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UNIVERSITI TEKNOLOGI MALAYSIA

AMVID

SUSTAINABLE TECHNOLOGIES · ECONOMY · ENVIRONMENT

PROGRAM BOOK

ASSET INTEGRITY MANAGEMENT

FORUM & TECHNOLOGY SHOWCASE 2026

Maintenance, Inspection & Monitoring
in petrochemical, oleochemical, oil & gas, energy, marine and water sectors

5 FEBRUARY 2026

Four Points by Sheraton,
Desaru, Johor

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Program Book
Asset Integrity Management
Forum & Technology Showcase 2026

*Maintenance, Inspection & Monitoring
in petrochemical, oleochemical, oil & gas, energy, marine and water sectors*

Editors

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mech.utm.my/utm-amvip



DEAN'S FOREWORD

Prof. Ir. Ts. Dr. Zaini Ahmad

Dean, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia



Assalamualaikum warahmatullahi wabarakatuh and a very good day

The **Asset Integrity Management Forum and Technology Showcase 2026** reflects the Faculty's commitment to close collaboration with industry in addressing real-world engineering challenges, in line with **UTM ASCEND 2030** and its vision for impactful research, innovation, and industry engagement. As demand grows for operational safety, reliability, and sustainability, this forum provides a platform for sharing knowledge, practical insights, and innovative solutions. The focus on maintenance, inspection, and monitoring is highly relevant to industry needs and aligns with the skills and competencies the Faculty develops in its graduates and researchers.

Beyond knowledge sharing, the programme fosters long-term partnerships with industry practitioners, technology providers, and professional bodies. Such engagement ensures that research, training, and innovation initiatives remain practical, up-to-date, and impactful. Integrating industrial perspectives into teaching and research strengthens academic programmes and equips students to meet evolving industrial challenges. Strong industry participation demonstrates a shared commitment to asset reliability, operational safety, and sustainability. Presentations, technology demonstrations, and panel discussions facilitated meaningful exchanges, providing insights that can be applied directly in practice.

The relationships and discussions established during this forum are expected to lead to future collaboration, including joint research, professional training, student industry exposure, and technology adoption. Through initiatives like this, the Faculty reaffirms its dedication to **UTM ASCEND 2030**, advancing knowledge, fostering innovation, and supporting excellence in asset integrity management for the benefit of both industry and the wider engineering community.

AMVIP PRESIDENT'S ADDRESS

Dr. Mohamad Kamal Hj. Harun

President, Association of Materials, Vibration & Insulation Practitioners (AMVIP)



Assalamualaikum warahmatullahi wabarakatuh and a very good day

On behalf of AMVIP, I would like to extend my sincere appreciation to all presenters, moderators, and participants for your commitment to participating in this UTM-AMVIP Forum on asset integrity management, which has enriched the discussions and ensured the overall success of the programme. Special acknowledgement is extended to the organizing host, **Universiti Teknologi Malaysia (UTM)**, particularly the **Faculty of Mechanical Engineering**, for its strong commitment to quality, collaboration, and the advancement of academic-industry engagement.

The Organizing Committee also gratefully acknowledges the generous support of the event sponsors: **Abadi Oil & Gas Services, Norimax, Advantech Alliance, IEV Malaysia, Rockwool Malaysia, Euro-Circuit Technology, PICORR, FGE, SIRIM QAS International, Sonomatic SEA, Temperlite Insulation and VRG Dinamik**. Their continued support enables platforms such as this to remain inclusive, innovative, and impactful. The programme comprised a comprehensive range of activities, including keynote presentations, technology demonstrations, industry technical talks, and panel discussions. These sessions facilitated meaningful exchanges on maintenance, inspection, and monitoring, highlighting their critical role in ensuring safe, reliable, and sustainable operations across various industries.

Discussions throughout the event emphasized the evolving scope of asset integrity management, which now extends beyond regulatory compliance and failure prevention to encompass informed decision-making, effective data utilization, and collaboration across disciplines and organizations. The insights shared underscored the importance of integrating technology, experience, and partnership to address current and emerging operational challenges. This programme serves as a foundation for continued collaboration and knowledge exchange. Participants are encouraged to remain engaged with the AMVIP network, which continues to organize events, training programmes, and technical collaborations in support of sustained excellence in asset integrity management.

PROGRAM CHAIR'S REMARK

Assoc. Prof. Ir. Ts. Dr. Muhamad Azizi Mat Yajid

Deputy Dean (Research, Innovation & Development)

Faculty of Mechanical Engineering, Universiti Teknologi Malaysia)

AMVIP Johor Chair



Assalamualaikum warahmatullahi wabarakatuh and a very good day

When we talk about asset integrity management, at its core, it is really about keeping our facilities safe, reliable, and operating as intended. Whether we are dealing with power plants, offshore platforms, ports, pipelines, or processing facilities, the challenges are quite similar: ageing assets, tighter regulations, cost pressures, and the need to avoid unplanned shutdowns. That is why today's focus on maintenance, inspection, and monitoring is very timely. These are not just technical activities; they are critical decision-making tools that directly affect safety, reliability, and business performance.

This forum brings together industry practitioners, technology providers, and academics on one platform. Our aim is simple, which is to share practical experiences, learn from each other, and explore how new technologies and smarter approaches can support better asset integrity outcomes. We believe that meaningful progress happens when theory meets practice, and when solutions are developed with real operational needs in mind. This forum brings together speakers from leading organizations such as **PETRONAS, Malakoff Power, Johor Port, and UTM**, who will share insights drawn from real operational experience. In addition, we have a strong lineup of technology demonstrations and industry tech talks, which I encourage you to take full advantage of.

I would also take this opportunity to extend our heartfelt thanks to our generous sponsors: **Abadi Oil & Gas Services, Norimax, Advantech Alliance, IEV Malaysia, Rockwool Malaysia, Euro-Circuit Technology, PICORR, FGE, SIRIM QAS International, Sonomatic SEA, Temperlite Insulation and VRG Dinamik**. Your support reflects a strong commitment to innovation and excellence in asset integrity management.

ORGANIZING COMMITTEE

PROGRAM CHAIR

Assoc. Prof. Ir. Ts. Dr. Muhamad Azizi Mat Yajid

SECRETARY

Ts. ChM. Dr. Nor Suriani Sani

MEMBERS

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Ir. Ts. Dr. Wan Fahmin Faiz Wan Ali
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Ir. Dr. Amir Putra Md Saad
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Muhammad Faiz Ibrahim**

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PROGRAM SCHEDULE

ASSET INTEGRITY MANAGEMENT FORUM & TECHNOLOGY SHOWCASE 2026

Maintenance, Inspection & Monitoring
in petrochemical, oleochemical, oil & gas, energy,
marine and water sectors

THURSDAY, 5 FEBRUARY

Wave Ballroom 2
Four Points by Sheraton, Desaru, Johor

TIME	ACTIVITY
8.30 am – 9.00 am	Guest Arrival & Registration
9.00 am – 5.15 pm	Networking & Technology Showcase
9.00 am – 9.10 am	Welcoming Remarks Assoc. Prof. Ir. Ts. Dr. Muhamad Azizi Mat Yajid , Deputy Dean, Research, Innovation and Development, Faculty of Mechanical Engineering, UTM
Sesi 1 Moderator: Dr. Kamarulafizam Ismail, UTM	
9.10 am – 9.40 am	Keynote Speaker 1 Ir. Ts. Dr. Nor Azizi Mazalan , Plant Manager, Tanjung Bin Energy Power Plant, Malakoff Power Berhad, <i>Operational Reliability and Sustainable Maintenance Practices</i>
9.40 am – 10.25 am	Technology Solutions Demonstration 1 C Cube International, <i>Preserving Asset Health Through Data-Driven Coating Quality Measurement (CQM) Monitoring and Maintenance.</i>
10.25 am – 11.00 am	Tea Break & Exhibitor Product Pitching 1 <ul style="list-style-type: none"> Dr. Yon Kong Chen, Director, VRG Dinamik Sdn. Bhd., <i>Real-time dynamic SHM technology</i> FGE Control (M) Sdn. Bhd. Progressive Impact Corrosion Sdn. Bhd. (PICORR) Moderator: Ir. Dr. Abdillah Sani Bin Mohd Najib, UTM
11.00 am – 11.30 am	Keynote Speaker 2 Gs. Ir. Ln.Ts. Mohd Khairul Azizat Johari , Head of Facility Management Department, Johor Port Berhad <i>Keeping the Port Moving: How Smart Maintenance Sustains Reliable Operations</i>
11.25 am – 11.55 am	Industry Tech Talk 1 Advantech Alliance Sdn. Bhd.

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MANAGEMENT**
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ASSET INTEGRITY MANAGEMENT

FORUM & TECHNOLOGY SHOWCASE 2026

Maintenance, Inspection & Monitoring
in petrochemical, oleochemical, oil & gas, energy,
marine and water sectors

THURSDAY, 5 FEBRUARY

Wave Ballroom 2
Four Points by Sheraton, Desaru, Johor

TIME	ACTIVITY
11.55 am – 12.25 pm	Industry Tech Talk 2 Jaber Azwan B. Wahid , Regional Business Manager, Corrosion Control (CUI & ICCP Retrofit), IEV (Malaysia) Sdn. Bhd.
12.25 pm – 12.45 pm	Technology Solutions Demonstration 2 Assoc. Prof. Ts. DDr. Saiful Anuar Abu Bakar , Researcher, Research Centre of Automotive Development Centre, Institute for Sustainable Transport, UTM <i>R-WIPER - Raw Water Pipeline Exploration Robot</i>
12.45 pm – 2.00 pm	Lunch & Informal Networking
2.00 pm – 2.10 pm	Officiating Remarks Assoc. Prof. Dr. Sabrinah Binti Adam , Deputy Director, Centre for Community and Industry Network (CCIN), UTM
2.10 pm – 2.20 pm	Forum Opening Remarks Mr. M. Shahrizal PKM Seni , General Manager, Self-Regulation & Asset Integrity Management, PRefChem
Sesi 3 Moderator: Ir. Dr. Nor Akmal Binti Fadil, UTM	
2.20 pm – 2.50 pm	Keynote Speaker 3 Nurjaimi Ali , Staff Engineer (Corrosion), Materials, Corrosion & Inspection (MCI), Group Technical Solutions (GTS), PETRONAS <i>Advanced Inspection and Digital Integrity Solutions for Enhancing Reliability of Energy Assets</i>
2.50 pm – 3.35 pm	Technology Solutions Demonstration 3 Muhammad Syafiq Bin Alwi , Manager Project & Sales, Norimax Sdn. Bhd., <i>Smart Cathodic Protection (CP) Remote Monitoring System</i>
3.35 pm – 4.05 pm	Industry Tech Talk 3 Mohd Shahidan Sulaiman , Specification Sales Manager, ROCKWOOL Malaysia Sdn. Bhd., <i>ROCKWOOL WR-Tech™ and On-Site Services</i>

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marine and water sectors

THURSDAY, 5 FEBRUARY

Wave Ballroom 2
Four Points by Sheraton, Desaru, Johor

TIME	ACTIVITY
4.05 pm – 4.25 pm	Keynote Speaker 4 Prof. Ir. Dr. Mohd Salman Leong , Director, Institute of Noise and Vibration, Higher Institution Centers of Excellence (HiCoE), UTM <i>Advanced Structural Integrity Assessment Using Vibration-Based Inspection Techniques</i>
4.25 pm – 5.00 pm	Tea Break & Exhibitor Product Pitching 2 <ul style="list-style-type: none"> • Temperlite Insulation Sdn. Bhd. • Noor Hisham Bin Ab Hamid, Founder and Managing Director, Euro-Circuit Technology Sdn. Bhd., <i>A Sustainable and ESG-Compliant Asset Integrity Operation & Maintenance by Employing a Green Water-Based Surfactant Technology Solution ECT Bio-Solv®</i> • Dr. Hanis Ayuni Mohd Yusof, Senior Testing Engineer, SIRIM Berhad, <i>Failure Analysis of Metallic & Non-metallic Materials</i> • Ts. Nabilah Amir Hamzah, Integrity Team Lead, Sonomatic SEA Sdn. Bhd., <i>Inspection Without Intervention for Subsea Pipelines & Pressure Vessels</i> Moderator: Ir. Dr. Amir Putra Md Saad, UTM
5.00 pm – 5.45 pm	Forum & Panel Discussion <i>Integrating Maintenance, Inspection, and Monitoring Ecosystems for a Resilient Future</i> Moderator: Assoc. Prof. Ir. Ts. Dr. Muhamad Azizi Mat Yajid, UTM
5.45 pm – 6.00 pm	Closing Remarks & Appreciation Session Ts. Dr. Mohamad Kamal Harun , President AMVIP

BIOGRAPHY

KEYNOTE SPEAKER



Ir. Ts. Dr. Nor Azizi Mazalan

Plant Manager, Tanjung Bin Energy Power Plant,
Malakoff Power Berhad.

Ir. Ts. Dr. Nor Azizi bin Mazalan is a senior power generation professional with over 24 years of experience in power plant operations, production management, commissioning, and competency development within Malaysia's energy sector. He currently serves as Plant Manager at Tanjung Bin Energy, the largest 1 × 1000 MW ultra-supercritical coal-fired power plant in Malaysia, overseeing plant performance, safety, regulatory compliance, and profit and loss (P&L). During his career with Malakoff Corporation Berhad, he has held key leadership roles, including Head of Production, Head of Operations, and Section Head. He has managed major facilities, including the Tanjung Bin Power Plant (3 × 700 MW) and Kapar Energy Ventures (2,200 MW). His expertise spans commissioning, operations and maintenance, reliability and performance management, outage planning, and regulatory liaison. He holds a PhD in Mechanical Engineering and an MBA from Universiti Teknologi Malaysia. He is a Professional Engineer with a Practicing Certificate, an ASEAN Chartered Professional Engineer, and a Professional Technologist (MBOT).



Gs. Ir. Ln.Ts. Mohd Khairul Azizat Johari

Head of Facility Management Department, Johor
Port Berhad

Gs. Ir. Ln.Ts. Mohd Khairul Azizat Johari is a seasoned facility management professional with over 15 years of experience in managing, maintaining, and optimizing complex facilities across infrastructure and industrial environments. He currently serves as Head of the Facility Management Department, with expertise spanning facility operations, energy efficiency, electrical supply compliance, ESG-driven investment support, and technical assessments for maintenance contracts. His professional practice is underpinned by strong technical governance, strategic planning, and a commitment to continuous improvement in asset and facility performance. Mohd Khairul Azizat is a Professional Engineer, Professional Technologist, and Project Management Professional (PMP), and an active member of multiple professional bodies, including IEM, ACPE, and the Institute of Materials Malaysia. He has successfully managed projects with a cumulative value of over RM106 million, demonstrating his strong leadership and delivery capabilities in facility and asset management.

BIOGRAPHY

KEYNOTE SPEAKER



Nurjaimi Ali

Staff Engineer (Corrosion), Materials, Corrosion & Inspection (MCI), Group Technical Solutions (GTS), PETRONAS

Nurjaimi Binti Ali is a Staff Corrosion Engineer specialising in Materials, Corrosion, and Inspection (MCI) within Group Technical Solutions, Project Delivery & Technology, PETRONAS. She holds a Bachelor of Chemical Engineering (Hons) in Petroleum Engineering from Universiti Teknologi PETRONAS and has over 18 years of experience in the oil and gas industry. Since joining PETRONAS in 2008, she has led and supported numerous MCI initiatives across upstream, gas, refinery, and petrochemical sectors. Her expertise includes corrosion design basis development, corrosion management planning, materials selection, coatings and linings, cathodic protection, failure investigation, asset life extension, integrity audits, and chemical treatment performance. She currently serves as a Staff/Specialist MCI, is a core member of the PETRONAS Protective Coating Technical Committee, and acts as Project Technical Authority (MCI) for major project executions.



Prof. Ir. Dr. Mohd Salman Leong

Director, Institute of Noise and Vibration, Higher Institution Centers of Excellence (HiCoE), UTM

Prof. Ir. Dr. Mohd Salman Leong is a distinguished academic and professional engineer with over 35 years of experience in engineering consultancy and research, and is widely recognized as Malaysia's leading authority in acoustics, noise, vibration, and seismic engineering. He is the Director of the Institute of Noise and Vibration (INV), a Higher Institution Centre of Excellence (HiCoE) at Universiti Teknologi Malaysia, which serves as a national referral centre for advanced diagnostics, mitigation design, and technical advisory services. Under his leadership, INV has contributed to numerous mega infrastructure and industrial projects, including oil and gas facilities, power plants, highways, rail systems, airports, and large-scale EIA studies. His expertise includes condition monitoring, turbomachinery diagnostics, structural dynamics, and asset integrity management, supporting the development of safe, reliable, and sustainable engineering systems nationwide.

BIOGRAPHY

SPEAKER

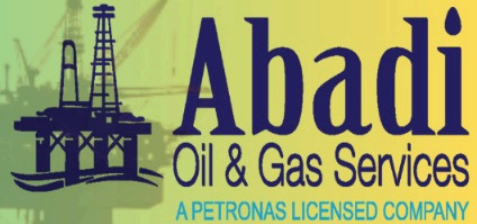


Assoc. Prof. Ts. DDr. Saiful Anuar Abu Bakar

Researcher, Research Centre of Automotive Development Centre, Institute for Sustainable Transport, UTM

Assoc. Prof. Ts. DDr. Saiful Anuar bin Abu Bakar is a researcher at the Research Centre of Automotive Development Centre, Institute for Sustainable Transport, Universiti Teknologi Malaysia, and currently serves as Head of the Automotive Programme. With over 18 years of experience in applied research, consultancy, and industry collaboration, he focuses on inspection, monitoring, and engineering assurance to support asset integrity and reliability management. His technical expertise includes vehicle dynamics and control, electric and hybrid vehicles, autonomous systems, computer vision, and remotely operated underwater vehicles (ROVs). He has led and contributed to numerous industry projects involving performance validation, inspection robotics, real-time monitoring, and energy system assessment. A Registered Engineer with BEM and a Professional Technologist with MBOT, he actively supports industry-driven R&D and technology deployment.

ABADI OIL & GAS SERVICES SDN BHD
Registration No.: 201101017173 (945309-W)
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Selangor. Email : info@abadiservices.com
Tel: 03-8964 5800 Fax: 03-8962 6136



Coating Quality Measurement (CQM)

Coating failure and corrosion of assets are unpredictable, causing significant disruptions, asset unavailability, high maintenance costs, and compromised safety. Traditional layer thickness measurements (DFT) and visual inspections often fall short in providing a comprehensive understanding of coating integrity and degradation.



Composite Repair Systems HJ3 is a leading manufacturer of engineered composite repair systems designed to extend the life of critical assets in process facilities. Maintaining piping integrity within petrochemical plants and refineries is critical to operations. HJ3's line of engineered repair systems are designed to address a wide range of temperatures, pressures, geometries and chemicals, offering a safe and cost effective solution to common integrity problems.



HEAT-FLEX® AEB



Heat-Flex Advanced Energy Barrier (AEB) is an engineering thermal insulative coating solution designed to eliminate corrosion under insulation (CUI). By replacing traditional bulky mineral-based insulation systems on storage tanks, process vessels and piping, Heat-Flex AEB provides a sustainable and efficient solution for maintaining optimal operating temperatures. Its application simplifies installation, reduces labor costs and enhances safety by minimizing worker proximity to hot surfaces. By eliminating the need for traditional insulation materials, Heat-Flex AEB significantly reduces the environmental impact and extends the lifespan of steel assets, making it a superior choice for industrial insulation needs.

Heat-Flex® ACE is a next-generation ultra-high solids advanced novolac epoxy for Corrosion Under Insulation (CUI). Developed with a functional chemical enhancement, surpassing performance capabilities of traditional solvent-based epoxy phenolic and novolac coatings. This advanced CUI epoxy technology is unique, and different from other epoxy chemistries, as it offers unrivalled performance and application properties, through the robustness of the resin system, rather than through pigmentation. Heat-Flex® ACE provides external protection of process pipes, valves, and vessels, operating between temperatures from -196°C (-321°F) to 232°C (450°F), and is suitable for use in new construction and maintenance projects of both carbon and stainless steel substrates, in insulated and uninsulated service

HEAT-FLEX® ACE



REMOTUS-MY

DIGITALIZATION OF CATHODIC PROTECTION REMOTE MONITORING

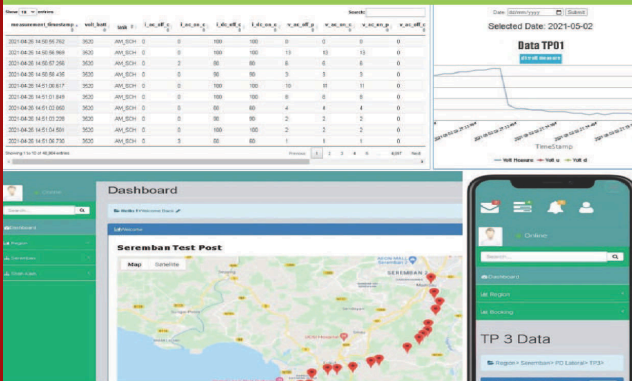
- Monitor pipeline potential
- Monitor DC and AC current
- Accurate CP data recording
- Detect Interference Corrosion
- Artificial Intelligence
- Machine Learning
- Replace CIPS & DCVG

TEST POST REMOTE MONITORING UNIT (TPRMU)



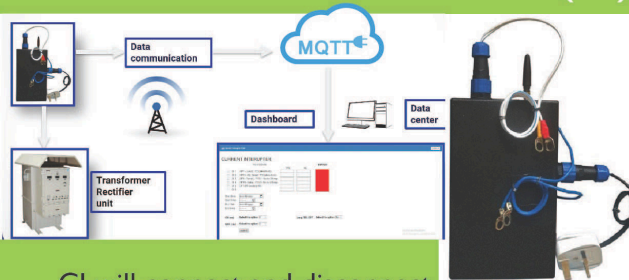
TPRMU automatically monitor test points associated with the cathodic protection systems

SYSTEM DASHBOARD



- Mapping
- System Analysis Status
- Displaying
- Mobile Access

CURRENT INTERRUPTER (CI)



CI will connect and disconnect the cathodic protection rectifier from the test post station at the regular interval

SPECIFICATIONS (TPRMU)

- 1 Powered by a replaceable Lithium Battery
- 2 Analog channels shall have 20 meg-Ohm internal impedance and a 60 Hz AC rejection capability and a transient voltage trapping capacity of 2,500 volts
- 3 Operate at a maximum voltage of 24V and maximum current of 50 mA
- 4 Submersible/underground installation up to 0.2 meter
- 5 Increments: 100 ms

ASSET INTEGRITY MANAGEMENT

- Integrity Operating Windows

- ISO CP STANDARDS
- DNV CP STANDARDS
- NACE CP STANDARDS

- Fitness For Service





Control CUI before it causes an unplanned shutdown

IEV's Integrated CUI Management (CUIM) combines permanent monitoring, targeted inspection, and proven prevention systems to protect insulated assets.

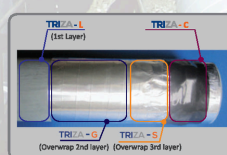
Powered by



Continuous corrosion monitoring and risk trending under insulation.



Guided Wave, RT, PECT, PEC/PECA, for focused confirmation.



Wrap and sealing systems that block that block water ingress and oxygen.



Scan to request a CUI assessment or demo

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SAFE FOR HUMAN, ENVIRONMENT AND INDUSTRIAL

SUITABLE FOR ALL HYDROCARBON OIL-BASED STAINS



BUATAN MALAYSIA
MADE IN MALAYSIA

LOCALLY MANUFACTURED & PRODUCT OWNER



**EURO-CIRCUIT
TECHNOLOGY
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COLLABORATION PARTNER FOR ASSET INTEGRITY

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CERTIFICATION / APPROVAL

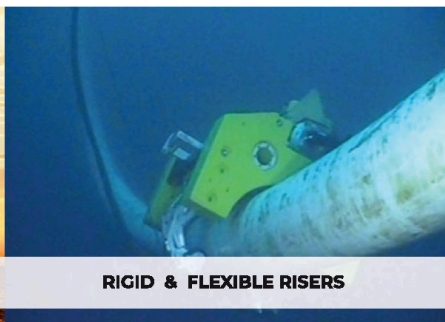


Driving
Sustainable
Change

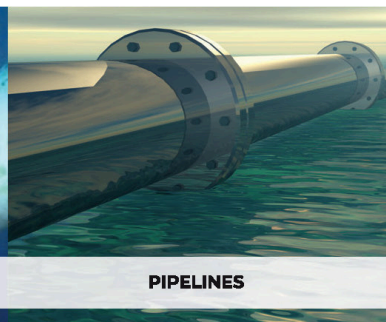




OFFSHORE STRUCTURES

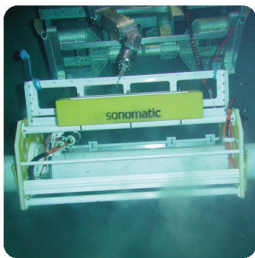


RIGID & FLEXIBLE RISERS



PIPELINES

World Leading Advanced Subsea Inspection and Engineering Services



With over 45 years of global experience, Sonomatic has been a leading provider of advanced inspection and integrity services to the Oil, Gas, and Nuclear industries.

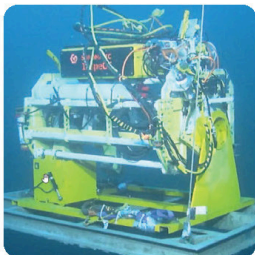
Sonomatic is a global market leader in ROV deployed subsea inspections, and together with our subsea integrity division, we deliver a fully integrated support service to determine asset condition and suitability for continued operation.

We are also leaders in innovation, providing cutting-edge solutions across robotic inspections, software, and in-house hardware development. Our integrated operations have been recognised through multiple industry awards and global challenges.



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The **MEC-Hug™ PipeCrawler** is a sophisticated self-crawling inspection system able to scan in both axial and circumferential directions. It has been developed to provide a reliable and technically advanced inspection solution for flexible risers and flexible pipes at their working locations while accommodating the various degrees of wire angle structures.



The **MEC-FIT™** flexible riser inspection technique combines direct current magnetic field and eddy current field to allow a deeper penetration into the various layers to detect single or multiple wire damages.

The **MEC-FIT™** technique not only enables the selection of the flexible riser layers to be inspected but allows the optimisation of inspection for a specific layer from which a defect signal is received.



PIPELINE INTEGRITY

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Magnetic Multimission Crawlers

Sonomatic is a provider of advanced inspection services for the integrity and lifetime **assessment support of onshore and offshore topside, splash zone and subsea assets**. We offer innovative and unique R&D solutions to solve standard and niche inspection challenges.



SCAN ME



SONOMATIC

Sonomatic SEA SDN BHD

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*a service-based consultancy company that
is specialized in vibration engineering*

VRG CORE BUSINESS

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- 2) Structural Health Monitoring
- 3) Structural Vibration Monitoring
- 4) Dynamic Finite Element Analysis
- 5) Engineering Design Consultancy
- 6) Construction Activity Monitoring
- 7) Drone Inspection & Digital Twin

***Ensuring structural integrity using
advanced technologies***

Contact us

Phone : +6012-6227914 (Dr KC)

Email : kcyon@vrgdinamik.com.my

Website : www.vrgdinamik.com.my



Vibration Based
Damage Detection
(VBDD)

International Standards:

BS ISO 14963:2003

ISO 14963:2003

ISO 18649:2004

ISO 16587:2004

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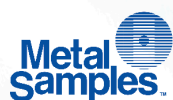
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