

CURRICULUM VITAE

Name : SHAMSUL BAHRI BIN ABD RAZAK
Department :
Post : ASSOCIATE PROFESSOR
Gender : MALE
Race : MALAY
Nationality : MALAYSIA
Address : 29399 Taman Perumahan Dr. Mohd Sulaiman
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ACADEMIC QUALIFICATION

(Institute),(Qualification),(Discipline),(Year)

University of Durham, United Kingdom, Assoc. Professor, Botany, Plant cell biology, microscopy, 2000

PROFESSIONAL QUALIFICATIONS

(Qualification),(Discipline),(Awarding Institute),(Year Awarded).

PREVIOUS APPOINTMENT

(Post),(Organisation),(From)-(Until)

Senior Research Officer, Rubber Research Institute of Malaysia/Lembaga Getah
Malaysia, July 1992-October 2012

ADMINISTRATIVE DUTIES

(Role),(From)-(Until),(Level), (Organisation)

Program leader for one of the programs in "Plan Strategik UMT 2013-2017,
October 2013, September 2017, U, Universiti Malaysia Terengganu

Coordinator for Crop science laboratories, December 2013, Present, D, School of Food
Science and Technology

Advisor to scanning electron microscopy laboratories, April 2013, Present, D, INOS,
UMT

Coordinator, January 2014, November 2015, F, School of Food Science and
Technology

RESEARCH

(Project title),(Role in project),(From)-(Until),(Source),(Level).

Microscopy and Immunochemistry studies on eight native Hevea species (1995 Amazon
collection), April 2013 - In Progress, KPT, National

Assessment of Setiu Wetland Forests (gelam and mangroves) health and their

ecological functions, December 2013 - In Progress, KPT, National

Kesan inokulasi kulat tempatan terhadap anatomi kayu serta kualiti kandungan kimia gaharu dihasilkan oleh *Aquilaria malaccensis* Lam. (Karas)., September 2013 - In Progress, Unit Perancangan Negeri, Terengganu, National

Profiling polyphenol composition in latex of different *Hevea* species and effluent from rubber processing, January 2015 - In Progress, KPT, National

Genetic Variation of Rigidoporous *Lignosus* Isolates Associated with White Root Rot Disease of Malaysian Recommended Rubber Clones, January 2015 - In Progress, KPT, National

Catechins, anthocyanidins, flavonols, flavones, flavonones in leaves of selected mangrove species in Setiu Wetland as potentially antioxidative remedy compounds, March 2015 - In Progress, KPT, National

Inovasi Sosial - Kelulut Bersama Komuniti, July 2015 - In Progress, UMT, National

Palynology and Melissopalynology of stingless bee (kelulut) in Setiu Wetlands toward national and beekeeping sustainability, July 2014 - In Progress, KPT, National

PROFESSIONAL AFFILIATIONS

(Client),(Role),(From)-(Until).

Microscopy Society Malaysia, Vice President, March 2014 - March 2016

Electron Microscopy Society Malaysia, Committee member, January 1992 - Present

Malaysian Society of Plant Physiology, member, January 1992 - Present

EXPERT TECHNICAL/CONTRIBUTION

(Activity),(Client),(Role),(From)-(Until),(Level).

AWARD AND RECOGNITIONS

(Awards),(Awarding Institute),(Year),(Level).

Gold medal, the 3rd International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX 2002),, 2002, International

Gold medal, (INPEX 2002), Monroeville Expomart, Pittsburg USA, 2002, International

Bronze medal, the 30th International Exhibition of Inventions, New Techniques and Products, 2002, Palexpo, Geneva, 2002, International

Rubber Research Best Technical Paper Award 2002, Malaysian Rubber Board, 2002, Department

Silver medal, Malaysia Technology Expo (MTE 2011), 2011, National

Bronze medal, The 2nd Exposition on Islamic Innovation (i-Inova 2011), 2011, National

Gold medal, The 23rd International Invention, Innovation and Technology Exhibition ITEX 2012, 2012, International

Gold medal, The 3rd Exposition on Islamic innovation (i-Inova 2012), 2012, National

Silver medal, Seoul International Invention Fair 2012 (SIIF 2012), 2012, International

Anugerah khidmat bakti, Microscopy Society Malaysia, 2013, National

ITEX Silver medal, Malaysian Invention and Design Society, 2014, International

Gold Medal, Inovasi @ UMT 2015 Universiti Malaysia Terengganu, 2015, University

KEYNOTE ADDRESS / INVITED SPEAKER

(Title),(Event),(Venue),(Organizer),(Date),(Level).

Laticifers and latex characterization of eight Hevea species, The 21st Scientific conference of Microscopy Society Malaysia, Renaissance Hotel, Kota Bharu, Kelantan, Universiti Sains Malaysia, 23/11/2012, National

Quality improvement of rubber plantation using new hevea genetic materials, The first Asia pacific Rubber Conference (APRC), Diamond Plaza Hotel, Suratthani, Thailand, Prince of Songkla University, Thailand, 06/09/2013, International

Microscopy observation of *Corynospora cassiicola* infections on the leaves of *Hevea brasiliensis*, International Scientific Conference Plant Protection for ecological sustainability of agrobiocenoses, Altyn Kargaly, Almaty, Kazakhstan, Kazakhstan Research Institute for Plant Protection & Quarantine, 23/04/2014, International

Perbezaan Lebah dan kelulut, Seminar Lebah Negeri Perak, Hotel Casuarina, Perak, Jabatan Pertanian Negeri Perak, 01/01/2015, National

Rumusan Jelajah Kelulut Semenanjung Malaysia, Seminar Kelulut UMT 2015, UMT, Universiti Malaysia Terengganu, 30/07/2015, National

INTELLECTUAL PROPERTY RIGHTS

(Product),(Type),(Year),(Year Awarded).

Image recognition system for Hevea clones, PAT, 2012, 2012

Madu Jabee, TRM, 2015, 2015

UNPATENT INTELLECTUAL PROPERTY RIGHTS

(Product),(Type),(Reg. No),(Owner),(Cost)

PUBLICATIONS

(Publication),(Level).

Articles in Journals

N. Yuhana, S. Ahmad and A.R. Shamsul Bahri, (2012), *The Effect of treatment on thermal stability of the cured epoxy/layered silicate nanocomposite*, Advances in

M.I. Ahmad Fitrie, H. Anuar, M. N. Nur Aisyah, M.N. Nur Aimi, S.M. Nuhafizah, M. Mel, R. Othman and A.R. Shamsul Bahri, (2012), *Characterization on surface modification of kenaf biomass via microbial fermentation*, Advanced Materials Research, Vol Vol. 576 : 268 -271

Yuhana, N.Y. and Ahmad, S. and Kamal, M.R. and Jana, S.C. and Shamsul Bahri, A.R, (2012), *Transmission electron microscopy study of room temperature cured PMMA grafted natural rubber toughened epoxy/layered silicate nanocomposite*, Plastics, Rubber and Composites, Vol Vol. 41(9) : 390-395

Jamal, N.A. and Anuar, H. and Azlina, H.N. and Shamsul Bahri, A.R., (2012), *Thermogravimetric analysis of OMMT filled HDPE/EPDM treated EB irradiation*, Advanced Materials Research, Vol Vol. 576 : 362-365

Shamsul Bahri Abd Razak, Badrul Ezam Badaruddin and Ong Chin Wei, (2012), *Image Recognition System For Hevea Clones*, Malaysian Rubber Technology Development, Vol Vol. 12(2) : 11-15

Wan Nor Raihan Wan Jaafar, S.N. Surif, Nur Naziha Azmi, N.N. Bonnia, H. Anuar, H.N. Azlina and S.B. Abd Razak, (2012), *Thermal properties of PLA/Kenaf green nanocomposite: Effect of Chemi-Mechanical treatment*, Advanced Materials Research, Vol Vol. 576 : 342-344

Kaiser, M.R. and Anuar, H. and Shamsul Bahri. A.R., (2012), *Dynamic mechanical behaviour of poly ethylene glycol plasticized polylacticacid*, Advanced Materials Research, Vol Vol. 576 : 224-227

Mou'ad. A. Tarawneh, Sahrim Hj. Ahmad, Shamsul Bahri A.R. and Yu Lih Jiun, (2013), *Mechanical properties of TPNR-MWNTs-OMMT Hybrid Nanocomposites*, Advanced Material Research, Vol Vol. 501 : 194-198

Mou'ad A. Tarawneh, Sahrim Hj. Ahmad, K.A. Ku Zarina, Ibrahim N. Hassan, Yu Lih Jiun, Moayad Husein Flaifel and Shamsul Bahri A.R., (2013), *Properties Enhancement of TPNR-MWNTs OMMT hybrid Nanocomposites by using Ultrasonic Treatment*, Sains Malaysiana, Vol Vol. 42(4) : 503-507

Shamsul Bahri A. R., Ong C.W, Jamilah M.S and Ariffin M.M, (2013), *Transmission electron microscopy (TEM) study on rubber particles in laticifers of native Hevea species.*, Malaysian Journal of Microscopy, Vol Vol. 9 : 140-144

Moayad Husein Flaifel, Sahrim Hj Ahmad, Aziz Hassan, Shamsul Bahri A.R., Mou'ad A Tarawneh and Lih-Jiun Yu, (2013), *Thermal conductivity and dynamic*

mechanical analysis of NiZn ferrite nanoparticles filled thermoplastic natural rubber nanocomposite, Composites Part B: Engineering, Vol Vol. 52 : 334-339

Asmawi D.H.A, Nik Ismail N.I., Shamsul Bahri A.R., (2013), *Morphology, Physical and Flame retardant properties of Epoxidised Natural Rubber (ENR) organoclay compound.*, Journal of Rubber Research, Vol Vol. 16(2) : 91-100

Kaiser M.R, Anuar H. and Shamsul Bahri A.R., (2013), *Ductile-brittle transition temperature of polylactic acid-based biocomposite*, Journal of Thermoplastic Composite Materials., Vol Vol. 26(2) : 216-226

Salmah Tajuddin, Nasriyah Mat, Abdul Ghani Yunus and Shamsul Bahri A.R., (2013), *Anatomical Study of Stem, Petiole, Leaf, Tuber, Root and Flower of Dioscorea hispida Dennst. (Dioscoreaceae) by Using Optical Microscope, SEM and TEM*, J. Agrobiotech., Vol Vol. 4 : 33-42

Zawawi E.Z.E, Ahmad S., Rasid R. and Shamsul Bahri A.R, (2013), *Characterisation and properties of HDPE/NR-blend layered silicate nanocomposites prepared by melt intercalation*, International Journal of Materials Engineering Innovation, Vol Vol. 4 : 343-354

Kaiser M.R., Anuar H., Samat N, Shamsul Bahri A.R., (2013), *Effect of processing routes on the mechanical, thermal and morphological properties of PLA-based hybrid biocomposite*, Iranian Polymer Journal, Vol Vol. 22(2) : 123-131

Shamsul Bahri A.R., Ong Chin Wei and Shihabuddin M., (2013), *An Android-based image recognition system for Hevea brasiliensis.*, Soil-Water Journal, Vol Vol. 2(2) : 1661-1666.

Shamsul Bahri A.R., (2014), *Evaluation of possible natural latex substitutes from artificially prepared latex using transmission electron microscopy*, Journal of Natural Sciences Research, Vol Vol. 4(2) : 144-146

Shamsul Bahri A.R., (2014), *A Solvent-swelling method to visualize rubber particles network in biodegraded household Natural Rubber (NR) latex gloves*, Journal of Natural Sciences Research, Vol 4(3) : 1-6

M. Masitah, A.R. Shamsul Bahri, Jamilah M.S. and Salwani Ismail, (2014), *Histological observation of Gelam (Melaleuca cajuputi Powell) in different ecosystems of Terengganu.*, Journal of Biology, Agriculture and Healthcare, Vol 4(26) : 1-7

Ong Chin Wei and Shamsul Bahri A. R., (2014), *The selection for high rubberwood yielding genotypes in 1995 Hevea germplasm, Rantau Panjang Forest Reserve,*

Nor Yuliana Yuhana, Sahrim Ahmad, Mahmood Mebrabzaded and Shamsul Bahri Abd Razak, (2014), *Thermal and flexural properties of room-temperature cured PMMA grafted natural rubber toughened epoxy layered silicate nanocomposite*, International Journal of Nano and Biomaterials., Vol 5(1) : 45-58

Ong Chin Wei and A.R. Shamsul Bahri, (2014), *The introduction of rubber planting recommendations by The Rubber Research Institute of Malaysia since 1925*, Journal of Biology, Agriculture and Healthcare, Vol 4(11) : 49-53

Shamsul Bahri A.R. and Siti Asma' Samsuddin, (2015), *Microscopy Observation on Pollen from Foraging Activity of Indo-Malayan Stingless Bee Species (Heterotrigona itama) at Besut, Terengganu*, Malaysian Journal of Microscopy, Vol 11 : 1-6

Articles in Proceedings

Shamsul Bahri A.R. and Ong Chin Wei (2014), *Microscopy observation of Corynospora cassiicola infections on the leaves of Hevea brasiliensis*, Information Bulletin IOBC EPRS vol. 46, 01/01/2014, 01/01/2014, Almaty, Kazakhstan

Shamsul Bahri, A.R. (2015), *Pollen Source of Apis mellifera in Terengganu, Malaysia*, Proceeding of the 8th ASEAN Microscopy Conference, University Kasetsart, Thailand, 28/01/2015, 30/01/2015, Kasetsart, Thailand

EXPERT LINKAGES

(Client),(Linkage),(Year Involve),(Duration),(Level Award).

ACADEMIC PROJECT SUPERVISION

(Student's Name),(Degree),(Thesis Title),(Year Awarded).

Ong Chin Wei, Doctor of Philosophy, Phenotypic profiling of rubber species (Hevea spp.) from the germplasm collection., N/A

Muhamad Azri Bin Abdul Aziz, Bachelor, Effect of organic fertilizers on growth, flowering and fruit quality of okra in bris soil., N/A

Norezienda Afiffi Binti Abd Rahman, Bachelor, Effects of storage in tea making from different cultivar of roselle, N/A

Nor Hafifah Binti Abd Rahman, Bachelor, Effect of different organic fertilizers on growth and quality of Solanun mlangena, N/A

Nurl Husna Binti Shafie, Bachelor, Effect of different concentration of CaCl₂ on controlling disease and maintaining quality of chili., N/A

Muhammad Hazwan Aizat bin Mohd, Bachelor, Studies of different packaging system on postharvest quality of okra, N/A

Siti Norasmah Binti Surip, Doctor of Philosophy, Kesan teknik Penyediaan ke atas sifar mekanik dan terma nanokomposit termoplastik getah asli berpengisi nanozarah tanah liat, 2007

Muhamad Amin Bin Shukor, Bachelor, Growth of Melaleuca cajuputi seedlings in degraded coastal area, N/A

Siti Murni Binti Md. Yusof, Bachelor, Growth of Melaleuca cajuputi seedlings in degraded BRIS soil ecosystem, N/A

Nor Azifah, Bachelor, Growth of Melaleuca cajuputi seedlings in degraded mangrove area, N/A

Nur Ayuni Jamal, Master, The Effects of High Energy Radiation on the Mechanical Properties of Ruber Toughened nanocomposite, 2011

Mohammad Rejaul Kaiser, Master, Effect of nanoclay on the mechanical and thermal properties of kenaf fibre reinforced polylacticacid (PLA) hybrid composite, 2012

SUBJECT TAUGHT

(Subject),(Session),(Credit Hour),(Student Level),(Organisation).

PENGENDALIAN SISA PERTANIAN, Semester 6, 3, 64, 3, Universiti Malaysia Terengganu

POMOLOGI, Semester 5, 3, 66, 3, Universiti Malaysia Terengganu

FLORIKULTUR, Semester 5, 3, 68, 3, Universiti Malaysia Terengganu

EXPERT CONSULTATION

(Consultation),(Role),(Client),(Level), (From - Until), (Cost).

COMMERCIALIZATION

(Comm. Type),(Industry Type),(Product),(Company Name),(Comm. Value).

EXPO/EXHIBITION

(Expo),(Venue),(Organizer),(Level),(Date),(Cost).

Seoul International Invention Fair 2012 (SIIF 2012), Seoul, Korea, Korea Invention Promotion Association, National, 01/11/2012

the 3rd Exposition on Islamic innovation (i-Inova 2012), Seremban, N. Sembilan, Universiti Sains Islam Malaysia, National, 21/10/2012

the 23rd International Invention, Innovation and Technology Exhibition ITEX 2012, KLCC, K. Lumpur, Malaysian Invention and Design Society, National, 17/05/2012

the 23rd International Invention, Innovation and Technology Exhibition ITEX 2012, KLCC, K. Lumpur, Malaysian Invention and Design Society, National, 17/05/2012

the 2nd Exposition on Islamic Innovation (i-Inova 2011), Seremban, N. Sembilan,

Universiti Sains Islam Malaysia, National, 01/10/2011

IIUM invention, research and innovation (IRIIE 2011), UIAM, K. Lumpur, Universiti Islam Antarabangsa, National, 01/01/2011

Malaysia Technology Expo (MTE 2011), PWTC, K. Lumpur, Malaysian Association of Research Scientist, National, 17/02/2011

the 30th International Exhibition of Inventions, New Techniques and Products, 2002, Palexpo, Geneva, Organisation du Salon, National, 01/01/2002

The World's Largest Innovation/New Product Exposition (INPEX 2002), Pittsburgh, USA, Tradeshow, National, 15/05/2002

the 3rd International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX 2002), KLCC, K. Lumpur, Malaysian Invention and Design Society, National, 30/03/2002

the 25th International Invention, Innovation and Technology Exhibition ITEX 2014, KLCC, Kuala Lumpur, Malaysian Invention and Design Society, National, 08/05/2014

EXTERNAL/INTERNAL/INDEPENDENT EXAMINER

(Candidate/Body),(Degree Level),(Role),(From)-(Until).

EXTERNAL REVIEWER/EDITORIAL

(Activity),(Role),(From)-(Until)

Malaysian Journal of Microscopy, Editor, 01/03/2014 - 01/05/2016

Buletin Agarotek, Editor, 01/01/2014 - 01/12/2015

ATTENDED COURSE/SEMINARS

(Name of Seminar/Course),(Role),(From)-(Until),(Place),(Title of Paper Presented - if applicable).

Plant protection for ecological sustainability of agrobiocenosis, Invited speaker, 21/04/2014 - 24/04/2014, Almaty, Kazakhstan, Microscopy observation of *Corynospora cassiicola* infections on the leaves of *Hevea brasiliensis*

First Asia Pacific Rubber Conference 2013, Invited speaker, 05/09/2013 - 06/09/2013, Suratthani, Thailand, Quality Improvement of Rubber Plantation using new Hevea Genetic Materials

The 22nd Scientific conference of Microscopy Society Malaysia, Co-chairman of the conference, 26/11/2013 - 28/11/2013, Kuala Terengganu, Transmission electron microscopy (TEM) study on rubber particles in laticifers of native Hevea species

The First Central Asia Congress on Modern technologies and plant nutrition, sponsored speaker, 01/10/2013 - 03/10/2013, Bishkek, Kyrgyzstan, An Android-based image recognition system for *Hevea brasiliensis*.

The 21st Scientific Conference Of The Microscopy Society Malaysia, Invited speaker, 22/11/2012 - 24/11/2012, Kota Bharu, Kelantan, Laticifers and latex characterization of 8

Hevea species.

the 17th International Microscopy Congress, speaker, 19/09/2010 - 24/09/2010, Rio de Janeiro, Brazil, Rubber particle membrane proteins (14kD & 24kD) immunochemistry analysis of eight Hevea species

the 7th ASEAN Microscopy Conference, speaker, 03/12/2009 - 05/12/2009, Bali, Indonesia, Anatomy and Morphology observation on Hevea spp. From the 1995 germplasm collection

The 15th. Scientific Conference of Electron Microscopy Society of Malaysia, speaker, 05/12/2006 - 07/12/2006, Kuala Terengganu, A method to visualize the crosslinked region of NR latex films with transmission electron microscopy (TEM).

PROFFESIONAL DEVELOPMENT

(Name of Training),(From)-(Until),(Place),(Sponsor).

INTERNSHIP SUPERVISION

(Student Name),(Organisation),(From)-(Until)

STUDENT ADVISORY

(Matric),(Student),(From)-(Until).

GSK 1712, Ong Chin Wei, 14/05/2013 - Present

P27078, Siti Norasmah Bt Surip, 01/01/2005 - 30/12/2007

G0813944, Nur Ayuni Bt Jamal, 12/05/2009 - 11/05/2011

G1013611, Mohammad Rejaul Kaiser, 12/10/2011 - 10/10/2013

UK2506, Muhamad Azri Bin Abdul Aziz, 01/10/2013 - Present

UK26843, Norezienda Afiffi Binti Anuar, 01/10/2013 - Present

UK27279, Nor Hafifah Binti Abd Rahman, 01/10/2013 - Present

UK24787, Nurul Husna Binti Shafie, 01/10/2013 - Present

UK26867, Muhammad Hazwan Aizat Bin Mohd, 01/01/2013 - Present

UK25557, Muhamad Amin Bin Shukor, 01/10/2013 - Present

UK25841, Siti Murni Binti Md Yusoff, 01/10/2013 - Present

UK26636, Nor Azifah Bt Mhd Hanafi, 01/10/2013 - Present

OTHER CONTRIBUTIONS

(Activity),(Role),(From)-(Until),(Level).

Penyelaras makmal sains tanaman, Menyelaras makmal, 01 January 2014 - Present,

National