

ASM 2026 EDITION EXPERT NETWORK

Leaders | Advocators | Discoverers | Practitioners | Collaborators | Communicators |
Innovators & Inventors of Science, Engineering & Technology

20
26

Think Science | Celebrate Technology | Inspire Innovation



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ABOUT



The Academy of Sciences Malaysia (ASM) is a statutory body under the purview of the Ministry of Science, Technology and Innovation (MOSTI). As a Thought Leader, ASM provides strategic advice to the Government through its expert network for matters related to Science, Technology, Innovation and Economy (STIE).

ASM's membership currently stands at 1,116 expert network that consists of Fellows across eight disciplines, Top Research Scientists Malaysia (TRSM) recipients, Young Scientists Network (YSN-ASM), Associates, and the Mahathir Science Award Laureates, enabling ASM to fulfil its mandate effectively. This diverse and inclusive expertise strengthen ASM's ability to provide comprehensive perspectives on STIE-related matters.

Over the years, ASM has played a pivotal role in offering strategic guidance on the formulation of STIE-related policies through more than 150 studies and initiatives till date. ASM has evolved beyond its traditional Think Tank role of recommending actions to be taken and now function as a Changemaker, demonstrating 'how to do the how' through mission-oriented programmes. ASM actively collaborates across ministries in transdisciplinary studies, contributing to the nation's development. ASM aspires to contribute towards building a progressive, harmonious, prosperous, and sustainable society both nationally and globally.

ASM's studies are carried out under the leadership of Expert Network, subject matter experts in their respective fields. ASM conducts strategic and foresight studies,

producing evidence-based, independent, and timely reports, position papers, blueprints, roadmaps, and reviews. This includes supporting projects that apply STIE knowledge and technology to address local challenges, enhance state economies, and improve the well-being of communities.

Beyond its advisory role, ASM pioneers new directions through its flagship programmes, which are designed to inspire action by relevant stakeholders. ASM demonstrates practical solutions through pilot initiatives and social innovation projects. Many of these efforts go beyond traditional science and technology disciplines, incorporating insights from social sciences, humanities, and economics to provide more comprehensive and multidisciplinary perspective. As such, the Precision Biodiversity pilot at Pasoh Forest Reserve, the Rehabilitation of Gamat Emas project, and the Wireless Bridging project, to enable internet access for unserved and underserved communities.

ASM also plays an essential role in nurturing young talent and promoting science, technology, engineering, and mathematics (STEM) education and careers. A highlight of this commitment is the National Science Challenge (NSC), a prominent initiative that engages secondary school students and fosters their interest in scientific exploration and innovation. Through innovative public engagement initiatives like FASciate and ArtScience, ASM makes complex scientific concepts accessible and relatable to all, bridging the gap between science and society, while fostering public dialogue and understanding.

Recognising the global significance of STIE in driving economic prosperity and societal wellbeing, ASM fosters strategic international partnerships and networks to advance scientific understanding, enhance research quality, and address shared global challenges. By positioning Malaysian scientists on international platforms and facilitating their participation in global prestigious programmes, such as the Lindau Nobel Laureate Meetings and CERN Summer Students Programme (CSSP), ASM broadens their networks, and raises Malaysia's profile among international scientific community.

ASM plays a crucial and influential role on both national and international fronts, contributing to the advancement of science, policy, and global collaboration. ASM experts hold positions of great responsibility and influence, where they actively shape decisions and drive forward scientific innovation, such as in the International Science Council (ISC), InterAcademy Partnership (IAP), UNESCO Open Science Advisory Committee, and ASEAN Foresight Alliance.

Looking ahead, ASM will continue to drive scientific innovation, strengthening international collaboration, and positioning Malaysia as a leader in global scientific and technological advancement. Guided by our ethos, **'Think Science, Celebrate Technology, Inspire Innovation'**, we are committed to nurturing a vibrant STIE ecosystem that not only fuels national development but also makes meaningful contributions to solving global challenges.



ABOUT ASM

The Fellowship of ASM comprises esteemed scientists, engineers, and technologists who have made outstanding contributions in their respective fields. Fellows are recognised as leaders and distinguished experts, demonstrating significant engagement and impactful contributions across the domains of science, engineering, and technology. They must exhibit an unwavering commitment to advancing these areas and actively contributing to the nation’s scientific and intellectual growth.

Nominees for the Fellowship are individuals of exceptional merit, embodying the highest standards of integrity, decorum, and professionalism. They exemplify the qualities of an ASM ambassador, representing ASM with distinction at both national and international levels.

The Fellowship is conferred through a rigorous selection process encompassing eight core disciplines. It represents the pinnacle of recognition by the Government of Malaysia, celebrating the nation’s most exemplary scientific and intellectual leaders.

FELLOWS²⁰₂₆



75%
(413 FASc)



25%
(143 FASc)

556
Fellows

32
Senior
Fellows

524
Ordinary
Fellows



106 Biological,
Agricultural and
Environmental
Sciences



55 Mathematics,
Physics and
Earth Sciences



60 Chemical
Sciences



86 Medical and
Health Sciences



113 Engineering
Sciences



64 Science & Technology
Development and
Industry



31 Information
Technology
and Computer
Sciences



41 Social Sciences
and Humanities

2026 ASM SENIOR FELLOWS

SHAPING THE FUTURE OF EVIDENCE-BASED HEALTHCARE AND SCIENCE

Academician Professor Emeritus Datuk Dr Awg Bulgiba Awg Mahmud FASc

Academician Professor Emeritus Datuk Dr Awg Bulgiba Awg Mahmud FASc is widely recognised as an expert in clinical epidemiology, medical statistics, and health informatics. He currently serves as Digital Health Consultant for the Sarawak Public Health Master Plan 2050. Supported by the Sarawak Economic Planning Unit, he leads the development of a long-term master plan to improve health and healthcare in Sarawak.

Datuk Dr Awg Bulgiba received the Ma'al Hijrah Award for Outstanding Achievements in Research and Development from the Sarawak State Government in 2013. He was honoured with the University of Malaya Eminent Scholar Award in 2018, the highest award at Universiti Malaya (UM), and was awarded the Asia-Pacific Academic Consortium for Public Health (APACPH) Excellence in Leadership Medallion in 2018, in recognition of his leadership contributions, joining a select list of distinguished awardees which includes US Senator Edward Kennedy (1990) and Thailand House of Representatives Speaker Marut Bunang (1993).

His contributions to medicine and public health have been marked by a steady rise in professional leadership. Elected a Fellow of the Academy of Medicine Malaysia (FAMM) in 2013, he went on to lead the Malaysian regional chapter of the Asia-Pacific Academic Consortium for Public Health Kuala Lumpur (APACPH-KL) as President (2014–2021). He also served as Vice-President of the College of Public Health Medicine of AMM (2014–2016), and later as its Council Member (2019–2023), reflecting his sustained commitment to advancing public health and the medical profession in Malaysia.

Contributions in Areas of Science, Engineering and Technology

Datuk Dr Awg Bulgiba has played a key role in advancing science, engineering and technology through his scholarly publications, leadership of national research initiatives, and contributions to evidence-based policymaking. He has published more than 80 journal articles indexed in Web of Science, as well as numerous conference abstracts. He was the lead author of a book commissioned by the Ministry of Higher Education Malaysia (MOHE) titled “Strengthening Academic Career Pathways and Leadership Development”, used for the University Transformation Programme in Malaysia.

During the COVID-19 pandemic, he was appointed to head the COVID-19 Epidemiological Analysis and Strategies (CEASe) by the Ministry of Science, Technology and Innovation (MOSTI). He also chaired the Independent COVID-19 Vaccination Advisory Committee

(ICVAC), which provided independent advice to the Special Committee for Ensuring Access to COVID-19 Vaccine Supply. He appeared on television and radio and spoke about the disease through numerous webinars and online conferences. Following these media engagements, he published a book called “Viewpoints During a Pandemic”, capturing his perspectives on the pandemic from March 2020 to May 2022. This book is available in the libraries of public medical schools in Malaysia and the National Library.

Contributions to Education

He has made outstanding contributions to medical education and research leadership, shaping future generations of medical scientists while strengthening UM's global academic standing. He was the Acting Vice-Chancellor of UM twice. During this time, he established an endowment fund for UM, streamlined alumni efforts, and secured a special government allocation to support the University's development. During the same period, UM rose from 114th in the 2017/2018 QS World University Rankings to 87th in the 2018/2019 rankings, entering the QS Top 100.

He also served as its Deputy Vice-Chancellor (Research and Innovation) (2012–2015). During his tenure, he restructured the entire research and innovation portfolio, introduced innovative grant schemes, and implemented new research strategies. He encouraged large-scale transdisciplinary and translational research for accelerated interfaculty collaborations within UM and with international partners.

The Universiti Malaya Centres of Excellence (UMCoE) programme, initiated by Datuk Dr Awg Bulgiba, increased the number of Higher Institution Centres of Excellence (HICoE) at UM from just one in 2012, the UM Power Energy Dedicated Advanced Centre (UMPEDAC), to four within seven years. The four HICoE are (i) UMPEDAC, (ii) the Institute of Ocean and Earth Sciences (IOES), (iii) the Photonics Research Centre (PRCUM), and (iv) the Tropical Infectious Diseases Research & Education Centre (TIDREC). UM became the leading research university in 2015, with a Malaysian University Research Assessment (MYRA II) score of 94 (the highest ever recorded) and became the first Malaysian institution to achieve Association for Assessment and Accreditation of Laboratory Animal Care (AALAC) accreditation for its animal research facilities.

Later, Datuk Dr Awg Bulgiba served as UM Deputy Vice-Chancellor (Academic and International) (2015–2018). During this time, he restructured the Academic and International portfolios, created a Marketing and Recruitment Centre, revamped the UM EduCarnival, and

implemented UM's differentiated career pathways. He established the ASEAN University Network (AUN) thematic network at UM called the AUN-Disability and Public Policy Network (AUN-DPPnet), supported by the Nippon Foundation. He also started e-Learning Week in 2016 to offer undergraduate courses across three faculties entirely online for one week. This became part of UM's Business Continuity Planning, which proved useful when the COVID-19 pandemic hit Malaysia in 2020.

In addition to his contributions to UM, he has served as an external examiner or assessor for several public Malaysian universities, Monash University Malaysia, International Medical University, Chulalongkorn University, United Arab Emirates University, and Universiti Brunei Darussalam.



Contributions to ASM

Datuk Dr Awg Bulgiba has played a significant role in contributing to ASM's initiatives and development and has served in various capacities. He was elected a Fellow in 2013 under the medical and health sciences (MHS) discipline group. He served as an ASM Council Member (2012-2019) and later as Secretary-General (2019-2023). During his time as Secretary-General, he helped ASM streamline communications with Fellows and improve governance and procedures.

His contributions to ASM extended across publications, science communication, and institutional development, where he served as Chair of the ASM Publication Committee (2019-2023), a member of the ASM STIPAC Committee, and Editor-in-Chief of e-estidotmy (2021-2022). He also chaired several key ASM committees, including the ASM Awards Committee (2019-2023), ASM 25th Anniversary Committee (2019-2020) and ASM Act Review Committee (2021-2023). His contributions to ASM's strategic direction further included leading the development of the ASM Strategic Plan 2021-2025.

“Dreaming big, working hard, staying focused and surrounding oneself with good people,”

He has served as ASM representative on several international and national platforms, including the International Inter-Academy Partnership (IAP) on Urban Health since 2018. He is engaged in IAP's activities focused on urban health issues and related scientific collaboration. He was also an ASM representative to the Johor Science, Technology and Innovation (JOSTIC) Committee in 2019 and the International Inter-Academy Partnership on Health in All Policies (2018-2020).

He further contributed through committees such as the Special Interest Group on Zoonosis (2020-2021) and the Malaysian Code of Responsible Conduct in Research Committee (2019-2020). He was also a reviewer for several research grants and scientific awards, including the Newton-Ungku Omar Fund (2017-2018), Dr Ranjeet Bhagwan Singh Research Grant (2020, 2024), MAKNA Cancer Research Award (2015, 2023), ASEAN-US Science Prize for Women (2019, 2020, 2022), Underwriters Laboratories-ASEAN-US Science Prize for Women (2021), and the APEC Young Scientist Training Fellowship (2020, 2021).

He currently represents ASM on the Inter-Academy Partnership for Urban Health and is a member of the Tropical Science Foundation. He has also been contributing as a member of the ASM Membership Committee since 2019.

Datuk Dr Awg Bulgiba also led the Review and Formulation Study of the National Policy for Science, Technology and Innovation (NPSTI) 2021-2030, which was carried out in two phases: the NPSTI 2013-2020 Review Study and the NPSTI 2021-2030 Formulation Study. The policy has already yielded tangible national outcomes, including a strengthened National Science Council and the Malaysia Science Endowment.



Contributions at National & International Level

Datuk Dr Awg Bulgiba was the Malaysian coordinator for the Asia-Europe Clinical Epidemiology and Evidence-Based Medicine Programme in 2007-2010, a 4-way collaborative effort among UM, the University Medical Centre, Utrecht, the Centre for Evidence-Based Medicine, Oxford, and Rumah Sakit Cipto Mangunkusumo, Jakarta. This collaborative effort led to his appointment as founding and serving Head of the Julius Centre UM (JCUM) (2008-2012). JCUM, now known as the Centre for Epidemiology and Evidence-Based Practice (CEBP), has evolved into a premier centre for epidemiology and evidence-based medicine in Malaysia.

In 2023, Datuk Dr Awang Bulgiba was appointed as an International Science Council (ISC) Fellow in recognition of his contributions to science. He is among the 100 new ISC Fellows globally, established scientists and thought leaders from the research and science-policy spheres who have significantly advanced understanding, use, and engagement of science for the global public good.

He has also served on the National Specialist Register (NSR) Sub-committee for Public Health, which assesses applications for public health specialist status under the Malaysian Medical Council, and chaired the sub-committee from 2019 to 2021. He currently serves on the MoHE Research Fund Steering Committee, the MOSTI R&D Expert Panel, and the National Committee for Research Integrity (NCRI).

Across research, education, science policy and institutional leadership, his career has been marked by a sustained commitment to strengthening Malaysia's scientific enterprise. Through his work in advancing evidence-based practice, nurturing scientific talent, and building institutional capacity, he has helped shape a stronger, more connected science, technology and innovation ecosystem for Malaysia.

CULTIVATING SCIENCE, NURTURING BIODIVERSITY

Academician Dr Helen Nair FASc

Academician Dr Helen Nair FASc is a renowned expert in plant molecular biology and biotechnology. She is currently an Emeritus Member of the American Society of Plant Biologists and serves as an advisor to the Postharvest Biotechnology Laboratory at UM.

Dr Helen has been a Founder and Life Member of the Malaysian Society of Plant Physiology (MSPP), a professional scientific body that promotes the development of plant physiology as both pure and applied phases of botanical science. She served as the inaugural honorary secretary (1989 – 1993) and subsequently as its president (1993 – 1997). She was also an Expert Member of the Genetic Modification Advisory Committee (GMAC) under the Department of Biosafety and the National Biosafety Board at the Ministry of Natural Resources and Environmental Sustainability (NRES) (2010 – 2014). She continued her contribution to the National Biosafety Board as a board member from 2014 to 2017.

A recipient of the Malaysia Banana Research Icon Award at the Malaysia National Banana Congress 2021 in Kuala Lumpur, Dr Helen discovered a novel, low-cost technology to extend the green life of bananas by vacuum-pack storage in low-density polyethylene bags in 1987, which led international companies to develop BANAVAC bags for transporting value-added bananas.

Contributions in Areas of Science, Engineering and Technology

Dr Helen has played a pivotal role in advancing Malaysia's biosafety and biotechnology frameworks through expert advisory and policy leadership. She was appointed as ASM Subject Matter Expert in 2015 to support Surveillance and Biodefense through the Science and Technology Research Institute for Defence (STRIDE), Ministry of Defence. In this role, she helped to develop a National Code of Conduct for Biosecurity under the Biological and Toxin Weapons Convention. She then continued her service as a member of the National Technical Committee representing ASM for the implementation of the code of conduct.

She was also appointed as an expert to assist MOSTI in the Technical and Financial Evaluation of Science Fund Research Project applications in the Science and Technology Core Cluster in 2009. From 2010 to 2015, she served as an expert panel member for the evaluation of applications, monitoring, and disbursement of MOSTI's Research, Development, and Commercialisation Funding.

She has shaped Malaysia's biosafety frameworks and contributed to national biotechnology policy. In 2011, NRES appointed her as a biosafety expert to evaluate "Guidance on Risk Assessment of Living Modified Organisms". In 2014, she represented Malaysia at the Convention on Biological Diversity's Expert Forum on Risk Assessment and Risk Management, supporting the refinement of the Cartagena Protocol on Biosafety, an international agreement which aims to ensure the safe handling, transport, and use of living modified organisms (LMOs) resulting from modern biotechnology that may have adverse effects on biological diversity, taking also into account risks to human health.

“A fundamental proviso for success in science is a thirst for knowledge, the ‘whys, hows, and wherefores’ of life and all that around us”



Contributions to Education

Dr Helen has played a meaningful role in strengthening the education sector through her diverse academic and advisory contributions. She was a member of the expert panel at the National Accreditation Board that established the Biotechnology Standards and Criteria for the Teaching of Biotechnology in 2005. These guidelines helped ensure that biotechnology programmes maintain strong scientific foundations, laboratory training, and biosafety awareness.

In 2004, Dr Helen was appointed as an external advisor to the Faculty of Science Examination Board at UM for PhD candidates. She was subsequently appointed by the Universiti Putra Malaysia (UPM) Postgraduate School in 2005 as an external examiner for MSc and PhD theses. In this role, she evaluated postgraduate research to ensure the highest academic standards. Her expertise was particularly sought in the fields of biotechnology, plant science, and biosafety-related disciplines, where she provided critical assessments to uphold rigorous academic and scientific standards. She also served as an external assessor at UPM (2001 – 2003) to evaluate applications for promotion to the posts of associate professor or professor in the Faculty.

When AIMST University was established in 2001, her expertise was sought to help design the BSc (Hons) Biotechnology degree programme with specialisation in agricultural, industrial, and environmental biotechnology, the pre-medical programme, and the MSc Biotechnology Programme. She served AIMST University as Senior Professor of Biotechnology, also helping the position of Dean of the Department of Biotechnology (2001-2008) and of the Faculty of Applied Sciences (2005-2008). Her contribution to the development of AIMST University was immense, through her oversight of management and operations. She also coordinated the production of AIMST booklet to introduce AIMST and the development of AIMST documents, which include MQA review and validation visits (2002-2008). During her tenure at AIMST University, she also established the Orchid Greenhouse and Plant Growth Room for endangered and commercial orchids.



Dr Helen during a field trip to the Biodiversity Pilot Project under the Digitalisation & IoT Programme, alongside other ASM Fellows.

Contributions to ASM

Since her election as a Fellow in 2003, Dr Helen has played an active role in advancing ASM's work in biotechnology, biodiversity, and the wider science agenda under the biological, agricultural and environmental sciences (BAES) discipline group. She was elected to the ASM Council in 2019 and re-elected in 2021, serving until 2023.

As a Fellow, she has played an active leadership role in ASM's environmental and biodiversity-related committees, helping shape its programmes and national science strategies in biodiversity and biotechnology. She served on the ASM Biotechnology Committee in 2006 and the ASM Task Force on Biotechnology and Agriculture in 2007. She contributed to the BAES Discipline Group, as alternate chairperson (2013-2015), then as chairperson (2015-2019). Currently, she serves as the Chairperson of the Biodiversity Committee since 2021. Her expertise in biodiversity and biotechnology helps shape national science advisory reports and dialogues that intersect with other priority areas within ASM, which include water, energy, and health.

She chairs the ASM Precision Biodiversity (PBD) Task Force and Technical Committee, leading the "Digitalisation and IoT for Biodiversity" project at Pasoh Nature Reserve, a project undertaken by ASM under the 12MP (2022–2026). She also leads the ASM PBD Alliance of 16 organisations, driving real-time biodiversity management and technology adoption in Malaysia towards 2040. The pilot project serves as a sandbox for alliance members to implement precision biodiversity nationally in forests and nature reserves. She authored ASM's publication "Strategic Paper on Precision Biodiversity" while serving as Chairperson of the ASM Special Interest Group on PBD (2019 – 2020). Recognising her expertise, ASM also appointed her to the Steering Committee of Science Outlook 2020, where she led the Environmental Pillar of the study, then served on the ASM Expert Committee, commissioned by MOHE, to develop research and development strategies for the National Higher Education Plan 2007–2010.

She has also played a key role in numerous prestigious competitions and awards. Dr Helen has served as Chief Judge for ASM's flagship programme, National Science Challenge, in 2007, 2008, 2012, and 2018, and as a Judge in 2010 and 2023. She chaired the ASM Mahathir

Science Award (MSA) Technical Evaluation Committee for Tropical Agriculture nominations in 2008, 2015, and 2018, and was a member of the MSA Steering Committee in 2013. She also served on the Top Research Scientists Malaysia (TRSM) Project Working Committee from 2009 to 2012, which developed the selection criteria, evaluation mechanism, system, and database. TRSM was launched by ASM in 2012 as an initiative to recognise local leading research scientists.

Dr Helen contributed to MOSTI through the ASM Research, Development and Commercialisation Funding Working Committee, commissioned to produce a report on "Strengthening Research, Development and Commercialisation Funding" for the Strategic Action Plan 2010–2020. The plan aimed to expand research capacity, promote development, and enhance commercialisation of research.

Dr Helen was also a member of the ASM Selection Committee of Malaysian Scientists for the 2007 Meeting of Nobel Prize Winners with Young Scientists in Lindau, Germany. The annual gathering brings together Nobel Prize winners and the next generation of scientific minds.

Contributions at National & International Level

Dr Helen authored the 2021 Campaign for Nature report commissioned by the Convention on Biological Diversity Directorate on "Precision Biodiversity and Conservation: Economic Benefits". Together with her project team, she produced the ASM publication "The Nexus of Biodiversity: Conservation and Sustainable Socioeconomic Development in Southeast Asia", highlighting the ecological and economic links between biodiversity conservation and sustainable development.

She was appointed Co-Chair of the Scientific Committee for the ICT-BIO Asia Workshop 2016 in Kuala Lumpur, co-organised by ASM, Centre Universitaire Franco-Malaysia, the Embassy of France in Malaysia, and Universiti Malaya. The workshop addressed biomass and renewable energy, cybersecurity, smart cities, and health and well-being, bringing together leading scientists and stakeholders from Asia and France.

From the laboratory to the national science agenda, Dr Helen has consistently extended the reach of plant science, turning research into practical innovation, expertise into policy, and scientific knowledge into lasting contributions to Malaysia's biotechnology and biodiversity landscape.

2026 ASM FELLOWS



Professor Dr Ahmad Ainuddin Nuruddin FASc is an expert in forest sciences, specialising in forest fire management. His research has been pivotal in calibrating the Canadian Forest Fire Danger Rating System (FDRS) for application in Southeast Asia, enhancing the region's ability to assess and mitigate fire risks. He authored and co-authored over 130 peer-reviewed articles and book chapters and presented at numerous national and international conferences. His work earned 2,565 citations and an h-index of 24.

He was the project manager for the Sustainable Management of Peatland Ecosystems in Malaysia (SMPEM). This four-year initiative focused on conserving peatland resources and enhancing livelihoods, positively impacting 1,574 rural individuals, 73% of whom were Indigenous People. He served as a co-convenor for three International Union of Forest Research Organisations (IUFRO) World Congress Technical Sessions on Forest Fires, which showcased research findings from scientists around the world. He was also invited by IUFRO to the Global Forest Fire and Climate Change Experts meeting in Vienna to develop the World Bank issue paper, "Forest Fires as the Climate Warms". He further contributed to the US Agency for International Development (USAID) project to develop a climate change module for participating ASEAN universities.

Beyond forest fire research, Professor Dr Ahmad played a significant role in advancing arboriculture in Malaysia. As former President of the Malaysian Society for Arborists (PArM), he led the training of over 100 certified arborists. He also spearheaded the development of the "*Polisi Pengurusan dan Pemuliharaan Pokok Negeri Selangor*", as well as a book titled "*Kesan Abiotik Terhadap Pokok Ameniti*", which is now adopted by local authorities as a guideline for urban tree management and maintenance.

Professor Dr Ahmad Ainuddin Nuruddin FASc

Institute of Tropical Forestry
and Forest Products (INTROP)
Universiti Putra Malaysia

Areas of Expertise:

Forest Sciences > Forest Fire >
Forest Fire Management



Professor Dr Anjas Asmara @ Ab. Hadi Samsudin FASc

Director
Institute of Tropical
Agriculture and Food Security
Universiti Putra Malaysia

Areas of Expertise:
Livestock Production > Livestock Nutrition >
Gut Molecular Microbiology and Minerals

Professor Dr Anjas Asmara @ Ab. Hadi Samsudin FASc is a recognised expert in livestock nutrition, specifically in gut molecular microbiology and minerals. His research on selenium-enriched microbial systems and alternative feed resources contributed to improving nutrient efficiency and animal performance while reducing environmental impacts in livestock production. He authored more than 120 publications, with Scopus 2,388 citations and an h-index of 29.

His ability to integrate research, policy, and practice is reflected in consultancy roles with PLANMalaysia, various State Economic Planning Units, and industry partners, including contributing to the Development Plan for Enhancing Dairy Cattle Production for Dutch Lady Milk Industries Berhad. These collaborations delivered tangible outcomes in livestock development, capacity building, and technology transfer, strengthening Malaysia's agricultural ecosystem and rural economy. His initiatives, including the Community Transformation of Ruminant Farmers at Mukim Batu Talam, further empowered smallholder farmers through improved animal nutrition technologies, feeding management practices, and forage utilisation.

He has been appointed a member of the National Seed Committee, where he helps develop Malaysia's seed industry policies and standards to support quality assurance, genetic resource conservation, and national food security. He is also actively involved in ASM through his participation in the Agriculture Committee since 2025. Professor Dr Anjas's expertise is internationally recognised through invitations to deliver plenary lectures and speak at regional and global events on animal science and nutrition. He has established research and academic collaborations across ASEAN, Europe, and the Middle East, with partnerships in Indonesia, China, and France, fostering knowledge exchange and research innovation. He was listed in the World's Top 2% Scientists in 2023 and 2024, according to the Stanford University Report.



Professor Ts Dr Chong Khim Phin FASc

Faculty of Science and Technology
Universiti Malaysia Sabah

Areas of Expertise:
Plant Pathology > Bacterial and
Fungal Diseases > Biological
Control of Diseases

Professor Ts Dr Chong Khim Phin FASc is a plant pathologist specialising in the biological control of plant diseases. His research focuses on biocontrol of *Ganoderma* to address fungal threats in oil palms and on developing bio-fertilisers to enhance soil health and crop productivity. He contributed his scientific and technical knowledge through the discovery and promotion of several biological control and early detection of oil palm-*Ganoderma* infection. His research has resulted in over 150 publications, achieving an h-index of 27, with more than 2,600 citations.

In recognition of his expertise, he was appointed as the Felra Global Ventures (FGV) Chair of Sustainable Palm Oil Management (2017-2021). He has been actively collaborating with the palm oil industry, applying his expertise in biocontrol to enhance industrial practices. Bridging research with industry needs, he and his team have been involved in several consultancies with organisations such as Asian Agri Group, IOI Corporation Berhad, and Applied Agricultural Resources, addressing issues related to basal stem rot. He is frequently invited to deliver keynote addresses and serve as a visiting professor at institutions across Asia and beyond.

Professor Chong plays an active role in several national and state-level committees as well as professional bodies, contributing his expertise in palm oil sustainability, agricultural development and biotechnology. His notable initiatives include efforts to improve oil palm yields and livelihoods in Pinawantai, Kudat, as well as capsicum cultivation projects in Tande, improving the incomes of local communities in Sabah. He remains actively involved in ASM's activities, particularly through the ASM Sabah Chapter.



Professor Ts Dr Hidayah Ariffin FASc

Deputy Dean & Head of Biorefinery Complex
Faculty of Biotechnology and Biomolecular Sciences
Universiti Putra Malaysia

Areas of Expertise:
Bioprocess Engineering > Biomass Technology > Biopolymers > Nanocellulose

Professor Ts Dr Hidayah Ariffin FASc is an expert in bioprocess engineering, specialising in biopolymers and nanocellulose. She is a recognised expert in the field, providing strategic advice to the academic community, government, and industry. Her publications recorded a citation count of 6,943 and an h-index of 47. Her work on producing nanocellulose from local biomass positioned Malaysia at the forefront of nanomaterials research, offering a green alternative to petroleum-based materials. Her innovations earned her two Bioeconomy Innovation Awards at BioMalaysia 2017: Most Commercial Ready Product and Most Innovative Product. Her passion for research has resulted in six patents, two copyrights, and the successful commercialisation of two technologies. She has further licensed her nanocellulose technology to ZoepNano Sdn Bhd, Malaysia's first nanocellulose-based company, as well as Nextgreen Pulp and Paper Sdn Bhd.

Beyond her scientific achievements, she served as an expert contributor to key national frameworks, including the National Nanotechnology Roadmap (2021–2030), the National Advanced Materials Technology Roadmap (2021–2030), and the National Biomass Action Plan (2023–2030). She is currently leading two strategic policy initiatives: an assessment of the Engineering Biology landscape across ASEAN and the revision of Malaysia's National Biofuel Policy, and has been an active member of the ASM Science Journal Editorial Board since 2022.

Internationally, Professor Dr Hidayah has established strong collaborations with Mitsubishi Heavy Industries Japan, Nagase Singapore Pte. Ltd., and SCG Packaging PCL in Thailand, promoting knowledge transfer and industrial partnerships. She also represented Malaysia at numerous international platforms, delivering invited lectures and research presentations in Japan, Korea, and Australia, among others. Her leadership extends globally as a member of several international scientific committees and Secretary of the Nanomaterial Production Subcommittee under the TAPPI Nano Division.



Professor Dr Jamal Hisham Hashim FASc

Managing Director
Provenue Corporation Sdn Bhd

Areas of Expertise:
Environmental Sciences >
Environmental Health >
Risk Assessment and Management

Professor Dr Jamal Hisham Hashim FASc, Malaysia's first professor of environmental health (2003) at Universiti Kebangsaan Malaysia, is an expert in environmental health risk and impact assessment, as well as climate change and health. His research primarily focuses on the health effects of heavy metals, pesticides, solvents, and air pollution; risk assessment; and climate change. He was seconded as a research fellow to the United Nations University for 9 years until his final retirement in 2017. He is currently appointed as an honorary professor at Universiti Selangor and an adjunct professor at Universiti Teknologi MARA.

He played a key role in developing the practice of environmental health risk and impact assessment in Malaysia, particularly in its integration into environmental impact assessments (EIA). He helped to develop the Guidance Document on Health Impact Assessment (HIA) in EIA for the Department of Environment Malaysia in 2012 and is currently involved in updating the document. He also designed the Environmental Health Risk Inventory System, now adopted as a national GIS-based environmental health risk tool by the Ministry of Health. His expertise has been sought by the World Health Organisation, the International Atomic Energy Agency, and the Risk Science Institute, as well as by the governments of Malaysia, Cambodia, Indonesia, and Saudi Arabia.

Professor Dr Jamal served on the Scientific Expert Panel of the National Disaster Management Agency (NADMA) and chaired the Thematic Working Group of Environmental Health Experts under the National Environmental Health Action Plan (NEHAP). In public advocacy, he provided expert advice through official channels and the media on national environmental issues such as the Southeast Asian Haze, Sg. Kim Kim in Gebeng, and the COVID-19 pandemic. He also contributed to ASM's Mega Science Framework for Sustained National Development 2015-2050 and led the Steering Committee of the Malaysian Working Group on Climate Change and Health in 2020.



Professor Dr Sreeramanan Subramaniam FASc

School of Biological Sciences
Universiti Sains Malaysia

Areas of Expertise:

Plant Biotechnology > Plant Tissue Culture and Indoor Farming Technology > Plant Micropropagation, Transgenic Plants, Somaclonal Variations, Cryopreservation, Second Metabolites

Professor Dr Sreeramanan Subramaniam FASc is an expert in plant biotechnology. His research focuses on plant tissue culture, genetic transformation, molecular breeding, cryopreservation, and the development of high-value horticultural crops through sustainable indoor and controlled-environment farming systems using LED technology. His studies on plant genetic engineering and micropropagation of tropical crops have contributed significantly to the advancement of plant biotechnology in Malaysia. His publications have a citation count of 5,392 and an h-index of 34.

His research extends to LED-based controlled-environment agriculture (CEA), where he successfully integrated light-spectrum manipulation and phytochemical optimisation to develop energy-efficient cultivation systems for microgreens, strawberries, lettuce, and other high-value horticultural crops. He integrated LED spectral technologies with plant tissue culture, microgreens, and vertical farming systems, bridging fundamental plant science with Industry 4.0 and smart agriculture. He also developed the Smart LED plant tissue culture technology system (SLT) for selected plants, a cost-efficient innovation that optimises growth rates. Beyond his research excellence, Professor Dr Sreeramanan is deeply engaged in academic quality assurance and national capacity building. He serves as a Panel Member of the Malaysian Qualifications Agency (MQA), contributing to the evaluation and accreditation of higher education programmes in biotechnology and life sciences, while actively promoting public understanding of science through outreach programmes on plant biotechnology.

Professor Dr Sreeramanan served as a visiting scientist and academic fellow at several international institutions, including Universitas Airlangga (UNAIR), Indonesia, and Vellore Institute of Technology (VIT), India. He shared his expertise, fostered collaborative research networks, and represented Malaysia's growing influence in plant biotechnology and molecular agriculture on the global stage.



Professor ChM Dr Juan Joon Ching FASc

Head of International of Cooperation Relationship (ICR)

Nanotechnology and Catalysis
Research Centre
Universiti Malaya

Areas of Expertise:

Nanomaterial > Catalysis > Nanostructured Catalysts for Clean Energy Production and Environmental Pollution Control

Professor ChM Dr Juan Joon Ching FASc is recognised for his expertise in nanotechnology and catalysis, particularly in developing nanostructured catalytic materials for sustainable energy and environmental applications. His research focuses on advanced nanomaterials, mesoporous catalysts, and photocatalytic systems to address challenges in renewable fuel production, environmental remediation, and greener chemical processes. His publications garnered over 20,000 citations with an h-index of 63. He has received several prestigious recognitions, including the Top Research Scientists Malaysia (TRSM), the IKM Gold Medal Award, and World's Top 2% Scientists, among other notable awards.

He has contributed to the development of environmentally friendly mesoporous nanosized catalysts for biofuel production via hydrogen-free deoxygenation processes for renewable aviation-grade biofuels. He also developed advanced catalyst systems for the degradation of toxic pollutants in wastewater and indoor air, as well as safer next-generation rechargeable batteries such as zinc-based systems. His research was translated into practical applications through collaborations with industry partners, including Karex Industries, Oleon Bhd, Pinnacle Group, and Dynotech Innovations, applying nanomaterials and catalysts to latex products, lubricant additives, and energy storage technologies. As Founder of Nanochemical@UMI, he actively bridged research with entrepreneurship, driving technology transfer and the commercialisation of advanced nanomaterials, especially graphene.

Professor Dr Juan has also played an important role in shaping national policies and standards, serving on several key committees, including the National Technical Committee on Nanotechnologies (ISO Standards) and the Industry Standards Committee on Environmental Management (ISC Z). His expertise is sought by government and industry for consultancy in chemical/nano safety and green technologies. He is also a visiting professor at several universities worldwide and is frequently invited to deliver keynote and plenary lectures.



Dato' Professor Ir Dr Ahmad Farhan Mohd Sadullah FASc

Vice-Chancellor
Universiti Putra Malaysia

Areas of Expertise:
Civil Engineering > Transportation > Sustainable Transport

Dato' Professor Ir Dr Ahmad Farhan Mohd Sadullah FASc is a leading expert in transportation engineering, with a focus on road safety. His professional work covers traffic impact assessment, road safety management, and transport planning, demonstrating a comprehensive approach to improving transportation systems and public safety. He contributed to the Traffic Impact Assessment (TIA) in Malaysia by organising the first national TIA training in 1997. He also authored the Road Engineering Association of Malaysia (REAM) Manual for TIA, which became the main reference for practitioners until it was adopted by the Board of Engineers Malaysia (BEM). He developed the Malaysian Trip Generation Manual (Versions 2–4) and the Malaysian Highway Capacity Manual, which continue to serve as essential references for practitioners.

He was appointed Director General of the Malaysian Institute of Road Safety Research (MIROS) in 2018, where he advanced the nation's road safety agenda. He led a shift from a centralised model to a strategy called "Localising Road Safety and Using an Outcome-Based Approach". This initiative was successfully piloted in Penang and subsequently adopted nationally as the MYSAFE Road programme. As a Founding Member of the Land Public Transport Commission (SPAD) and was appointed twice as its acting chairman by the YAB Prime Minister, he strengthened SPAD as a regulatory body and helped shape policies that improved Malaysia's public transport and commercial vehicle systems. Internationally, he chaired the World Road Association (PIARC) Road Safety Manual, applying global best practice to support Malaysia's adoption of a Safe System Approach.

Dato' Professor Ahmad Farhan is a sought-after keynote speaker at national and international transportation conferences. He has also contributed to ASM's Mega Science Framework Study for Sustained National Development (2013–2050), Infrastructure Sector, as a team member and writer.



Professor Ir Dr Ching Yern Chee FASc

Faculty of Engineering
Universiti Malaysia

Areas of Expertise:
Materials Science and Engineering > Polymer Composite > Polymer Nanocomposites, Bionanocomposite Coatings, Functional Composite, Biomaterials, Nanocellulose-Based Composite

Professor Ir Dr Ching Yern Chee FASc is an expert in materials science, with specialisation in polymer nanocomposites, bionanocomposite coatings, biomaterials, functional composites, and nanocellulose-based composites. She garnered an h-index of 50 and more than 9,000 citations. Her work extends to applied research, industrial projects, and consultancies.

Notably, her multifunctional composite coatings with far-infrared (FIR) and ultraviolet (UV) blocking properties have been successfully implemented in agricultural greenhouse films, enhancing crop productivity, reducing energy consumption, and optimising growing conditions. She has also worked on biodegradable mulch films as sustainable alternatives to conventional plastic mulch, helping reduce agricultural plastic waste and promoting eco-friendly farming. Her innovations in nanocellulose-based composites derived from agricultural residues advance circular economy principles, demonstrating strong industrial potential in packaging, biomedical, water treatment, and construction sectors.

Her research excellence has been recognised internationally through the Leaders in Innovation Fellowship (2017) (UK) and recognition as a TRSM recipient (2020). From 2022 to 2025, she was listed among UM's researchers in Elsevier's World's Top 2% Scientists. She is also active in research governance and international collaboration, serving as an evaluator for research funding bodies across Asia, Europe, South America, and the Middle East. Additionally, she serves on the editorial boards of leading Q1 journals, including the Journal of Environmental Chemical Engineering, Alexandria Engineering Journal, and Frontiers in Materials. Within ASM, Professor Ching has contributed as a section editor for the ASM Science Journal, served as a coach for the National Science Challenge (NSC) in 2024, and is a member of the ASM WEHAB++ Environment Committee. She currently serves as Chairman of the Marine Engineering & Naval Architecture Technical Division of the Institution of Engineers, Malaysia (2024–2026).



Professor Ir Dr Faridah Othman FASc

Faculty of Engineering
Universiti Malaya

Areas of Expertise:

Civil Engineering > Water Resources
Engineering > Water and Environmental
Engineering

Professor Ir Dr Faridah Othman FASc is an expert in hydrology, recognised in the environmental aspect of water quality. Her research focuses on water-related challenges, including climate change, urbanisation, water supply, water security, flooding, river conservation, and water pollution. She has an h-index of 32 and a citation count of 3,903. She holds two granted patents related to pipe coating materials and the application of AI in reservoir operation and has been actively involved in more than 20 consultancy projects.

She is deeply engaged in scholarly activities, serving as an evaluator for grants and promotion exercises, a reviewer for journals and conference papers, an external examiner, and a jury member. Her expertise has led her to participate in consultation projects with relevant authorities and private companies, particularly in water and environmental engineering. Significant outcomes from these consulting engagements include proposed guidelines, analyses of pollution impact on the river basin, and simulations and enhancements of hydraulic models and structures.

Professor Dr Faridah has been invited to deliver keynote, plenary, and invited talks at conferences and webinars, sharing her expertise on hydro-environmental issues. Internationally, she supervised programmes such as Erasmus Mundus staff mobility, student exchange programmes, the Japan Society for the Promotion of Science – Asian Core Programme (JSPS-ACP), and the CALOHEA Programme (University of Groningen, Erasmus, and ASEAN University Network). She was also appointed a visiting scientist at Kyoto University and a visiting professor at the University of Brawijaya. Her outstanding contributions have been recognised through the IAHR Malaysia High Achievement Award (2024) and the ICWES-POCER Women Career Award (2024).



Professor Ts Dr Mohamad Kamal A Rahim FASc

Faculty of Electrical Engineering
Universiti Teknologi Malaysia

Areas of Expertise:

Radio Frequency (RF)/Microwave &
Antenna > Metamaterial Antenna and
Intelligent Surfaces > Antenna Design
and Intelligent Surfaces

Professor Ts Dr Mohamad Kamal A Rahim FASc is an expert in radio frequency, microwave, and antenna engineering. His work focuses on patch antenna design, reconfigurable antennas, textile antennas, wireless power transfer, metamaterials, metasurfaces, and intelligent surfaces. He achieved an h-index of 49 with 15,819 citations. He has also filed more than 30 patents related to antennas, frequency-selective surfaces, intelligent surfaces, and beamforming networks.

Throughout his career, he has maintained active involvement in professional and academic communities. He was invited to speak at international conferences as a keynote, plenary, and invited speaker, and has held leadership roles including Chair of the International Symposium on Antennas and Propagation (ISAP 2023) and a member of its steering committee since 2015. He has organised and led numerous conferences in microwave engineering, antennas, and applied electromagnetics, and served as an expert assessor for national research funding agencies. In addition, his research has been recognised nationally and internationally through multiple awards, including the Best Fundamental Research Project Award at CITRA KARISMA 2009 and the Distinguished Researcher Award at CITRA KARISMA 2018. He designed the wearable textile antenna and also won an award at the International Exposition of Research and Invention of Institution of Higher Learning (PECIPTA2013).

Professor Dr Kamal held visiting scholar appointments at institutions such as Karaganta State Technical University, King Mongkut's Institute of Technology, Ladkrabang, Thailand, and the University of Erzurum, Türkiye, and served as an adjunct professor at Telkom University, Bandung, in 2019. He also supported the development of research infrastructure, including the relocation and installation of an advanced antenna measurement chamber at the P18 Advanced Antenna Laboratory.



Professor Ir Ts Dr Mohamed Thariq Hameed Sultan FASc

Faculty of Engineering
Universiti Putra Malaysia

Areas of Expertise:

Structural Health Monitoring > Composite Materials > Impact Studies

Professor Ir Ts Dr Mohamed Thariq Hameed Sultan FASc

specialises in structural health monitoring and composite materials, with significant contributions to developing advanced materials for aerospace and drone technologies. He has an h-index of 75 with more than 18,200 citations.

His research on natural fibres such as kenaf, bamboo, and jute led to the development of lightweight, durable, and environmentally friendly materials for drone production. These innovations support the transition towards more sustainable and cost-efficient manufacturing solutions. His collaborations with major corporations, including AIRBUS, Malaysia Airlines Berhad, and Proton, demonstrated his commitment to strengthening linkages between academia and industry, particularly in aerospace engineering and biocomposite technologies. He was awarded the Newton-Ungku Omar Fund grant for the SafeBioPack project, which focused on developing affordable, sustainable, biodegradable packaging from agricultural waste to extend food shelf life and reduce waste. These projects highlighted his leadership in impactful research addressing environmental sustainability challenges. Beyond research, he played an instrumental role in defining future trends in engineering education, shaping Continuing Professional Development (CPD) programmes, and influencing accreditation requirements.

He has established a distinguished international standing as an aerospace and composite materials scholar, academic leader, publishing strategist, and innovator. His global reputation is reinforced by appointments as visiting professor, adjunct professor, PhD supervisor, and international advisory panel member, alongside affiliations with prominent engineering bodies. Most recently, his leadership earned ASEAN and ASIA Records recognition for positioning UPM Press as the world's first university press to index scholarly books in both Bahasa Melayu and Bahasa Indonesia in Scopus.

Professor Dr Omar Yaakob FASc is a distinguished expert in marine engineering, with specialisations in ocean engineering, naval architecture, marine environment, and ocean renewable energy. He has made significant contributions to developing Malaysia's marine engineering capabilities. His publications record an h-index of 22 and a citation count of 1,800.

He has been a key contributor to Malaysia's response to the International Maritime Organisation (IMO) regulations on greenhouse gas emissions and energy efficiency in international shipping. He has over 20 patents, several of which have been successfully commercialised. His innovations include marine renewable energy systems, ship emissions management and monitoring, and marine vessel and turbine design. He is recognised nationally and internationally for his expertise, having represented Malaysia at numerous forums, including the United Nations headquarters in New York in 2012 for a forum on ocean renewable energy, and multiple IMO meetings on marine environment protection since 2010. He was also invited to deliver keynote addresses at conferences in Saudi Arabia, Pakistan, and the Philippines, further demonstrating his standing as a global authority in his field.

Professor Dr Omar's contributions extend to societal impact and capacity building. He played a pivotal role in designing, building, and delivering 15 fishing boats to tsunami-affected communities in Kedah in 2005, directly improving livelihoods and supporting post-disaster recovery. Within ASM, he contributed significantly to the Special Interest Group on Blue Economy and served as a writer for the Position Paper on Blue Economy: Unlocking the Value of the Oceans in 2021.



Professor Dr Omar Yaakob FASc

Faculty of Mechanical Engineering
Universiti Teknologi Malaysia

Areas of Expertise:

Marine Technology > Ocean Engineering > Naval Architecture > Marine Environment and Ocean Renewable Energy



Professor Ir Ts Dr Sharul Kamal Abdul Rahim FASc

Faculty of Electrical Engineering
Universiti Teknologi Malaysia

Areas of Expertise:

Wireless Communication Engineering >
Smart Antenna > Switched Beamforming
Network

Professor Ir Ts Dr Sharul Kamal Abdul Rahim FASc

is an expert in wireless communication technologies with recognised contributions to both research and industry applications. He has an h-index of 37 with a citation count of 5,320. His work focuses on the design and integration of wireless systems for practical applications, including collaborations with local industries and government agencies.

He led several projects, including the Intelligent Public Transportation Monitoring System in Johor, in collaboration with Pengangkutan Awam Johor (PAJ), a subsidiary of the Johor state government. The system was developed to provide real-time bus information, estimated arrival times, and operational reports for PAJ management. He and his team also developed the IoT-based Data Collection and Analytics Framework using Bluetooth Proximity Beacons, a project funded by the National Institute of Information and Communications Technology (NICT), Japan. This project introduced an IoT-based solution to track bus locations and collect transportation data without relying on GPS, using Bluetooth Low Energy (BLE) proximity beacons installed on buses and detection devices at bus stops. The system enables bus arrival detection, estimated time of arrival (ETA) computation, and data analytics through a cloud-based platform.

Notably, Professor Dr Sharul received the Research Excellence Award from the Institute of Electrical and Electronics Engineers (IEEE) Council on Radio Frequency Identification (IEEE CRFID) in 2022 and won 29 invention awards at both national and international levels. He was actively engaged in professional and research communities through leadership roles in IEEE, participation in global research initiatives, conference leadership, and editorial contributions. He was also invited to deliver keynote/plenary talks at major conferences, including IEEE ISAP 2023, and contributed to international technical committees in his field.



Professor Dr Tang Tong Boon FASc

Dean

Faculty of Engineering
Universiti Teknologi PETRONAS

Areas of Expertise:

Engineering > Biomedical Image Analysis >
Neurotechnology for Mental Health

Professor Dr Tang Tong Boon FASc is an expert in neurotechnology for mental health and biomedical imaging. He has been recognised for his work in designing electrical- and optical-based sensing systems [electroencephalography [EEG] and functional near-infrared spectroscopy [fNIRS]] to objectively detect mental stress. His publications have garnered over 5,500 citations and an h-index of 38.

In collaboration with Dementia Perak, he developed an optical sensing technique that reveals hyperactivation in the prefrontal cortex of individuals with mild cognitive impairment. He also contributed to a mental resilience assessment system, RASMi, which has been successfully commercialised. RASMi has helped the Royal College of Medicine Perak to study nursing students' dropout rates and supported the National Child Development Centre at Universiti Pendidikan Sultan Idris in identifying early education teachers with low mental resilience in managing classes. Additionally, he developed Brain-navi, a tool that assists neurosurgeons in analysing brain function deficits resulting from road accidents, using brain connectivity data to guide surgical planning.

Professor Dr Tang also contributed internationally through capacity building and consultation. He established the Optical Topography (OT) Hub with HITACHI Japan, training clinical and engineering researchers from France, Singapore, Thailand, and a few other countries. He is sought after by psychiatrists from the National University of Singapore for imaging analysis in major depressive disorder, schizophrenia, and borderline personality disorder. His work has been widely reported globally when he became the first Malaysian to receive the Institution of Engineering and Technology (IET) Mountbatten Medal, the second Asian recipient after Nobel Laureate Professor Shuji Nakamura.



Professor Ir Ts Dr Tiong Sieh Kiong FASc

Dean

College of Graduate Studies
Universiti Tenaga Nasional

Areas of Expertise:

Engineering Sciences > Electrical,
Electronic and Systems > Renewable
Energy Technologies > Artificial
Intelligence for Energy Technologies

Professor Ir Ts Dr Tiong Sieh Kiong FASc is an expert in renewable energy technologies who has contributed to Malaysia's energy sector through AI-driven technologies. His research encompasses smart grids, battery energy storage systems, DC microgrids, low-speed wind energy technologies, power systems, renewable energy integration, and green technology innovation. His publications have garnered over 7,600 citations and an h-index of 44, while his research has produced 25 intellectual properties, including patents and utility innovations. Notably, his Predictive Emission Monitoring System (T-PEMS) has been deployed at power stations with the endorsement of the Department of Environment, supporting gas-emission monitoring and environmental benefits.

His expertise has contributed to the development of national policies and standards through his service on numerous expert committees and professional bodies, including the Malaysia Research Assessment (MyRA), Sustainable Energy Development Authority (SEDA), and Jabatan Standard Malaysia (JSM). In these roles, he has helped shape Malaysia's renewable energy frameworks, photovoltaic standards, and the New Industrial Master Plan 2030. He has also conducted several community-based knowledge transfer programmes, including initiatives involving solar technologies and solutions. In one such initiative, he supported a school with a majority Indigenous student population by installing solar lights within the school compound. Furthermore, he organised the "Renewable Energy to Improve the Quality of Life" competition, which provided solar power solutions to participating longhouse families in Ulu Oya, Sibul, Sarawak.

Internationally, Professor Tiong is active in research networks and holds advisory and visiting roles at universities and research centres across Asia, Australia, Europe, and ASEAN countries. He has also contributed to professional and public discourse on renewable energy and AI-driven technologies, serving as chairperson of multiple international conferences and as an invited plenary or keynote speaker at events including Enlit Asia 2024 and CIAC 2025.



Professor Ir Dr Vigna Kumaran Ramachandaramurthy FASc

Institute of Power Engineering
Universiti Tenaga Nasional

Areas of Expertise:

Electrical Power Engineering >
Renewable Energy > Smart Grid

Professor Ir Dr Vigna Kumaran Ramachandaramurthy FASc is an expert in electrical power, specialising in renewable energy and smart grid technologies. His publications garnered a citation count of 16,769 and an h-index of 63. He made substantial contributions to Malaysia's power and renewable energy sector through technical guidelines, strategic planning, and master plans.

Following the Renewable Energy Act in 2011, he developed the criteria and methodology of the power systems studies for SEDA and the technical guidelines for solar PV connection to the electrical grid. To date, he has conducted technical due diligence for more than 300 renewable energy plants in Malaysia, including hydro, solar PV, biomass, biogas, wind, and energy storage. He has also led major industrial projects, including the Energy Transition Strategy and Smart Utility 2030 Masterplan, among others, all of which underpin national-level energy planning and policy. His work on rural electrification and renewable energy for underserved regions, particularly through the Distribution Code for Peninsular Malaysia, Sabah, and FT Labuan (2017), also demonstrates his commitment to energy accessibility and sustainability.

Internationally, he served as a consultant for the UK-Nigeria Infrastructure Advisory Facility (UKNIAF), developed the ASEAN Power Grid Technology Roadmap till 2040, and was an International Advisory Board Member of HI-ACT. Through his work in engineering societies, he has advanced sustainable energy development and global energy transition initiatives, leaving a lasting impact on both the national and international energy sectors. This has led him to numerous awards, including the IET Mike Sargeant Award (London, 2008), Gold Medal and Best Gold Medal at the Malaysia Technology Expo 2008, and the IEM Presidential Award (2011–2013).



Professor Ir Dr Hafizal Mohamad FASc

Research and Innovation Management Centre
Universiti Sains Islam Malaysia

Areas of Expertise:

Communications System and Networking >
Wireless Communications > 5G/6G Network >
Internet of Things

Professor Ir Dr Hafizal Mohamad FASc is recognised for his expertise in wireless communications and networking, with particular distinction in next-generation mobile networks and Internet of Things (IoT) systems. His research has advanced key areas, including 5G and emerging 6G technologies, wireless mesh networks, cognitive radio systems, and intelligent network architectures. His scholarly output attracted more than 1,800 citations and an h-index of 22.

During his tenure at MIMOS Berhad, his patented technologies supported the development of IoT solutions and platforms, reinforcing Malaysia's innovation ecosystem. Several of these inventions were successfully translated into industry applications, focusing on areas such as IoT deployments and wireless networks. He currently serves as Vice Chair of the Radiocommunications Network Facilities Working Group, Malaysian Technical Standards Forum Bhd (MTSFB) and as an Engineering Accreditation Council (EAC) panel member. He has also served as a subject matter expert for government agencies and industry, including the Malaysian Communications and Multimedia Commission (MCMC), and has been appointed to various technical committees and funding evaluation panels. Through these roles, he supports the development of professional standards, engineering education, research and innovation, while fostering stronger industry-academia collaboration.

Professor Ir Dr Hafizal also demonstrated sustained leadership within the global engineering community through IEEE. Since 2009, he has held several key roles, most recently serving as General Co-Chair of the IEEE Wireless Communications and Networking Conference (WCNC 2026). He also contributed to ASM, serving as a member of the Digitalisation Committee (2022-2024) and was awarded the 2017 ASEAN Outstanding Scientist and Technologist Award (AOSTA).



YM Raja Azrina Raja Othman FASc

Chief Information Security Officer
Telekom Malaysia

Areas of Expertise:

Cybersecurity > Cybersecurity Incident Response > Digital Forensics > Security Architecture > Network Security > System and Application Security > Strategy, Governance, Design, Development, Implementation, Operation of Security Programmes > Cybersecurity Transformation

YM Raja Azrina Raja Othman FASc is an expert in cybersecurity with experience in security operations and strategic initiatives. She specialises in almost 10 domains of information security, including defence-in-depth design; development and implementation of security architecture (infrastructure and application); digital forensics; cybersecurity risk management and threat modelling; defences against emerging threats; threat intelligence and security testing; cybersecurity incidents and crisis management; and security in AI development.

She has contributed to the development of Malaysia's cybersecurity capabilities through several national initiatives, including establishing CyberSecurity Malaysia, which emerged from the 1997 establishment of the Malaysian Computer Emergency Response Team (MyCERT). Her work also included developing national cybersecurity guidelines, with key examples being the Cyber Security Guideline for Industry 4.0 (2019) and the Guidelines on Information Security Controls for Cloud Services (2017) under CyberSecurity Malaysia.

Internationally, YM Raja Azrina has played an active role in regional and global cybersecurity collaboration platforms, including the Asia Pacific Computer Emergency Response Team (APCERT) and the Forum of Incident Response and Security Teams (FIRST). Her work has also extended to national cybersecurity policy development and information security standards activities. Within ASM, she has contributed to the Advisory Report on Cybersecurity and the security assessment report on the development and implementation of *Pangkalan Data Utama* (PADU). In recognition of her leadership in the field, she was listed among the Top Global 100 Women in Cyber Security by the Cyber Express in 2024.



Professor Dr Gan Shiaw Sze @ Gan Gin Gin FASc

Faculty of Medicine
Universiti Malaya

Areas of Expertise:

Medical and Health Sciences > Internal Medicine > Clinical Haematology > Bone Marrow > Haematopoietic Stem Cell Transplantation

Professor Dr Gan Shiaw Sze @ Gan Gin Gin FASc is an expert in clinical haematology, with specialisation in haematopoietic stem cell transplantation and the management of blood cancers, including lymphoma and multiple myeloma. She has contributed to research in haematological malignancies, transplantation outcomes, and pharmacogenomics, particularly in generating clinical and translational evidence relevant to Malaysian and Asian populations. Her publication recorded an h-index of 23 and 1,940 citations. She has served as principal investigator in multiple international clinical trials, contributing Malaysian data to regional and global haematology research.

She was notably involved in the development of the National Guidelines of Haematopoietic Stem Cell Therapy; the National Organ, Tissue and Cell Transplantation Policy; and the Guidelines on Stem Cells and Cell-Based Research and Therapy, among others. Her work helped advance clinical haematology practice in Malaysia through several clinical achievements. She also performed the first successful matched unrelated donor haematopoietic stem cell transplantation in an adult patient in Malaysia and subsequently carried out the first adult haploidentical stem cell transplantation at Universiti Malaya Medical Centre. She has held key leadership roles in the medical profession, serving as the immediate past President of the Malaysian Society of Haematology and continuing to serve as its council member. She is also a Council Member of the Malaysian Society for Stem Cell Research and Therapy and the College of Physicians, Malaysia.

Internationally, Professor Dr Gan serves as an Executive Board Member of the Asia-Pacific Blood and Marrow Transplantation Group and as Co-Chair for the Highlights of the American Society of Haematology Asia-Pacific 2026. Beyond her clinical and research work, she further contributed to clinical haematology through her roles in education and specialist training.



Dato' Dr Mohd Zaki Salleh FASc

Chief Executive Officer
Zakesy Biotech Sdn Bhd

Areas of Expertise:

Precision Health > Omics for Health > Medical Genomics

Dato' Dr Mohd Zaki Salleh FASc has had a distinguished academic and research career encompassing precision health, pharmacogenomics, medical genomics, and omics-based approaches, including genomics and metabolomics, to advance personalised medicine and genomic diagnostics, particularly in Malaysian populations. He has contributed to the integration of traditional and complementary medicine with modern omics approaches by investigating drug-herb interactions and supporting the safer, evidence-based integration of herbal therapies into clinical practice. He has published more than 150 articles in Scopus-indexed journals.

To date, he has registered three patents and developed genetic tests that have been widely adopted in clinical practice. These tests enable medical professionals to optimise drug therapies and prevent adverse reactions, representing a major advancement in personalised healthcare. He and his team published the first whole genome of a Malay individual and subsequently led the whole genome sequencing of six subtribes of the Orang Asli population under the Long Term Research Grant Scheme (LRGS) programme. His efforts led to the development of a whole genome sequencing pipeline and a genotype-phenotype database, strengthening Malaysia's capabilities in genomic medicine and personalised healthcare. Following his academic career, he became the founding CEO of Zakesy Biotech Sdn Bhd, where he translated his scientific expertise and laboratory innovations into industry applications and clinical services. Under his leadership, the company has supported hospitals with advanced genetic testing for the diagnosis and treatment of complex and rare diseases. His work has also extended to sports genomics, nutrigenetics, and food allergy testing, applying precision approaches to health, nutrition, and human performance.

Internationally, Dato' Dr Mohd Zaki has contributed to the Global OPENPGx initiative, which promotes open-access pharmacogenomics data, fostering collaborations in genomic research. He has also received multiple national and international awards, recognising his innovations and contributions to biotechnology and precision medicine.



Professor Dr Yong Ken Tye FASc

Faculty of Engineering
University of Sydney

Areas of Expertise:

Materials Physics > Nanomaterials,
Nanotechnology > Nanomaterials
Synthesis and Characterisation,
Semiconductor Physics

Professor Dr Yong Ken Tye FASc is an expert in materials physics, specialising in nanomaterials, nanotechnology, and semiconductor-based sensing systems. His research focuses on the synthesis and characterisation of advanced nanomaterials and their applications in biosensing, bioimaging, and environmental monitoring. Through his work on semiconductor nanocrystals and nanomaterial-based sensing technologies, he contributed significantly to advances in disease detection, biomedical imaging, and environmental sensing. His publications have garnered more than 29,000 citations, with an h-index of 89.

He maintains active collaborations with Malaysian researchers and institutions, particularly through his visiting professorship and research collaborations at Universiti Malaya. Among his notable innovations was the development of a portable device capable of detecting heavy-metal contaminants in drinking water within five minutes. The technology has been integrated into water-filtration systems and selected consumer electronic devices, with detection sensitivity designed to support monitoring against relevant World Health Organization (WHO) drinking-water guideline values.

Professor Dr Yong also led Net Zero ASEAN initiatives that fostered strong collaborations between academia and industry and supported projects aimed at emissions reduction and sustainable energy solutions. Moreover, he co-founded an NTU spin-off company, where he led the development of advanced sensor technology for water safety. This technology was implemented in selected communities across Asia, including China, India and Singapore, to support improved access to safe drinking water. In recognition of his contributions, he received the Beilby Medal and Prize from the Royal Society of Chemistry and the Rosenhain Medal and Prize from the Institute of Materials, Minerals and Mining, among others. He was also honoured with the IEEE Distinguished Lecturer Award and several international invention awards for sensor technologies developed from his nanomaterials research. His research has placed him among the World's Top 2% Scientists, and he serves as the Japan Science and Technology Agency (JST) ASPIRE's Top Scientists Partner Principal Investigator.



Ms Chee Yoke Ling FASc

Executive Director

Third World Network

Areas of Expertise:

International Law > Global Economic
Governance and Sustainable
Development > Intellectual Property
and Public Health

Ms Chee Yoke Ling FASc is an expert in international law, specialising in global economic governance, sustainable development, intellectual property, and public health. She made significant contributions to national and international law and policy, particularly in promoting public welfare and developmental equity. Her work focuses on ensuring timely and affordable access to diagnostics, therapeutics, and vaccines for HIV, Hepatitis C, cancer, and selected rare diseases. She helped the Ministry of Health (MoH) secure a Compulsory Licence for generic sofosbuvir in 2015, a Hepatitis C cure now provided free to Malaysians. She leverages the Trade-Related Aspects of Intellectual Property Rights (TRIPS) flexibilities to promote equitable access to healthcare.

Nationally, she served in advisory roles for key ministries, including the Ministry of Foreign Affairs and the Ministry of International Trade and Industry, and continues to contribute to the Ministry of Domestic Trade and Cost of Living's National Consumer Advisory Council and MOH's National Antimicrobial Resistance Committee. She also participated in ASM activities, including as a panellist for the policy workshop on Advancing Access to Diagnostics and Therapeutics in Southeast Asia.

Globally, Ms Chee was a lead author in the Intergovernmental Panel on Climate Change (IPCC) Working Group III on Mitigation (2010–2014), lead researcher for the WHO Access to Medicines Study on Hepatitis B and C (2018–2019), advisor to the WHO China Office, and co-editor of the "Viral Hepatitis in Asia and the Pacific: Towards Elimination as a Public Health Threat in 2025". Through publications, she helped shape global discourse, including co-authoring Shadow Reports on Sweden, Belgium, and Switzerland for the UN CEDAW Committee on access to COVID-19 vaccines and diagnostics.



Professor TPr Dr Goh Hong Ching FASc

Faculty of Built Environment
Universiti Malaya

Areas of Expertise:

Socio-Ecological Planning > Human-Environment Interactions > Participatory Planning and Governance > Climate Resilience > Nature-Based Solutions > Coastal and Marine Governance > Sustainable Tourism > Community-based Conservation

Professor TPr Dr Goh Hong Ching FASc is an interdisciplinary social scientist, specialising in socio-ecological planning. Her research examines human-environment interactions to advance climate resilience, sustainable development, and community well-being through participatory planning and governance. Her work spans urban and regional planning, tourism, coastal and marine governance, and nature-based solutions, bridging research, policy, and practice to address complex sustainability challenges. Her publications have received over 8,800 citations with an h-index of 22 (Scopus).

Throughout her career, she has served on the review of the Malaysian Urban Rural National Indicators Network on Sustainable Development 2.0 (MURNInets) under PLANMalaysia, the Social Impact Assessment Panel for PLANMalaysia Selangor, and the Ministry of Higher Education Research Fund Monitoring Panel, among others. Within ASM, she serves on the Environment Committee, the Environmental, Social and Governance (ESG) Working Group on the Business Model for Non-Radioactive Rare Earth Elements, and the Environmental Pillar Working Group for Science Outlook 2025. Her research has generated societal impact, especially through long-term engagement with coastal communities in Tun Mustapha Park, Sabah, apart from her early doctoral research in Kinabalu Park, where she advanced marine and coastal conservation, sustainable tourism, and community livelihood resilience. Internationally, she has led competitive research grants, including the UKRI Global Challenges Research Fund (Blue Communities) and two British Academy-funded projects, PANACEA and RECAP SEA, which advance coastal resilience, nature-based solutions, and research capacity development across Southeast Asia. She has been recognised as a DAAD Research Ambassador, a Fellow of the ASEAN Science Leadership Programme, and one of the 100 Women Scientists in Global Polar Research.

Most recently, Professor Goh was appointed as a peer reviewer for the British Academy's International Interdisciplinary Research Projects 2027 and awarded the prestigious Association of Commonwealth Universities (ACU) Expert Group Fellowship 2025-2026, through which she and her team will develop a policy brief to be presented at the Commonwealth Heads of Government Meeting (CHOGM) 2026.



Madam Hazami Habib FASc

Academy of Sciences Malaysia

Areas of Expertise:

Policy Development & Implementation > Talent Development; Policies; Strategic Science Communication; Foresight; Science Diplomacy; STIE Governance; Institution Development

Madam Hazami Habib FASc is recognised for her contributions to ASM and to the national STIE ecosystem through more than 30 years of dedicated service. Her areas of specialisation include policy development and implementation, strategic science communication, foresight, science diplomacy, and STIE governance. She has strengthened ASM's organisational capacity by developing internal expertise in evidence-based policy analysis and strategic communication, enabling ASM to effectively support Fellows in translating scientific knowledge into policy-relevant outcomes. She was crucial in positioning ASM as a trusted advisor to the Malaysian Government through her numerous contributions that strengthened government decision-making, including inputs to the Malaysia Plans and the National Science Council agenda. Her ability to frame scientific evidence in ways that align with policymaking priorities has strengthened the impact and uptake of ASM's policy recommendations.

Beyond policy development, she championed translating ideas into action-oriented initiatives that strengthened the national science ecosystem. These include major ASM flagship programmes such as the Malaysian Science Endowment, Science Outlook, the National Science Challenge, the Young Scientists Network-ASM, and Open Science initiatives. She led the development of the handbook on the National COVID-19 Immunisation Programme (PICK) in collaboration with MOH, MOSTI and the Prime Minister's Department. She also chaired the National COVID-19 Vaccination Centre (PPV) Taskforce for Drive-Through and Faith-Based Venues, overseeing the operations of drive-through vaccination centres. In recognition of her contributions, she was honoured as an HRD Corp Thought Leader (HTL) in 2025.

Internationally, particularly within ASEAN and APEC, Madam Hazami represented Malaysia in the APEC Policy Partnership on Science, Technology and Innovation (PPSTI), serving as Chair of Subgroup 1 (2017–2024) and as the Chair in 2025. She now serves as the Vice-Chair (2025–2026). She also served as the National Member Organisation Secretary to the International Institute for Applied Systems Analysis (IIASA) (2014–2020), promoting the use of systems analytics in national policy research. In recognition of her expertise, she has represented Malaysia at 36 international and national conferences and has been frequently invited as a keynote speaker and panellist, delivering more than 120 presentations.



Professor Dato' Dr Norzaini Azman FASc

Centre for Educational Leadership and Policy
Faculty of Education
Universiti Kebangsaan Malaysia

Areas of Expertise:

Higher Education Policy and Governance
> Higher Education Leadership, Academic Profession, Institutional Change > Higher Education for Sustainability and Academic Leadership Development

Professor Dato' Dr Norzaini Azman FASc is a scholar in higher education policy and governance, with expertise in higher education leadership, academic profession, institutional change, sustainability, and academic leadership development. Her publications have received more than 3,000 citations, with an h-index of 29.

Her research and policy work spans higher education governance, leadership development, internationalisation, and institutional transformation. She has contributed to Malaysia's higher education policy development through her leadership in the Malaysian Society for Research and Higher Education Policy Development (PenDaPaT) and her service as Deputy Director-General of Higher Education (Academic and Research), Ministry of Higher Education (MOHE) Malaysia.

Professor Dato' Dr Norzaini's regional and international engagements include collaborations with UNESCO, the Asian Development Bank, and Boston College, as well as service on the Board of Southeast Asian Ministers of Education Organization's Regional Open Learning Centre (SEAMEO SEAMOLEC). She also chaired Working Group 5 on Agile and Responsive Governance for ASM's National Education Policy Review, contributing to governance and policy recommendations for strengthening an ecosystem in Malaysian higher education.



Professor Dr Santha Vaithilingam FASc

Deputy Director

Sunway Institute for Global Strategy and Competitiveness
Sunway University

Areas of Expertise:

Behavioural Science > Banking & Finance > Statistical and Econometric Methods > Mathematical and Policy Modelling

Professor Dr Santha Vaithilingam FASc specialises in behavioural science and policy modelling for evidence-based decision-making, applying behavioural insights and quantitative methods to inform policy and strategy. Through ASM-led and collaborative studies, she has contributed to major national and regional policy initiatives, including the National Planetary Health Action Plan, Malaysia Blue Economy Blueprint, Water Sector Transformation 2040, and ASEAN Ahead: ASEAN STI Ecosystem Foresight 2035 and Beyond, as well as studies informing the Twelfth and Thirteenth Malaysia Plans.

She was also part of the team that developed the 10-10 Malaysian Science, Technology, Innovation and Economy (MySTIE) Framework, adopted under the Twelfth Malaysia Plan, and contributed to the 8R-8I Ecosystem Development Model and Return on Values (ROV) framework. Her work across these initiatives has focused on behavioural modelling, econometric analysis, forecasting, and policy simulation.

Professor Vaithilingam's broader research spans technology adoption, sustainable development, health behaviour, and vulnerable communities. She has authored more than 90 scholarly and policy outputs, with her work receiving over 8,600 citations, and has mentored more than 20 research students to completion. She also leads multidisciplinary research with government, industries, and communities, including work on digital inclusion and the Sunway-Desa Mentari initiative, reflecting her commitment to translating research into inclusive societal impact.



Professor Dr Surinderpal Kaur Chanan Singh FASc

Faculty of Languages and Linguistics
Universiti Malaya

Areas of Expertise:

Languages and Linguistics > Critical
Discourse Studies > Discourse and
Discrimination

Professor Dr Surinderpal Kaur Chanan Singh FASc

is a respected scholar in critical discourse studies and multimodality, with a focus on discrimination, Islamophobia, extremism, and gender. Her publications recorded an h-index of 9 and a citation count of 235. She is a recognised researcher in Islamophobia, investigating prejudice and discrimination against Muslims. As such, she is often invited to speak and provide insights into the social and political ramifications of anti-Muslim discrimination at high-level international meetings. She is involved in radicalisation programmes with the Southeast Asia Regional Centre for Counter Terrorism (SEARCCT), under Malaysia's Ministry of Foreign Affairs, and with the Rabdan Academy in the United Arab Emirates.

Her research also encompassed practical, policy-oriented work on digital connectivity and governance in Malaysia. Her studies on the socio-economic impact of digital technologies, as well as the regulation of radio frequency and electromagnetic field emissions, have informed key national projects, including the National Broadband Initiative and the regulation of Malaysia's .my domain names. She collaborated with key government agencies such as the Malaysia Digital Economy Corporation (MDEC), Malaysian Communications and Multimedia Commission (MCMC), and MyNIC, providing insights on digital and socio-political issues central to Malaysia's development. She played an instrumental role in advising the Malaysian government on climate change policies, serving on the Climate Change Advisory Panel for the Technology and Innovation Cluster under the Ministry of Natural Resources and Environmental Sustainability (NRES). Her participation in COP29, where she presented the creation of a centralised database for traditional ecological knowledge, reflected her commitment to integrating local knowledge into national climate action and sustainability strategies.

She further contributed to national language programme guidelines and helped revise the Malaysia Research Assessment (MyRA) tool to prioritise research impact. Beyond academia, she engaged with the community by mentoring at-risk youth, supporting women's capacity-building, and promoting the Punjabi language and creative arts across Malaysia, India, and New Zealand. She also holds several copyrights for plays and productions she has written, produced, and directed.



Tan Sri Dato' Seri Professor PMr Br Ts Ir QPr Dr Abdahir Haji Abdul Majid JP FASc

Founder

Jopami Group of Companies

Areas of Expertise:

Engineering > Civil & Structure >
Airports, Highways & Roads

Tan Sri Dato' Seri Professor PMr Br Ts Ir QPr Dr

Abdahir Haji Abdul Majid JP FASc is an expert in civil and structural engineering, with extensive experience in the planning and development of major infrastructure projects, including airports, highways and road systems. He is recognised for his industry-based engineering practice and leadership in implementing large-scale infrastructure and development projects in Malaysia.

Through his leadership, he was involved in numerous infrastructure developments across the country, notably the development of Subang International Airport and Universiti Teknologi Malaysia (UTM). Throughout his career, he contributed to major national projects such as the new Bintulu Airport and the Lebuh raya Pantai Timur (LPT), where innovative engineering solutions were introduced to address challenging ground conditions. His work reflects his ability to manage complex, multidisciplinary projects and coordinate expertise across engineering, government agencies, and industry stakeholders to achieve effective project delivery. Through his companies, Jopami Group of Companies and Majid & Associates Sdn Bhd, he contributed to projects across the construction, oil and gas, plantation, and property sectors. Landmark developments under his leadership include the Kuliyyah of Pharmacy at Universiti Islam Antarabangsa Malaysia, the Ambulatory Care Centre at Hospital Tengku Ampuan Rahimah Klang, and the New Specialist Hospital in Kangar, Perlis. His trading company is also among the largest Bumiputera suppliers of diesel and petrol to Malaysia's oil and gas sector.

Beyond his professional work, Tan Sri Abdahir has been actively involved in community and professional organisations. He held leadership roles in several non-governmental organisations, including the Majlis Tertinggi Jaksa Pendamai Selangor, Persatuan Bola Sepak Perlis, and Persatuan Anti Dadah, reflecting his broader commitment to community service and national development.



Dr Ismail Hashim FASc

President

Persatuan Pesara Lembaga Getah Malaysia

Areas of Expertise:

Plant Science > Agronomy, Biotechnology,
Research & Development Management
> Crop Production, Extension and
Development, Quality Control, Technology
Development & Innovation

Dr Ismail Hashim FASc is an expert in plant science, particularly in agronomy, crop production, and technology development for natural rubber. He has made transformative contributions to agronomy and natural rubber exploitation technologies, including the development of micro-tapping, ethylene-based stimulation systems, ergonomic tapping implements, intercropping techniques, and yield stimulation methods. These innovations boosted farmers' yields and productivity, resulting in a 40-70% increase in their income.

He led nationwide programmes such as the Village Rubber Technology Project (PROKAM), Rubber Research Institute Research Station (RRIMINIS), and Integrated Farming Systems, which integrated research with field applications to increase smallholder productivity, diversify rural incomes, and support sustainable rubber development. He also served as national project leader for Malaysia in the International Water Management Institute programme across six countries, successfully implementing improved water and fertiliser management for pineapple cultivation on hilly slopes, generating notable socioeconomic and environmental benefits.

Beyond research, Dr Ismail has served as an advisor and consultant to national and international organisations such as the Rubber Industry Smallholders Development Authority (RISDA), Federal Land Consolidation and Rehabilitation Authority (FELCRA), International Rubber Research and Development Board (IRRDB), and Association of Natural Rubber Producing Countries (ANRPC), as well as major plantation corporations, including Sime Darby, Guthrie, and Golden Hope. His expertise has also been sought for government-to-government technical visits and advisory services across Asia, Africa, Europe, and the United States, reflecting his global impact on the natural rubber and agricultural sectors.

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Professor Ir Dr Ching Yern Chee FASc
Professor Ir Dr Faridah Othman FASc
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Professor Emeritus Dato’ Dr Tan Wang Seng FASc
Datuk Dr Mohamed Arif Nun FASc
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Dr Mohamad Zahran Dato’ Sheikh Abdul Halim FASc

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Professor Dr Abdullah Mohd Zin FASc
Professor Ts Dr Mardeni Roslee FASc
Professor Ts Dr Rabbiah Ahmad FASc
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Academician Tan Sri Datuk Dr M. Jegathesan N.M. Vasagam FASc
Tan Sri Dato’ Dr Abu Bakar Dato’ Suleiman FASc
Academician Emeritus Professor Dato’ Dr Lam Sai Kit FASc
Professor Emeritus Dato’ Paduka Dr Mustaffa Embong FASc
Professor Emeritus Puan Sri Datin Dr Nafisah Hj. Nik Mohd Adeeb FASc
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