



# CURRICULUM VITAE

## PROF. DR. MANSUR AHMAD

Bio-Composite Technology Program  
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|--------------------------------|---|
| Ic Number                      | ▪ 630228-01-5505  |
| Date of birth                  | ▪ February 28, 1963.  |
| Place of birth                 | ▪ Batu Pahat, Johor, Malaysia   |
| Gender                         | ▪ Male  |
| Marital status                 | ▪ Married   |
| <b>PERSONAL DATA:</b>          |   |
| <b>EDUCATION</b>               |   |
| August 1997-<br>August 2000    | ▪ Ph.D (Forest Products and Wood Sciences)<br>Virginia Polytechnic Institute and State<br>University, Blacksburg, Virginia, USA |
|                                | ▪ Dissertation: Analysis of Calcutta Bamboo for<br>Structural Composite Materials.  |
|                                | ▪ Major Advisor: Prof. Dr. Fred A. Kamke.   |
| August 1987 -<br>December 1988 | ▪ M.Sc (Forest and Wood Sciences)<br>Colorado State University, Fort Collins, Colorado,<br>USA                                  |
|                                | ▪ Thesis: Design and Manufacturing of Glued<br>Laminated Timber   |
|                                | ▪ Major Advisor: Prof. Dr. Patrick J. Pellicane   |
| January 1986 -<br>May 1987     | ▪ B.Sc (Wood Science and Technology)<br>University of Maine, Orono, Maine, USA  |
| July 1981 - May<br>1985        | ▪ Diploma in Wood Technology<br>Universiti Teknologi MARA,<br>40450 Shah Alam, Selangor, Malaysia.                              |

## PROFESSIONAL EXPERIENCE

September 2006 –  
Present

- Lecturer  
B.Sc. (Hons.) Bio-Composite Technology
  - Taught four subjects (Nano-based Composite, Statics and Strength of Materials for Bio-Composite Technology, Structural Design using Bio-Composite Materials and Strength Laboratory of Bio-Composite Materials).

March 2016 –  
February 2019

- Research member  
Topic: Nanocomposite Material and Industrial Application  
Research Group. Research Grant under Research Entity Initiatives (REI) for Research Interest Group (RIG Tier 5)  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM32,000
  - Assist in increasing research in Nanocomposite materials.

December 2010 –  
December 2013

- Head Researcher  
Topic: Properties of Glued-Laminated Beams using Different Grades of Mengkulang (*Heritiera* spp.), Kelat (*Syzygium* spp.) and Kapur (*Dryobalanops aromatica*)  
Research Grant under Fundamental Research Grant Scheme (FRGS)  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM47,000
  - Designed and conducted experiment for the strength properties, physical properties, finger joint strength and adhesive penetration.
  - Designed and conducted experiment for the strength properties of glued laminated lumber for several Malaysian timbers.

January 2010 –  
May 2013

- Head Researcher  
Topic: Analysis of Screw Fixing Failure Mode and Screw Joint Strength for P2 Type kitchen Cabinet Particleboard Panel. Research grant under 'Dana Kecemerlangan UiTM.'  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM6,000

- Designed and conducted experiment for the strength properties and mechanical properties of different types of screw joints
  - Designed and conducted experiment for screw joints failure modes
  
- January 2011 –  
January 2013

  - Head Researcher  
Topic: Analysis and Design of Glued Laminated Beams using Different Grades Malaysian Medium Hardwood. Research grant under ‘ Dana Kecemerlangan UiTM.  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM8,000
  - Designed and conducted experiment for the strength properties and mechanical grading of lumber.
    - Designed and conducted experiment for the strength properties of glued laminated lumber for different grades of several Malaysian timbers.
  
- November 2008 –  
June 2010

  - Acting Head of Program  
B.Sc. (Hons.) Furniture Technology  
Faculty of Applied Sciences  
UiTM, 40450 Shah Alam, Selangor, Malaysia.
  
- January 2006 –  
June 2010

  - Head of Program  
B.Sc. (Hons.) Bio-Composite Technology  
Faculty of Applied Sciences  
UiTM, 40450 Shah Alam, Selangor, Malaysia.
  - Management and administration of the program
    - Responsible of the program curriculum review
    - Responsible of the program accreditation.
  
- November 2000 –  
June 2010

  - Lecturer  
B.Sc. (Hons.) Furniture Technology
  - Taught six subjects (Wood Composite, Environmental Protection, Furniture Strength and Testing, Special Topics and Strength of Materials.

January 2006 –  
April 2010

- Head Researcher  
Topic: The Analysis of Physical and Mechanical Properties of Engineered Built-Up Column Using Betong Bamboo (*Dendrocalamus asper*).  
Research Grant under ScienceFund RMK-9.  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM196,000
  - Designed and conducted experiment for the strength properties, physical properties and surface characteristics of Buloh Betong.
  - Designed and conducted experiment for the strength properties of bamboo built-up column.

December 2005 –  
December 2006

- Teaching Timber Engineering (ECS 735) at Faculty of Civil Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia.

February 2006 and  
March 2006

- Lecture on Research Methodology and Presentation Skills for Universiti Teknologi MARA graduate students.

July 2004 – June  
2009

- Head Researcher  
Topic: Development and Design of Structural Composite Lumber from Malaysia Bamboo.  
Research Grant under Intensified Research Priority Areas Malaysia (IRPA)  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM146,000
  - Designed and conducted experiment for the strength properties, physical properties and surface characteristics of Buloh Semantan, Betong and Beting.
  - Designed and conducted experiment for the strength properties of bamboo composite materials

January 2003 –  
December 2005

- Head of Research (Science and Technology) Institute of Research, Development and Commercialization (IRDC), Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia.
  - Management and administration of science, technology and engineering research in UiTM
  - Institution coordinator for IRPA grant
  - Event Manager for Conference on Social

Science and Science and Technology  
Research (CSSR 2004)

- Committee member for CSSR 2003, CSSR 2005 and CSSR 2006
- Chairperson of IRDC Journals for 2003
- Auditor of IRDC Journals for 2005
- Auditor of CSSR proceedings

January 2003 –  
December 2004

- Head Researcher  
Topic: Impact of Forest Certification to Wood-Based Industry in Malaysia.  
Short Term Grant from UiTM  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM15,000
  - Designed and conducted experiment for the impact of Forest Chain Custody to consumer and wood based-industry

January 2002 –  
May 2003

- Head Researcher  
Topic: Mode of Failure of Semantan Bamboo Loaded in Compression, Tension, Shear and Bending.  
Short Term Grant from UiTM  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: RM20,000
  - Designed and conducted experiment for the strength properties, physical properties and surface characteristics of Buloh Semantan,
  - Designed and conducted experiment for the failure behavior of Semantan bamboo.

December 1998 –  
March 2000

- Research Assistant (Student Payroll)  
Brooks Forest Product Center  
Virginia Tech, Blacksburg, Virginia, USA
  - Organized and prepared testing samples  
Mechanical testing of Oriented Strand Board made from Yellow Poplar.  
Experimental work on dielectric properties of Yellow Poplar and Logepole Pine

January 2002 –  
December 2002

- Head Program  
B.Sc. (Hons.) Furniture Technology  
Faculty of Applied Sciences  
Universiti Teknologi MARA, Shah Alam,  
Malaysia.

- Management and administration of the program
- Responsible of the setting up of three (3) laboratory for the program (Material Properties Laboratory (B409), CAD/CAM/Design Laboratory (B407/B408) and Bio-Fiber Composite Laboratory (B2222))
- Responsible of the up-grading of workshops and laboratory (208 and 210)

January 1995 –  
June 1997

- Head Researcher  
Topic: Glued Laminated Timber from Light Red Meranti.  
Research Grant under Intensified Research Priority Areas Malaysia (IRPA)  
Universiti Teknologi MARA  
40450 Shah Alam, Selangor, Malaysia.  
Grant amount: 219,000

- Designed and conducted experiment for the strength of structural finger-jointed lumber made from Light Red Meranti using phenol resorcinol formaldehyde adhesive.
- Designed and conducted experiment for the strength properties of glued laminated timber made from Light Red Meranti using phenol resorcinol formaldehyde adhesive.

February 1989 –  
June 1997

- Lecturer  
Diploma in Wood Industry

- Taught four subjects (Wood Mechanics, Timber Structure, Adhesive/adhesion and Environmental Protection in timber industry) and one laboratory (Wood properties) section for undergraduate introductory wood science and technology courses.

July 1995 – June  
1997

- Head Department  
Diploma in Wood Industry  
Faculty of Applied Sciences  
Universiti Teknologi MARA, Shah Alam, Malaysia

- Management and administration of the program
- Responsible of the program curriculum review
- Responsible of the program name changed from Diploma in Wood Technology to

- Diploma in Wood Industry
- Responsible of the reduction from four (4) year to a three (3) year program

### Journal Publications/Conference Proceedings/Presentations

**Mansur Ahmad**, Syaiful Osman, M. Nazarudin Zakaria. Assesment of Bamboo as Sustainable Biomass Resource: Physicochemical Evaluation of Four Common Malaysian Bamboo Variants. Submitted on 24/8/2017 for review to Journal of Wood Science and Technology

Zawawi Ibrahim and **Mansur Ahmad**. Properties of Chemically Treated Oil Palm Empty Fruit Bunch (EFB) Fibres. Submitted on 1/8/2017 for review to Journal of Wood Schemistry and Technology. Submitted on 7/9/2017 for review to Journal of Cleaner Production

Syaiful Osman, **Mansur Ahmad**. Formulation of Clean and Sustainable Phenolic Adhesives Using Lignin from Malaysian Bamboo Extracted via Soda Pulping Method/

Syaiful Osman, **Mansur Ahmad**. Chemical and Thermal Characterization of Malaysian Bamboo Lignin (Beting and Semantan) Extracted Via Soda Pulping Method. Submitted for Review for American Institute of Physic conference proceedings

**Mansur Ahmad** (2016). Assessment of Bonding Surface Performance: Penetration of Liquid Phenol Formaldehyde at Different Moisture Content, Direction and Section in Male Bamboo, Asean Bamboo Symposium (ABS2016), PWTC, Kuala Lumpur.

M Khairuddin, N Nadia, **M Ahmad**, M Ayob, N Atiqah (2016). Effects of Board Density and Thickness on Properties of Laminated Floor Panel from Kenaf (*Hibiscus cannabinus*) High Density Fibreboard (KHDF). Advanced Materials Research 1134, Pg 1-5

Zawawi Ibrahim, **Mansur Ahmad**, Astimar Abdul Aziz, ridzuan Ramli, Mohd Ariff Jamaludin, Suhaimi Muhammed, Aisyah Humaira Alias (2016). Dimensional Stability Properties of Medium Density Fibreboard (MDF) from Treated Oil Palm (*elaeis guineensis*) Empty Fruit Bunch (EFB) Fobres. Open Journal of Composite Materials 2016, 6, 91-99

M Ayob, N Atiqah, **M Ahmad**, M Khairuddin, N Nadia (2016). Water Resistance and Tensile Strength of High Density Polyethylene (HDPE) Composites. *Advanced Materials Research* 1134, Pp 34-38

Nur Hasmiza Abdul Hamid, **Mansur Ahmad**, Mohd Nazip Suratman and Falah Abu (2016). Bending Strength of Finger Jointed Kelat Wood (*Syzygium spp.*) as Affected by Finger Length and Orientation . *Advanced Materials Research Vols* 1134 (2016) pp 138-142

Zawawi Ibrahim, Kamaruzaman Jusoh, **Mansur Ahmad** and Mohd Ariff Jamaludin (2015). Effect of Treatment on the Oil Content and Surface Morphology of Oil Palm (*Elaeis guineensis*) Empty Fruit Bunch (EFB) Fibres. *Wood Research. Vols* 60 (1) 2015 pp 157-166

**M Ahmad**, M Ayob, N Atiqah, M Khairuddin (2015), N Nadia. Accelerated Aging Cycle of Composite Reinforced High Density Polyethylene (HDPE) Roofing Panel. *Applied Mechanics and Materials* 799, Pp 192-195

**M Ahmad**, M Khairuddin, N Nadia, M Ayob, N Atiqah (2015). Impact Strength of Laminated Floor Panel from Kenaf (*Hibiscus cannabinus*) High Density Fibreboard. *Applied Mechanics and Materials* 799, Pp 201-204

Falah Abu, **Mansur Ahmad** (2015). Effects of Screw Insertion on Screw Withdrawal Strength. *International Journal of Advanced and Applied Sciences*, 2(12) 2015, Pages: 25-29

MF Saptri, K Nordin, MA Jamaludin, **M Ahmad**, NAA Rahman (2014). Static bending properties of microwave modified oil palm trunk lumber. *Advanced Materials and Information Technology Processing* 87, 183

Falah Abu, **Mansur Ahmad** (2014). Screw Fixing Fracture and Fatigue Failure on Particleboard Surface using Different Style of Screw Insertion Technique *Applied Mechanics and Materials*, Vol 607 (2014) pp 454-457

Falah Abu, **Mansur Ahmad** (2014). Effects of Chipboard Screw Sizes to the Presence of Failure by using Different Screw Insertion Techniques. *Journal of Applied Science and Agriculture*, 9(11) Special 2014, Pages: 33-37



M Siti Zalifah, S Abd Hamid, K Izran, **A Mansur**, S Mohd Nazip (2013). Adhesive penetration in laminated oil palm trunk vender. *Journal of Tropical Forest Science* 25(4): 467-474 (2013)

Nur Hasmiza Abdul Hamid, **Mansur Ahmad**, Mohd Nazip Suratman, Muhamad Nizam Azhar, Nor Athirah Mohamad Rosli (2013). Adhesive Bonding Strength and Adhesive Penetration of Two Malaysian Medium Hardwoods *Advanced Materials Research Vols 748* (2013) pp 170-174

Nur Hasmiza Abdul Hamid, **Mansur Ahmad**, Mohd Nazip Suratman (2013). Bending and Compression Properties of Malaysian Medium Hardwood in Orthotropic Directions Kelat (*Syzygium spp.*). *Applied Mechanics and Materials Vols 330* (2013). Pp 938-941

Noor Zuraida Jusoh, **Mansur Ahmad**, Ibrahim Azmi (2013). Study on Compressive Strength of semantan Bamboo Culm (*Gigantochloa scortechinii*). *Advanced Materials Research Vols 330* (2013) pp 96-100

Noor Zuraida Jusoh, Abdul Muhaimin Zakaria, **Mansur Ahmad**, Ibrahim Azmi (2013). Thermal Conductivity of Akar Bamboo (*Dendracalamus pendulus*) and Semantan Bamboo (*Gigantochloa scortechinii*). *Advanced Materials Research Vols 748* (2013) pp-160-164

Syaiful Osman, **Mansur Ahmad** (2013). Flexural and Impact Properties of Bamboo-Aluminum Sandwich Composites. *Advanced Materials Research Vols 608-609* (2013) pp 1728-1731

Falah Abu and **Mansur Ahmad** (2012). Assessment on Screw Fixing Failure Mode for Kitchen Cabinet Particleboard. *Advanced Materials Research Vols. 463-464* (2012) pp 577-581

Mohd Nazip Suratman, Mazlin Kusin, Shaikh Abdul Karim Yamani, Kamarudin Saleh, Mansur Ahmad dan Shahril Anuar Bahari. (2012) Chapter in book Titled: Tree Species Diversity of Kuala Keniam, Taman Negara National Park Pahang. Universiti Teknologi MARA Press.

**Ahmad M.** and Kamke F.A.(2011). Properties of parallel strand lumber from Calcutta bamboo (*Dendrocalamus strictus*). *Wood Sci.Technol* 45: 63-72.

Shahril Anuar Bahari and **Mansur Ahmad** (2011). Failure mode of Semantan Bamboo loaded in bending and shear. Key Eng. Materials Vols 462-463 pp 1176-1181

**Mansur Ahmad** and Syaiful Osman (2011). Study on bonding strength of bamboo/bamboo unidirectional laminate with UF and PF Adhesive: Effect of pressing time on adhesive bonding strength. 18th INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS (ICCM18) Conference Proceedings Page P4-52

Falah Abu and **Mansur Ahmad** (2011). Physical Properties of Particleboard Exposed to the Kitchen Environment in Selected Areas of Kuala Lumpur and Selangor

Nur Hasmiza Abdul Hamid, **Mansur Ahmad** and Mohd. Nazip Suratman (2011). Swelling and Shrinkage Characteristics of Kapur (*Dryobalanops aromatica*) Wood in Three Anatomical Directions

Falah Abu and **Mansur Ahmad** (2011). Screw-Fixing Damages and Screw-Holding Performance in Particleboard Exposed to the Kitchen Environment in the Selected Area of Kuala Lumpur and Selangor.

Mohd Nazip Suratman, Mazlin Kusin, Shaikh Abdul Karim Yamani Zakaria, Kamarudin Saleh, **Mansur Ahmad** and Shahril Anuar Bahari (2010). Stand Structure and Species Diversity of Keniam Forest, Pahang National Park

S.A. Bahari, **M. Ahmad**, K. Nordin and M. A. Jamaludin (2010). Analysis on strength behavior of Malaysian bamboo species. American Institute of Physics (AIP) Conference Proceedings. Volume 1217, pp. 462 -466

Shahril Anuar Bahari, Mohd Ariff Jamaludin, **Mansur Ahmad**, Siti Aidaliza Subardi, Mohamad Jani Saad & Kamarulzaman Nordin. (2008). Characterization on bending strength of binderless bamboo fibreboard (bbf). *Proceeding of 9<sup>th</sup> Pacific Rim Bio-Based Composites Symposium 2008*. Published by CSIRO and SCION, New Zealand. Pp. 238 - 246.

S. A. Bahari, M. A. Jamaludin, **M. Ahmad**, K. Nordin & M. J. Saad. (2008). Characterization on mechanical and physical behaviour of natural particle-based composite material made from *gigantochloa scortechinii*. Research Abstract. 2<sup>nd</sup>

*International Conference on Functional Materials and Devices 2008 (ICFMD 2008)*. Published by Faculty of Applied Sciences UiTM Malaysia and Institute of Materials Malaysia (IMM).

Shahril Anuar Bahari, Mohd Ariff Jamaludin, **Mansur Ahmad**, Mohamad Jani Saad, Kamarulzaman Nordin & Siti Aidaliza Subardi. (2008). Binderless bamboo fibreboard: a preliminary study. Research Abstract. *Rattan and Bamboo Seminar 2008*. Published by Forest Research Institute Malaysia (FRIM).

Shahril Anuar Bahari, Mohamad Jani Saad, Mohd Ariff Jamaludin, **Mansur Ahmad**, Kamarulzaman Nordin & Mohd Ikram Ariffin. (2008). Effects of different resin types and resin content levels on mechanical and physical properties of particleboard made from semantan bamboo (*gigantochloa scortechinii*). Research Abstract. *Rattan and Bamboo Seminar 2008*. Published by Forest Research Institute Malaysia (FRIM).

Shahril Anuar B., Mohd Ariff J., **Mansur A.**, Kamarulzaman N. & Tony B. (2007). Mechanical properties of laminated bamboo strips lumber (lbsl) in comparison to solid rubberwood. *Conference on Forestry and Forest Products Research 2007 (CFFPR 2007)*. Published by Forest Research Institute Malaysia (FRIM). Pp. 82.

Shahril Anuar B., **Mansur A.**, Mohd Ariff J., Mohamad Jani S., Kamarulzaman N. & Mohd Ikram A. (2007). Effect of resin content levels on mechanical and physical properties of single-layered bamboo particleboard. *Conference on Forestry and Forest Products Research 2007 (CFFPR 2007)*. Published by Forest Research Institute Malaysia (FRIM). Pp. 82.

Shahril Anuar Bahari, **Mansur Ahmad**, Mohd Ariff Jamaludin, Kamarulzaman Nordin & Mohd Ikram Ariffin. (2007). Potential of bamboo as an alternative raw material through production of bio-composite panelboard for light weight interior construction uses. *Proceeding of International Panel Products Symposium 2007 (IPPS 2007)*. Published by The Biocomposite Centre, Bangor University. ISBN 978-1-84220-097-1. Pp. 319 – 326.

Shahril Anuar Bahari, Mohd Ariff Jamaludin, **Mansur Ahmad**, Kamarulzaman Nordin and Hafizah Samsudin. (2007). Laminated bamboo strip lumber (lbsl). *Proceeding of International Panel Products Symposium 2007 (IPPS 2007)*. Published by The Biocomposite Centre, Bangor University. ISBN 978-1-84220-097-1. Pp. 327 – 332.

S. A. Bahari, **M. Ahmad**, K. Nordin & M. A. Jamaludin. (2007). Tensile mechanics of bamboo strips. *International Conference on Advancement of Materials and Nanotechnology (ICAMN 2007). Materials and Devices: Innovative Research into the 21<sup>st</sup> Century*. Published by University Publication Centre (UPENA) Universiti Teknologi MARA (UiTM). ISBN 978-983-3644-95-7. Pp. 101.

Shahril Anuar Bahari, **Mansur Ahmad**, Kamarulzaman Nordin & Mohd Ariff Jamaludin. (2007). Analysis on strength behaviour of malaysian bamboo species. *International Conference on Advancement of Materials and Nanotechnology (ICAMN 2007). Materials and Devices: Innovative Research into the 21<sup>st</sup> Century*. Published by University Publication Centre (UPENA) Universiti Teknologi MARA (UiTM). ISBN 978-983-3644-95-7. Pp. 225.

**Ahmad M.** and Kamke F.A. 2005. Analysis of Calcutta bamboo for structural composite materials: physical and mechanical properties. *Wood Sci Technology* (39) 448-459

Kamarulzaman Nordin, Hashim W. Samsi, **Mansur Ahmad** and Mohd Ariff Jamaludin. 2004 – Improved Properties of Oil Palm Trunk (OPT) Laminated Veneer Lumber (LVL) Through the Inclusion of Rubberwood Veneers. *Science Letters*. Vol (1), Issue 1 2004. Faculty of Applied Science, UiTM, Shah Alam.

**Ahmad M.** and Kamke F.A. 2003 – Analysis of Calcutta bamboo for structural composite materials: surface characteristics. *Wood Sci. Technol* 37 (2003) 233 – 240.

Nordin K., Jamaludin M.A., **Ahmad M.** and Samsi H.W. 2004. Minimizing the environmental burden of oil palm trunk residues through the development of laminated veneer lumber products. *Management of environmental quality: An international journal*, Vol.15 No.5. 484-490

**Mansur Ahmad**, Suhaimi Muhamed, Mohd Salleh Mohd Nor & Kamarulzaman Nordin. 1998. The Strength of Finger Joints in three Malaysian timbers – meranti, kempas, and keruing. *Journal of Tropical Forest Products* Vol. 3 (2): 158-164.

**Mansur Ahmad.** 2005. Surface Characteristics of Calcutta bamboo. Seminar IRPA. Hotel Marriott, Putrajaya. 26-27 February.

**Mansur Ahmad**, Frederick A. Kamke. 2005. Bamboo as a construction material: strength analysis of parallel strand lumber from calcutta bamboo. *Inter American Conference on Non-Conventional Materials and Technologies in Ecological and Sustainable Construction. IAC-NOCMAT 2005*, 11 – 15. November 2005, Rio de Janeiro, Brazil.

**Mansur Ahmad**, Mohd Nazarudin Zakaria and Kamarulzaman Nordin. 2005. Failure mode and microscopic failure of round bamboo (*dendrocalamus asper*) loaded in compression and shear. XXII IUFRO (International Union of Forest Research Organizations) World Congress on 8–13 August 2005, Brisbane Australia.

**Mansur Ahmad** , Shahril Anuar Bahari, and Mohd. Ariff Jamaludin. 2005. Failure mode and microscopic failure of *dendrocalamus asper* (bamboo: buloh betong) loaded in tension and compression. XXII IUFRO (International Union of Forest Research Organizations) World Congress on 8–13 August 2005, Brisbane Australia.

Jamaludin, M.A., **Ahmad, M.**, Nordin, K. 2005. Strength of 25 and 35° pitch metal plate connected laminated veneer lumber (LVL) from bintangor. XXII IUFRO (International Union of Forest Research Organizations) World Congress on 8–13 August 2005, Brisbane Australia.

Jamaludin, M.A., Nordin, K., **Ahmad, M.** 2005. Strength properties of engineered I-joists made from laminated veneer lumber, solid wood, oriented strand board, and plywood. XXII IUFRO (International Union of Forest Research Organizations) World Congress on 8–13 August 2005, Brisbane Australia.

**Ahmad M.** and Kamke F.A. 2004. Wettability and pH value related to Gluability of Calcutta bamboo. International conference on Environmentally-compatible forest products. 1<sup>st</sup> conference. 22–24 september 2004. Oporto, Portugal. Pp357–364

Nordin K., Jamaludin M.A., **Ahmad M.** and Samsi H.W. 2004. Minimizing the environmental burden of oil palm trunk residues through the development of laminated veneer lumber products. International conference on Environmentally-compatible forest products. 1<sup>st</sup> conference. 22–24 september 2004. Oporto, Portugal. Pp 123–130

Jamaludin M.A., **Ahmad M.** Nordin K., and A.R.A.Bosman. 2004. Interlaminar Shear Strength of Multi-Layered Oriented Strength Board from Plantation Species. International conference on Environmentally-compatible forest products. 1<sup>st</sup> conference. 22–24 september 2004. Oporto, Portugal. Pp 365–370

Bahari S.A. and **Ahmad M.** 2004. Failure Modes and Strength Behavior of *Dendrocalamus Asper* (Buluh Betong) Loaded In Tension. Proceeding of the CSSR 2004, Kuching, Sarawak. May 19– 21, 2004.

Zakaria M.N. and **Ahmad M.** 2004. Fracture Characteristic and Microscopic Failure of Round Bamboo Loaded in Compression. Proceeding of the CSSR 2004, Kuching, Sarawak. May 19– 21, 2004.

Norizan. A.M. and **Ahmad M.** 2004. The Impact of Chain of Custody Certification (Forest Stewardship Council) on Malaysian Wood-Based Industry. Proceeding of the CSSR 2004, Kuching, Sarawak. May 19- 21, 2004.

Bahari S.A and **Ahmad M.** 2004. Mode of Failure and strength properties of small clear specimens of *Dendrocalamus asper* and *Gigantochloa scortechinii* loaded in tension. 3rd USM-Jircas joint international symposium. 9-11 March 2004. Penang, Malaysia

Zakaria M.N.,**Ahmad M.** and K.Nordin. 2004. Fracture Characteristics Of Round Bamboo (*Dendrocalamus Asper*) Loaded in Compression. Proceeding of the Seminar of National Science, Technology and social Science. Kuantan, Pahang. May 31- 1 Jun, 2004.

Bahari S.A., **Ahmad M.** and M.A.Jamaludin. 2004. Microscopic Failure of *Dendrocalamus Asper* (Buluh Betong) Loaded In Tension. Proceeding of the Seminar of National Science, Technology and social Science. Kuantan, Pahang. May 31- 1 Jun, 2004.

Zakaria M.N. and **Ahmad M.** 2004 Fracture characteristics and microscopic failure of solid round bamboo (*Dendrocalamus asper* and *Gigantochloa scortechinii*) loaded in tension. 3rd USM-Jircas joint international symposium. 9- 11 March 2004. Penang, Malaysia.

Azharizan M.N. and **Ahmad M.** 2004. Impact of Chain of Custody and Forest Certification to Malaysian Wood Industry. 3rd USM-Jircas joint international symposium. 9-11 March 2004. Penang, Malaysia.

Kamarulzaman Nordin, **Mansur Ahmad** and Suhaini Ali. 2002 - Adhesive Wettability of Four Malaysia Wood Species. Proceeding of the Seminar of National Science, Technology and social Science. Kuantan, Pahang. May 27- 28

Kamarulzaman Nordin, Hashim W. Samsi, **Mansur Ahmad**, Nazaliah Eastehada Mohd Noah & Kamaruddin Jamin. 2002. Laminated Veneer Lumber (LVL) from Oil Palm Trunk. Paper presented at the Faculty of Applied Science Seminar Series, Shah Alam, Selangor.

**Mansur Ahmad** and Suhaimi Muhammed. - Structural Finger Jointed Lumber from Light Red Meranti. Iktisar Jilid 3, Bil 2 1996. Page 17-22

**Mansur Ahmad**, Mohd Salleh Mohd Noh and Wan Mahmood W.A.Majid. 1996. Glue laminated Timber Beam in Light Red Meranti. Proceeding of the International Wood Engineering. Conference (IWEC) in New Orleans, Louisiana, USA, Oct 28&31

**Mansur Ahmad** and Suhaimi Muhammed. - An Assessment of the Strength of Finger Joints in Meranti and Kempas. BRC Journal, Vol 3 No.3 December 1995. Page 89

Y.E.Tan, **Mansur Ahmad** and Mohd.Zamin Jumat.1992. Use of Light Red Meranti for Structural Glulam in Malaysia. Proceeding of the 2<sup>nd</sup> CIB/W18B International Conference on Tropical and Hardwood Timber Structure. Kuala Lumpur, Malaysia. Sept 7-10

## Reports

**Ahmad, M.** and N.Hashim. 2004 The Impact of Chain Custody Certification (Forest Stewardship Council) on Malaysian Wood-Based Industry. A report to the Institute of Research, Development and Commercialization. 50pp.

**Ahmad, M.**, K.Nordin and R. Ali. 2004. Mode of Failure and Microscopic Failure of Malaysian Bamboo Loaded in Tension and Bending. A report to the Institute of Research, Development and Commercialization. 50pp.

Mohammed S., M.N.Suratman, S.A.K.Yamani and **Ahmad, M.**1999. **Wood Quality Indicators in Rubberwood (*Heavea Brasiliensis*)** A report to the Bureau of Research and Consultation. 63 pp

**Ahmad, M.**, M.S.Mohd Noh, W.M.Wan Abd. Majid, Mohammed S., M.N.Suratman, and C.H.Woo.1997. Glued Laminated Timber Beam from Light Red Meranti (*Shorea spp.*). A report to the Bureau of Research and Consultation. An Intensified Research Priority Areas (IRPA) research grant. 50pp.

C. F. Woo, S. Muhammed, **Ahmad M.** 1996 Tensile And Bending Strength Of Malaysian Timbers. A report to the Bureau of Research and Consultation. An Intensified Research Priority Areas (IRPA) research grant.

## SEMINAS/CONFERENCES ATTENDED

ASEAN Bamboo Symposium 2016 (ABS 2016). Role: Planery speaker. 27-29 Sept 2016. Organizer: UiTM, FRIM, MTIB, STIDC FITEC (Malaysia)

International Conference on Science, Technology and Management. Role: Presenter. 14 Mai 2016. Organizer: ICSTM2016

International Conference on Material and Manufacturing Technology (ICMMT 2015). Role: Presenter. 9-11 Mei 2015. Organizer: ICMMT

International Polymer Technology Conference and Exhibition 2013. Role: Presenter. 16-17 April 2013. Organizer: Universiti Teknologi MARA (UiTM) dan Institut Tenaga Malaysia (InTeM) dan IEEE

Seminar on Green Composite 2012 (SGC 2012). Role: Chairman. 9 November 2012. Organizer: Society of Materials Science (JSMS) and Biocomposite Technology Program, Universiti Teknologi Mara, Malaysia.

IPTA Research & Development Exposition 2012. Role: Committee member and session chairperson. 9–12 Oktober 2012. Organizer: Ministry of Education (MOE) and local Public Universities in Malaysia.

International Symposium on Forest Environments and Low Carbon Growth. Role: Presenter. 16 Oktober 2012. Organizer: College of Forest and Environmental Sciences, Kangwon National University

2012 2nd International Conference on Advanced Material Research, Chengdu, China. Role: Presenter. 7–9 Jan 2012. Organizer: IACSIT & Singapore Institute of Electronic

3rd International Symposium & Exhibition on Sustainable Energy & Environment (3rd ISESEE 2011). Role: Presenter. 1–3 Jun 2011. Organizer: Universiti Teknologi MARA (UiTM) dan Institut Tenaga Malaysia (InTeM) dan IEEE

XXIII IUFRO World Congress, Seoul, Korea. Role: Presenter. 26 Ogos 2010. Organizer: The International Union of Forest Research Organization

The 18th International Conference on Composite materials, South Korea. Role: Presenter. 2011. Organizer: ICCM

7th Pacific Regional Wood Anatomy Conference, Kuala Lumpur Malaysia. Role: Committee member and Presenter. 3–5 Ogos 2009. Orgaizer: Universiti Putra Malaysia, Malaysia and International Association of Wood Anatomy..

Seminar IRPA 2006 Role: Committee member and Presenter. 26–29 Jun 2006 . Organizer: Research Management Institute, Universiti Teknoogi MARA, Malaysia. (RMI)



Inter American Conference on Non-Conventional Materials and Technologies in Ecological and Sustainable Construction. IAC-NOCMAT 2005, Rio de Janeiro, Brazil. Role: Presenter. 11 – 15. November 2005. Organizer: ABMTENC

XXII IUFRO World Congress August 2005, Brisbane, Australia. Role: Presenter. August 2005. Organizer: The International Union of Forest Research Organization

Seminar IRPA 2005 Role: Committee member and Presenter. 26-27 Februari 2005. Organizer: Research Management Institute, Universiti Teknoogi MARA, Malaysia. (RMI)

International conference on Environmentally-compatible forest products. 1st conference 2004. Oporto, Portugal. Role: Presenter. 22-24 September 2004. Organizer: Fernando Pessoa University, Oporto, Portugal.

Seminar Conference on Scientific and Social Research 2004 (CSSR 2004). Role: Presenter. 19-21 Mei 2004. Organizer: Research Management Institute, Universiti Teknoogi MARA, Malaysia. (RMI)

3rd USM -JIRCAS Joint International Symposium. Role: Presenter. 1 March 2004. Organizer:Universiti Sains Malaysia and Forestry and Forest Products Research Institute, Japan (FFPRI)

‘ Pameran Penyelidikan dan Pembangunan IPTA 2003’ . Role: Session Chairperson. 9-12 Oktober 2003. Organizer: Universiti Putra Malaysia, Kementerian Pendidikan Malaysia dan Institusi Pengajian Tinggi Awam

Conference on Scientific and Social Research 2003 (CSSR 2003). Role: Session Chairperson. 26-27 Ogos 2003. Organizer: Research Management Institute, Universiti Teknoogi MARA, Malaysia. (RMI)

#### **ACTIVITIES:**

Attended the National Bamboo Retreat: Designing the Future Timber Industry with Bamboo. Organizer: Malaysian Timber Industry Board (MTIB). 16 November 2016.

Caloboration between Faculty of Applied Sciences, Universiti Teknologi MARA and Faculty of Renewable Materials and Environment, Kangwoon National University based on existing MOU/MOA. Januari 2013

Join Seminars and Linkage between Universiti Teknologi MARA and Yamaguchi University with Japanese Society of Materials Sciences (JSMS). Seminar Green Composite 2012

Members of Malaysian Bamboo society. 2016 to present

Member of Malaysian Forest Products Society (MFPS). 2006 to 2008

Chairperson of “ Jawatankuasa Pengiktirafan” Bio-Composite Technology Program which was approved in April 2009.

Chairperson of Set-up Committee for new Program (Bio-Composite Technology Program) was first offered on July 2006

Advisor for student association of Furniture Technology. November 2008 – present

Advisor for student association of Bio-Composite Technology. 2006 – present

Students Advisory Member for Furniture Technology program. 2000 – 2005

President of Malaysian Student Association at Virginia Tech, January 1998 – 1999.

### **Research/Proposals Funded**

Nanocomposite Material and Industrial Application Research Group.  
Investigator(s): Mohd Nazarudin Zakaria (Head), Siti Norasmah Surip, Noor Najmi Bonia, Mimi Azlina Abu Bakar dan **Mansur Ahmad**.  
Sponsor: Research Group. Research Grant under Research Entity Initiatives (REI) for Research Interest Group (RIG Tier 5)  
Amount: \$32,000  
3/2013 – 2/2019

Optimizing Creativity and Internal Expertise to Design and Execute Repair of Kuala Keniam UiTM-Perhilitan Research Station – Labeling of Forest Trees and Station..

Investigator(s): Norrizah Jaafar Sidik (Head), Mohd Nazip Suratman, Asmida Ismail, **Mansur Ahmad, Rozana Mohd Dahan, Faizah Pardi and Shahril Anuar Bahari..**

Sponsor: Geran Membaiki Stesen Penyelidikan UiTM-Perhilitan Kuala Keniam, Taman Negara, Pahang. (Research Station Refurbishment and Repair Grant of

University Teknologi MARA and Department of Wildlife and National Parks of  
Kualan Keniam, Taman Negara, Pahang.

Amount: \$50,000

7/2017 – 12/2017

Fracture Strength of Screw Fixing on Particleboard Due to Over Screw.

Investigator(s): Falah bin Abu (Head), **Mansur Ahmad** dan Nazarudin

Sponsor: Dana Pembudayaan Penyelidikan (RAGS)

Amount: \$80,000

10/2013 – 9/2015

Quality Assessment of Kitchen Cabinet Particleboard Panel Fixing.

Investigator(s): Falah bin Abu (Head) dan **Mansur Ahmad**

Sponsor: Dana Kecemerlangan UiTM

Amount: \$10,000

10/2012 – 9/2014

Propertis of Glued-Laminated Beams using Different Grades of Mengkulang  
(Heritiera spp.), Kelat (Syzygium spp.) and Kapur (Dryobalanops aromatica)

Investigator(s): **Mansur Ahmad** (Head) dan Mohd Nazip Suratman

Sponsor: Fundamental Research Grant Scheme (FRGS)

Amount: \$47,000

12/2010 – 12/2013

Analysis of Screw Fixing Failure Mode and Screw Joint Strength for P2 Type  
kitchen Cabinet Particleboard Panel.

Investigator(s): **Mansur Ahmad** (Head) dan Falah bin Abu

Sponsor: Dana Kecemerlangan UiTM

Amount: \$6,000

6/2010 – 5/2013

Development of Bamboo Brick as a Lightweight Construction Material.

Investigator(s): **Mansur Ahmad** (Head)

Sponsor: Dana Kecemerlangan UiTM

Amount: \$8,000

1/2011 – 1/2013

Analysis and Design of Glued Laminated Beams using Different Grades  
Malaysian Medium Hardwood.

Investigator(s): **Mansur Ahmad** (Head) dan Falah bin Abu

Sponsor: Dana Kecemerlangan UiTM

Amount: \$8,000  
1/2011 – 1/2013

Fundamental studies on the fabrication of non-modified epoxy adhesive with the added of nanoclay.

Investigator(s): Siti Norasmah Surip (Head), **Mansur Ahmad**, Rahmah Mohd, Syed Yusainee Yahya.

Sponsor: Fundamental Research Grant Scheme (FRGS)

Amount: \$78,000  
5/2008 – 5/2010

Tree Species Diversity of Kuala Keniam, Taman Negara Pahang.

Investigator(s): Nazip Suratman (Head), **Mansur Ahmad**, Judith Gisip, Shahril Anuar Bahari, Suriana Rofie@Rafie, Azrena Abdul Karim, Mazlin Kusin

Sponsor: Fundamental Research Grant Scheme (FRGS)

Amount: \$60,000  
3/2007 – 2/2009

The Forest Tree Disease Symptoms in Relation to its Vegetative Characteristics in Kuala Keniam, Taman Negara Pahang

Investigator(s): **Mansur Ahmad** (Head), Mohd Nazip Suratman, Shahril Anuar Bahari & Suriana Rofie

Sponsor: Fundamental Research Grant Scheme (FRGS)

Amount: \$50,000  
3/2007 – 2/2009

Mechanical Properties of Laminated Bamboo Strips Lumber (LBSL) as a Linear Framing Material for Small Construction

Investigator(s): Shahril Anuar Bahari (Head), Mohd Ariff Jamaludin & **Mansur Ahmad**

Sponsor: Fundamental Research Grant Scheme (FRGS)

Amount: \$31,000  
1/2007 – 1/2009

Utilization of Pioneer Forest Species in the Production of Environmental-Friendly Inorganic Bonded Bio-Composite Panels.

Investigator(s): Razali Abdul Kader (Head), Mohd Ariff Jamaludin, **Mansur Ahmad** & Shahril Anuar Bahari

Sponsor: Fundamental Research Grant Scheme (FRGS)

Amount: \$40,000  
1/2007 – 1/2009

Machining Properties of Petai Belalang (*Leucaena leucocephala*) from Untended Stands.

Investigator(s): Judith Gisip (Head), Roslan Ali, Mohd Nazip Suratman and **Mansur Ahmad**, Azrena Abd. Karim, Mohd. Nazip Suratman and Suriana Rofei@Rafei .

Sponsor: Fundamental Research Grant Scheme (FRGS)

Amount: \$40,000

5/2007 – 4/2008

The Analysis of Physical and Mechanical Properties of Engineered Built-Up Column Using Betong Bamboo (*Dendrocalamus asper*).

Investigator(s): **Mansur Ahmad** (Head), Mohd. Ariff Jamaluddin, Shahril Anuar Bahari

Azrena Abd. Karim, Mohd. Nazip Suratman and Suriana Rofei@Rafei .

Sponsor: Science Fund, MOSTI (RMK-9)

Amount: \$196,000

12/2006 – 4/2010

Evaluation on Mechanical and Physical Properties of Particle-Based Composite Panel Board Made From Agro-Industrial Waste Materials

Shahril Anuar Bahari (Project Leader), **Mansur Ahmad** & Mohd Ariff Jamaludin  
Dana Kecemerlangan UiTM

Mechanical Properties of Laminated Bamboo Strips Lumber (LBSL) as a Linear Framing Material for Small Construction

Shahril Anuar Bahari (Project Leader), Mohd Ariff Jamaludin & **Mansur Ahmad**

Fundamental Research Grant Scheme (FRGS)

Ministry of Higher Education Malaysia

Strength and Performance Properties of Environmental-Friendly Sandwich Panel Using Binderless Bamboo Medium Density Fiberboard (bBMDF) as Core Material

Shahril Anuar Bahari (Project Leader), Mohd Ariff Jamaludin, **Mansur Ahmad** & Azrena Abdul Karim

Fundamental Research Grant Scheme (FRGS)

Ministry of Higher Education Malaysia

Amount: \$8,000

1/2007 – 1/2009

Utilization of Pioneer Forest Species in the Production of Environmental-Friendly Inorganic Bonded Bio-Composite Panels

Razali Abdul Kader (Project Leader), Mohd Ariff Jamaludin, **Mansur Ahmad** & Shahril Anuar Bahari

Fundamental Research Grant Scheme (FRGS)  
Ministry of Higher Education Malaysia

Development and Design of Structural Composite Lumber Using Malaysian Bamboo

Investigator(s): **Mansur Ahmad** (Head), Kamarulzaman Nordin, Mohd. Ariff Jamaluddin, Mohd. Tarmizi Mustafa (FRIM)  
Sponsor: IRPA Grant, MOSTI (RMK-8)  
Amount: \$146,000  
7/2004 - 6/2007

Bending Strength and Failure Characteristics of Different Types of Reconstructed Bamboo Floor Joist

Investigator(s): Mohd Ariff Jamaludin (Head), Kamatulzaman Nordin and **Mansur Ahmad**,  
Sponsor: Ministry of Education  
Amount: \$50,000  
10/2003 - 9/2004

Computer-Aided Tool for Wood Identification of Malaysian Timbers.

Investigator(s): Kamatulzaman Nordin(Head) Mohd Ariff Jamaludin,  
**Mansur Ahmad**, Sponsor: Ministry of Education  
Amount: \$21,640  
1/2002 - 5/2003

Mode of Failure and Microscopic Failure of Malaysian Bamboo under Bending and Tension Loading.

Investigator(s): **Mansur Ahmad** (Head), Mohd Ariff Jamaludin, Kamatulzaman Nordin  
Sponsor: Ministry of Education  
Amount: \$20,000  
1/2002 - 5/2003

The Impact Of Chain Custody Certification (Forest Stewardship Council) On Malaysian Wood-Based Industry.

Investigator(s):**Mansur Ahmad** (Head), Norcahaya Hashim (MTIB)  
Sponsor:Ministry of Education  
Amount:&15,000  
1993-1994

Wood Quality Indicators in Rubberwood (Hevea Brasiliensis)

Investigator(s):Suhaimi Muhammad (Head), **Mansur Ahmad**, Mohd Hamami Sahri, Mohd Nazip Suratman  
Sponsor:IRPA  
Amount:\$25,000  
1995-1998

Glued Laminated Timber Beam From Light Red Meranti (Shorea Spp)

Investigator(s): **Mansur Ahmad** (Head),Ir Mohd Salleh Mohd Nof, Prof. Ir.Dr.

W.Mahmood W.Abd Majid, Chen Fung Woo, Mohd Nazip Suratman  
Sponsor:IRPA Grant (RMK-5)  
Amount: \$219,000  
7/1995 - 7/1997

Tensile And Bending Strength Of Malaysian Timbers  
Investigator(s): Chen Fung Woo (Head), Dr. Suhaimi Muhammed, **Mansur Ahmad**  
Sponsor: Ministry of Education  
Amount: \$43,730  
1990-1996

## Awards and Honors

### Gold Medal Award

“ Green Phenolic Resins from Semantan Bamboo ”

**Mansur Ahmad** & Syaiful Osman.

Scientific Research Invention, Innovation Competition 2017, Faculty of Applied Sciences, UiTM, Malaysia

15<sup>th</sup> August 2017

### Penghargaan Profesionalisma (Pro-Pen) Universiti Teknologi MARA (University Professionalism Award)

2016

### Penghargaan Profesionalisma (Pro-Pen) Universiti Teknologi MARA (University Professionalism Award)

2014

### Penghargaan Pengajaran Cemerlang untuk SUFO (Student Feedback Online) Universiti Teknologi MARA

2013

### Anugerah khidmat cemerlang Universiti Teknologi MARA (University Outstanding Service Award)

2012

Attended Symposium Kangwoon National University. ( Sponsored on Flight ticket and Hotel by Kangwoon National University, South Korea. Feb 2012

### Silver Medal Award

“ Sandwich Panel:An Eco-Friendly Product ”

Rosmarliyana Zainol Abidin, Mohd Nazip Suratman & Mansur Ahmad  
Invention, Innovation and Design 2009, UiTM, Malaysia

13 – 15 January 2009

**Bronze Medal Award (Materials Category)**

“ Binderless Bamboo Fibre-Based Composite for Indoor Construction Material”  
Shahril Anuar Bahari (Project Leader), Mohd Ariff Jamaludin, **Mansur Ahmad**,  
Kamarulzaman Nordin & Mohamad Jani Saad  
19<sup>th</sup> International Invention, Innovation and Technology Exhibition (ITEX) 2008  
Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur, Malaysia  
9 – 10 May 2008

**Gold Medal Award (Building and Construction Materials Category)**

“ Bio-Composite Panel Board Made From Bamboo Particle”  
Shahril Anuar Bahari (Project Leader), Mohd Ariff Jamaludin, Kamarulzaman  
Nordin, **Mansur Ahmad** & Mohamad Jani Saad  
36<sup>th</sup> International Exhibition of Inventions, New Techniques and Products 2008  
Swiss Federal Government  
Geneva Palexpo, Geneva, Switzerland  
2 – 6 April 2008

**Ecology-Friendly Award from International Ecology Fund**

“ Particleboard Made From Bamboo Skin Waste”  
Kamarulzaman Nordin (Project Leader), Shahril Anuar Bahari, Mohd Ariff  
Jamaludin & **Mansur Ahmad**  
11<sup>th</sup> Moscow International Salon of Industrial Property “ Archimedes” 2008  
Cultural-Exhibition Centre "Sokolniki", Moscow, Russia  
1 – 4 April 2008

**Gold Medal Award (Invention Category)**

“ *Bimboard*”  
Shahril Anuar Bahari (Project Leader), Mohd Ariff Jamaludin, **Mansur Ahmad**,  
Mohamad Jani Saad, Kamarulzaman Nordin & Siti Aidaliza Subardi  
Inventions, Innovations and Designs (IID) 2008  
Institute of Research, Development and Commercialization (IRDC), UiTM  
Malaysia  
Sri Budiman Hall, UiTM Malaysia  
25 – 27 March 2008

**Bronze Medal Award (Invention Category)**

“ Bamboo Scaffolding”  
Shahril Anuar Bahari (Project Leader), Mohd Nazarudin Zakaria, Mohd Ariff  
Jamaludin, **Mansur Ahmad** & Kamarulzaman Nordin



Inventions, Innovations and Designs (IID) 2008  
Institute of Research, Development and Commercialization (IRDC), UiTM  
Malaysia  
Sri Budiman Hall, UiTM Malaysia  
25 – 27 March 2008

**Silver Medal Award**

“ Bio-Composite Panel Board Made From Bamboo Particles”  
Shahril Anuar Bahari, Mohd Ariff Jamaludin, Kamarulzaman Nordin, **Mansur Ahmad** & Mohd Ikram Ariffin  
18<sup>th</sup> International Invention, Innovation, Industrial Design and Technology  
Exhibition (ITEX) 2006, Kuala Lumpur Convention Centre (KLCC), Kuala  
Lumpur, Malaysia  
18 – 20 May 2007

**Bronze Medal Award**

“ Model of Macroscopic and Microscopic Failures of Malaysian Bamboo Species  
under Mechanical Load”  
Shahril Anuar Bahari, **Mansur Ahmad**, Kamarulzaman Nordin & Mohd Ariff  
Jamaludin  
18<sup>th</sup> International Invention, Innovation, Industrial Design and Technology  
Exhibition (ITEX) 2006, Kuala Lumpur Convention Centre (KLCC), Kuala  
Lumpur, Malaysia  
18 – 20 May 2007

**Bronze Medal Award**

“ Bending Strength Properties of Bamboo Strips”  
Shahril Anuar Bahari, **Mansur Ahmad**, Kamarulzaman Nordin & Mohd Ariff  
Jamaludin  
18<sup>th</sup> International Invention, Innovation, Industrial Design and Technology  
Exhibition (ITEX) 2006, Kuala Lumpur Convention Centre (KLCC), Kuala  
Lumpur, Malaysia  
18 – 20 May 2007

**Bronze Medal Award**

“ Potential of Bamboo as an Alternative Raw Material through Production of  
Bio-Composite Panel Board for Interior Construction Uses”  
Shahril Anuar Bahari, Mohd Ikram Ariffin, **Mansur Ahmad** & Kamarulzaman  
Nordin  
Inventions, Innovations and Designs (IID) 2007, Sri Budiman Hall, UiTM, Shah  
Alam, Malaysia

24 – 25 January 2007

**Bronze Medal Award**

“ Model of Macroscopic and Microscopic Failures of Malaysian Bamboo Species under Mechanical Load”

Shahril Anuar Bahari, Mansur Ahmad, Kamarulzaman Nordin & Mohd Ariff Jamaludin

Inventions, Innovations and Designs (IID) 2007, Sri Budiman Hall, UiTM, Shah Alam, Malaysia

24 – 25 January 2007

**Bronze Medal Award**

“ Effect of Culm Height Levels and Node Presence on Maximum Bending Stress of Semantan Bamboo (*Gigantochloa Scortechinii*) Strips”

Shahril Anuar Bahari, **Mansur Ahmad**, Kamarulzaman Nordin & Mohd Ariff Jamaludin

Inventions, Innovations and Designs (IID) 2007, Sri Budiman Hall, UiTM, Shah Alam, Malaysia

24 – 25 January 2007

**Gold Medal (Invention)**

Invention, Innovation and Design Competition (IID 2007), Universiti Teknologi MARA, 40450 Shah Alam, Selangor

**Bronze Medal** in IID 2006. Failure properties of Betong Bamboo strips loaded in Bending. 19–20 January 2006

**Best Exhibition (“ Booth Terbaik” )** at Seminar IRPA 2005 at Hotel Merriott, Putrajaya. 25–27 February 2005.

**Bronze Medal** in “ Pameran Penyelidikan dan Pembangunan IPTA 2005. 30 Oct – 2 Nov 2005 at PWTC.

**Bronze Medal** for invention at I-TEX 2005. 19–21 May 2005. PWTC Kuala Lumpur.

Invitation and Attended) Asia Science & Lab (R7D0 Instrument Exhibition in South Korea KOTRA, Korean Government Trade Representative 21–24 April 2004

Academic Visit to UK. Grants awards by JPbSM for international linkage and cooperations. 2004

Participated in MINDEX/INNOTEX Exhibition. 15–18 August 1996.

Oversea Technical Training Scheme at Padova, Italy. 25 May – 1 Jun 1996.

Industrial visit to Germany for business trip under Mazeneka Sdn. Bhd. 1994

Graduate Theses / Dissertations

Supervision of Universiti Teknologi MARA graduate students

Graduated students: 2 PhD and 10 Msc.

Current: Main advisor to four Master of Science and four PhD students

- 1 Shahril Anuar Bahari (M.Sc), **Graduated August 2005** (Main advisor)
- 2 Mohd. Nasaruddin Zakaria (M.Sc), **Graduated August 2005** (Main advisor)
- 3 Azharizan bin Mohd Norizan (M.Sc), **Graduated May 2006** (Main advisor)
- 4 Siti Zalifah Ismail (M.Sc), **Graduated December 2006** (Main advisor)
- 5 Nur Izzaati Saharudin (M.Sc), **Graduated December 2009** (Main advisor)
- 6 Falah Abu (M.Sc), **Graduated January 2013** (Main advisor)
- 7 Syaiful Osman (M.Sc), **Graduated January 2014** (Main advisor)
- 8 Nur Hasmiza Binti Abdul Hamid.(Ph.D), Expected to graduate in May 2018 (Main advisor)
- 9 Noor Zuraida Md Jusoh (Ph.D), **Graduated May 2017** (Main advisor)
- 10 Mohd Norhisham Sattar (M.Sc), **Graduated March 2014** (Main advisor)
- 11 Mohd Zawawi Ibrahim M.Sc, (M.Sc), **Graduated march 2017** (Main advisor)
- 12 Nurul Nadia Bt Mohd Khairuddin (Ph.D), Expected to graduate in September 2018 (Main advisor)
- 13 Nurul Atiqah Binti Mohd Ayop (Ph.D), Expected to graduate in December 2017 (Main advisor)
- 14 Bibi Amirah Zayani Binti Ahmade (M.Sc), Expected to graduate in May 2018 (Main advisor)
- 15 Wan Nor Raihan Bt Wan Jaafar (Ph.D), **Graduated April 2017** (Second advisor)
- 16 Nur Naziha Binti Azmi (M.Sc. **Graduated**) **April 2017** (Second advisor)
- 17 Wan Faizal Ab Wahid (M.Sc), Expected to graduate in December 2017 (Main advisor)
- 18 Muhamad Bukhairi Rahmat (M.Sc), Expected to graduate in

- December 2017 (Main advisor)
- 19 Muhammad Shamir Anwar Bin Mohd Azman (M.Sc), Expected to graduate in May 2018 (Main advisor)
- 20 Syaiful Bin Osman (Ph.D).Expected to graduate in May 2018 (Main advisor)

#### Other Advisory Committee

Year: 2001

Name: Mahadzir bin Abdul Rahman.

Degree: M.Sc. Wood Utilization, Faculty of Forestry.

Institution: Universiti Putra Malaysia

Research Topic: Mechanical Strength and Failure Characteristics of a Common Roof Truss Joist Design.

Advisor to more than 40 Bio-Composite Technology program students, 9 Material Technology program students and 2 Furniture Technology program Students at Universiti Teknologi MARA, Shah Alam, Selangor.

#### Short Courses / Continuing Education

Seminar on press Technology for wood-Based products. 29-30 August 2005.  
Professional Service

Served as Technical Committee for WG on Code Practice for Structural Use of Timber (MS544. REV).SIRIM. 1995.

#### University Service/Expertise

Evaluation Panel Member for Research Proposal at University Level (Panel Penilai Kertas Cadangan Penyelidikan Peringkat Universti Teknologi MARA) (UiTM). Appointment by Deputy Vice Chancellor of Research and Innovation. 1 January 2017 to 31 December 2018.

Pelantikan Ahli Penganti J/kuasa Teknikal Struktur Kayu (Technical Committee on Timber Structure) Bagi Penyediaan Malaysian Standard. Lembaga Perindustrian Kayu Malaysia (MTIB). J/kuasa Teknikal Struktur Kayu. 21 March 2016 to present.

Head of Zero Wastage initiative, Faculty of Applied Sciences, UiTM, Shah Alam. June 2015 to present

Chairperson for Master of Science Viva Session. Ongoing

Defend of research proposal (DRP) panel for Master of Science. Ongoing

Monitoring panel for Master of Science and PhD students. Ongoing

Journal Reviewer. Prediction Models for the Physical Properties of Oil Palm Medium Density Fiberboard. Malaysia Palm Oil Board. 6 January 2015

Journal Reviewer. Prediction Models for the Physical Properties of Oil Palm Medium Density Fiberboard. Malaysia Palm Oil Board. 17 April 2014

Research Methodology Advisor for Defence of Research Proposal dan Progress Presentation, “Fakulti Senibina, Perancangan dan Ukur” , Universiti Teknologi Mara, Malaysia. January 2013 to December 2014

Internal thesis examiner for Master of Science, UiTM- Ainaa Zafirah Omar Arawi. Research title: Preparation and characterization of nano hydroxyapatite from egg-shells reinforces with titanium by microwave processing. 9 September 2013

Pre-viva examiner panel for Applied Science master students (AS780 and AS790). Ongoing

Internal thesis examiner for Master of Science, UiTM- Mohamad Nurul Azman bertajuk The Influence of Hydrothermal Treatment on Physical and Mechanical Properties of High Density Kenaf Fibreboard. 22 April 2013

Advisor and Evaluator of new UiTM academic staff- Falah bin Abu. 22 March 2013

Journal Reviewer. 'Bamboo bundle corrugated laminated composites(BLCC) Part 1:Three-dimensional stability in respond to corrugated effect'. BioResources. May 2012 to June 2012

Journal Reviewer. The Circunferential mechanical properties of bamboo with biaxial compression tests. BioResources. July 2012 to August 2012

Advisor and Evaluator of new UiTM academic staff- Mohd Muzamir bin Mahat. 4 January 2011

Advisor and Evaluator of new UiTM academic staff- -Masitah bt Abu Kasim. 4 January 2011

Book Reviewer. Illustration Timber Construction in Malaysia Context by M Zambri Hussain. 25 May 2009

Advisor and Evaluator of new UiTM academic staff- Siti Norasmah Surip. 5 Ogos 2008

Advisor and Evaluator of new UiTM academic staff- Judith Gisip. 26 Disember 2006

Advisor and Evaluator of new UiTM academic staff- Shahril Anuar Bahari. 26 Disember 2006

Committee Member of Pacific Regional Wood Anatomy Conference (PRWAC) 2009

Book Reviewer. Mechanical and Dimensional Properties of Particleboard and Thermoplastic Board From Bamboo (*G. Scortechinii*) by Assoc.Prof. Dr.Jamaluddin Kasim. 23 Ogos 2005

Served as Technical Committee for Conference on Scientific and Social Research (CSSR 2006) Kuala Trengganu, Trengganu. July 2006.

Served as committee member for seminar IRPA at Hotel Marriott, Putrajaya. 25-27 February 2005.

Workshop Fasilitator seminar IRPA at Hotel Marriott, Putrajaya. 25 February 2005.

Served as Technical Committee for Conference on Scientific and Social Research (CSSR 2005) Kuala Trengganu, Trengganu. 10-12 June 2005.

Served as Workshop Committee for Seminar IRPA 2005. Putrajaya, Selangor. 26-27 February 2005.

Served as Event Manager for Conference on Scientific and Social Research (CSSR 2004). Kuching, Sarawak. 19-21 May 2004.

Served as Registration Committee for Seminar IRPA 2004. Subang, Selangor. 4-5 May 2004.

Served as the Judging Board for Seminar IRPA presentation. Subang, Selangor. 4-5 May 2004.

Served as Technical Committee for Conference on Scientific and Social Research (CSSR 2003) Seri Kembangan, Selangor. 26-27 August 2003.

Served as Editor (Science and Technology) for Conference on Scientific and Social Research (CSSR 2003) proceedings.

Served as Editorial Manager for Scientific Research Journal. 2003. A journal published by the Institute of Research, Development and Commercialization (IRDC)

Served as Editorial Manager for Social and Management Research Journal. 2003. A journal published by the Institute of Research, Development and Commercialization (IRDC)

Served as Committee Member for “ Perancangan Strategik KSG kea rah 2000. 1-4 January 1997.

Served as Workshop Committee for ISO/TEC Guide 25 Laboratory Assessor. 1995. A Course organized by Faculty of Applied Sciences, UiTM, Shah Alam.

Served as Examination Committee for Faculty of Applied Sciences. January 1994-December 1995.

Served as Seminar and Program Materials(Chairperson) for “ Seminar Applied Science and Technology 1993. Organised by Faculty of Applied Sciences, UiTM, Shah Alam.

### **Faculty Level/Student Activities**

Advisor to Bachelor of Science (Hons.) Furniture Technology Students. 2002 – present.

Invited as a Motivation Speaker to Diploma in Industrial Chemistry, Faculty of Applied Sciences. April 1994.

### **Professional Extension Program**

“ Bengkel Penulisan Peringkat Permulaan” . Organised by Academic Writing Committee, Faculty of Applied Sciences, UiTM. 20-21 May 2002

Workshop On Management of Change. 16-17 September 1996. A training program by Miller Consulting Group.

“ Kursus Strategik Planning. 26-27 July 1996. Organised by Institut Teknologi MARA.

The Seven Habits of Highly Effective People. A training program organized by COVEY Leadership Center. 13-15 May 1996.

“ Kursus Pengenalan TQM. 18 December 1995. Organised by Institut Teknologi MARA.

“ Asas Pentadbiran Akademik ke-5. 2 May-4 May 1995. Organised by Institut Teknologi MARA.

ISO/TEC Guide 25 Laboratory Assessor Training. 31 July- 4 August 1995. Organised by SIRIM.

ISO/TEC Guide 25 Laboratory Quality Manual Writing. 24-25 January 1995. Organised by SIRIM.

Development of Management in Wood Working Industry Workshop. 13-17 Dec 1993. Organised by Institut Latihan Kakitangan MARA, Kuala Lumpur.

“ Latihan Pegawai Kehormat Kesatria UiTM ke-4. 16- 24 December 1993. Organised by UiTM and 7 Briged. Kluang, Johor.

## **Others**

Keajaiban Buluh. Temuramah bersama wartawan di rancangan Selamat Pagi Malaysia pada 14/9/2016 ‘ The Wonders of Bamboo, a TV called Selamat Pagi Malaysia Program on TV1.

Article in Utusan Malaysia. 22<sup>nd</sup> Ogos 2005 “ Penyelidikan buloh menafaat untuk semua” by Laupa Junus.

Article in Utusan Malaysia. 2005. ESTIDOTMY.

Interviewed for an article in Dimensi ITM. November 1993“ GLULAM Hasil eksploitasi kayu -A slot in Teknologi dan Alam Sekitar” by Sufian Thauri and Hasnol Hadi.

Interviewed for an article in Dataniaga. April 1996“ GLULAM, Kayu Lapis Berperekat -A slot in Sains dan Teknologi” by Sufian Thauri.