MBOT
LEMBAGA TEKNOLOGIS MALAYSIA
MALAYSIA BOARD OF TECHNOLOGISTS

TECHIES

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Greening the Feed:

How Sustainable Technology is Transforming Social Media in Malaysia

By Ts. Irma Syarlina Che Ilias, Malaysian Institute of Information Technology, Universiti Kuala Lumpur

Navigating Green Horizons

As Malaysia stands at the crossroads of a sustainable future, the seamless merging of sustainable technology and the influential reach of social media echoes the words of Mahatma Gandhi: 'The future depends on what we do in the present.' Combining these forces in this diverse nation with abundant natural beauty sparks the potential for impactful change.

This article delves into the connection between sustainable technology and social media in Malaysia, uncovering challenges, innovative solutions, inspiring examples, and a vision of united efforts to bring about positive environmental change.

As Malaysia embraces global sustainability trends, technology, especially social media, becomes a cornerstone in fostering eco-friendly behaviours. The digital age offers an unmatched platform for spreading awareness and encouraging responsible actions. This article embarks on an insightful journey where sustainable technology and social media unite to shape a greener digital landscape, as John F. Kennedy once said: 'Change is the law of life. Moreover, those who look only to the past or present are certain to miss the future'.

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/what's inside

/editorial committee

ISSN 0128-1313

/chief editor's note

Navigating Sustainable Technology

Greetings!

We are thrilled to present the 20th edition of Techies, centred on the theme of sustainable technology. This edition spotlights the remarkable potential of Cross-Laminated Timber (CLT), a sustainable construction material that advocates responsible forestry practices, reduces carbon emissions, and transforms construction into an energy-efficient endeavour. The flexibility and eco-friendliness of CLT panels, with their capacity for customisation and off-site manufacturing, open doors to innovative, green building solutions. Beyond its ecological merits, embracing CLT promises to stimulate Malaysia's economic growth, address housing needs and foster sustainable development.

We also explore the convergence of sustainable technology and social media, underscoring the profound impact of technology on our digital lives. This discussion includes challenges such as energy consumption, e-waste generation, digital divide, greenwashing, and privacy and data ethics. In addition, we shed light on promising solutions in the Malaysian context, including the adoption of renewable energy sources for data centres, campaigns for responsible e-waste disposal, initiatives for digital inclusion, verification of sustainability claims and the prioritisation of privacy-centric engagement. The article emphasises the importance of collaboration in creating a digital ecosystem that champions sustainability. As we navigate the green horizons of sustainable technology, we have a unique opportunity to shape the future in a way that preserves the environment for generations to come.

We invite you to immerse yourselves in these articles and become active contributors to the cause of cultivating a more eco-conscious and technologically-advanced society.

In closing, our exclusive interviews with the remarkable recipients of the National Technologist and National Technician awards provide insight into their journey in the world of technology, showcasing boundless possibilities in the realm of innovation.

Join us on this sustainable technology journey to pave the way for a brighter, greener, and more sustainable future. Thank you for being a part of this exciting journey.

Happy Reading!

Datin Ts. Dr. Zuraidah Mohd. Zain

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Unleashing Green Potential

Table 1 offers a comprehensive overview of the sustainability landscape in Malaysian social media. This extensive table examines the intricate relationship between sustainability issues, inventive solutions, and tangible examples that are reshaping the digital realm in Malaysia.

The rise in social media platform usage in Malaysia has resulted in a notable increase in energy consumption by data centres, which primarily rely on non-renewable sources. This situation adds to the country's carbon footprint and environmental impact. To address this, social media companies in Malaysia can bring about positive change by adopting renewable energy sources like solar and wind power for their data centres. This transition would reduce carbon emission and align with Malaysia's sustainability objectives. Leading social media players are already setting an example by establishing solar-powered data centres, capitalising on Malaysia's sunny

Issues	Solutions	Examples
Energy Consumption	Renewable Energy Adoption	Solar-Powered Data Centre, Energy-Efficient Data Centres, Community Solar Projects
E-waste Generation	E-waste Awareness Campaigns	Tech Device Trade-In Programs, E-waste Collection Points, Digital Repair and Upcycling Workshops
Digital Divide	Digital Inclusion Initiatives	Mobile Internet Libraries, Zero-Rating Sustainable Content, Affordable Smartphones
Greenwashing Challenges	Sustainability Verification	Verified Sustainability Badges, Transparency Reports, User-Generated Accountability
Privacy and Data Ethics	Privacy-Centric Engagement	Privacy-Centric Sustainable Challenges, Opt-In Sustainability Information, Anonymized Sustainability Surveys

Table 1: Sustainability Issues, Solutions, and Examples of Related Social Media Efforts in Malaysia.

climate for clean energy generation. This innovative step could significantly decrease carbon emissions associated with energy-intensive data processing. In addition, data centres enhance efficiency through advanced cooling systems and energy-saving technology, ensuring energy conservation and maintaining high-quality social media services. Moreover, social media platforms are engaging users in community-based solar projects, enabling contributions to renewable energy endeavours through crowd-funded solar installations.

The rapid progress of technology propelled by social media platforms is causing a surge in electronic waste (e-waste) in Malaysia, posing a challenge for proper disposal. Collaboration between social media platforms and environmental organisations is vital to address this. These platforms can launch awareness campaigns to educate Malaysians about responsible e-waste disposal, recycling options, and the significance of sustainable technology choices. They can also promote programs like trade-in initiatives through social media, enabling users to exchange old devices for discounts on new ones, hence, incentivising proper recycling. Partnership between tech companies and local recycling centres, facilitated via social media, can establish convenient e-waste collection points for responsible disposal. Social media platforms can also arrange virtual workshops to teach Malaysians how to repair and repurpose old devices, fostering a sustainability culture and reducing e-waste.

Digital divide in Malaysia leads to an uneven playing field, where some communities do not have equal access to social media and sustainable technology. The lack of access denies underserved groups valuable sustainability information and opportunities. Collaboration is essential to ensure that underserved and hard-to-reach communities are not left behind. The Malaysian government can partner with tech firms to establish programs for digital inclusion. These initiatives would provide underserved communities with internet access and technology training, enabling them to engage with sustainability content on social media platforms. Partnership between social media companies and local institutions like libraries and community centres can offer free mobile internet in connectivity gaps, enabling interaction with sustainability-related content. Social media platforms can provide zero-rated access to reliable sustainability content, eliminating data charge concerns, regardless of financial circumstances. Social media platforms collaborating with smartphone manufacturers can yield affordable yet quality phones, extending digital resources and information access nationwide.

Greenwashing poses a growing challenge in the digital realm, where misleading claims on social media can camouflage genuine sustainability initiatives and undermine Malaysia's eco-friendly goals. Implementing stringent rules for verifying sustainability claims on social media is essential to address this issue. This step would enhance transparency and combat greenwashing across Malaysia. For instance, local brands could undergo rigorous checks to validate their sustainability claims on social media, fostering user trust and promoting eco-conscious decisions. Through collaboration with eco-certification organizations, social media platforms could introduce specialized badges that signal authentic eco-friendly products or services, simplifying the identification of genuine options for users. Regular transparency reports shared by social media companies detailing their sustainability actions, data practices, and environmental impact empower users to discern genuine initiatives from greenwashing attempts. Encouraging users to report suspicious greenwashing claims using specific hashtags through social media campaigns cultivates collective accountability, pressuring brands to uphold honest sustainability practices.

Maintaining a balance between promoting sustainable messages on social media and safeguarding user data privacy is a complex challenge that demands robust data protection measures. The solution lies in crafting engagement techniques that prioritise data privacy while fostering a genuine connection to sustainability content. To achieve this, the strategies employed to engage users play a pivotal role. These strategies must emphasise the security of users' personal data while allowing them to interact meaningfully with sustainability content. A practical approach is to organise social media campaigns encouraging users to participate in sustainability challenges without revealing personal information. These challenges should revolve around individual actions, ensuring users' privacy. Additionally, platforms can provide options for users to choose specific sustainability content. Respecting users' privacy preferences guarantees relevant information delivery while safeguarding their data. By collaborating with researchers, social media platforms can gather valuable insights through anonymous surveys on sustainability practices, collecting crucial data while safeguarding user privacy. Implementing these measures achieves a harmonious equilibrium between promoting sustainable engagement and upholding ethical data management.

From Bytes to Sustainability

Amid the drive for a sustainable future, Malaysia stands at the crossroads of innovation and consciousness. Through collaborative initiatives, the nation can steer its people towards eco-friendly choices, addressing energy use, e-waste, digital divides, and more. By partnering across sectors, Malaysia can forge a digital environment that champions sustainability, leaving a lasting footprint. Augmented reality, influencer collaborations, and gamified challenges act as catalysts. Social media amplifies efforts undertaken by the government, education offered by universities, and pockets of inspiration spewed by businesses. This harmonious blend paints a greener Malaysia, where digital interactions sow seeds of real-world environmental change, just as the saying goes, "Where there's a will, there's a way."

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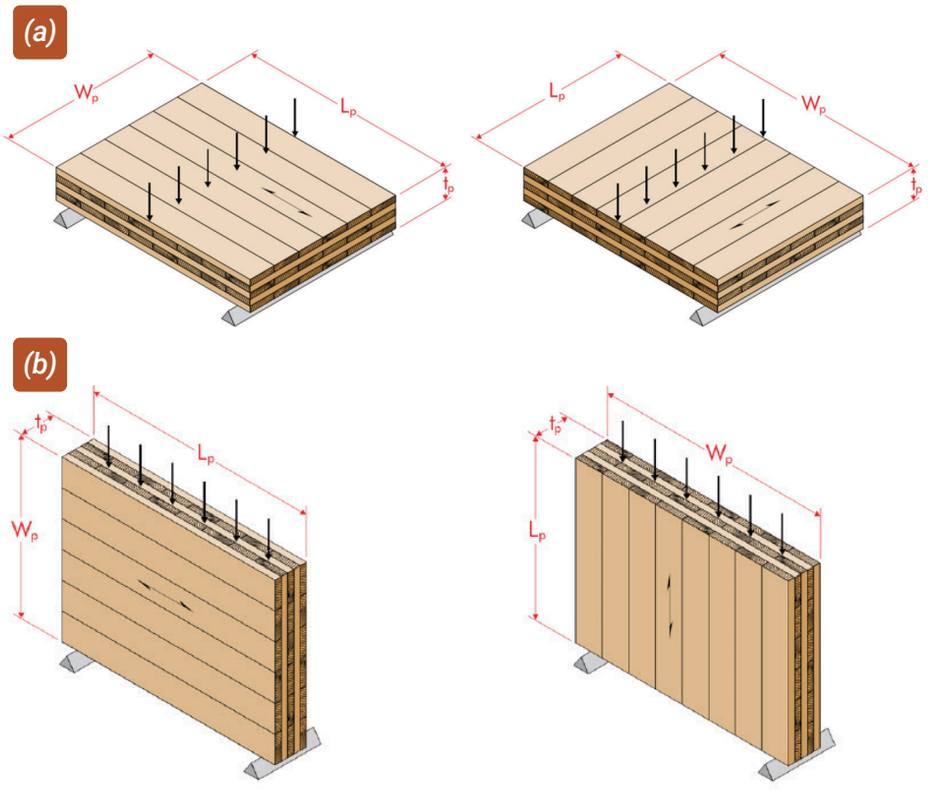
By Ts. Dr. Hj. Muhammad Khusairy Bin Capt. Hj. Bakri, Composite Materials and Engineering Center, Washington State University (WSU)

Building Sustainable Futures: Cross-Laminated Timber and Malaysia's Path to Environmental Resilience

Cross-Laminated Timber (CLT) has emerged as a game-changer for sustainable construction practices worldwide. This innovative building material offers tremendous potential for Malaysia, enabling the country to balance economic growth with environmental responsibility. By understanding CLT methodology and production process and harnessing its benefits, Malaysia can accelerate its transition toward a more sustainable and resilient future.

CLT is a wood product consisting of layers of timber boards glued together at right angles. The panels are typically finger-jointed, meaning, shorter pieces are connected end-to-end to maximise resource utilisation. The layers are stacked and bonded using environmentally-friendly adhesives, such as formaldehyde-free resin. This cross-lamination technique provides exceptional strength, stability, and structural integrity to the final CLT panels. CLT is primarily made from softwood species such as spruce, pine, and fir, known for their strength and dimensional stability. These species are typically sourced from sustainably-managed forests.

The first step in CLT production involves debarking timber logs to remove the outer bark layer. This ensures a clean and smooth surface for subsequent processing. The logs are then cut into boards of predetermined thickness, typically 15 to 50 mm. They are then dried to a specific moisture content, typically between 8% and 12%. This process ensures that the boards have optimal stability and durability, reducing the risk of warping or shrinking. Shorter pieces of timber are connected end-to-end through a finger-jointing process, which maximises the utilisation of timber resources and provides structural integrity. This involves machining precise interlocking profiles on the ends of the boards, allowing them to be tightly joined. The finger-jointed boards are glued using environmentally-friendly adhesives. In the cross-lamination process, the finger-jointed boards are arranged in layers, each oriented at right angles to the adjacent one. This alternating grain direction enhances structural strength and stability, enabling them to resist bending and shearing. Once the layers are aligned, the panels are pressed under high pressure to ensure a strong bond between the layers. This process can be performed using hydraulic presses or other specialised machineries. The resulting panels are trimmed to desired dimensions and are then ready for further processing or being transported to construction sites.



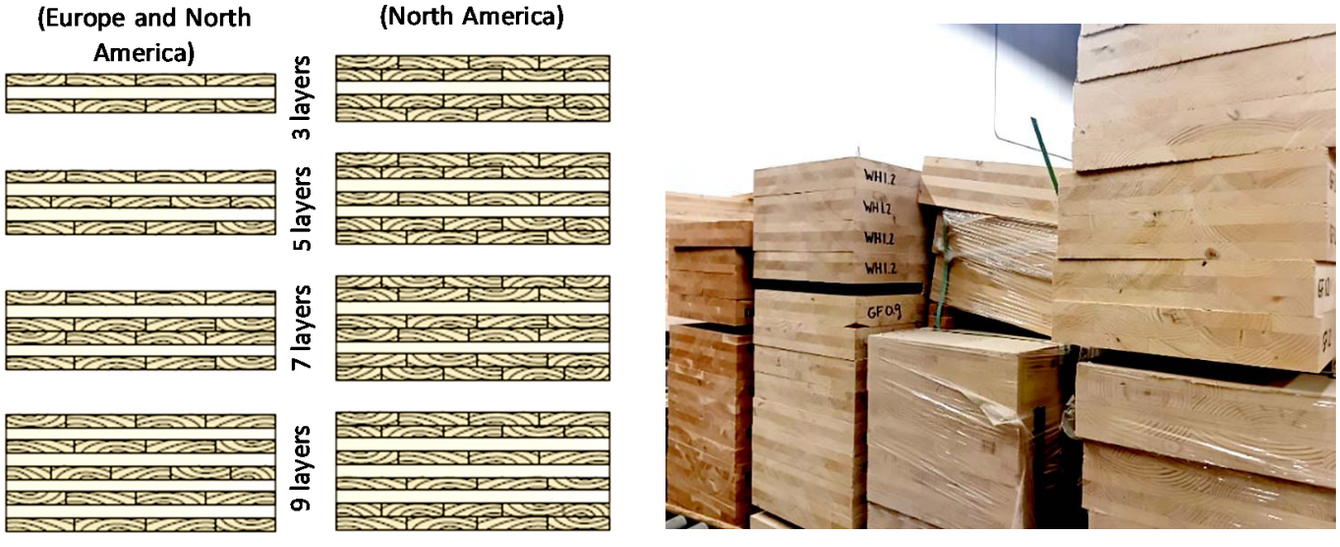
Bending in the major (left) and minor (right) CLT strength directions (a) edgewise and (b) flatwise (no permission needed).

CLT panels are designed to meet specific structural requirements, taking into account load-bearing capacity, deflection limits, and structural connections. Engineers and architects analyse the design loads and use appropriate design methodologies and software to ensure that the panels meet safety standards. CLT has inherent fire-resistant properties due to its thick cross-section and charring rate. However, additional fire protection measures, such as fire-rated gypsum board or intumescent coatings, can be incorporated into the design to enhance fire resistance and meet regulatory requirements.

The panels provide excellent acoustic insulation due to their mass and density. However, the design may include additional sound-absorbing materials or configurations to optimise acoustic performance, especially in applications where noise control is critical, such as in multi-story buildings or educational facilities.

In terms of its thermal properties, CLT contributes to energy efficiency and comfort in buildings. The design can incorporate insulation materials within the panel assembly to enhance thermal performance and meet energy efficiency standards. The material's versatility allows for diverse architectural designs. It can be customised to accommodate openings for doors, windows, and service penetrations. CNC machining technology enables the precise cutting of complex shapes, allowing for innovative and intricate designs.

CLT design considers the responsible sourcing of timber, adherence to environmental certifications, and efficient material usage. The design process aims to optimise resource utilisation, reduce waste, and promote circular economy. Overall, the methodology and design of CLT prioritise structural integrity, safety, energy efficiency, and sustainability, offering architects' and engineers' versatile and environmentally-friendly building materials to create innovative and resilient structures.



Examples of variations of CLT arrangement and design in Europe and North America (no permission needed).

As stated earlier, CLT panels can be customised according to the project requirements, offering flexibility in design and construction. They can be precision-cut to specific dimensions, incorporating openings for windows, doors, and other fixtures. The panels are manufactured off-site in controlled factory environments, ensuring high quality and precision. Once produced, they are transported to construction sites for efficient and rapid assembly, reducing on-site construction time and disruption.

One of the key advantages of CLT is its sustainability. With its rich forest resources, Malaysia can leverage CLT to promote responsible forestry practices, which can ensure timber replenishment and long-term sustainability via selective logging, reforestation, and forest certification. Proper forest management contributes to biodiversity conservation, ecological balance, and the prevention of deforestation.

Moreover, CLT acts as a carbon sink, sequestering carbon dioxide within its structure. Timber is a renewable resource that stores carbon absorbed from the atmosphere during the tree's growth. Using CLT in construction, Malaysia can reduce carbon emission associated with traditional building materials like concrete and steel, mitigating climate change and promoting a low-carbon future. The energy efficiency of CLT further enhances its sustainability credentials. Timber possesses natural thermal insulation properties, providing excellent heat retention and reducing the need for excessive heating or cooling. CLT buildings exhibit superior energy performance, lower energy consumption and reduced carbon footprint throughout their lifecycle. This energy efficiency aspect aligns with Malaysia's efforts to achieve better energy conservation and less greenhouse gas emissions.

The production process of CLT emphasises efficiency and waste reduction. Timber offcuts and by-products generated during cutting and shaping processes can be recycled or repurposed into other wood-based products. These waste materials can also be utilised as biomass for energy generation, contributing to a circular economy and minimising environmental impact.

Responsible CLT manufacturers adhere to stringent certifications such as the Forest Stewardship Council (FSC) or the Programme for the Endorsement of Forest Certification (PEFC) to ensure the highest quality and sustainability standards. These certifications guarantee that the timber used in CLT production comes from responsibly managed forests, adhering to environmental, social, and economic sustainability criteria.

The adoption of CLT can significantly support Malaysia's sustainability goals. It promotes economic growth by utilising the country's abundant timber resources, strengthening the timber industry, and creating job opportunities. The widespread use of CLT in construction projects can help address Malaysia's housing needs, especially for affordable and sustainable housing. Having rapid construction capabilities, cost-effectiveness and energy efficiency make CLT an ideal choice indeed.

Gaia - Asia's largest wooden building sets the new sustainable standard in Singapore (Shama Shejal (2023) - https://interestingengineering.com/innovation/asias-largest-wooden-building)

An Interview with **Eur Ing. Ts. Mohamad Sukor bin Zainal Abiddin**

The Recipient of Anugerah Teknologis Negara

What inspired you to pursue a career in technology and become a technologist?

Rising from humble beginnings, I know exactly how tough the world of technology & engineering can be, more so in the oil & gas drilling industry. I grew up in a squatter settlement in Kampung Pandan, and had the honour of going through numerous trials and tribulations that have shaped me enormously. I draw inspiration from my late father, Almarhum Haji Zainal Abiddin, who served as a driver with Tenaga Nasional Berhad (TNB) for 30 years.

I wanted to excel in the engineering field because I wanted to make my parents proud. As a driver, my late father was in essence the one who mobilised TNB engineers from one destination to another. He had much respect for the people he drove for. He was very hands-on and very competent in innovating solutions for all sorts of house-related problems, be they mechanical, electrical, or civil in nature. My father was inspired by the competency and expertise of the technologists and engineers, but he could not be one of them due to his low education. I knew it was his dream to see me as an engineer and involved in technology and innovation. Today, I know I have made him proud by becoming the first ever award winner of ANUGERAH TEKNOLOGIS NEGARA.

Can you share some of your most significant accomplishments and contributions in the field of technology?

Like other typical Asian young graduates, I was quiet and not visible in my first year of work with the world's largest oilfield service company. Not long after, I was assigned to lead the Logging While Drilling (LWD) Acoustic technology program, which measured the slowness of the downhole formation and the radioactiveless neutron multifunction LWD equipment, which integrated a full suite of formation evaluation in one single collar. These were among the few new technologies introduced at that time, and I led the new technology deployment program at a young age. I could have said 'no' to my manager, but I evaluated the risks involved and decided to accept the challenge. The decision changed me from being a shy engineer to a top-notch one in my era. The job was the most important moment in my career as my character

> "My father was inspired by the competency and expertise of the technologists and engineers, but he could not be one of them due to his low education. I knew it was his dream to see me as an engineer and involved in technology and innovation."

became bold, my confidence soared, and my leadership skills enhanced tremendously. I learnt that risk-taking is necessary in any career as it pushed me beyond the ordinary. I was promoted to Senior Engineer post within 1.5 years and quickly became the exemplary engineer/technologist at the place.

After successfully completing the new technology deployment task, I was assigned as Lead Engineer for the development drilling campaign of an oil & gas operator. My team and I gave a technical presentation to our clients and convinced them to have faith in the technology we offered, which included LWD Acoustic, Formation Pressure While Drilling and Rotary Steerable Auto Downlinking. I initiated the first In-Line Stabilizer (ILS) deployment in Malaysia, which provided better stability and prevented eccentricity of the LWD Acoustic in the hole, thus giving a reliable slowness reading of the formation. The configuration proved to be the best configuration of LWD Acoustic Bottom Hole Assembly and it was captured as the best practice. In reviewing the statistics of 2008/2009, the team managed to achieve an outstanding performance over 6 wells, with a total of 16,680 metres drilled and 1,454 pumping hours. Our client recognised the job we executed to be of exceptional quality, without a single Non-Productive-Time (NPT) recorded on the rig that I led. There was not a single human error throughout my tenure as engineer. I began to get the attention of top management, and was rated an "A" outstanding performer. I was then promoted to become a manager soon after.

What advice would you give to aspiring technologists who are just starting their careers in the tech industry?

I have plenty to advise, but in summary there are five points that all aspiring technologists should pay attention to,

> "Challenge yourself to present and talk to small and big audiences. You will be recognised by peers and management alike, and this will bring benefit to your career. Do not be afraid to take calculated risks, for, success does not come from a comfortable place."

namely (1) go for learning & knowledge, (2) have a career target, (3) strive for visibility, (4) take risks, and (5) broaden your network.

In essence, keep learning from everyone, and be willing to work extra hours. You should spend time with technicians and learn as much as you can from them. This is because all good technologists and engineers have deep knowledge. In terms of having career targets, set short term, mid-term and long-term goals. Share and discuss your career targets with your manager, and work very hard to achieve them. Always put a meaningful purpose and objective in your career. This will help you stay focused and not deviate unnecessarily.

Try not to be invisible. Speak out. Express your opinion. Participate actively in meetings. Use emails and other communication tools to enhance your visibility. Challenge yourself to present and talk to small and big audiences. You will be recognised by peers and management alike, and this will bring benefit to your career. Do not be afraid to take calculated risks, for, success does not come from a comfortable place. Rather, it comes with risks. But do be careful before you decide to take the risks. Perform thorough risk assessments – you will see your confidence soar.

Lastly, make professional friends and grow your network. You will reap the benefits later on.

In today's rapidly evolving tech landscape, what do you see as the most exciting opportunities and challenges for technologists?

From small companies to large enterprises, every organisation is impacted by the dynamic nature of technology. Embracing digital transformation is not an option. It is a necessity in today's world. With digital transformation comes a rewarding and exciting career, and opportunities to attend conferences and tech events, which will open up a whole new world for you.

However, there are many issues to overcome. At the moment, we do not have much TVET talent in the country. For companies, attracting and retaining top tech talent is a significant challenge, requiring competitive compensation packages just to acquire the best in the sector. As technologists, we must differentiate ourselves from others by being up-to-date with the latest knowledge and skills. We must also be concerned about environmental matters and play our part to adopt sustainable practices as much as we can. Balancing profit with environmental responsibility is indeed a challenge, but good technologists see problems as opportunities. We must wholly embrace disruptive technologies as they are our means to continually reshaping businesses, industries, and lives in general.

An Interview with **Tc. Narzrezal bin Abdul Razak**

The Recipient of Anugerah Juruteknik Negara

What initially drew you to the field of technology and inspired you to become a technician?

My inspiration, of course, was UNIVERSITI MALAYSIA PERLIS (UniMAP) – an organisation established mainly to provide engineering- and technology- based education. Around 2003, I was called to work with several groups within UniMAP to develop a few laboratories and a teaching factory. We procured industry-scale machines and equipment for the purpose of teaching and learning. UniMAP allocated a large budget to acquire high-tech machines. Being directly involved in the process, I was able to learn about the technology underlying the machines. I had to understand it thoroughly so as to put it into practice and after that, to teach students about it too. Along the way, my fascination on all things technology was heightened to the fullest.

Until today, after serving for almost 20 years, UniMAP's Faculty of Mechanical Technology Engineering still allocates a relatively large budget to provide the latest and the best facilities, as well as the most competent staff members for students to gain as much knowledge as possible, so that they are better prepared for current and future industry scenarios.

Can you share some of the key achievements and projects in your career that you believe contributed to this prestigious recognition?

My work in the field of 'REVERSE ENGINEERING, DESIGN AND PROTOTYPE' has much to do with the recognition that I received. It is a key part of any product development process. Prototyping is important for various reasons. Initial feedback, for one, is an imperative aspect of prototyping. It is the process of gathering feedback on the design and prototype. Prototyping makes it possible to gather insights and comments from experts at every stage. This helps to improve the product as much as possible.

Over the years, I have been fortunate enough to be a 'source of reference' of sorts for several government agencies, private agencies, schools, the local community and individuals. I believe I have somewhat contributed to the government's call to develop and market indigenous innovative solutions, to guide local talents and to innovate resolutions that are sustainable. I have been given numerous opportunities to participate in the development of innovations, some of which have been patented and are commercially viable.

I am blessed to be working in this fresh, continuously developing environment of engineering & technology, with its advanced and latest engineering facilities. It is a privilege to work closely on a daily basis with an amazing research group.

What advice would you give to aspiring technicians who are looking to build successful careers in the technology sector?

I would advise aspiring technicians to understand the importance of accreditation and certification, because these are proofs of a person's qualifications and capability to execute jobs in a professional manner.

Hence, I encourage aspiring technicians to register to get official recognition from the Malaysian Board of Technologists (MBOT). The Board, established under the Ministry of Science, Technology and Innovation, is responsible for providing professional recognition to the workforce in a range of identified technology and technical sectors.

Now we see that technicians are no longer considered second-class technical staff. Being recognised by the MBOT shows that we are on par with our counterparts in other dignified professions.

Lastly, what are your long-term aspirations in your career as a technician?

My long-term career aspiration is to help make Technical Education and Vocational Training (TVET) thrive as a mainstream discipline. Challenges in mainstreaming TVET programmes in the national education system still exist, especially when it comes to the perception and stigma of technology practitioners in this country. Many people are still not fully convinced that Malaysia needs more technologists and technicians, and not just engineers alone. TVET, alongside other academic fields, paves the way to ensure that our country progresses rapidly in its journey to become a first world economy. Technologists and technicians are the catalysts in this journey towards success and victory.

I can honestly say that the award I received and our role as technology trendsetters will continue to propel and motivate me and other technicians out there to further continue serving this nation in our respective fields of expertise.

The Chief Editor of TECHIES, who has worked with Tc Narzrezal before, wishes to substantiate and applaud this admirable recognition of Narzrezal's achievement. He has over the years proven his worth, and is fully deserving of this Award. Narzrezal merits the best in his future undertakings.

/mbot news

MBOT TECHNOLOGY AND TECHNICAL EDUCATION TOWNHALL 2023

Date
17 October 2023

Time
2.00 ptg – 5.00 ptg

Venue
Pulse Grande Hotel Putrajaya

Nineteen Institutions Forge Agreement for Professional Registration with MBOT

Nineteen higher education institutions and skills training institutions, for the first time, signed a memorandum of understanding (MoU) with the Malaysia Board of Technologists (MBOT), which allows graduates to register as members of the professional body. The agreement represents a significant milestone for a number of higher learning institutions, as graduates of MBOT-accredited programs offered in the institutions will gain automatic recognition.

Accreditation by MBOT means the graduates fulfil the minimum level of competency required of any professional technologist or technician. In addition, MBOT accreditation complies with the latest standards of technological innovation and industry development in terms of competency and marketability.

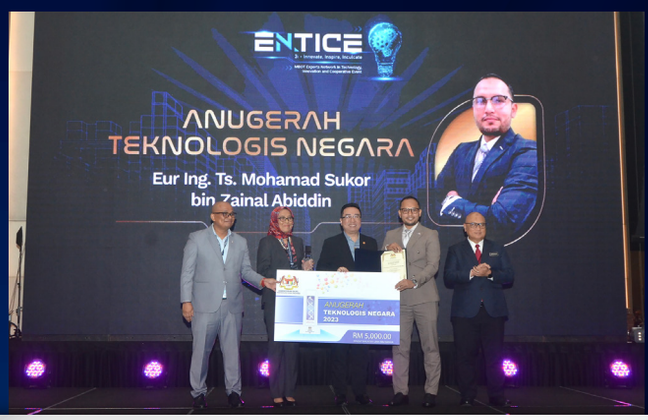
The MoU exchange ceremony was held in conjunction with MBOT Technology and Technical Education Townhall 2023 on 17 October 2023 in Putrajaya. The session gathered 150 attendees including vice-chancellors, deputy vice-chancellors and representatives of the institutions.

Datuk Ts. Wan Hasmar Azim Wan Hassan, Chief Executive Officer of Weststar Aviation Services Sdn. Bhd., was also present to deliver a talk on "Community of Practice: Emerging Dimensions in the Industrial Ecosystem."

PHOTO CREDIT: PUSAT KOMUNIKASI KORPORAT, UMPSA MALAYSIA

ENTICE
3i - Innovate, Inspire, Inculcate

MBOT Experts Network in Technology, Innovation and Cooperative Event (ENTICE'23)



Malaysia Board of Technologists (MBOT) embarked on another historic journey by signing a Memorandum of Understanding (MoU) with prominent ASEAN countries namely Myanmar, Indonesia, Singapore, Brunei, Cambodia and Timor Leste. The ceremony symbolises a strong commitment to driving technological talent advancement and sustainability in the region.

The ceremony took place in Kuala Lumpur during the MBOT Experts Network in Technology, Innovation, and Cooperative Event (ENTICE 23), witnessed by Yang Berhormat Tuan Chang Lih Kang, Minister of Science, Technology and Innovation.
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With the theme 'Sustaining Environmental and Social Governance with Technology', MBOT ENTICE 23 is the third edition of this innovative town hall meet-up, organised annually. The program featured a diverse range of activities, including keynote speeches, forums, memorandum of understanding (MoU) signings, award presentations and exhibitions.

The event also shone a spotlight on excellence and achievement. A few remarkable individuals were duly honoured by MBOT:

- Anugerah Juruteknik Negara:
  Tc. Narzrezal Abdul Razak
- Anugerah Teknologis Negara:
  Eur. Ing. Ts. Mohamad Sukor Zainal Abiddin
- Esteemed Distinguished Honorable Award:
  Tan Sri Dato' Academician (Dr.) Ts. Ir. Ahmad Zaidee Laidin, the founding President of MBOT

ENTICE 23 was graced by the presence of more than 500 attendees comprising MBOT members and representatives from various industries, institutions, government agencies, and renowned organisations. There were also 5000 virtual participants.

/mbot registration

Graduate Technologists	Qualified Technicians	Professional Technologists	Certified Technicians
44,773	9,123	20,795	2,643

77,334
Total MBOT Registrants
(As of September 2023)

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