

WFEO-WIE STC NEWSLETTER



WIE

The Committee on
Women in Engineering

First Quarter: January–March 2026

Transforming the Future with Smart Engineering, Digital Innovation, and Sustainability



In This Edition

World Engineering Day 2026 - Indonesia, Jakarta (Global)

Strengthening Agriculture Through Women's Leadership
and Inclusive Engineering - Ghana (Africa)

Malaysia Women in Science and Engineering (WISE)
Conference 2026 - Malaysia (Asia/Pacific)

Beyond the Blueprint: Women Engineers Balance Work and Life on the
Fairway. - Philippines (Asia/Pacific)

Women Engineers Lead Global Change at World Engineering Day 2026

Story by: Ing Dr. Enyonam Kpekpena | Region: (Global) | Email: efkpekpena@yahoo.com



At the celebration of World Engineering Day 2026 in Jakarta, the Women in Engineering (WIE) platform achieved a remarkable milestone in the global movement toward inclusive and sustainable engineering with the launch of two groundbreaking publications designed to strengthen the role and visibility of women in engineering worldwide.

The first publication, **“Harmonizing Data Collection on Women Engineers Across Countries: A Proposal for Standardized Metrics and Methodologies,”** calls for a unified global approach to collecting and reporting data on women engineers.

By promoting standardized and reliable gender-disaggregated data, the publication aims to support evidence-based policymaking, strengthen diversity tracking, and advance gender equity within the engineering profession.

The second publication, **“Gender Perspective Guidelines on How Engineering Can Improve the Lives of Women and Communities,”** highlights how engineering solutions can become more inclusive, responsive, and transformative when gender perspectives are intentionally integrated into infrastructure development, community planning, and innovation.

These publications represent more than research and policy guidance they symbolize a growing global commitment to ensuring that engineering remains people-centered, inclusive, and capable of transforming lives and communities.

They also reaffirm the inspiring role women engineers continue to play in building resilient societies, driving innovation, and shaping a more equitable and sustainable future for generations to come.



Strengthening Agriculture Through Women's Leadership and Inclusive Engineering

Story by: Ing Dr. Enyonam Kpekpena | Region: Ghana (Africa) | Email: efkpekpena@yahoo.com



The 56th Annual General Meeting and Conference of the Ghana Institution of Engineering (GhIE) advanced a forward-looking, engineering-led agenda to enhance food security and reinforce national economic resilience, with a strong emphasis on inclusion and gender-responsive innovation.

Held in Ho from 16–20 March 2026 under the theme “Engineering the Food Security and Sustainable Agriculture Value Chain,” the conference convened engineers, policymakers, researchers, and industry leaders to address critical challenges across Ghana’s agricultural systems.

A standout feature of the event was the Women in Engineering Forum panel, “From Soil to Shelf: Women Engineering Ghana’s Food Future.” The session delivered a clear and compelling message: empowering women through inclusive engineering solutions is essential to transforming agricultural value chains and achieving sustainable food systems.

Moderated by Ing Carlien Bou-Chedid – Past President of Ghana Institution of Engineering and featuring Dr. Grace Doku – Senior Lecturer, Ho Technical University, Dept. of Agricultural Sciences & Technology; Dr. Nana Adwoa S. Boateng – Food Scientist, Ho Technical University, Food Science & Engineering; Ms. Janet Abade – Farmer, Agro-processor & Founder, Madomise Women Farmers’ Association / ELSJYNE Enterprises and Charlotte Tay – Agricultural Engineer.

Their collective insights underscored both the critical role women play in food production and the systemic barriers that continue to limit their productivity and impact.

The discussion highlighted persistent challenges, including limited access to mechanisation, finance, and equitable markets. These constraints contribute to significant post-harvest losses, exacerbated by inadequate storage systems and underdeveloped cold-chain infrastructure.

Panelists also raised concerns around food safety, calling for strengthened standards, improved testing systems, and more effective regulatory frameworks.

A central outcome of the session was a call for practical, co-designed engineering solutions technologies that are affordable, accessible, and developed in collaboration with the women who rely on them.

Participants emphasized the importance of strengthening partnerships between academia, industry, and local communities, alongside investing in the local production of safe, standardised agro-processing equipment.

The forum further reinforced the importance of capacity building and leadership development. With targeted mentorship, skills training, and institutional support, women can move beyond participation to leadership roles across the agricultural value chain driving innovation, enterprise development, and community resilience.

The overarching conclusion was unequivocal: when women are intentionally included and empowered within engineering and agricultural systems, outcomes improve across productivity, sustainability,

and food security. This approach aligns closely with the mission of the World Federation of Engineering Organizations to promote inclusive engineering solutions that advance sustainable development and improve lives worldwide.



(From Left) Engr Ali Alimasuya Rabi, President of the Nigerian Society of Engineers; Eng Refilwe Buthelezi, President of the Federation of African Engineering Organizations; Mr. Goosie Tanoh, Presidential Advisor on the 24-Hour Economy; Ing Ludwig Annang Hesse, President of the Ghana Institution of Engineering; Togbe Ayim Adzokoto II; and Gizella Tetteh-Agbotui, Deputy Minister for Works, Housing and Water Resources captured at the conference, united in advancing engineering-driven national development.

ECG-WinE: Driving Visibility, Mentorship, and Growth for Women Engineers

Story by: Alberta Amankwaa | Region: Ghana (Africa) | Email: albyamankwaa@gmail.com

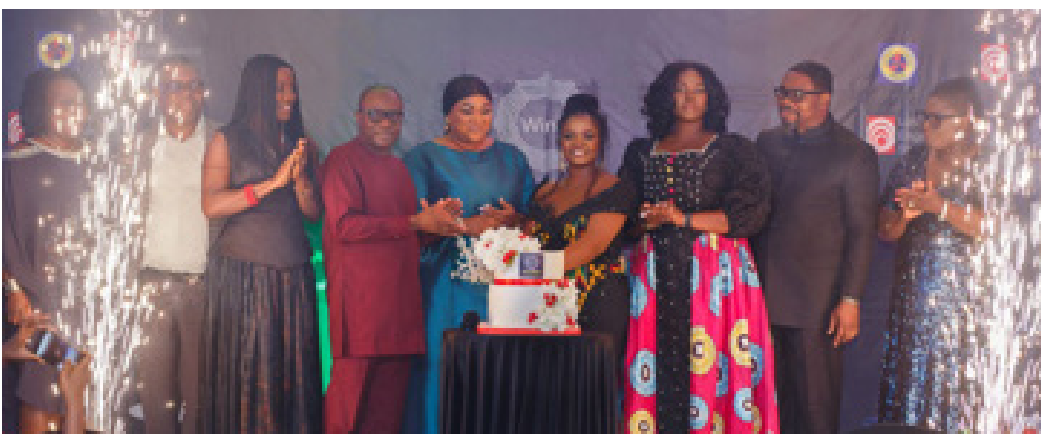


The Electricity Company of Ghana (ECG) Women in Engineering (WinE), a chapter of the Women's Wing (WinE) of the Ghana Institution of Engineering (GhIE), promotes visibility, mentorship, outreach, and professional development among female engineers.

In the first quarter of 2026, ECG-WinE organised career guidance and sanitary pad donations at the Nkwantanang Cluster of Schools in the Greater Accra Region. In collaboration with the Layla Medad Foundation, a similar outreach, including footwear donations, was conducted at Agorvega in the Volta Region.

These initiatives formed part of the ECG-WinE Mega Programme, which integrates community outreach, personal development, and recognition of excellence. The programme also featured a Relationship Talk with Uncle Ebo Whyte and a Dinner and Awards Night.

Through these efforts, ECG-WinE continues to empower women engineers and inspire young girls in STEM.



Women in Engineering Ghana Activities

Story by: Ing Dr. Enyonam Kpekpena | Region: Ghana (Africa) | Email: efkpekpena@yahoo.com

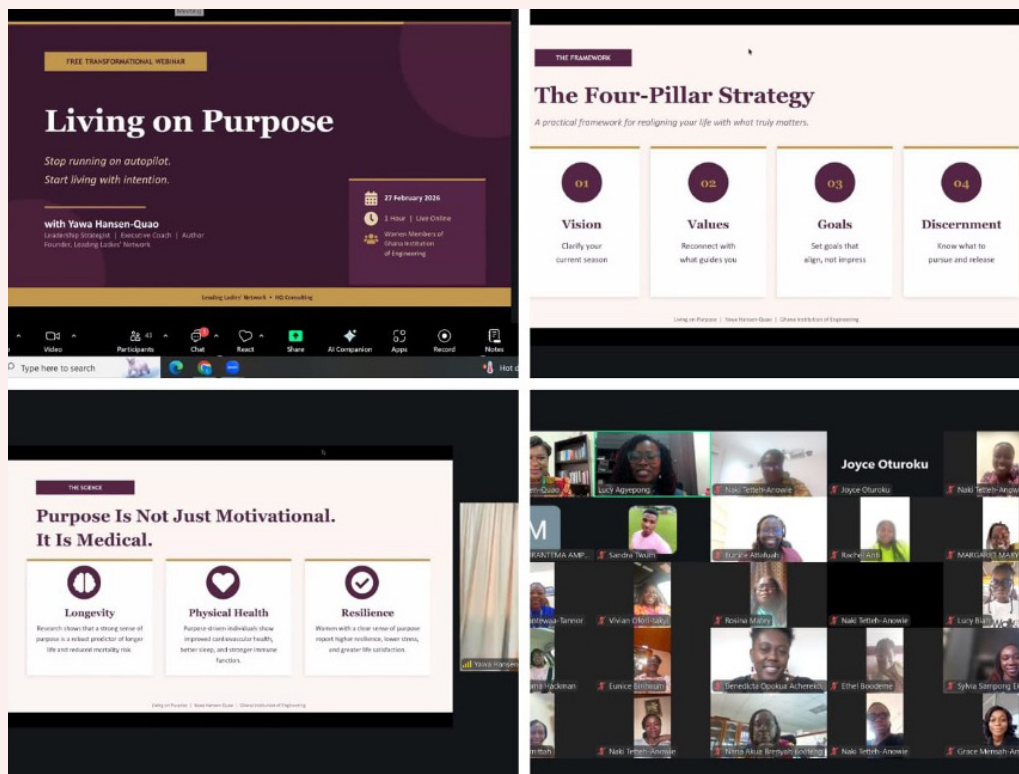
Strategic Leadership Engagement

WinE Ghana began 2026 with a high-level courtesy call on the Vice President of Ghana, H.E. Prof. Naana Jane Opoku-Agyemang. This meeting was both symbolic and strategic, celebrating her historic appointment as the first ever female vice president while exploring collaboration in mentorship, education, and STEM advancement. It reinforced WinE's role in shaping national development through women engineers and creating pathways for girls to thrive in technical professions.



Roundtable Discussion – Living on Purpose

On 27 February 2026, WinE hosted its first roundtable of the year, themed Living on Purpose: Aligning Vision, Values and Goals. Facilitated by Yawa Hansen-Quao, Founder of Leading Ladies Network, the session encouraged members to reflect on the alignment between personal vision and professional direction. It emphasized intentional living, clarity of purpose, and authentic leadership demonstrating WinE's commitment to holistic growth beyond technical skills.



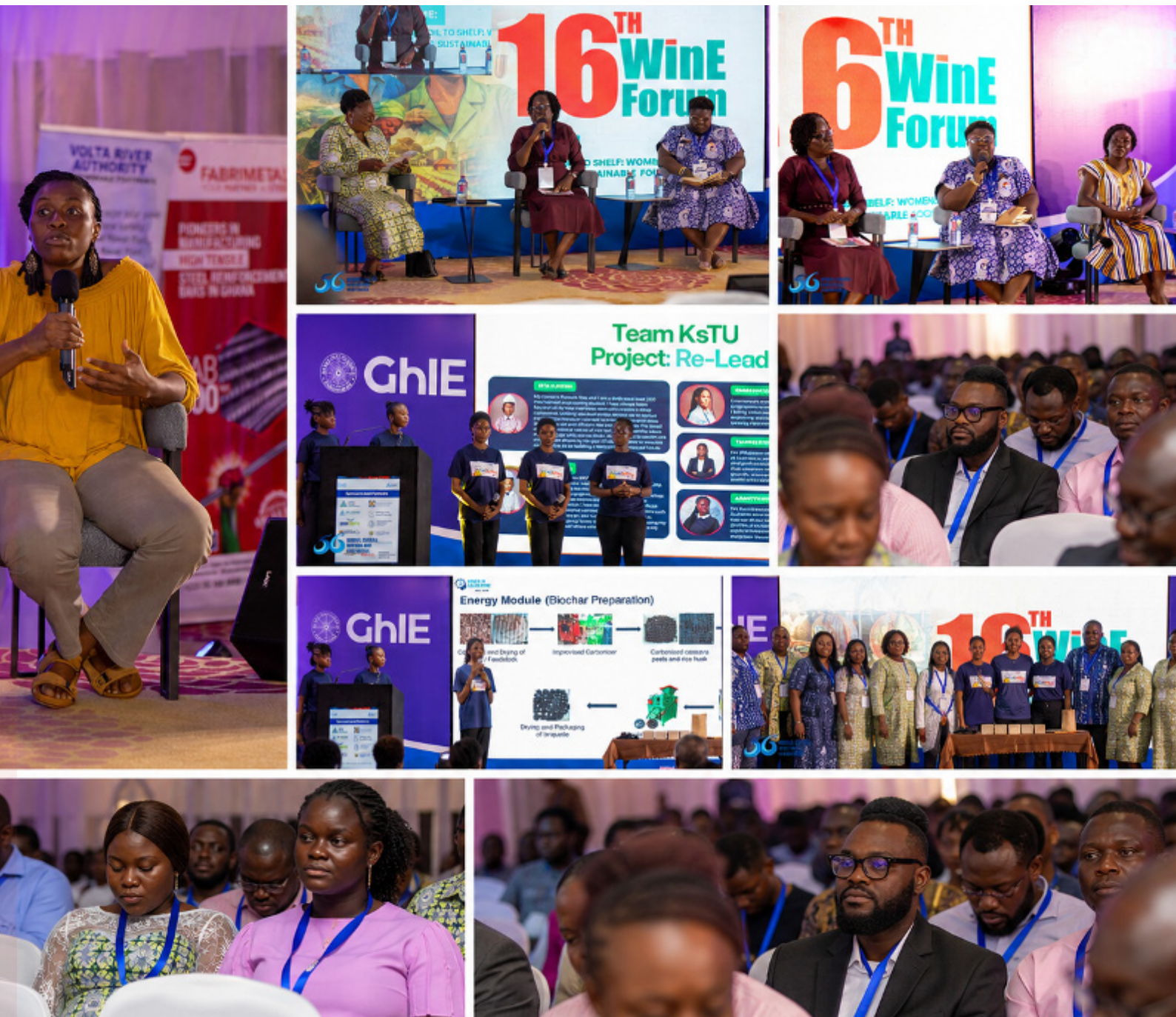
WinE Forum 2026

At the 56th Annual General Meeting and Engineering Conference in Ho, the Women in Engineering (WinE) Forum turned the spotlight on food security. Two sessions one led by professionals and another showcasing student innovation explored weaknesses in Ghana's food value chain and how to strengthen it.

The message was clear: increasing production alone won't secure Ghana's food future if post-harvest losses remain high and women farmers lack access to equipment, finance, and reliable markets. The panel discussion, From Soil to Shelf: Women Engineering Ghana's Sustainable Food Future, highlighted barriers faced by women in farming and processing, from poor storage and drying facilities to limited market access. Speakers called for affordable technologies, stronger local manufacturing, and closer collaboration between farmers, engineers, and extension officers.

Students added fresh ideas, presenting hydroponics systems, biodegradable packaging, biochar briquettes, banana-fibre bags, and rice husk ash bricks innovations that turn waste into valuable products.

Both sessions converged on the same priorities: solutions must be practical, locally driven, and inclusive of women. The takeaway was that food-system performance depends not just on output, but on storage, processing, transport, and equitable market access. Sustained impact will require investment, mentorship, and partnerships to move prototypes into widespread adoption.



Malaysia Women in Science and Engineering (WISE) Conference 2026

Story by: Prof Wai Yie Leong | Region: Malaysia (Asia/Pacific) | Email: waiyie@gmail.com

In conjunction with International Women Day 2026, Malaysian Invention and Design Society (MINDS) organised Malaysian Women in Science and Engineering (WISE) Conference 2026, on 5 March 2026, Thursday. The conference featured thought-provoking talks and discussions by renowned women scientists and inventors on critical topics, including:

- key developments in algae at the nexus of climate, industry and the circular economy
- Innovations in herbal enzyme applications
- Advancements in cancer care technologies
- Biomass and bioenergy solutions supporting a circular palm oil economy
- Shape Memory Acoustic Intelligence as a strategic smart materials engine for future industries
- Female Fortitude: A Journey in Science, Leadership & Impact
- Global carbon sequestration and the roles of tropical forests and crops: prospects for using innovative carbon trading approaches to address the climate emergency

WOMEN IN SCIENCE AND ENGINEERING (WISE) CONFERENCE - WEBINAR 2026
05.03.2026, THURSDAY (GMT+8) 9AM - 11:00PM

WELCOME ADDRESS
ACADEMICIAN EMERITUS PROF. TAN SRI DATUK DR. AUGUSTINE S. H. ONG
PRESIDENT, MINDS

CONFERENCE OBJECTIVES:
Inspire Young Women:
Celebrate Contributions:
Honour Lifetime Achievements:
Support Young Innovators:

We aim to inspire and encourage young women to explore and thrive in science, technology and social sciences. Our goal is to share the amazing contributions of Malaysian women scientists with the public and highlight their achievements. We will recognize a remarkable Malaysian woman scientist who has made significant contributions throughout her career with the Lifetime Scientific Research Achievement Award. We aim to promote and celebrate the achievements of a talented young Malaysian woman scientist under 40 through the prestigious Young Woman Scientist Award.

Speakers will highlight key developments in algae at the nexus of climate, industry, and the circular economy; innovations in herbal enzyme applications; advancements in cancer care technologies; biomass and bioenergy solutions supporting a circular palm oil economy; women's leadership and resilience in science; shape memory acoustic intelligence as a strategic smart-materials engine for future industries; global carbon sequestration and the roles of tropical forests and crops.

Who should attend?
The conference welcomes a diverse audience, including academics, scientists, technologists, engineers, professionals and students from upper secondary, pre-university, undergraduates and postgraduate levels.

MODULE I CHAIRPERSON
YBHG. DATUK DR. CHOO YUEN MAY, FASc
VICE PRESIDENT, MINDS
CHAIRPERSON CONFERENCE ORGANIZING COMMITTEE

MODULE II CHAIRPERSON
IR. PROF. DR. LEONG WAI YIE
HONORARY SECRETARY, MINDS
DEPUTY CHAIR, WOMEN IN ENGINEERING, WORLD FEDERATION OF ENGINEERING ORGANIZATIONS (WFEO)

KEYNOTE ADDRESS
EMERITUS PROFESSOR DR. PHANG SIEW MOI, FASc, FMBA (UK)
DEPUTY VICE-CHANCELLOR (RESEARCH & POSTGRADUATE)
UCSI UNIVERSITY
RECIPIENT: MINDS OUTSTANDING WOMAN SCIENTIST LIFETIME SCIENTIFIC RESEARCH ACHIEVEMENT AWARD

Registration Details:
Registration Deadline: 3/3/2026
MINDS Member: FREE
Non-Member: RM 20
Contact Details: Ms. Anni M. Jais #620003232

WOMEN IN SCIENCE AND ENGINEERING (WISE) CONFERENCE - WEBINAR 2026 PROGRAMME

0900 - 0910 Welcome Address by YBhg. Academician Emeritus Prof. Tan Sri Datuk Dr. Augustine S. H. Ong, President of MINDS

0910 - 0925 **Module I**
Chairperson: YBhg. Datuk Dr. Choo Yuen May, FASc, Vice President of MINDS cum Chairperson of Conference Organizing Committee

0925 - 1000 **Presentation of MINDS Outstanding Woman Scientist Lifetime Scientific Research Achievement Award 2026**
Recipient: Emeritus Professor Dr. Phang Siew Moi, FASc, FMBA (UK)

1000 - 1020 **Keynote Address: Algae At The Nexus Of Climate, Industry, And The Circular Economy**
Emeritus Professor Dr. Phang Siew Moi, FASc, FMBA (UK), Deputy Vice-Chancellor (Research & Postgraduate), UCSI University

1020 - 1040 **The Power Of Tikta Herbal Enzyme**
Datin Professor Dr. Clara Chee, Founder & Chairperson of Clara International Beauty Group

1040 - 1100 **Closing The Cancer Care Gap With Innovative Technologies**
Prof. Dr. Cheong Sok Ching, FASc, Chief Scientific Officer of Cancer Research Malaysia

1100 - 1120 **The Science Of Biomass And Bioenergy Innovation Towards A Circular Palm Oil Economy**
Dr. Leoh Kheng, KMN, ChM, Head, Energy and Environment Unit, Engineering & Processing Research Division, Malaysian Palm Oil Board (MPOB)

1120 - 1130 Q&A Session

1130 - 1140 Break

1140 - 1200 **Module II**
Chairperson: Prof. Ir. Dr. Leong Wai Yie, Honorary Secretary of MINDS cum Deputy Chair, Women in Engineering, World Federation of Engineering Organizations (WFEO)

1200 - 1220 **Presentation of MINDS Young Woman Scientist Award 2026**
Recipient: Dr. Nabihah Salih

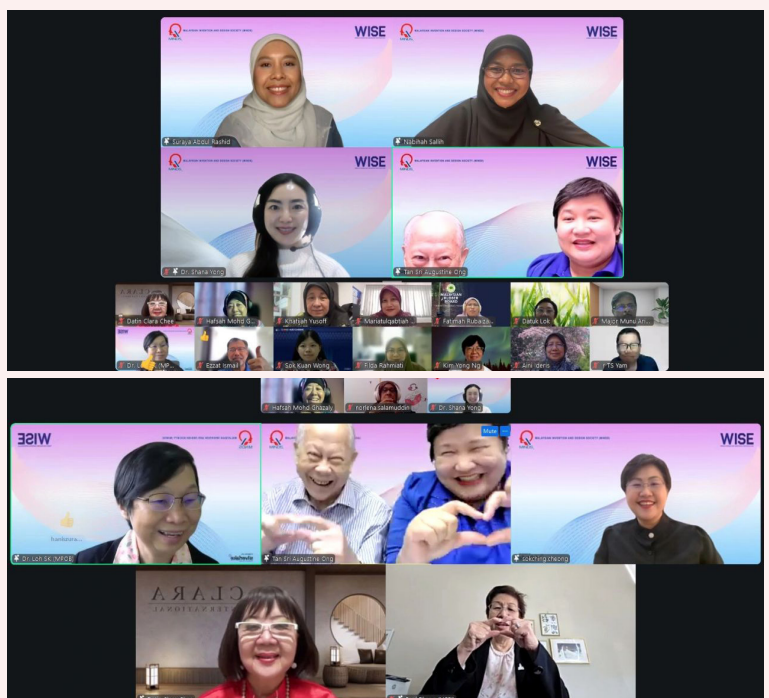
1220 - 1240 **Shape Memory Acoustic Intelligence: Smart Materials, The Strategic Engine For The Future Of All Industries**
Dr. Nabihah Salih, Senior Lecturer/Research Leader, Universiti Teknologi PETRONAS (UTP)

1240 - 1300 **Female Fortitude: A Journey in Science, Leadership & Impact**
Prof. Ir. Ts. Suraya Abdul Rashid, Institute of Nanoscience & Nanotechnology, Universiti Putra Malaysia (UPM)

1300 - 1310 **Global Carbon Sequestration And The Roles Of Tropical Forests And Crops: Prospects For Using Innovative Carbon Trading Approaches To Address The Climate Emergency**
Dr. Shana Yong, Doctor of Philosophy (Business), STEM expert in Sustainability, Economist, Finance Analyst

1310 - 1330 Q&A Session

1330 - 1340 Closing Remarks by YBhg. Datuk Dr. Choo Yuen May, FASc, Vice President of MINDS cum Chairperson of Conference Organizing Committee



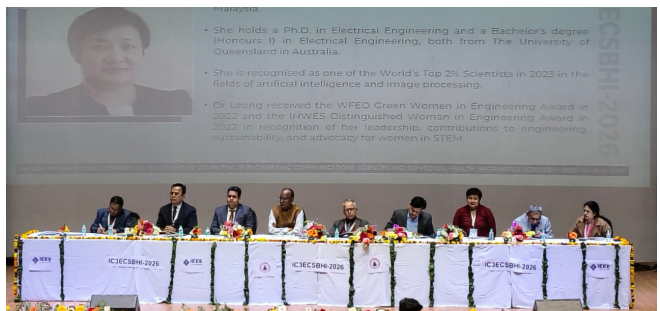
The 2nd IEEE International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (February 12-14, 2026).

Story by: Prof Wai Yie Leong | Region: Malaysia (Asia/Pacific) | Email: waiyie@gmail.com



Ir Prof Dr Leong Wai Yie was invited to share as keynote speaker at the 2nd IEEE International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (February 12-14, 2026). More than 200 technical paper presentations. This conference served a platform where researchers, scientists, academicians and Industry experts come together to share their opinion, new ideas, frameworks and related innovative technologies in intelligent computing which can solve the problems of complex computing in the engineering sciences and healthcare. Above all, a revolutionary contribution in terms of social welfare through science and technology is expected in this conference in the healthcare.

The proposed conference has high impact on IEEE UP Section in terms of recent advances in the field of intelligent computing for the engineering, sciences, healthcare, energy and environment. The scope of conference includes interdisciplinary, emerging and thrust areas focusing on Cognitive computing for solving complex problems in engineering, sciences, healthcare and deeper understanding of current trends in intelligent computation within the domain and in the multi-disciplinary research on revolutionary growth of nation towards solving healthcare issue.



The International Conference on Emerging Challenges and Research Frontiers in Digital Transformation (ICECRF 2026)

Story by: Prof Wai Yie Leong | Region: Malaysia (Asia/Pacific) | Email: waiyie@gmail.com



Prof Dr Leong Wai Yie was invited as Keynote Speaker at the International Conference on Emerging Challenges and Research Frontiers in Digital Transformation (ICECRF 2026). This conference serves as a platform for thematic discussions based on “Digital Transformation and its Emerging Research Frontiers”. The conference seeks to assemble academicians, scholars, industry professionals, and students to the conference to discuss the digital transformation. The discussions will concentrate on how the individual is affected and consider the interrelations between the disciplines such as Artificial Intelligence, Machine Learning, Big Data, Cyber-Physical Systems, Digital Governance, FinTech, EdTech, and HealthTech, etc. that are energizing the digital ecosystem.



From Kartini to the Future: Women in Engineering Leading Change

Story by: Suci Dwijayanti | Region: Indonesia (Asia/Pacific) | Email: suci.dwijayanti@gmail.com

In celebration of Kartini Day on 21 April 2025, the Women in Engineering general lecture highlights the importance of empowering women to lead and innovate in technical fields. Inspired by the enduring legacy of Raden Ajeng Kartini, this event emphasizes the role of education and courage in breaking barriers and advancing equality.

The lecture features distinguished guest speaker Leong Wai Yie, who brings valuable insights from her experience in engineering and technology. Through her talk, she shares perspectives on career development, leadership, and the evolving opportunities for women in engineering disciplines. Her journey serves as an inspiration for students and professionals to pursue excellence while contributing meaningfully to society.

This event provides a platform for knowledge exchange and motivation, encouraging participants to embrace challenges and foster innovation. By reflecting on Kartini's vision and connecting it with modern engineering practices, the lecture aims to inspire a new generation of women engineers who are confident, capable, and ready to shape the future.



KULIAH UMUM
Fakultas Teknik Universitas Sriwijaya
WOMAN IN ENGINEERING

Narasumber:



Prof. Leong Wai Yie
(INTI International University, Malaysia)

Waktu Pelaksanaan

- 📅 Senin, 21 April 2025
- 🕒 09:00 - Selesai
- 📍 Fakultas Teknik Kampus Palembang

🌐 www.ft.unsri.ac.id
📱 [Fakultas Teknik Unsri](#)



Beyond the Blueprint: Women Engineers Balance Work and Life on the Fairway

Story by: May Rose Imperial | Region: Philippines (Asia/Pacific) | Email: mayrose.imperial@ptc.ph



MANILA, Philippines – In a vibrant display of camaraderie and work-life balance, the Philippine Technological Council Women Engineers Network (PTC WEN) successfully hosted a golf tournament at the Camp Aguinaldo Golf Course on March 4, 2026.

The event, led by PTC WEN Chair Engr. Jhoana Soriano and Golf Committee Chair Dr. May Rose Imperial, coincided with World Engineering Day. It marked a highlight of the 2026 National Engineering Month (NEMO), established by Philippine President Proclamation No. 488 to recognize the vital role of engineers in sustainable nation-building.

Stepping outside their professional comfort zones, the women engineers embraced the challenge of the greens with sportsmanship and laughter. Beyond golf, PTC WEN members actively participated in fun shoot, bowling, fun runs, tree-growing and other activities held throughout the month.

“It was a wonderful day of meaningful connections,” organizers noted, emphasizing the importance of balancing rigorous professional demands with community and recreation. The month-long celebration continues to unite accredited Professional Engineering Organizations (PEOs) with participation of the women engineers across the country, honoring the innovative spirit of the Philippine engineering community.



From Me to WE: Bridging the Engineering Gender Gap

Story by: May Rose Imperial | Region: Philippines (Asia/Pacific) | Email: mayrose.imperial@ptc.ph



The Philippine Technological Council Women Engineers Network (PTC WEN) recently marked Women's Month with an inspiring webinar titled 'Give to Gain'. Hosted by the Philippine Institute of Civil Engineers (PICE) on March 21, 2023, the event featured two distinguished speakers championing gender equality and inclusivity in the field.

From Me to WE

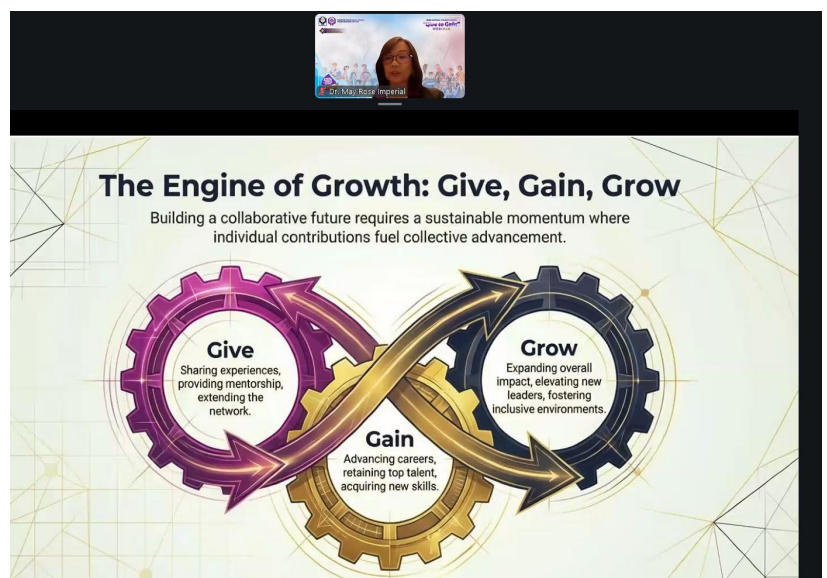
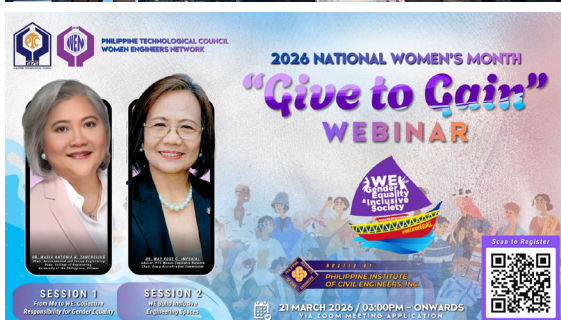
Dr. Maria Antonia Tanchuling, Dean of the University of the Philippines, College of Engineering, opened the session. She addressed the critical need for collective responsibility in achieving gender equality. While the Philippines ranks high in global gender parity, Dr. Tanchuling noted that the engineering discipline still has significant strides to make to reach true balance.

Building Inclusive Workplaces

Dr. May Rose Imperial, Chair of the Engineering Accreditation Commission, led the second session. She introduced a powerful framework for growth:

- Give: Share experiences, provide mentorship, and extend networks.
- Gain: Advance careers, retain top talent, and acquire new skills.
- Grow: Expand overall impact, elevate new leaders, and foster inclusive environments.

The event underscored that for women engineers to thrive, they must build a collaborative future fueled by individual contributions and sustainable momentum.





The Committee on
Women in Engineering