

BIODATA

TS. DR. TINIA IDATY MOHD. GHAZI FMSET, P. TECH

Chemical and Environmental Engineering



QUALIFICATION

Academic

- Diploma, Industrial Chemistry, ITM Shah Alam, Selangor, Malaysia
- B.Eng. (Hons), Chemical Process Engineering & Fuel Technology, University of Sheffield, United Kingdom
- Ph.D., Chemical Engineering, University of Cambridge, United Kingdom

Professional

- Fellow, Malaysian Society for Engineering and Technology (MySET)
- Professional Technologist, Malaysia Board of Technologists (MBOT)

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Office (MySET) : 019-3258754
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SCOPUS ID : 36239011900

CONSULTANCIES AND COLLABORATION

- Recovery of raw material and utilisation of sludge from Latex Product Manufacturing Industry as Residue Derived Fuel, Malaysian Rubber Board
- Gas treatment and storage of Landfill Gas (LFG), Smart Partnership between KLIUC – UNITEN - UPM (Energy Group)
- Treatment of domestic wastewater using anaerobic biofilm process for nutrient removal, Smart Partnership between KLIUC – UNITEN - UPM (Water Group)
- Production of biogas from cattle manure at NFC Feedlot, Gemas, Negeri Sembilan, National Feedlot Corporation (NFC) Sdn. Bhd.
- International Consultancy on Biodiesel and Bio-Oleochemical Project, OLEON NV, Brussel, Belgium
- International Collaboration on production of biogas from animal and agro wastes by a two-stage anaerobic digesters and thermal method for Euro Funding Application, Leibniz Research Institute for Agricultural Engineering, Germany
- Awareness seminar and workshop for Wireless Sensor Network (WSN), Ministry of Communication and Multimedia, Malaysia
- Workshop on Wireless Sensor Network Application, Ministry of Communication and Multimedia, Malaysia
- Vermicomposting - Anaerobic Digestion for 'Bandar Hijau Serdang', Majlis Perbandaran Subang Jaya (MPSJ), Ministry of Housing and Local Government (KPKT), Universiti Putra Malaysia
- Community Project on Biogas Production, Cameron Highland, Pakar Go Green Sdn. Bhd., Malaysia
- *Kajian penyeragaman sistem pengolahan efluen dalam pengurusan sisa penternakan di bawah "Projek perintis (Demonstration Project) bagi penyeragaman sistem pengolahan efluen dalam pengurusan buangan ternakan"*, Department of Environment and Pakar Management Technology (M) Sdn. Bhd.

WORK EXPERIENCE

Position/Employment

- Associate Professor, Universiti Putra Malaysia, UPM (current)
- Engineering Assistant Supervisor, KIER Sheffield LLP, Sheffield, United Kingdom (2003 – 2005)
- ESD & Contamination Control Engineer II, Seagate Industries (M) Sdn. Bhd., Malaysia (1996 - 1999)

Appointment

- Secretary General, Malaysian Society for Engineering and Technology (MySET)
- Head, Safety Engineering and Reliability Research Group (SER), UPM
- Head of Green Technology Laboratory, UPM

Expertise/Specialisation

- Chemical Engineering
- Photochemical Technology
- Renewable Energy
- Wastewater Treatment
- Process Safety and Loss Prevention

Major Research Projects

- Detoxification of Water and Removal of Pollutants in Hazardous Effluent by Oscillatory Flow Mixing, MOSTI
- Production of Biodiesel and Biolubricant Oil by Oscillatory Flow Mixing, MOSTI
- Innovative Technology in the Production of Biogas from Animal Waste, MOSTI
- Investigation of Chemical and Biological Pre-treatment for Enhanced Biogas Production by Anaerobic Digestion of Cattle Manure, UPM
- Biochar in Agriculture – Perspectives for Germany and Malaysia, European Funding – Joint Initiative for Research and Innovation
- Study o Human Error from Incident Investigation in Upstream Facilities
- Formation of Enhanced Information to Public (ITP) Guidance based on Major Hazard Installations (MHI)

BRIEF BIODATA

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Dr. Tinia Idaty Mohd. Ghazi is an Associate Professor in the Department of Chemical and Environmental Engineering, Faculty of Engineering at the Universiti Putra Malaysia (UPM). She successfully obtained a Doctorate of Philosophy (Ph.D.) in Chemical Engineering from the University of Cambridge, United Kingdom in 2005. At current, Dr. Tinia is active in her researches concerning the process safety and loss prevention, renewable energy, wastewater treatment and photochemical technology. She has written for reputable, well-known journals in her primary study fields. She has been actively working with the public authority and governmental sectors for the knowledge transfer and community projects. In addition, Dr. Tinia is also enthusiastically involved with the students' soft skills development initiatives and the community engagement. She has been a committed member since 2008, then became a fellow (FMSET) and is currently the Secretary General of the Malaysian Society for Engineering and Technology (MySET) since 2015. Her dedication to planning and directing events has encouraged the professional community to make advantage of the robust platform to share knowledge and expertise.