Ts Dr. Judith Gisip

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EDUCATION

North Carolina State University, Raleigh, North Carolina, USA
Ph.D. in Forest Biomaterials **2015**
Dissertation: "Improvement of Wood-Based Machining Operations on a CNC Router through Extending Tool Life"

Purdue University, West Lafayette, Indiana, USA
M.S. in Wood Science and Technology **2005**
Thesis: "Effects of Cryogenic Treatment and Tool Cooling on Tool Wear When Machining Medium Density Fiberboard"

Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
B.S. in Furniture Technology **2002**

Universiti Teknologi MARA, Jengka, Pahang, Malaysia
Diploma in Wood Industry **1999**

POSITIONS AND EMPLOYMENT

Universiti Teknologi MARA, Malaysia
Chairman, *Jawatankuasa Penilaian Teknikal Perabot Kolej Kediaman UiTM* **Jan 2020 – Dec 2021**

Office of International Affairs, Universiti Teknologi MARA, Malaysia
Coordinator, International Student & Development **2018 – 2020**

Faculty of Applied Sciences, Universiti Teknologi MARA, Malaysia
Senior Lecturer **2010 – Present**

Faculty of Applied Sciences, Universiti Teknologi MARA, Malaysia
Program Coordinator, Bio-Composite Technology and Textile Technology Programme **2015 – 2017**

Faculty of Applied Sciences, Universiti Teknologi MARA, Malaysia
Lecturer **2005 – 2010**

RESEARCH EXPERIENCE

Department of Forest Biomaterials, North Carolina State University, USA **2009 - 2012**
Graduate Research Assistant

Department of Forestry and Natural Resources, Purdue University, USA **2003 - 2005**
Research Assistant

TEACHING EXPERIENCE

Technology Entrepreneurship
Environmental Science
CAD/CAE/CAM for Technologist
Structure and Identification of Cellulosic Materials
Introduction to CAD/CAE/CAM
Deterioration & Protection of Bio-Composite Materials
Technical Drawing
Wood Properties
Environmental Protection
Wood Processing
Wood Composite

GRANTS & RESEARCH

The Organology of Traditional Malay Rebab: Sonic Identification through Numerical Simulation on Vibro-Acoustics Characteristic **2018 – 2019**

Fundamental Research Grant Scheme, *Ministry of Higher Education Malaysia*, Member **2014 – 2016**
"Characterization and Properties of Cassava Stem in Relation to Its Adhesive Bonding Performance"

Fundamental Research Grant Scheme, *Ministry of Higher Education Malaysia*, Project Leader **2007 – 2009**
"Machining Properties of Petai Belalang (*Leucaena leucocephala*) from Untended Stands"

HONORS, AWARDS, AND ACHIEVEMENTS

Service Excellence Award, *Universiti Teknologi MARA* **2016**
Graduate Research Assistantship, *North Carolina State University, USA* **2009 - 2012**
Bronze Medal Award, Invention, Innovation & Design (IID 2009), *Universiti Teknologi MARA, "Portabelle"* **2009**
Bronze Medal Award, Inventions, Innovations and Designs (IID 2008), *Universiti Teknologi MARA, "Lightweight Furniture from Petai Belalang Timber"* **2008**
Honorable Mention, Graduate Poster Award Master's Level, *Purdue University, USA* **2005**
Bill and Helen Swain Forest Products Award, *Purdue University, USA* **2005**
Graduate Research Assistantship, *Purdue University, USA* **2005**

PROFESSIONAL MEMBERSHIPS

Malaysia Board of Technologist (MBOT), Professional Technologist **2019 - current**

International Union of Forest Research Organizations (IUFRO), **2019 - current**
Coordinator, Unit 5.04.13 – Industrial Engineering, Operations Analysis and Logistics

SELECTED PUBLICATIONS

Book and Chapter in a Book

Rado Gazo, **Judith Gisip**, and Harold A. Stewart. (2011). Chapter 3. Reducing Tool Wear by Cryogenic Treatment and Cooling with Refrigerated Air when Processing Medium Density Fiberboard. In J. P. Davim (Ed.) Wood Machining (pp. 83-111). London: ISTE Ltd, New Jersey: John Wiley & Sons, Inc. ISBN 978-1-84821-315-9.

Peer-Reviewed Articles in Journals

Zainab Mohd Noor, Asmahan Abd. Razak, **Judith Gisip**, and Masria Mustafa**.** 2020. Impact of Participating AIMS Student Mobility Programme: A UiTM Perspective. Akademika (Special Issue), Vol 90, No 2 (2020). ISSN: 0126-5008, eISSN: 0126-8694.

Nur Liyana Aifa Mahammad Asri, Ainil Idzaty Mohamed Anwar, Nur Atiqah Najib, and **Gisip, J.** 2019. Mechanical and Physical Properties of Particleboard from Untreated and Treated Kenaf Particles. Scientific Research Journal. 16(1). DOI: 10.24191/srj.v16i1.5531.

Gisip, J., Gazo, R., and H. A. Stewart. 2009. Effects of Cryogenic Treatment and Refrigerated Air on Tool Wear When Machining Medium Density Fiberboard. Journal of Materials Processing Technology. 209(11): 5117-5122.

Gisip, J., Gazo, R., and H. A. Stewart. 2007. Effects of Refrigerated Air on Tool Wear. Journal of Wood and Fiber Science. Volume 39, Number 3.

Conference Proceedings

Siti Maisarah Che Abdullah, Mohd Nazip Suratman, and **Judith Gisip**. 2016. Stand Structure and Floristic Composition of Fragmented Freshwater Swamp Forests in Malaysia. Proceedings of Second International Conference on Science, Engineering & Environment. The GEOMATE International Society. Osaka City, Japan. p.147-152. ISBN 978-4-9905958-7-6 C3051.

Gisip, J., and Lemaster, R.L. 2015. Extending Tool Life through Feedback Control Technique. Proceeding of the 22nd International Wood Machining Seminar. Quebec City, Canada. p.275-282.

Published Research Abstracts

Gisip, J., and Lemaster, R.L. 2015. Application of Feedback Control Technique for Extending Tool Life in Wood-Based Machining Operations. 10th Annual NC State University Graduate Student Research Symposium. Raleigh, NC. Abstract p. 59. March 25.