biro Latihan dan akademik BKRMCM, 2006
- Post Prosiding IPTA R & D Expo 2005
- AJK INATEX 2004
- Amalan 5S RMC 2006-2007 (AJK BilikArkib)
- JK Pemandu PDDL, RMC
- AJK Seminar RAFSS 2004, Ibnu Sina Institute, 2004

REFEREES

1. ASSOC. PROF. DR. WAN MUHAMAD SARIDAN WAN HASSAN
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Universiti Teknologi Malaysia
81310, Skudai, Johor,
Malaysia
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3. PROF. DR. ZULKAFI OTHAMAN (PhD Supervisor)
IbnuSina Institute for Fundamental Studies,

Universiti Teknologi Malaysia
81310, Skudai, Johor,
Malaysia
Tel: 607-5534189/ 019-7758001
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UTM Razak School,
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Email: ybw@utm.my