NIK NOOR IDAYU BINTI NIK IBRAHIM

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EDUCATION

April 2014 – April 2017	Doctor of Philosophy (Science) *Universiti Teknologi MARA, Shah Alam, Selangor*
2010 - 2014	Master of Science (by research) *Universiti Teknologi MARA, Shah Alam, Selangor*
2007 - 2010	Bachelor in Polymer Technology (Hons) *Universiti Teknologi MARA, Shah Alam, Selangor* *CGPA: 3.46*
2006 - 2007	Negeri Sembilan Matriculation College
2005	Sijil Pelajaran Malaysia (SPM) – Science Stream (Technical Drawing and Engineering Technology) *SMK Kamil, Pasir Puteh, Kelantan*

RESEARCH WORKS

PhD Thesis	The Characterization of Glass Fibre Reinforced Unsaturated Polyester Filled with P84 Polyimide/Multi-wall Carbon Nanotubes (MWCNT) Hybrid Composites
Master Thesis	The Properties Of Polyimide P84 (Pi) Powder Filled Thermoplastic Vulcanizate (TPV)
Bachelor Degree Final Year Project	Final Year Project entitled "To Design a User Friendly Desk Organizer". Designing a souvenir; a Desk Organizer and its mould using Computer Aided Design (CAD) software (Alibre Design). The design was then simulated using Computer Aided Engineering (CAE) software (CADMOULD) to analyze its processability.

ACHIEVEMENTS

1. Invention, Innovation & Design Exposition UiTM (IIDEX), 2017 – Silver.
2. Invention, Innovation & Design Exposition UiTM (IIDEX), 2018 – Bronze.
3. "Graduate on Time" Award for PhD at the 87th Convocation Ceremony, Oct 2017.
4. "Excellence Research Award" for PhD, at the 87th Convocation Ceremony, Oct 2017.
5. "Graduate on Time" Award for PhD at Malam Anugerah Pascasiswazah (MAP) Fakulti Sains Gunaan, 2017.
6. Debater for Premier Debate for Philosophy of Science.
7. Participant of 10TH Asian Conference on Analytical Sciences (ASIANALYSIS X) 2009/SKAM 22/QSEL 4 at Putra World Trade Centre, PWTC.
8. Seminar and Workshop of "Polymerization Technology and Coating Formulations" at Applied Science Faculty, UiTM.
9. Receiver of Dean List Award for achieving GPA 3.65 in fourth semester.
10. Receiver of Dean List Award for achieving GPA 3.61 in fifth semester.
11. Receiver of Dean List Award for achieving GPA 3.87 in sixth semester.

AREA OF INTEREST

1. Polymer composites (Thermoplastic & thermoset system)
2. Hybrid reinforcement (particles & synthetic fibres)
3. Mechanical behavior of plastic and elastomer (Tensile, flexural, compression, dynamic mechanical)
4. Thermal behavior of plastic and elastomers (TGA, DSC, activation energy)
5. Morphological analysis (optical microscope, SEM)
6. 3D Modelling and simulation (Solidworks, AutoCAD, CADMould)

PROJECTS

1. The Physical Modification of Glass Fibre Reinforced Unsaturated Polyester Composites with the Addition of P84 Polyimide and Multi-wall Carbon Nanotubes for Pipelines Applications.
2. Physico-mechanical and Thermal Properties of Epoxy/Unsaturated Polyester Hybrid Matrix System
3. Physico-mechanical and Thermal Properties of Epoxy Filled with P84 Polyimide Composites for Thermal Resistance and Strength Enhancement.
4. Characterizations of Microbearing Construction for Acetabular Cup From Epoxy Filled UHMW PE/PTFE/Nylon Microbeads Polymer Composite

PUBLICATIONS

1. Mechanical Properties of Three Layer Glass Fibre Reinforced Unsaturated Polyester Filled with P84 Polyimide, *Advanced Materials for Sustainability and Growth,* AIP Conference Proceedings 1901, 030009 (2017).
2. The Effect of Masterbatch Technique on the Properties of the Unsaturated Polyester filled with P84 Polyimide and MWCNT Hybrid Composites, AIP Conference Proceedings 1885, 020022 (2017).
3. Mechanical Properties of One Layer and Seven Layer Glass Fibre Reinforced Unsaturated Polyester Filled with P84 Polyimide (AIP Conference Proceedings 1985, 030008 (2018); doi: 10.1063/1.5047166, Published by the American Institute of Physics)
4. The relationship between hardness to the tensile properties of kenaf/ unsaturated polyester composite, AIP Conference Proceedings 1901, 030001 (2017).
5. Compressive Properties Of Three Layers Glass Fibre Reinforced Unsaturated Polyester Filled With P84 Polyimide Composite, Technical Bulletin, Polymer Composites Research & Technology, Vol. 1 Issue 3&4, 2016.