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**Universiti Putra Malaysia**

**43400 UPM SerdangSelangor MALAYSIA**

http://www.upm.edu.my

**PARIDAH MD. TAHIR**

**PhD., Professor**

**CURRICULUM VITAE 2015**

**CURRICULUM VITAE**

**PARIDAH MD. TAHIR, PhD, Prof.**



Address : Institute of Tropical Forestry and Forest Products

(INTROP)

Universiti Putra Malaysia

43400 UPM Serdang

Selangor, MALAYSIA

Faculty of Forestry

Universiti Putra Malaysia

43400 UPM Serdang

Selangor, MALAYSIA

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dir.introp@upm.myor

 parida@upm.edu.my

### PERSONAL DETAILS

Name : Professor Dr. Paridah Md. Tahir

Staff No. : A 1188

Birth Date : 29 JUN 1959

Place of Birth : Ipoh, Perak

Home Address : Bait Az-Zahirah

 Batu 32, Jalan Banting,

 43800 Dengkil,

 Selangor, MALAYSIA

Telephone : 03-87689568 (res.)

 013-2093195 (mob.)

Current Position : Director

 Institute of Tropical Forestry and Forest Products

 (INTROP)

 Universiti Putra Malaysia

 43400 UPM Serdang

 Selangor, MALAYSIA

 Lecturer

 Faculty of Forestry

 Universiti Putra Malaysia

 43400 UPM Serdang

 Selangor,MALAYSIA

**AREA OF SPECIALISATION**

Natural fibre, Wood adhesives and bonding, Wood/fibre composites, Surface coating

### ACADEMIC QUALIFICATION

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Field** | **Name of Institution** | **Year** |
| Ph.D  | Wood Chemistry | University of Aberdeen, Scotland | 1995 |
| ***PhD thesis: Utilisation of mangrove tannin in cold-setting wood adhesive*** |
| M.Sc.  | Wood Science and Technology  | Mississippi State University, Mississippi State, USA | 1989 |
| ***Masters thesis: Synthesis and Evaluation of organosolv lignin for bonding*** ***southern pine plywood*** |
| B.Sc.  | Wood Science and Technology | Mississippi State University, Mississippi State, USA | 1987 |
| Diploma  | Forestry | Universiti Pertanian Malaysia, Kampus Semenggok, Sarawak | 1980 |

**WORK EXPERIENCE**

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| --- | --- | --- |
|  **Period** | **Position** | **Organisation** |
| April 2009 - present | Director | Institute of Tropical Forestry and Forest Products, UPM |
| August 2007 –March 2009 | Deputy Director | Institute of Tropical Forestry and Forest Products, UPM |
| October 2006 –August 2007 | Head | Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Products, UPM  |
| June 2005-September 2006 | Head | Laboratory of Conventional Composites, Institute of Tropical Biocomposite, UPM |
| March 2004 – June 2005 | Programme Manager | Biocomposite TechnologyBioEngineering Laboratory, Institute of Advanced Materials, UPM |
| October 1992-December 1995 | PhD candidate | University of Aberdeen, Scotland |
| 14 September 1989- present | Lecturer | Appointment at Faculty of Forestry, UPM |
| 1987-1989 | Graduate Research Assistant | Mississippi Forest Product Utilisation lab Mississippi State University, Mississippi State, USA |
| 1981 - 1985 | Ass. Utilisation Officer  | Malaysian Timber Industry BoardKuala Lumpur |

**TEACHING EXPERIENCE**

1. **COURSES TAUGHT**

|  |  |
| --- | --- |
| **Courses & Code** | **Courses level** |
| Wood Industries & Environment (FHH5506) | Post Graduate |
| Wood Finishing Technology (FHH5507) | Post Graduate |
| Bio-products from Lignocellulose (FHH 5519)Coating Technology and Wood Finishing (FHH 4505)Wood Adhesives and Adhesion Technology (FHH 3524) | Post GraduateSplit LevelBachelor |
| Wood Adhesives & Coating (FHH3507) | Bachelor |
| Wood Properties III (FHH3504) | Bachelor |
| Wood Chemistry (FHH403) | Bachelor |
| Wood Composite (FHH3508) | Bachelor |
| Wood Properties (FHH2506) | Diploma |

1. **STUDENTS SUPERVISION (1996-present)**

36 PhD students (15 graduated, 3 converted from M.S.)

44 Masters Science (26 graduated)

Co-supervised~ 20 graduate students

Supervised ~100 Bachelor students

|  |
| --- |
| **PhD** |
| **No.** | **Name** | **Thesis Title** | **Status** |
| 1 | H’ng Paik San | Development of Laminated Veneer Lumber from tropical hardwood species | **Graduated in 2002** |
| 2 | Seyoum KelemeworkHaile(Ethiopia) | Effect of Site Variability on the Suitability of Ethiopian Highland Bamboo (Yushania alpina) for Particleboard Production | **Graduated in 2005** |
| 3 | Mohd. Khairun Anwar Uyup | Development of dimensionally stable bamboo strips through treatment with low molecular weight phenol formaldehyde resin | **Graduated in 2008** |
| 4 | Adrian Choo Cheng Yong | Water flow in oil palm stem and its influence on drying attributes | **Graduated in 2012** |
| 5 | Loh Yueh Feng | Enhancing the performance of oil palm stem plywood *via* treatment of veneers with low molecular weight phenol formaldehyde resin to increase  | **Graduated in 2011** |
| 6 | Majid Deghan Nayeri (Iran) | Effects of hydro-thermal treatment on the properties of kenaf fibres and the Medium Density Fibreboard | **Graduated in 2014** |
| 7 | Chin Kit Ling | Evaluation of Oil Palm Biomass and Fast Growing Timber Species as Potential Solid Biofuel | **Graduated in 2014** |
| 8 | Amel Basher Ahmed Basher (Sudan) | Kenaf (*Hibiscus cannabinus*) bast reinforced cement bonded fibreboard for Light weight applications | **Graduated in 2013** |
| 9 | Aida Adnan | Economic and mill performance impact on the use of non-wood oil palm plywood for certification purposes | On-going (July 2008 converted to PhD July 2009) |
| 10 | Norul Izani Md. Allwi | Effects of residual oil content on the performance of Medium Density Fibreboard (MDF) manufactured from oil palm empty fruit bunch (EFB) | **Senate approval** (Viva on November 2015) |
| 11 | Juliana Abdul Halip | Suitability of kenaf (*Hibiscus Cannabinus*) as raw material for particleboard manufacture | **Graduated in 2013** |
| 12 | Samaneh Karimimazraeshahi (Iran) | Investigation of Fiber Size Effect on Weather Ability and Natural Durability of Biocomposites from Kenaf Bast (Hibiscus cannabinus) and Starch Biopolymer | **Graduated in 2014** |
| 13 | SeyedFariborz Hashemidizaji (Iran) | Assessment of the mechanical properties of pultruded Kenaf hybrid composite using vibration method | **Senate approval** (Viva on November 2015) |
| 14 | Amin Moradbak (Iran) | Nano Reinforcement in Bamboo Pulp for High Quality Packaging Paper | On-going(September 2012) |
| 15 | Naheed Saba (India) | Development and Characterization of Fire Retardant Kenaf-Oil Palm Nano Fillers Reinforced Hybrid Biocomposites | On-going (September 2013) |
| 16 | Syaidatul Akmar Shahomlail | Accelerated composting of empty fruit bunch for bioremedical application | On-going (February 2014) |
| 17 | Aisyah Humaira Alias  | Improvement of Kenaf Yarn for Development of Inexpensive Prosthetic Leg Socket from Woven Kenaf Fibre | On-going (September 2014)  |
| 18 | Fatimah A’thiyah Sabaruddin | The Development of Green Hybrid Nano Composites: PP filled with kenaf bast nanocellulose and acacia phenolic microspeheres | On-going (September 2015) |
|  |
| **MASTER** |
| **No.** | **Name** | **Thesis Title** | **Status** |
| 1 | Wong Sin Ying | Sago starch and its acrylamide modified products as coating material for paper | Graduated in 2002 |
| 2 | Ong Lay Lee | Development of multi-layered oriented strand board from *Acacia mangium* wood strands | Graduated in 2003 |
| 3 | Steven Chuo Tern Wern | Strength correlations between accelerated aging test and outdoor exposure of laminated veneer lumber  | Graduated in 2004 |
| 4 | Suffian Misran | Assessment of rubberwood (*Hevea brasilianses*) as raw material for Oriented Strand Board (OSB) manufacture | Graduated in 2005 |
| 5 | Nor Hafizah Abd. Wahab | Bonding characteristics of kenaf *Hibiscus cannabinus*) fibres and its influence on board performance | Graduated in 2007 |
| 6 | Adlin Sabrina Rosley | Macroscopic analysis of succinic anhydride-treated oil palm empty fruit bunch fibres | Graduated in 2008 |
| 7 | Syeed SaifulAzry Osman AlEdrus | Performance of particleboard manufactured from new rubber tree clone RRIM 2000 series and oil palm empty fruit bunch blends | Graduated in 2008 |
| 8 | Ismawati Pale | Synthesis and evaluation of carboxyl methyl cellulose (CMC) from kenaf *Hibiscus cannabinus*) core material | Graduated in 2008 |
| 9 | Juhaida Mohd Fadzil | Liquefaction of kenaf core material for wood laminating adhesive | Graduated in 2009 |
| 10 | Ng Sim Hong | Conversion of kenaf *Hibiscus cannabinus*) core material into Lactic acid and effects of physical treatment | Graduated in 2013 |
| 11 | Yeoh Beng Hong | Development of tannin-phenol formaldehyde resin from sulfited tannin of *Acacia mangium* for bonding tropical hardwood plywood | Graduated in 2010 |
| 12 | Wong Thye Siang | Reducing spring back in densified mahang (*Macaranga* spp) by steaming | Graduated in 2013 |
| 13 | Norani Abd. Karim | Particles characteristics and properties of particleboard manufactured from kenaf (*Hibiscus cannabinus*) stem | Graduated in 2011 |
| 14 | Shahrul Rizal Baharuddin | Performance of Urea-formaldehyde-bonded Medium Density Fibreboard (MDF) manufactured from kenaf stem  | On-going(July 2008) |
| 15 | Aisyah Humaira Alias | Effects of hydrothermal pulping temperature on the morphology of kenaf (*Hibiscus cannabinus*) fibres and it’s influence on Medium Density Fibreboard (MDF) performance | Graduated in 2013 |
| 16 | Lukmanul Hakim Zaini | Preparation and Characterization of Cellulose Whiskers from Kenaf Bast (Hibiscus cannabinus L.) and Its Application in Bionanocompsite Via Solution Casting | Graduated in 2013 |
| 17 | Balkis Fatomer A. Bakar | Effects of Drying on Extractive Content and Its Influence on the Porosity of Oil Palm Stem Wood | Graduated in 2015 |
| 18 | Thenmoli a/p Tharamalingam | Production of cross laminated bamboo *(gigantochloa scortechinii)*for shear wall application in seismic prone area | On-going(July 2012) |
| 19 | Nor Fadhlia Farhana A. Rahman | Light structural composite from phenolic prepreg bamboo for truck wall paneling | Senate approval (viva in November 2015) |
| 20 | Irma Raihana binti Zahib | Development of flexible teeth whitening strip | On-going(Sept 2012) |
| 21 | Mohammad Mahdi Biyabani Sohi | Design Of Raised-Floor System Of Using Natural Fiber Composite For Commercial And Residential Buildings In Tropical Climate | On-going(Sept 2014) |
| 22 | Mohd Hizami bin Saharudin | Development of Ultra Light Medium Density Fiber Board (MDF) from Kenaf Core Phase 1 | On-going(Sept 2015) |
| 23 | Nur Liyana binti Mohamad Hafiz  | Effect of extraction solvent on Tannin Phenol Formaldehyde | On-going(Sept 2015) |

**AWARDS**

1. **SERVICES**

|  |  |
| --- | --- |
| 1997 | Excellent service Award UPM |
| 1998 | Excellent service Award UPM |
| 1999 | Excellent service Award UPM |
| 2000 | Excellent service Award UPM |
| 2001 | Excellent service Award UPM |
| 2002 | Excellent service Award UPM |
| 2003 | Excellent service Award UPM |
| 2004 | Excellent service Award UPM |
| 2005 | Excellent service Award UPM |
| 2006 | Excellent service Award UPM |
| 20072008 | Excellent service Award UPMExcellent service Award UPM |
| 200920112014 | Excellent service Award UPMExcellent service Award UPMExcellent service Award UPM |

**2. RESEARCH**

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| --- | --- |
| **YEAR** | **TYPE** |
| 2014 | **Gold Medal** at Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2014:* Nano Clay and Phenolic Resin Admixture for Novel Bulking Agent of Lignocellulosic Materials

**Silver Medal** at Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2014:* Ionic Mixture-Compatibilized Biocomposites with Improved Mechanical Properties
 |
| 2013 | Top Research Scientists MalaysiaHadiah Penghargaan Buku Terbaik, Bidang Sains, Teknologi dan Perubatan, Anugerah Majlis Penerbitan Ilmiah Malaysia (MAPIM) 2012**Gold Medal** at ITEX 2013 |
| 2012 | **Gold Medal** at Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2012:* Optimisation of The Process Parameters Affecting Properties of Compreg Wood Using Response Surface Methodology (RSM)

**Two Bronze Medal** at Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2012:* A Water Permeability Apparatus for Porous Media
* A Gas Permeability Apparatus for Porous Media
 |
| 2011 | **Bronze Medal** at Pertandingan Rekacipta & Inovasi 2011, FRIM:* UV Coating from Bambo Polyol
 |
| 2010 | **Two Silver Medals** at Pameran Rekacipta, Penyelidikan dan Inovasi UPM 2010:* Acacia mangium Tannin as Formaldehyde Scavenger for Low Molecular Weight Phonel-Formaldehyde Resin in Bonding Tropical Plywood Applied
* Liquefaction of Kenaf *(Hibiscus cannabinus L.)* Core for Wood Laminating Adhesive Applied

**Bronze Medal** at BioInno Awards 2010* New Approach in Using Kenaf for Paper and Paperboard Production
 |
| 2009 | **One Gold** at Pameran Malaysia Technology Expo (MTE) 2009:* A method of reducing moisture and surface roughness in oil palm stem veneer and an apparatus thereof

**One Silver and one Bronze** at Pameran Rekacipta, Penyelidikan dan Inovasi UPM 2009:* Tannin-based Adhesive from *Acacia mangium* tree bark for bonding plywood (SILVER)
* Suitability of Kenaf as raw material for particleboard manufacture (BRONZE)
 |
| 2008 | **One Gold and one Silver Medals** at Pameran Rekacipta, Penyelidikan dan Inovasi UPM 2008:* Development of high grade biocomposites through resin treatment with low molecular weight phenolic resin (GOLD)
* Development of efficient veneer dryer for oil palm stem veneer (SILVER)
 |
| 2007 | **Two Silver and three bronze Medals** at Pameran Rekacipta, Penyelidikan dan Inovasi UPM 2007:* Method of Extracting Tannin from Bark of *Acacia Mangium* for Wood Adhesive Applications. (SILVER)
* Utilisation of 4-year Old Rubberwood using RRIM 2000 Series for Particleble Manufacture. (BRONZE)
* Production of Durable Oil Palm Stem Plywood (OPSP) against termites and white rot fungi. (BRONZE)
* Development of Methods for Wood Densification for the Production of High Strength material from Low density Wood. (BRONZE)
* An Efficient Method of Reducing Moisture Content and Surface Roughness of Oil Palm Veneer (SILVER).
 |
| 2006 | **Two Gold and One Silver Medals** at Pameran Rekacipta, Penyelidikan dan Inovasi UPM 2006 :* Developing Structural-Grade Oil Palm Stem Plywood for Building Construction (GOLD)
* Enhancing The Performance of Biocomposites through Pretreatment with Low-Molecular Weight Resin Polymers (GOLD)
* Potential of Utilising 4-year old New Rubberwood (*Hevea Brasiliensis*) Clone Series 2000 for Commercial Manufacturing of Medium Density Fibreboad (MDF). (SILVER)
 |
| 2003 | **One Gold Medal** at Pameran Penyelidikan dan Rekacipta UPM 2003: * Development of Laminated Veneer Lumber (LVL) from Tropical hardwood for Structural Building Components (GOLD)
 |
| 2002 | **One Gold and One Bronze** Medalsat Pameran Penyelidikan dan Rekacipta UPM 2002 : * Wood quality assessment and performance evaluation of *Acacia mangium* planted under stress environment (GOLD)
* Development of High Dimensionally Stable Oriented Strand Board (OSB) from *Acacia mangium* wood Strands. (BRONZE)
 |

**3. OTHERS**

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| --- | --- |
| **YEAR** | **TYPE** |
| 2015 | **Anugerah Standardisasi, MOSTI** |
| 2014 | **Anugerah Apresiasi Alumni, UPM** |
| 2013 | **Anugerah MAPIM 2012** |
| 2009 | **Finalist**, Anugerah Komoditi Kementerian Perusahaan Perladangan dan Komoditi 2009, Kategori Hadiah Saintis dan Penyelidik. |
| 2009 | **Woman Inventor of the Year** at Pameran Malaysia Technology Expo (MTE) 2009 for research entitled A Method of Reducing Moisture and Surface Roughness in Oil Palm Stem Veneer and An Apparatus Therefore |
| 2008 | **Anugerah Perunding Putra 2008 Award****Anugerah Perunding Cemerlang 2008 (Gold Medal)**For projects:Reviewing on Forest Plantation Loan Disbursement and Monitoring Procedures (RM 352, 783); andDevelopment of high-grade oil palm stem plywood for building construction (RM 240,000) |
| 2008 | **Anugerah Pengajar Cemerlang 2008 (Finalist)** |
| 14-17 Nov. 2006 | **Recipient of Government of Japan Travel Grant**To attend Regional Meeting on Wood-Based Panel standard ISO TC 89 and national conference on Wood-based Panels, Tokyo, Japan |
| 2004 | **Recipient of British Council Travel Grant under CICHE programme**Project: *Kenaf R&D in Malaysia(Collaborator. Dr. Martin Ansell )* |
| 2001 | **Recipient of Tanabe Foundation Research Award**Research entitled:*Synthesis and Evaluation of Low Molecular Weight Phenol Formaldehyde Resin for the Production of High Dimensionally Stable OSB* |
| 2000 | **Recipient of British Council Travel Grant under CICHE programme**Project: *Development of biocomposites from oil palm tree residues**( Collaborator: Prof. Nick Tucker)* |
| 1990 | **Recipient of British Council Travel Grant under CICHE programme**Project: *Development of tannin formaldehyde adhesive from mangrove tree barks (Collaborator: Prof. Bart Banks/Dr. Mark Earl)* |
| 1987 | **Best Senior Achievement Award**Wood Science and Technology School of Forest Resources, Mississippi State University, Mississippi State, USA |

**4. EXTENSION SERVICES**

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| --- | --- |
| **YEAR** | **TYPE** |
| 2015 | * **Awarded** with Anugerah Standardisasi, Kementerian Sains, Teknologi dan Inovasi, Malaysia

Appointed as an **International Exhibitor** for:* World Bamboo Exhibition 2015, Damyang South Korea

**Assessor** for International Collaboration UPM-IBFS-FAFU:* Joint Interantional Kenaf Breeding Station

Appointed as a **Head of Delegation** for:* Mesyuarat Jawatankuasa Teknikal bagi Pembangunan Standard di Peringkat Antarabangsa (ISO/TC 89: Wood based Panels) dan,
* Lawatan Teknikal ke Expo Milano

**Chairman** for Working Group on Oil Palm Trunk (Nasional)* Lawatan Teknikal ke Badan Standardisasi Nasional Indonesia (BSNi) untuk menerangkan status pembangunan NWIP ISO 2426-4 serta melobi Indonesia untuk sama-sama terlibat di dalam pembangunan standard ISO berkaitan OPT.

Appointed as a **Keynote Speaker** in:* Seminar Mapeki XVIII and The 7th International Symposium of Indonesian Wood Research Society (IWoRS)

**Committee Member** in Meeting on Timber (ISO/TC 218) and* **Delegate** in Meeting on Timber (ISO/TC 218)
* Invited as an **Expert Panel** in utilising agricultural waste in mushroom plantation to visit Shandong Academy of Agricultural Sciences Research Centre
* Appointed as an **Editor** of Elsevier publisher for book entitled ‘Lignocellulosic Fibres and Biomass-Based Composite Materials: Processing, Properties and Applications

Appointed as an **Interviewee** for:* Standards Malaysia Perception Audit upon receiving the National Standards Awards at the StAr Awards 2015

Appointed as an **Exhibitor** for:* Majlis Berkhatan Perdana Parlimen Pekan dan Penyampaian Bayaran Hasil Kenaf Tahun 2015

Appointed as a **Committee Membership** in:* Lembaga Perolehan ‘A’ dan ‘B’ MTIB

Appointed as an **Expert Panel** for:* Malaysian Timber Council (MTC) Retreat on Glulam, 11-12 November 2015 to further map-out the 4th Phase MTC Roadmap for the Development of the Glulam Industry in Malaysia

Appointed as an **Interviewee** for:* Pembangunan Kompetensi Bakar Kepimpinan Pendidikan Tinggi

Appointed as a **Speaker** for:* Konsultansi bersama Industri (Ulasan Umum) ke Atas ‘*Final Draft Malaysian Standard (FDMS) on Elaies Palm Plywood – Specification*’

Appointed as an **Expert Reference** for:* Research on ‘Super Glue Plywood for Construction Industry and Marine Plywood Based on British Standard (BS 1088).’

Appointed as a **Collaborator** in:* UPM-CIRAD-AMIC Cooperation for research entitled ‘Sustainability of Bio-Jet Fuel in Malaysia’

Appointed as a **Speaker** for:* National Seminar on Conversion of Oil Palm Trunk (OPT) Into Sawn Timber & Plywood and Its Application in Furniture

Appointed as a **Speaker** for:* Konsultansi bersama Industri (Ulasan Umum) Ke Atas ‘FDMS on Specification for Plywood’

**Project Leader** for:* Development of Pepper Stakes from Pultruded Kenaf Composites

**Assessor** for CSR Program with Landskap Malaysia:* Usaha Memelihara Alam Semulajadi Negara

Appointed as an **External Examiner:*** UMP PhD Student Viva – Tanveer Ahmed Khan
* UiTM PhD Student Viva – Marina binti Marzuki

Appointed as a **Viva Chairman:*** UPM PhD Student Viva – Rogerson Anokye

Appointed as an **Examiner** to UPM Master Student Research Proposal:* Title: Value Addition of Wood Sawnmill Industry in Malaysia Over the Period of 2003 -2013
* Student: Pang Suet Kum
 |
| 2014 | * **Awarded** with Anugerah Apresiasi Alumni, UPM
* Appointed as a **Chairman** for Technical Committee: ‘Wood Based Panels’
* Appointed as a **Speaker** for Seminar on Malaysian Standard MS 1787:2005, Wood-Based Panels-Test Method
* Appointed as an **Examiner** Research Proposal FRGS Grant Phase 2/2014 for Universiti Malaysia Pahang
* Appointed as a **Committee Member** in Jawatankuasa Standard Perindustrian Kayu, Keluaran Kayu dan Struktur Kayu (2 Jan 2014 – 31 Disember 2015)
* Appointed as a **Committee Member** in Jawatankuasa Penilaian Permohonan Skim Geran Penyelidikan Peringkat Universiti Tahun 2014
* **Assessor** for Kerjasama di antara MTIB dan UPM bagi Aktiviti Standardisasi Peringkat Nasional
* **Expert Panel** in Bioeconomy Transformation Programme (BTP) BIOCENTRAL Workshop

 * Appointed as a **Speaker** for Majlis Taklimat Fakulti Perhutanan 2014/2015
 |
| 2013 | * **Awarded** with Top Research Scientists Malaysia
* **Awarded** with Hadiah Penghargaan Buku Terbaik, Bidang Sains, Teknologi dan Perubatan, Anugerah Majlis Penerbitan Ilmiah Malaysia (MAPIM) 2012
* Appointed as a **Head of Delegation** for Mesyuarat Jawatankuasa Teknikal Mengenai Wood Based Panels
* Appointed as a **Speaker** in Bamboo Industry Workshop, Kementerian Kehutanan Badan Penelitian dan Pengembangan Kehutanan, Indonesia
* **Project Leader** for joint research UPM-Korea University entitled: Survey of Drying Preservation of Laminated Board
* Appointed as an **External Examiner** bagi Urusan Kenaikan Pangkat Staf Akademik ke Jawatan Profesor Gred Khas C
* Appointed as a **Conference R&D Committee** for Bengkel R&D Sustainable Village and Affordable House Using Solar Energy for Rural Communities and Remote Areas organized by CREAM
* Invited as an **Expert Panel** for Mesyuarat Jawatankuasa Teknikal Penyediaan Rancangan Pengurusan Sumber Buluh di Semenanjung Malaysia (RPSB) organized by JPSM
* Appointed as a **Jury** in Anugerah Kecemerlangan Industri 2013 Sempena Sambutan 40 Tahun MTIB organized by MTIB
* Appointed as a **Commentator** for Malaysia International Commodity Conference & Showcase (MICCOS) 2013: Executive

Talk on Kenaf* Appointed as a **Speaker** on Malaysian Standard for Method of Test for Finishes for Wooden Furniture Sempena Johor Timber Week
* Appointed as a **Reviewer** for Manuscript: Kenaf Potential as Pulp & Paper in Malaysia
* Appointed as a **Chairman Session** for Focus Group Discussion Persidangan Plenary Asia-Uninet Ke-13
* Appointed as a **Speaker** in Seminar Kebangsaan Reka Bentuk dan Pembuatan Perabot 2013 organized by MTIB
* Appointed as **Head of UPM Research Program:**  Biofibre Sciences and Technology for Forestry and Biodiversiti cluster
* **Patron** and **Advisor** for International Conference on Kenaf & Allied Fibres (ICKAF 2013)
* Appointed as a **Timbalan Pengerusi** for Jemaah Pengarah Institut
* Appointed as a **Viva Chairman** for UPM MSc Student – Mohd Fadhil bin Ahmad
 |
| 2012 | * Appointed as a **Conference Reviewer** for INFO Blueprint for Sustainability Certifications Scheme for the Hard Fibers Sectors
* Appointed as a **Convenor for ISO/TC 218/WG4**
* **Convenor** for Pembangunan Standard Malaysia di Bawah Skop Kayu, Produk Kayu & Struktur Kayu
* **Expert Panel** for Pembangunan Standard Malaysia MS 1215-1:2015, MS 1215-2:2015, MS 1215-3:2015, MS 1215-4:2015, MS 1215-5:2015, MS 1215-6:2015.
* Appointed as an **Expert Panel** for Bengkel R&D Sustainable Village and Affordable House Using Solar Energy for Rural Communities and Remote Areas
* Appointed as an **Expert Panel** in Stakeholder’s Consultation Workshop – Review of Key Strategies and Key Focus Areas for Green Technology Master Plan (Agriculture and Forestry Sectors)
* Appointed as a **Research Associate** in Aerospace Research Centre
* Appointed as an **Expert Panel** in World Bamboo Day organized by MTIB
* Appointed as a **Reviewer** for Malaysian Construction Research Journal (MRCJ) published by Construction Research Institute of Malaysia
* Appointed as a **Pewasit** to Jurnal Sains Malaysiana published by Jurnal Sains Malaysiana UKM
* Appointed as **a Technical Expert** for End of Project Site Visit organized by Technology Park Malaysia
* Appointed as **Working Technical Committee cum Chairman** for Working Group Wood Plastic Composite
* Appointed as a **Guest Lecturer** Kursus CW 504 Fibre-Based Composite by Politeknik Sultan Salahuddin Abdul Aziz Shah (POLISAS)
* Appointed as a **Speaker** in Seminar Pengenalan Industri Buluh
* **Assessor** in R&D Collaboration Between SERI & INTROP
* Appointed as a **Liason Officer** for Faculty of Forestry
* **Organizer** for High Speed Camera in Science and Engineering Application
 |
| 2011 | * Appointed as an **Expert Panel** in Foresight Meeting: Future Forum 2020 – Growing Together organized by International Natural Fiber Organization (INFO)
* Appointed as an **Expert Panel** in the International Symposium on Diversification Strategies of Overseas Forestry organized by International Forest Cooperation (INFOCO) and Korea Green Promotion Agency, KOREA Forestry Service
* **Advisor** to the International Conference on Tropical Forest Amidst Globalisation and Climate Change 2011 (TFGCC 2011)
* Appointed as a **Panel Member** for Module Development
* Appointed as a **Examiner Panel** for Bengkel Pemantauan Projek-Projek TechnoFund Technology Park Malaysia
* Appointed as a **Monitoring Panel** for Projek-Projek TechnoFund Technology Park Malaysia
* Appointed as an **Expert Panel** to Journal of Oil Palm Research published by Malaysian Palm Oil Board (MPOB)
* Appointed as an **Expert Panel** in World Formaldehyde 2011 Seminar organized by Persatuan Pekilang Panel Malaysia
* Appointed as a **Committee Member** to Jawatankuasa Pemandu Kajian Pelan Induk Pembangunan Industri Kenaf (PIPK)
* Appointed as an **Expert Reference** in Aerospace Manufacturing Innovation Center
* **Adivsor** to the Public Lecture & Course on Forest Fire and GIS Modelling
* **Advisor** to the Roundtable Dialogue on Conversation on Biological Diversity (CBD)
 |

**PUBLICATIONS**

**1. REFEREED JOURNALS**

Nurhazwani, O., Jawaid, M., **Paridah, M. T.,** Abdul, J. H., & Hamid, S. A. (2016). Hybrid Particleboard Made from Bamboo (Dendrocalamus asper) Veneer Waste and Rubberwood (Hevea brasilienses). *BioResources*, *11*(1), 306-323. (IF = 1.425)

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Seyed Fariborz H.D., **Paridah M.T.,** Madsen B., Jawaid M., Majid D.L., Brancheriau L, Juliana A.H. (2015). Volumetric composition and shear strength evaluation of pultruded hybrid kenaf/glass fiber composites. Journal of Composite Materials, 0(0):1-13. DOI 10.1177/0021998315602948. (IF = 1.173)

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Ahmad Ainuddin Nuruddin, Ainun Zuriyati, Luqman Chuah Abdullah, **Paridah Md Tahir**(2011). *Viable Biofibre for Future*.Kuala Lumpur: Mofaz Nazif Enterprise.ISBN978-983-44426-1-3.

**Paridah M. T.**,Luqman C.A., Faryanti K. (Eds.) *Kenaf Biocomposites, Biopolymers and Economics (2009)*.Pustaka Prinsip Sdn. Bhd. ISBN 978-983-053-562-3.

**RESEARCH**

1. **RESEARCH GRANTS RECEIVED**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Project Title** | **Duration** | **Amount****(RM)** | **Source** | **Role** |
| 1 | Program Pembangunan Standard Papan Lapis Kelapa Sawit Di Bawah Projek Pembangunan Produk Papan Lapis Berkualiti Tinggi Daripada Kelapa Sawit untuk Pasaran Eksport | 2 Jan 2016-Dec 2017 | 130,000 | Tabung Pembangunan Industri Kayu Malaysia, MTIB | Project Leader |
| 2 | Accelerated Composting of Oil Palm Empty Fruit Bunch for Bioremediation Application | 2 Nov 2015 – 1 May 2018 | 111,200 | MOHE | Project Leader |
| 3 | Synthesis of Tannin Phenol Formaldehyde Bioresin and Performance Evaluation | 6 Mar 2015-5 Mar 2017 | 122,000 | AMIC | Project Leader |
| 4 | Efficient Production of High Quality Plywood from Oil Palm Trunks | 1 Jan 2015-31 Dis 2015 | 35,000 | Knowledge Transfer Grant Scheme, UCTC UPM | Team Leader |
| 5 | Genetic Modification of Kenaf (Hibiscus cannabinus L) for Enhanced Growth and Fiber Quality | 1 Dec 2014- 30 Nov 2016 | 102,000 | KPM | Team Member |
| 6 | Development of glass/sugar palm fibre reinforced polyurethane hybrid composites for automotive *anti-roll bar* | 1 Jan 2015 – 1 Jan 2017  | 146,000 | UPM | Team Member |
| 7 | Study on Possible Pathways to Promote Sustainable Aviation Fuel in Malaysia | 8 Apr 2014-7 Apr 2017 | 250,000 | AMIC | Team Leader |
| 8 | Pilot Scale Preparation of Microbial Inoculum and Kenaf Bioretting for High Quality Fibre | 1 Mar 2014-30 Sep 2016 | 98,300 | UPM | Team Member |
| 9 | Fabrication of Kenaf-Aramid Woven Material for Aerospace Composite | 1 Mar 2014-30 Sep 2016 | 167,600 | UPM | Team Leader |
| 10 | Bio Fuel(Matching Grant) | 2014-2016 | 48,000 | UPM | Team Leader |
| 11 | Development and characterization of fire retardant kenaf-oil palm nano fillers reinforced hybrid composites | 1 Jan 2014 – 31 Dec 2016 | 149,000 | UPM | Team Member |
| 12 | Preparation and Characterization of Polyaniline-Cellulose Nanowhiskers Composite with Enhanced Sensitivity and Stability | 1 Dec 2013 – 30 Nov 2016 | 98,000 | MOHE | Team Member |
| 13 | Advanced Processing in Bamboo Industry for High Value Premium Products (Nano reinforcement of bamboo pulp for high quality packaging paper) | 2 Dec 2013 – 1 Dec 2015 | 100,000 | UPM | Program Leader/Team Leader |
| 14 | Compreg Laminated Bamboo Hybrid for Seismic Resistant Parquet Flooring and Wall Panel System | 2 Dec 2013 – 1 Dec 2015 | 97,000 | UPM | Team Member |
| 15 | Improved processing method for bamboo culms for the production of high-grade laminated bamboo timber | 2 Dec 2013 – 1 Dec 2015 | 136,500 | UPM | Team Member |
| 16 | Genetic modification of Kenaf (Hibiscus cannabinus L.) for enhance growth and fiber quality | 1 Dec 2013 – 30 Nov 2016 | 102,000 | MOHE | Team Member |
| 17 | Development of High Sensetive Glucose and/or Cholestrol Biosensor Based on Cellulose Nanocrystal Composite | 1 Dec 2013 – 31 Dec 2016 | 106,650 | MOSTI | Team Member |
| 18 | Impregnation of linear chain carboxylic acid anhydrides to improve decay resistance of plantation timber | 1 May 2013 – 30 Apr 2015 | 85,000 | MOHE | Team Member |
| 19 | Development of Inexpensive Prosthetic Leg Socket from Woven Kenaf-Glass Fibre Hybrid Composites | 1 June 2013 – 31 Nov 2016 | 125,000 | MOHE | Team Leader |
| 20 | Compatibilization of polyolefin/polysaccharides biocomposites with non-ionic & ionic surfactant | 1 June 2013 - 31 May 2015 | 81,000 | MOHE | Team Member |
| 21 | Strength and Fiber Content Prediction of Kenaf-Glass Fiber Pultruded Biocomposite using Non Destructive Transverse Vibration Method | 1 May 2013 – 30 Oct 2016  | 91,000 | MOHE | Team Leader |
| 22 | Fuel Characteristics and Flammability of Repeated Burnt Peat Swamp Forest | 1 May 2013 – 30 Apr 2015 | 75,000 | MOHE | Team Member |
| 23 | Thermal Modification of Oil Palm (elaeis guineensis) and bamboo (gigantochloa schortechnii) in buffer mediums and the effecton their physical, mechanical and durability properties | 1 Sep 2012 – 31 Mac 2014 | 182,000 | UPM | Team Member |
| 24 | Increasing the Value of Sesendok (Endospermum Malaccense) Wood Through Chemical Modification and Incorporation of Nano Clay Particles | 1 Mac 2012 - 28 Feb 2014 | 157,900 | E-Science | Team Member |
| 25 | Thermal Modification of Oil Palm *(Elaesis Guineensis)* and Bamboo (*Gigantocloa Schortechnii)* in Buffer Mediums and the Effect on Their Physical Mechanical and Durability Properties  | Sep 2012 – Mar 2014 | 182,000 | RUGS | Team Member |
| 26 | Efficiency of wood eating termite converting lignocellulosic materials into bioethanol | 1 Sep 2012 – 31 Aug 2014 | 29,000 | UPM | Team Member |
| 27 | Investigation of the Cytotoxicity and Whitening Effect of Natural Polymer Whitening Strip | 15 Dec 2012 – 14 Dec 2014 | 80,000 | RAGS-MoHE | Team Member |
| 28 | The production of microfibrillated cellulose from bamboo fibres using chemimechanical approach. | 1 Sep 2012 - 31 Aug 2014 | 39,000 | UPM | Team Member |
| 29 | Enhancing Recycled Paper With Banana Pulps for Paper Packaging Grades | 1 Sep 2012 – 31 Aug 2014 | 54,450 | UPM | Team Member |
| 30 | Establishment of Pectinase Biosynthesis Strategy by a locally isolated bacterial strain for bioretting of kenaf | 1 Sep 2012 – 31 Aug 2014 | 14,000 | UPM | Team Member |
| 31 | Isolation of novel lignocelluloytic fungi for biological pretreatment of wood lignocellulose | 1 Sep 2011 – 31 Aug 2015 | 135,000 | MOHE | Team Member |
| 32 | Co-Cured In-Line Joint Fibre Reinforced Plastic Composite Adhesion Strength Theory | 1 July 2011-30 June 2013 | 98,000 | MoHE | Team Member |
| 33 | Effects of Residual Oil Content on The Performance of Medium Density Fibreboard (MDF) Manufacture from Oil Palm Empty Fruit Bunch | Jul 2011-Jul 2012 | 5,000 | UPM | Project leader |
| 34 | Characterization of water flow mechanism in oil palm | 2010-2012 | 91,050 | MOHE | Project leader |
| 35 | Study on the permeability of tropical hardwoods, oil palm stem and kenaf  | 2009-2011 | 200,000 | UPM | Project leader |
| 36 | Increased Efficiency in Small-scale Kenaf Plantation for Industrial applications (Sharing with 2 other researchers) | 2009-2011 | USD 2,107,746(Total)1,052,551 (Malaysia)USD 316,640**(RM 2,044,000 UPM)** | Common Funds for Commodity (CFC) and International Jute Study Group (IJSG) | * Head of overall project
* Project leader of 2 projects
* Co-ordinator to 9 partners
 |
| 37 | National IBS Awareness Programme for Timber Industry | 1 June 2009 – 31 May 2011 | 149,000 | MTIB | Team Member |
| 38 | Synthesis and evaluation of tannin-based adhesive from bark of *Acacia mangium* | Nov 2006- Nov 2008 |  200,000 | EScience (MOSTI) | Project leader |
| 39 | Joint Fracture in oil palm stem plywood  | Oct 2006- Oct 2008 | 69,070 | FRGS (MoHE) | Project leader |
| 40 | Integrated development of particleboard utilizing juvenile rubberwood and oil palm EFB fibre blends  | December 2003 – June 2007 | 274,000 | IRPA PR (MOSTI) | Project leader |
| 41 | Penyelidikan Huluan dan Pemasaran Produk Kenaf (Program 3: Stem Processing and Development of conventional Composites from Kenaf fibres) | April 2007- March 2010 | 711,000 | EPU Grant (RMK-9, KPPK) | Project leader |
| 42 | Penyelidikan Huluan dan Pemasaran Produk Kenaf (Program 8: Promotional activities in the development of Kenaf industries) | April 2007- March 2010 | 360,000 | EPU Grant (RMK-9, KPPK) | Project leader |
| 43 | Manufacture of Oriented Strand Boards from Plantation Wood Species | 1997 - 2000 |  190,000 | IRPA under FRIM | Member |
| 44 | Manufacture of structural grade laminated veneer lumber from tropical hardwoods | 1999 - 2001 | 227,000 | IRPA | Project leader |
| 45 | Cement-bonded insulation board from oil palm trunk | 1999-2000 | 22,000 | Golden Hope Sdn. Bhd. | Project leader |

1. **CONSULTANCY PROJECTS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Project Title** | **Duration** | **Amount****RM** | **Sponsor** | **Role** |
| 1 | Development of Laminated Veneer Lumber from Tropical Hardwood Timber Species | Apr-Dec 2014 | RM32,000 | Pei Cheong Timber Sdn Bhd | Project Leader |
| 2 | Menambahbaik Kaedah Penanaman Kenaf dan Menambahbaik Kaedah Pemprosesan Kenaf | 1 Sep 2013 – Mac 2014 | RM30,000 | Inner-Subway Sdn Bhd | Project Leader |
| 3 | Survey on the Economic Potential of Eucalyptus Plantation Industry | Feb 2013 | RM26,500 | MTIB | Project Leader |
| 4 | A Joint-Survey on Drying and Preservation of Laminated Board Exporters in Malaysia and Indonesia | Mar – May 2013 | RM25,967 | Korea University | Project Leader |
| 5 | Kajian Berkaitan Kualiti Kayu Getah Menggunakan Bahan Rangsangan Di Dalam Meningkatkan Penghasilan Latek | Dis 2012 – Dis 2013 | RM49,000 | Lembaga Getah Malaysia-Science Advisory Council (SEAC) | Project Leader |
| 6 | Permeability of Refractory Tropical Hardwoods | Aug-Dis 2012 | RM20,000 | Institut Penyelidikan Perhutanan Malaysia (FRIM) | Project Leader |
| 7 | Penyelidikan Kajian Keperluan dan Bekalan Pelepah Kelapa Sawit (OPF) di Negeri Perak | Mac-Dec 2012 | 10,000 | Perbadanan Pembangu-nan Pertanian Negeri Perak | Project Leader |
| 8 | Projek R&D ‘Pembangunan Produk Papan Lapis Berkualiti Tinggi Daripada Kelapa Sawit untuk Pasaran Eksport di Bawah Tabung Pembangunan Industri Kayu-Kayan Malaysia (TPIKM) | 2011-2012 (15 months) | 168,650 | MTIB | Project Leader |
| 9 | Kajian Strategi Perniagaan, Pemasaran, dan Pelaksanaan Bagi Pembangunan Industri Kenaf Dalam Kawasan Wilayah Ekonomi Pantai Timur (ECER) | 5 months | 500,000 | MIGHT | Project leader |
| 10 | Competetiveness Study in Biocomposite Industry | 18 months | 330,000 | Malaysian Timber Industry Board | Member |
| 11 | Kajian Penglibatan Bumiputra dalam Sektor Berasaskan Kayu | September-November 2009 | 200,000 | Malaysian Timber Industry Board | Member |
| 12 | Supply of rubberwood and *Acacia mangium* in States of Selangor, Negeri sembialn and Southern Perak  | May–August 2008 | 120,000 | Dong Hwa Industries | Member |
| 13 | Reviewing on Forest Plantation Loan Disbursement and Monitoring Procedures | May–August 2008 | 352,783 | Malaysian Timber Industry Board | Project leader |
| 14 | Development of high-grade oil palm stem plywood for building construction | June 2008-September 2009 | 240,000 | KPPK Geran RMK-9  | Project leader |
| 15 | Effects of RIM-FLOW tapping technique on the mechanical properties of rubberwood | June 005-March 2006 | 10,000 | Rim-flow Sdn. Bhd. | Project leader |
| 16 | Evaluation on current status of identified TNB wooden cross arms - Predicting the service life of wooden cross-arms | Sep. 2000 – Apr. 2001 | 40,000 | TNB Research Sdn. Bhd. | Member |
| 17 | Utilisation of Small Diameter Log for Lami-OSB Production [Industrial Grant Scheme (IGS)] | 1999 - 2001 | 20,000 | Hevea Board Sdn. Bhd.  | Member |
| 18 | Charcoal production in Peninsular Malaysia. | 1999 | 10,000 | UBC, Universiti Putra Malaysia | Member |
| 19 | Integrated Approach Towards Improving the Sago Industry in Sarawak. | 1991 – 1993  | 25,000 | Ministry of Industrial Development of Sarawak | Project leader |

1. **PATENT FILED**
2. Oil Palm Stem Veneer Treatment and Its Manufacturing Method.

**(PI 20084708) - Team Leader**

1. Kenaf for Use in Paper, Paperboard and The Like Production

**(PI 2010 003725) – Team Member**

1. A Composite Composition

**(PI 2010004392) – Team Member**

1. New Processing Method for Plybamboo Manufacturing

**(FRIM ID 18-2012) – Team Member**

1. The Use of Kenaf Fibre as an Alternative Laminated Composite for Production of Prosthetic Leg Socket

**(PI 2014700095)-Team Leader**

1. Isolated Bacterial Strain for Bio-retting of Kenaf

**(PI 2015701163) – Team Member**

1. **PATENT GRANTED**
2. A method of reducing moisture and surface roughness in oil palm stem veneer and an apparatus thereof**– Team Leader**

 **Patent No.: MY-143318-A**

 Date of Grant: 15 April 2011

1. Method of Producing Composite Bamboo Board **– Team Member**

**Patent No.: MY-147974**

Date of Grant: 28 February 2013

**5. COPYRIGHT FILED**

1. Image Analysis Software for Permeability Measurement Based on Parallel Capillary Model of Wood by Cross Sectional Area Calculation of Vessels

**(22042013) - Team Leader**

**EXTENSION AND ADVISORY SERVICES**

* 1. **TECHNICAL ASSESSOR**

Panel assessor for Ministry of Science, Technology and Innovation Malaysia (MOSTI) for projects:

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Title** | **Year** | **Company** | **Project Cost, RM** |
| Production of Green Furnitureusing rice husk bio-composite as alternative to natural wood (timber) furniture | 2008-2009 | SIRIM | 6,700,000 |
| Development of palm-based Polyol for Polyurethane sealants and adhesives | 2008-2009 | Rovski Group of Companies | 2,700,000 |
| Research on Local Palm Oil waste Fibre for Development of Fabricated Method of Building Construction | 2004 | AE Consult Sdn. Bhd. | 3,100,000 |
| Trial Using Oil Palm Based Fibre (Ecomats) in SandStorm Areas | 2004 | MPOB/Stable WindSdn. Bhd. | 8,500,000 |
| Development of steel-reinforced structural glued-laminated timber members for construction industry using timber resources | 2001 | Evamas Sdn. Bhd. | 12,889,881 |
| Development of application of latent crosslinking adhesive for the production of oil palm particleboard | 1999 | Advanced Cross-linking Technology ACT) Sdn. Bhd. | 3,690,000 |
| Design and Development of a transportable palm-oil trunk shredding machine | 1998 | Yen Huat Sdn. Bhd. | 2,320,000 |
| Development of a suitable machinery to produce empty fruit bunch fibres for the manufacture of MDF | 1997 | Soon Seng Sdn. Bhd. | 5,835,000 |

**2.0 DEVELOPMENT OF STANDARDS FOR TMBER AND TIMBER-BASED PRODUCTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Particular** | **Secretariat/sponsor** | **Position** | **Period** |
| **INTERNATIONAL STANDARDS** |
| Delegasi Malaysia ke ISO TC 89 Wood Based Panels, Turino, Italy  | Standard Malaysia/ MTIB | Ketua Delegasi | 17-21 May 2015 |
| Delegasi Malaysia ke ISO TC 218 Kayu, Stockholm, Sweden | Standard Malaysia/MTIB | Ketua Delegasi | 28 Sep-2 Okt 2015 |
| Delegasi Malaysia ke ISO TC 218 Kayu, Paris, Perancis | Standard Malaysia/MTIB | Ketua Delegasi | 29 Sep-3 Okt 2014 |
| Delegasi Malaysia ke ISO TC 218 Kayu, Vienna, Austria | Standard Malaysia | Ketua Delegasi | 23-27 Sep 2013 |
| Delegasi Malaysia ke ISO TC 89 Wood Based Panels, Kuchl, Austria  | Standard Malaysia/ MTIB | Ahli Delegasi | 21-24 May 2013 |
| Delegasi Malaysia ke ISOTC 218 Kayu, Rotorua, New Zealand | Standard Malaysia | Ketua Delegasi | 24-28 Sep 2012 |
| Delegasi Malaysia ke ISO TC 218 Kayu, Kharkiv, Ukraine | SIRIM | Ahli Delegasi | 4-7 Oct 2011  |
| Delegasi Malaysia ke ISO TC 89 Wood Based Panels | UPM | Ahli Delegasi | 24-27 Mac 2010 |
| Delegasi Malaysia ke ISO TC 218 Kayu dan Produk Kayu, Minsk, Belarus | UPM | Ketua Delegasi | 15-19 June 2009 |
| Delegasi Malaysia ke ISO TC 218 Kayu dan Produk Kayu, Kuala Lumpur, Malaysia | SIRIM | Ahli Delegasi | 5-9 July 2008 |
| Delegasi Malaysia ke ISO TC 218 Kayu dan Produk Kayu, Liev, Ukraine | UPM | Ahli Delegasi | 17 - 21 July 2007 |
| Delegasi Malaysia ke ISO TC 89/SC3 Plywood and Laminated Veneer Lumber (LVL), Bordeaux, France. | SIRIM/UPM | Ketua Delegasi | 19-21 April 2006 |
| Delegasi Malaysia ke ISO TC 218 Kayu dan Produk Kayu, Kiev, Ukraine | UPM | Ahli Delegasi | 26 June -2 Julai 2006 |
| Delegasi Malaysia ke ISO TC 89 Wood-based Panel, Tokyo, Jepun | Kerajaan Jepun | Ketua Delegasi | 14-17 Nov. 2006 |
| **MALAYSIAN STANDARDS** |
| International Standard Committee for Timber | MTIB | Member | 2013-present |
| Technical Committee for Timber and Timber Products | MTIB | Member | 2007-present |
| Technical Committee Biocomposites | SIRIM | Chairman | 2008-2014 |
| SubCommettee for Wood-based Panel | MTIB | Chairman | 20014- 2015 |
| SubCommittee for Timber | MTIB | Chairman | 2009- 2014 |
| SubCommittee Structural Timber | MTIB | Member | 2009-present |
| Working Group Committee on Oil Palm Plywood Standards.MS \_\_\_: | MTIB | Chairman | 20013-present |
| Working Group Committee on Plywood (2nd Revision).MS \_\_\_: | MTIB | Chairman | 2014-present |
| Working Group Committee on Wood/Fiber Plastic Compsoites.MS \_\_\_: | MTIB | Chairman | 2004-present |
| Working Group Committee on Adhesive Standards.MS \_\_\_: | SIRIM | Member | 2007-2008 |
| Working Group Committee on Standards for High Density Fibreboard: Products Specifications.MS \_\_\_: | MTIB | Member | 2001- 2007 |
| Working Group Committee on Standards for Particleboards: Products Specifications.MS \_\_\_: | MTIB | Member | 2001- 2007 |
| Working Group Committee on Standards for Code of Practice for the Structural Use of Timber: MS 544: Part 12. Structural Laminated Veneer Lumber | MTIB | Member | 2000- 2007 |
| Working Group Committee on Standards for Glued Laminated Products: Performance Requirements and Minimum Manufacturing Requirements (First Revision) MS 578. | CIDB | Member | 1998 - 2000 |
| Working Group Committee on Standards for Code of Practice for the Structural Use of Timber: MS 544: Part 3.Glued Laminated Products | CIDB | Member | 1998-2000 |
| Working Group Committee on Standards for Code of Practice for the Structural Use of Timber: MS 544: Part 4. Panel Products: Section 1: Structural Plywood | CIDB | Member | 1999-2000 |
| Working Group Committee on Standards for Code of Practice for the Structural Use of Timber: MS 544: Part 4. Panel Products: Section 2: Marine Plywood | CIDB | Member | 1999-2000 |
| Working Group Committee on Standards for Code of Practice for the Structural Use of Timber: MS 544: Part 4. Panel Products: Section 3: Cement-Bonded Particleboard | CIDB | Member | 1999-2000 |
| Working Group Committee on Standards for Code of Practice for the Structural Use of Timber: MS 544: Part 4. Panel Products: Section 4: Oriented Strand Board | CIDB | Member | 1999-2000 |
| Working Group Committee on Standards for Brown Paper and Paper Liner for Packaging Boxes | SIRIM | Member | 1996 |

**COMMITTEE MEMBERSHIPS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Particular** | **Secretariat** | **Position** | **Period** |
| **INTERNATIONAL**  |
| 1. Education Committee
2. Research Initiatives Committee
3. Visiting Scientists Committee
 | Society of Wood Science and Technology (SWST) | Member | 2007-present |
| WG4 Methods of Testing for Small Specimens Revision of 14 standards. | ISO TC 218: Timber - Secretariat: Ukraine | Convener | 2006-present |
| **NATIONAL**  |
| Lembaga Perolehan ‘A’ dan ‘B’ MTIB | MTIB | Ahli Tetap |  11 Nov 2015 |
| Jawatankuasa Pemandu Projek (PSC) Bagi Kajian Projek Penjenamaan Material Mapan – Akasia dan Batang Kelapa Sawit (OPT) | MTIB | Ahli Tetap | 25 Feb 2015 |
| Jawatankuasa Teknikal Projek (PTC) Bagi Kajian Projek Penjenamaan Material Mapan – Akasia dan Batang Kelapa Sawit (OPT) | MTIB | Ahli Tetap | 25 Feb 2015 |
| Jawatankuasa Pemandu Projek Penghasilan Benih Spesis Pokok Hutan Melalui Kaedah Bioteknologi-Kultur Tisu | MTIB | Ahli Tetap | 2015 |
| *Technical Committee: Wood Based Panels* | MTIB | Pengerusi | 20 Mac 2014 - 31 Disember 2015 |
| *Technical Committee: Timber* | MTIB | Ahli | 1 April 2014 – 31 Disember 2015 |
| Jawatankuasa Nasional Pembangunan Industri Buluh | MTIB | Ahli | 2014 |
| Teknikal Program Pembangunan Produk Kejuruteraan Kayu (ETP) Sebagai Struktur Dalam Industri Pembinaan | MTIB | Ahli | Mac 2014 |
| Jawatankuasa Standard Perindustrian (ISC) Kayu, Keluaran Kayu & Struktur Kayu | MTIB | Ahli Tetap | 2014-2015 |
| Jawatankuasa Teknikal Penyediaan Rancangan Pengurusan Sumber Buluh di Semenanjung Malaysia | JPSM | Ahli | 2013 |
| Jawatankuasa Penilaian Teknikal Tender | JKR | Ahli | 2013 |
| Jawatankuasa Pemandu Hala Tuju Biokomposit | MTIB | Ahli | 2013 |
| Jawatankuasa Pembangunan Industri Biokomposit dan Gentian | MTIB | Ahli | 2013 |
| Jawatankuasa Teknikal Dalam Sistem Pensijilan Produk MTIB | MTIB | Ahli Tetap | 2013 |
| Working Group Oil Palm Trunk Plywood | MTIB | Chairman | 2012 |
| Jawatankuasa Penasihat Plywood Certification Standard | MTIB | Ahli | 2012 |
| Jawatankuasa Kerja Merangkap Pengerusi Bagi Kumpulan Kerja (WG) Wood Plastic Composite | MTIB | Ahli/ Pengerusi | 2012 |
| Jawatankuasa Teknikal Plywood Certification Standard | MTIB | Ahli | 2012 |
| Jawatankuasa Induk Badan Peneraju Industri (ILB) Bagi Sektor Industri Perkayuan | MTIB | Ahli | 2012 |
| Jawatankuasa Kerja Teknikal Pembangunan Modal Insan | MPIC | Ahli | 2012 |
| Persatuan Industri Komposit Kuala Lumpur dan Selangor | PIK | Bendahari Kehormat | 2011 |
| Jawatankuasa Pemandu Kajian Pelan Induk Pembangunan Industri Kenaf (PIPK) | MPIC/NKTB | Ahli | 2011 |
| Jawatankuasa Pemandu Oil Palm Plywood | MTIB | Ahli | 2010 |
| Jawatankuasa Teknikal Oil Palm Plywood | MTIB | Ahli | 2010 |
| Jawatankuasa Pembangunan dan Penyelidikan Kenaf | NKTB | Ahli | 2009 |
| Jawatankuasa Pembangunan Standard Malaysia di bawah Skop Kayu, Produk Kayu dan Struktur Kayu | MTIB | Ahli | 2009-present |
| Jawatankuasa Induk NATIP | Kementerian Perusahaan Perladangan dan Komoditi | Ahli | 2009-present |
| Jawatankuasa Kerja Teknikal Pembangunan Modal Insan Sektor Perkayuan (NATIP) – JKT4 | Kementerian Perusahaan Perladangan dan Komoditi | Pengerusi Ganti | 2009-present |
| Jawatankuasa Induk R&D Kenaf | Kementerian Perusahaan Perladangan dan Komoditi | Ahli | 2009-present |
| Malaysian Forest Products Society (MFPS) |  | Exco-member | 2008-present |
| Jawatankuasa Penilai Projek Biokomposite | Kementerian Perusahaan Perladangan dan Komoditi | Ahli | 2007-present |
| Jawatankuasa Teknikal Kayu dan Keluaran kayu | MTIB | Ahli | 2007-present |
| Jawatankuasa Sub-Committee Timber | MTIB | Pengerusi | 2007 |
| **UNIVERSITY** |
| Jawatankuasa Program Baharu Bacelor Sains Teknologi Biosumber (BSTB) | UPM | Ahli | 2 Jan 2015 – 1 Jan 2018 |
| Jawatankuasa Penilaian Permohonan Skim Geran Penyelidikan Peringkat Universiti Tahun 2014 | UPM | Ahli | 2014 |
| Jawatankuasa Penasihat Fakulti Rekabentuk dan Senibina UPM | UPM | Ahli | 2014-2017 |
| Jawatankuasa Akreditasi Program Bacelor Sains Teknologi Kayu (BSTK) | UPM | Ahli | 2014 |
| Jawatankuasa Penyemakan Semula Program Bacelor Sains Teknologi Kayu (BSTIK) Fakulti Perhutanan | UPM | Ahli | 4 Jul 2014 – 3 Jul 2017 |
| Jawatankuasa Saringan Kenaikan Pangkat Fakulti Perhutanan  | UPM | Pengerusi | 2 Jun 2014 – 2 Jun 2017 |
| Jawatankuasa Penyelidikan dan Inovasi Fakulti Perhutanan | UPM | Ahli | 2 Jun 2014 – 2 Jun 2017 |
| Jawatankuasa Akademik (Pra Siswazah dan Siswazah) Fakulti Perhutanan | UPM | Ahli | 2 Jun 2014 – 2 Jun 2017 |
| Jawatankuasa Penasihat Fakulti Perhutanan | UPM | Ahli | 8 Apr 2014- 7 Apr 2017 |
| Jawatankuasa Konferensi Fakulti Perhutanan | UPM | Ahli | Mac 2014 – Sep 2015 |
| Jawatankuasa Editor Penerbitan Buku Forest Products Fakulti Perhutanan | UPM | Ahli | 2014 |
| Jawatankuasa Kerja Penyelidikan Universiti | UPM | Ahli | 2014-2016 |
| Jemaah Pengarah Institut, UPM | UPM | Timbalan Pengerusi | 2013 |
| Program Penyelidikan UPM (Biofibre Sciences and Technology) | UPM | Ketua Program | 1 Apr 2013 – 31 Mac 2015 |
| Jawatankuasa Liasson AMIC | UPM | Ahli | 2012-2014 |
| Pusat Penyelidikan Aerospace Research Centre (ARC) | UPM | Penyelidik Bersekutu | 2012 |
| KPPK-UPM Annual Dialogue | UPM-KPPK | Head Secreatriat | 2009 - present |
| KPPK-UPM Annual Dialogue | UPM-KPPK | Deputy Head Secreatriat | 2005-2008 |
| Joint Technical Committee Sector: Timber and Biocomposite | UPM-MTIB | Joint Chairman | 2009- |
| Jawatankuasa Think Tank Pembangunan Modal Insan Sektor Perkayuan | UPM | Chairman | 2009-present |
| Lembaga Senat UPM | UPM | Ahli | 2009-present |
| Jemaah Pegawai Kanan Universiti | UPM | Ahli | 2009-present |
| Jemaah Pengurusan Institut |  | Ahli | 2009-present |
| Jawatankuasa Penyelidikan Universiti | UPM | Ahli | 2009-present |

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