

RESEARCHER'S BACKGROUND	
Name	Prof. Madya Ir. Dr. Haslenda Hashim
Faculty	Faculty of Science
Research Interest	<ol style="list-style-type: none"> 1. Low Carbon Society 2. Systems Engineering 3. Renewable Energy 4. Waste to Energy
Research Entity	<ol style="list-style-type: none"> 1. Head of Green Energy and Environmental Planning (GREEN) 2. Full Member of Process Systems Engineering Centre (PROSPECT)
UTM Administrative Post(if any)	Deputy Director of Process Systems Engineering Centre (PROSPECT)
Professional Post (if any)	<ol style="list-style-type: none"> 1. Member of Board of Engineer Malaysia (Membership No.: 50478A) 2. Chartered Engineer of the Institution of Chemical Engineers, UK (Membership No.: 99928872) 3. Fellow of the Institution of Chemical Engineers, UK (Membership No.: 99928872) 4. Expert/Specialist for Training Module of Asean Energy Management Schemes (AEMAS) 5. Certified Green Energy Auditor of Department of Energy (DOE) 6. Certified Energy Trainer of Asean Energy Management Schemes (AEMAS) 7. Registered Electrical Energy Manager (REEM) 8. Head of Waste to Resources: Energy or Materials of H.A.Z.E Task Force – Akademi Sains Malaysia 9. Exco of “Outreach Programme”, Young Scientist Network (YSN) – Akademi Sains Malaysia 10. Member of Young Scientist Network (YSN) – Akademi Sains Malaysia 11. Biomass/Biogas Verifier under Feed-in-tariff Mechanism for Sustainable Energy Development Authority (SEDA) Malaysia

RESEARCH PROFILE	
Publication	Total Publication in Scopus/WOS = 117 <ul style="list-style-type: none"> • Chapter = 4 • Article/Review = 87 • Conference Paper = 25 • Editorial = 1
Citation	1096
H-index	18
Intellectual property rights	Patents <ol style="list-style-type: none"> 1. PI 2010 001190 - Methods of Synthesizing Electricity Generation Fleet 2. PI 2010 003171 - A Method of Optimizing Electricity Generation Capacity 3. PI 2011 002943 - System and Method for Optimizing by-Product in An Industry and Reduce Waste Disposal 4. PI 2014 002964 - A Simulated Based Programming for Rainwater Harversting 5. PI 2014 002777 - A Method Integrated Distributed Energy Application System 6. PI 2014 003610 - A Method of Municipal Waste Management System 7. PI 2015 000719 - A Method of Electrical Power Grid Management System 8. PI 2014 002499 - A Safety Assessment Method

	<p>9. PI 2015 002151 - A Hazard Identification Technique</p> <p>Copyrights</p> <ol style="list-style-type: none"> 1. ©2012/6/1371 - Lisa dan Beg Ziplock 2. ©2012/7/1372 - Lisa dan Tong Kitar Semula 3. ©2012/8/1373 - Lisa dan Emas Hitam 4. ©2014/301/2858 - Graphical and Numerical Descriptive (Grand) Software for Inherent Safety Assessment in Petrochemical Industry during Research and Development Stage of Process Design 5. ©2014/376/2934 - Integrated Electricity Planning (INTEP) 6. ©2014/377/2935 - Tailor-Made Green Diesel Blends Design Framework 7. ©2014/378/2936 - A Method of Integrated Distributed Energy Application System (IDEAS) 8. ©2014/391/2949 - Green Office Management System 9. ©2014/392/2950 - Development of Green Industry Rating System (GIRS) for Palm Oil Mill Industry 10. ©2014/393/2951 - Environmental Monitoring System(Web Based) 11. ©2014/394/2952 - Framework of Integrated Industrial Carbon Accounting and Mitigation (INCAM) 12. ©2014/396/2954 - Solid Waste Management Resource Recovery Tool (SMART) 13. ©2014/397/2955 - 2-Dimesional Graphycal Rating (2DGR) for Inherent Safety Assessment 14. ©2014/399/2957 - Systematic Methodology for Design of Tailor-Made Biofuel Blends 15. ©2014/398/2956 - Fugitive Emissions Solution (FEMSOL) - A Novel Systematic Tool for Fugitive Emission Mitigation Towrds Sustainable Process Development 16. ©2015/517/3507 - Industrial System Performance and Environmental Comprehensive Tools (INSPECT)
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RESEARCH SUPERVISION	
Completed	<ul style="list-style-type: none"> • PhD:13 • MSc: 9
Current	<ul style="list-style-type: none"> • PhD: 12 • MSc: 2

AWARDS & RECOGNITIONS	
2015	<p>: International</p> <ul style="list-style-type: none"> - Silver Award - International Conference and Exposition on Invention of Institutions of Higher Learning (PECIPTA2015) Title: Graphical and Numerical Descriptive Technique for Inherent Safety Assessment (GRAND) - Finalist for IChemE Global Award 2015 – Category: Process Safety Award Title: Graphical and Numerical Descriptive Technique for Inherent Safety Assessment (GRAND) <p>National</p> <ul style="list-style-type: none"> - Finalist for IChemE Malaysia Award 2015 – Category: Process Safety Award Title: Graphical and Numerical Descriptive Technique for Inherent Safety Assessment (GRAND) - Silver Award – Invention, Innovation an Design Exposition (IIDEX2015) <p>University</p> <ul style="list-style-type: none"> - Research Award – The Best Researcher, Anugerah Citra Karisma 2015

- 2014 : **International**
- Finalist for IChemE Global Award 2014 – Category: Sustainable Technology Award
Title: Integrated Distributed Energy Application Software (IDEAS)
- National**
- Winner for IChemE Malaysia Award 2014 – Category: Sustainable Technology Award
Title: Integrated Distributed Energy Application Software (IDEAS)
- University**
- UTM Publication Award
 - The Best Consultation Award (UTM)
- 2013 : **International**
- Gold Medal - Seoul International Invention Fair (SIIF 2013)
Title: Solid Waste Management Resource Recovery Tool (SMART)
 - Gold Medal - Seoul International Invention Fair (SIIF 2013)
Title: Integrated Distributed Energy Analysis System (IDEAS)
 - Bronze Medal - Seoul International Invention Fair (SIIF 2013)
Title: An Efficient Planning Tool for Integrated Electricity Generation Towards Sustainable Development, INTEP
- National**
- Silver Medal - Malaysia Technology Expo (MTE2013)
Title: Integrated Distributed Energy Analysis System (IDEAS)
 - Silver Medal - Malaysia Technology Expo (MTE2013)
Title: Solid Waste Management Resource Recovery Tool (SMART)
 - Winner for IChemE Malaysia Award 2013 – Category: Education and Training Award
- 2012 : **National**
- Gold Medal - Malaysia Technology Expo (MTE2012)
Title: An Efficient Planning Tool for Integrated Electricity Generation Towards Sustainable Development
 - Gold Medal - Malaysia Technology Expo (MTE2012)
Title: A Novel Systematic Tool for Fugitive Emissions Mitigation Towards Sustainable Process Development
- University**
- UTM Publication Award
 - Silver Medal - Industrial Art and Technology Exhibition (INATEX 2012)
Title: Integrated Distributed Energy Analysis System (IDEAS)
 - Bronze Medal - Industrial Art and Technology Exhibition (INATEX 2012)
Title: Solid Waste Management Resource Recovery Tool (SMART)
- 2011 : **University**
- UTM Publication Award
 - Silver Medal - Industrial Art and Technology Exhibition (INATEX 2011)
Title: An Efficient Planning Tool for Integrated Electricity Generation Towards Sustainable Development
 - Silver Medal - Industrial Art and Technology Exhibition (INATEX 2011)
Title: A Novel Systematic Tool for Fugitive Emissions Mitigation Towards Sustainable Process Development
 - Bronze Medal - Industrial Art and Technology Exhibition (INATEX 2011)
Title: A Novel Tool to Design Cost Effective Minimum Water Network For Industries and Urban Buildings

CONTRIBUTIONS

Keynote Speakers

1. 19th Conference in Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction (PRES2016), 27-31 August 2016, Prague, Czech Republic – Keynote Speaker
2. 10th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), 27 Nov-2 Oct 2015, Dubrovnic, Croatia – Keynote Speaker
3. Process System Engineering (PSE) Asia 2013, Kuala Lumpur – Keynote Speaker
4. International Conference on Sustainable Energy and Development for Future Generation, 11-13 July 2012, Makassar, Indonesia

Invited Speakers

1. Workshop on Carbon Capture and Utilisation, Newton Fund, 6-8 February 2017, Pullman Hotel, K.Lumpur
2. 4th Symposium JICA-JST Project, Sustainable Integration of Local Agriculture and Biomass Industries, 12 Dec 2013, Ho Chi Minh, Vietnam
3. Environmental Awareness, 26 Aug 2015, Universiti Teknikal Malaysia Melaka (UTEM)
4. 1st Carbon Capture Storage Workshop, 9 October 2013, Impiana Hotel Kuala Lumpur
5. UMCares Community Exchange & Summit, 2014, University Malaya, Kuala Lumpur
6. Carbon Capture Seminar, 14 June 2012, TNB Research Bangi
7. Energy from Agricultural Biomass Workshop, Energy Institute Malaysia, Marriott Hotel, Kuala Lumpur
8. Probiorefine Workshop, 7-8 Dec 2015, UTM Johor Bahru
9. Summer Course 2010: Sustainable Production – Practising Life Cycle Assessment (LCA), UTM Johor Bahru
10. Summer School 2011: Sustainable Technologies for Agro Waste Management (SS14), UTM Johor Bahru

Editors

1. Co-Chair - 2nd International Conference of Low Carbon Asia & Beyond (2015 & 2016)
2. Editorial Board - Malaysian Journal of Industrial Technology, UniKL (2015)
3. Editorial Board - International Journal of Green Technology (2015)
4. Special Guest Editor - Cleaner Production (2015)
5. Special Guest Editor - Clean Technology Energy Policy (CTEP) (2015)
6. Chief Editor - Efficient System for Sustainability, UTM Press (2009)
7. Editor - Malaysian Journal of Engineering Education (MJEE) (2007 – 2009)

CONTACT

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