Universiti Malaya
SPE Student Chapter

OIL & GAS MALAYA INDUSTRIAL WEEK 2026

Organized by **SPE Universiti Malaya Student Chapter**

Open for all engineering, science and computer science students

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ABOUT
SPE-UM SC

Universiti Malaya
SPE Student Chapter

The Society of Petroleum Engineers Universiti Malaya Student Chapter (SPE-UM SC) is a student-led organization that is part of the global Society of Petroleum Engineers (SPE), a **leading professional association representing the energy industry, particularly in the field of petroleum engineering.** Established at Universiti Malaya (UM), one of the most prestigious universities in Malaysia, the student chapter serves as a platform for students pursuing studies in engineering and geology.

The chapter aims to provide its members with **opportunities for personal and professional growth through various activities, such as industrial talks, workshops, industrial visits, networking events, and conferences.** These activities are designed to foster a deeper understanding of the petroleum industry, expose students to the latest technological advancements, and provide insights into the diverse career paths available within the energy sector.

In addition to technical and academic development, the SPE Universiti Malaya Student Chapter also focuses on **building leadership and teamwork skills, creating a sense of community among students, and promoting collaboration with industry professionals and academic experts.** By hosting events, seminars, and collaborative initiatives with both local and international organizations, the chapter plays a key role in bridging the gap between academia and the professional world.

The chapter is committed to **empowering the next generation of engineers and industry leaders by offering a dynamic environment where students can gain real-world knowledge, engage with industry professionals, and develop the skills necessary to succeed in the ever-evolving petroleum and energy sectors.**

OIL & GAS MALAYA INDUSTRIAL WEEK 2026

Oil and Gas Malaya Industrial Week 2026 is an event designed to **bridge the gap between academia and the oil and gas industry**. This four day long programme brings together students, industry professionals and educators to explore the exciting opportunities and challenges within this vital sector.

Throughout the programme, participants will engage in a variety of activities, including global forum and networking sessions, competitions related to the oil and gas industry and resume and interview workshops. Each of these components has been thoughtfully designed to provide practical insights, hands-on experience and the chance to learn from industry leaders.

As we navigate a rapidly changing energy landscape, the need for innovation, sustainability, and skilled talent has never been more critical. Oil and Gas Malaya Industrial Week 2026 aims to **equip participants with the knowledge and skills necessary to thrive in the competitive environment, while also fostering valuable connections that can shape students' future career.** Oil and Gas Malaya Industrial Week 2026 is more than just an event, it is an opportunity to ignite passion for the oil and gas sector.

THEME

AI and Emerging Technologies in Energy

The theme, "**AI and Emerging Technologies in Energy**", highlights how the oil and gas industry is **evolving with cutting-edge innovations**. It emphasizes the transformative role of artificial intelligence, digitalization, and advanced technologies in optimizing energy production, improving efficiency, and driving sustainable solutions.

This theme aligns with the objectives of the event, which go beyond technical exposure. Through activities such as the Round-table Discussion and Networking Session and the Global Forum Session, participants are encouraged to explore the latest technological trends, understand their applications in the energy sector, and envision the future of the industry.

TECHNICAL CASE STUDY & PRESENTATION COMPETITION

Title: AI and Emerging Technologies in Energy

Problem Statement:
Artificial Intelligence (AI) and emerging technologies have the potential to revolutionize the energy industry by improving efficiency, reliability, cost-effectiveness, and environmental sustainability. However, significant challenges remain in integrating these technologies into real-world energy systems. This competition aims to identify key issues and explore innovative solutions.

Focus On:

- Illustrate how AI is applied in the energy industry
- Highlight key emerging technologies in modern energy systems
- Explain why AI and emerging technologies are crucial for achieving energy sustainability and net-zero targets by 2050
- Discuss the environmental, operational, and economic benefits of using AI and digital technologies in energy production, distribution, and consumption
- Provide real-world case studies of AI or digital energy technologies used by oil & gas companies, power utilities, or renewable energy firms
- Describe the technical principles behind AI systems used in energy
- Explain how AI improves energy system reliability, safety, and efficiency

Details:
Date: 18 April 2026 (Saturday)
Time: 8.00 a.m. - 1.00 p.m.
Venue: Audi 2, Block Y, Faculty of Engineering, Universiti Malaya

More Details

Register Now!

Registration Fee:
RM 70 per group

TECHNICAL INFOGRAPHIC POSTER COMPETITION

Theme: The Evolution of Energy: From Manual Grids to AI-Autonomous Networks

Problem Statement

The global energy sector is undergoing rapid transformation driven by increasing energy demand, environmental concerns, and the advancement of digital technologies. Artificial Intelligence (AI) and emerging technologies such as data analytics, smart grids, IoT, and advanced energy storage systems are reshaping how energy is produced, managed, and consumed. A deeper understanding of their current applications and limitations is essential to support the transition toward a smarter and more sustainable energy future. This competition aims to encourage participants to critically examine and visually communicate the current role, impact, and challenges of AI and emerging technologies in the energy industry.

Event Timeline:

- **1/2/2026** — Registration start
- **29/3/2026** — Submission Deadline
- **13/4/2026** — Result Announcement
- **18/4/2026** — Closing Ceremony and Prize giving event

Focus On:

- Compare a "Traditional Grid" (centralized, fossil-fuel dependent, manual control) against the "2050 Digital Grid" (decentralized, renewable-heavy, AI-autonomous).
- Visualize how Digital Twins and IoT sensors act as the "nervous system" of the future grid.
- Include a simplified flowchart of an Automated Demand Response or Energy Forecasting algorithm.

Champion
RM350

1st Runner Up
RM250

2nd Runner Up
RM 150

More Details

Register Now!

Registration Fee: RM30 per group

TECHNICAL ESSAY COMPETITION

Title: AI and Emerging Technologies in Energy

Problem Statement:

The global demand for energy continues to increase due to population growth, industrial activities, and rapid technological development. However, many existing energy systems still operate inefficiently, leading to energy losses, high operational costs, and increased carbon emissions. Artificial Intelligence (AI) and emerging technologies present new opportunities to improve the performance of modern energy systems. Intelligent technologies can enhance energy forecasting, optimize power distribution, and support better integration of renewable resources. Despite these advantages, challenges such as technological complexity, high implementation costs, and infrastructure readiness must be addressed to ensure successful adoption. This competition aims to address the issues and explore potential solutions.

Focus On:

- Critically evaluate the role of Digital Twins and Machine Learning in creating virtual, risk-free simulations for power plant optimization.
- Analyze how IoT and Advanced Sensors (e.g., PMUs) serve as the fundamental data layer for real-time grid monitoring.
- Discuss the operational mechanics of Virtual Power Plants (VPPs) and Smart Grids in aggregating decentralized energy resources.

Event Timeline:

1/2/2026
Registration start

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Champion
RM350

1st Runner Up
RM250

2nd Runner Up
RM 150

More Details

Register Now!

Registration Fee: RM15 per person

ROUNDTABLE DISCUSSION & NETWORKING SESSION + MENTORING BOOTH

The session aims to provide participants with valuable insights from industry leaders and professionals, including 10 mentors from various backgrounds in the oil and gas sector. By fostering an interactive environment, participants can directly engage with mentors, ask questions, and receive personalized guidance. This exchange helps them develop a deeper understanding of the skills and competencies currently in demand, as well as the emerging trends shaping the industry's future. Furthermore, the session encourages meaningful networking, ultimately aiding in shaping their future career trajectories.

Details: Date: 17 April 2026 (Friday)
Time: 2.15 p.m. - 6.15 p.m.
Mode: Physical
Venue: Exhibition Hall, Block Y, Faculty of Engineering, Universiti Malaya

Participants will be divided into several groups, and each group will engage with a mentor for a 10 minute discussion. During this time, participants are encouraged to ask any questions related to the mentor's experience and expertise.

After each session, the groups will rotate to a different mentor for the next networking round, allowing attendees to interact with multiple industry professionals.

Register Now!

Registration Fee: RM10 per person

PETROQUIZ CHALLENGE COMPETITION

The session aims to test and deepen participants' knowledge of the oil and gas industry. It will run in a fast-paced one-hour session using the Kahoot! Platform where the questions will specifically target Artificial Intelligence (AI) and emerging technologies within the energy sector, along with some SPE-related trivia. The competition itself will last about 30 to 40 minutes, with the winners being immediately announced and displayed on the leaderboard at the end.

Details Date: 17 April 2026 (Friday)
Time: 8.00 p.m. - 9.00 p.m.
Venue: Online

Topics covered

- Fundamentals of Artificial Intelligence
- Emerging Technologies in the Energy Sector
- AI Applications in Energy Operations
- Engineering & Data Analytics in Energy Systems
- Sustainability & Energy Efficiency
- Challenges in AI Adoption for Energy Infrastructure
- Malaysia Context: Energy, Oil & Gas, and Digitalization

More Details

Register Now!

Champion
RM100

1st Runner Up
RM70

2nd Runner Up
RM50

Registration Fee:
RM5 per person

SUBJECT MATTER EXPERT SESSION (SME)

The "Subject Matter Expert (SME) Session" is a new initiative introduced by the SPE UM Student Chapter (SPE UM SC) to **give participants deeper and more comprehensive insights into the Oil and Gas industry compared to standard industrial talks.** This virtual event will feature specialised experts who will discuss the full industry value chain, covering the Upstream, Midstream, and Downstream sectors. The programme consists of two sessions, each featuring an expert presentation followed by a Question & Answer segment. This format allows participants to engage directly with industry specialists, ask meaningful questions, and strengthen their understanding of current practices and specialised knowledge within the field.

	Session 1 - Upstream & Midstream: Foundations of the Energy Industry	**Session 2 - Downstream: Turning Energy into Value**
Date	8 April 2026 (Wednesday)	15 April 2026 (Wednesday)
Time	8.00 p.m. - 10.00 p.m.	3.00 p.m. - 5.00 p.m.
Venue	Online (Microsoft Teams)	

Register Now!

Registration Session 1

Registration Session 2

FREE Registration

WINNING RESUME & WINNING INTERVIEW WORKSHOP 10.0

The session starts with a talk by SLB, followed by a Q&A session where participants can gain insights directly from industry experts. At the end of the session, students drop their resumes for potential internship opportunities, allowing SLB to review and contact shortlisted candidates. This workshop gives participants practical guidance and a direct pathway to strengthen their career prospects in the oil and gas industry.

Date	8 April 2026 (Wednesday)
Time	2.00 p.m. - 5.00 p.m.
Venue	DK 2, Block U, Faculty of Engineering, Universiti Malaya

Register Now!

Registration Fee: RM5 per person

SPE GLOBAL FORUM SESSION

This session, titled "**Empowering Students to Innovate: The Next Wave of Energy Leaders**," starts with a main forum where student representatives from various universities, along with industry panelists, share their chapter achievements, insights on innovation, and leadership experiences. During the discussions, selected representatives may also provide short insights to offer additional perspectives. This will be followed by a Q&A session, allowing participants to engage directly with both student representatives and industry panelists. This workshop gives participants an opportunity to learn from peers and industry experts, gain insights into student chapter activities, and be inspired to take proactive steps in shaping their future in the energy and oil & gas industry.

Date	17 April 2026 (Friday)
Time	10.30 a.m. - 12.30 p.m.
Venue	Online (Microsoft Teams)

Register Now!

FREE Registration

TENTATIVE PROGRAM

Day 1: 8 April 2026 (Wednesday)	
Time	**Agenda**
Winning Resume & Winning Interview Workshop (2.00 p.m. - 5.00 p.m.)	
2.00 p.m.	**Participants Registration & Arrival of Speakers**
2.30 p.m.	**Opening Remarks**
3.00 p.m.	**Resume Workshop by SLB**
3.30 p.m.	**Interview Workshop by SLB**
4.30 p.m.	**Q&A Session and Resume Drop**
4.45 p.m.	**Closing and TOA Giving**
5.00 p.m.	**Event Dismiss**
SME Session 1 - Online (8.00 p.m. - 10.00 p.m.)	
8.00 p.m.	**Opening Remarks & Introduction**
8.15 p.m.	**SME Session 1 - Upstream & Midstream (1 hour 15 minutes)**
9.30 p.m.	**Q&A Session**
9.50 p.m.	**Closing and Photography Session**

TENTATIVE PROGRAM

Day 2: 15 April 2026 (Wednesday)	
Time	**Agenda**
SME Session 2 - Online (3.00 p.m. - 5.00 p.m.)	
3.00 p.m.	**Opening Remarks & Introduction**
3.15 p.m.	**SME Session 2 - Downstream**
4.30 p.m.	**Q&A Session**
4.50 p.m.	**Closing and Photography Session**

TENTATIVE PROGRAM

Day 3: 17 April 2026 (Friday)	
Time	**Agenda**
SPE Global Forum Session (10.30 a.m. - 12.30 p.m.)	
10.30 a.m.	**Participants Registration & Arrival of Speakers**
10.45 a.m.	**Opening Remarks**
11.00 a.m.	**Discussion 1**
11.30 a.m.	**Discussion 2**
12.00 p.m.	**Q&A Session**
12.30 p.m.	**Closing and Dismissal**
Roundtable Discussion & Networking Session + Mentoring Booth (2.15 p.m. - 6.15 p.m.)	
2.15 p.m.	**Participants Registration & Arrival of Speakers**
2.45 p.m.	**Opening Remarks**
3.00 p.m.	**Roundtable Discussion & Networking Session — 20 minutes for every mentor**
5.00 p.m.	**Closing and TOA Giving**

TENTATIVE PROGRAM

5.15 p.m.	**Mentorship Session at Booths**
6.15 p.m.	**Dismissal**
PetroQuiz Challenge - Online (8.00 p.m. - 9.00 p.m.)	
8.00 p.m.	**Participants Joining Server**
8.10 p.m.	**Briefing Session**
8.15 p.m.	**PetroQuiz Challenge (40 minutes)**
8.55 p.m.	**Closing and Winners Announcement**

TENTATIVE PROGRAM

Day 4: 18 April 2026 (Saturday)	
Time	**Agenda**
Technical Case Study Competition (8.00 a.m. - 12.00 p.m.)	
7.30 a.m.	**Participants Registration**
8.00 a.m.	**Arrival of Judges**
8.30 a.m.	**Pitching Session** **- Each group is given 15 minutes** **- Judges comment 5 minutes**
12.00 p.m.	**Closing and Appreciation**
Outreach Programme (9.00 a.m. - 1.00 p.m.)	
8.40 a.m.	**Arrival of Participants**
9.00 a.m.	**Welcoming Remarks & Ice Breaking**
9.15 a.m.	**Engineering 101: Talk Introducing Different Branches of Engineering**
9.45 a.m.	**Explorace Activity**
11.45 a.m.	**Student Life Sharing Session**
12.15 p.m.	**Closing and Prize Giving**

TENTATIVE PROGRAM

Day 4: 18 April 2026 (Saturday)	
Time	**Agenda**
Closing Ceremony (4.00 p.m. - 6.30 p.m.)	
4.00 p.m.	**Arrival of VIPs and Participants**
4.30 p.m.	**Welcoming Speech**
5.00 p.m.	**Video Recap**
5.15 p.m.	**Dinner**
5.30 p.m.	**Prize Giving Ceremony and TOA Giving**
6.00 p.m.	**Performance**
6.30 p.m.	**Photography Session and Dismissal**

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