

Conference Program

DAY 1 | 29 Sept 2025 | Monday

0800 – 0900 Registration

0900 – 1100 **Session 1** (6 papers, 15-20 minutes each)

1100 – 1115 Break

1115 – 1125 Opening Ceremony by Chairman of NVC 2025

1125 – 1230 Keynote 1: Ir. Faizul Azly Abd Dzubir

Keynote 2: Prof. Dr. Zaidi Mohd Ripin

1230 – 1400 Lunch with networking session

1400 – 1500 **Session 2** (3 papers, 15-20 minutes each)

1500 – 1520 Break

1520 – 1700 **Session 3** (5 papers, 15-20 minutes each)

1710 – 1800 Annual General Meeting of Society of Vibration and Acoustics Malaysia (SVAM)

DAY 2 | 30 Sept 2025 | Tuesday

0900 – 1100 **Session 4** (6 papers, 15-20 minutes each)

1100 – 1115 Break

1115 – 1200 Keynote 3: Ir. Ts. Dr. Rohaizat Omar

Keynote 4: Assoc. Prof. Dr Andreas Kyprianou

1200 – 1300 **Session 5** (3 papers, 15-20 minutes each)

1300 – 1400 Lunch

1400 – 1600 **Session 6** (6 papers, 15-20 minutes each)

1600 – 1615 Closing Ceremony

Keynote Lecture Day 1



Keynote Speaker 1:

Ir. Faizul Azly Abd Dzubir

Custodian Pipe Stress/Vibration,
PETRONAS Group Technical Solutions

Keynote Title:

Piping Vibration Challenges in Oil and Gas Industry



Keynote Speaker 2:

Prof. Dr. Zaidi Mohd Ripin

The Vibration Lab,
Universiti Sains Malaysia

Keynote Title:

*A Retrospective on TheVibrationLab:
Vibration Research in a University Setting*

Keynote Lecture Day 2



Keynote Speaker 3:

Ir. Ts. Dr. Rohaizat Omar

Smart Manufacturing Centre, SIRIM

Keynote Title:

*Navigating the Digital Age:
Overcoming Challenges in Predictive Maintenance
Technology*



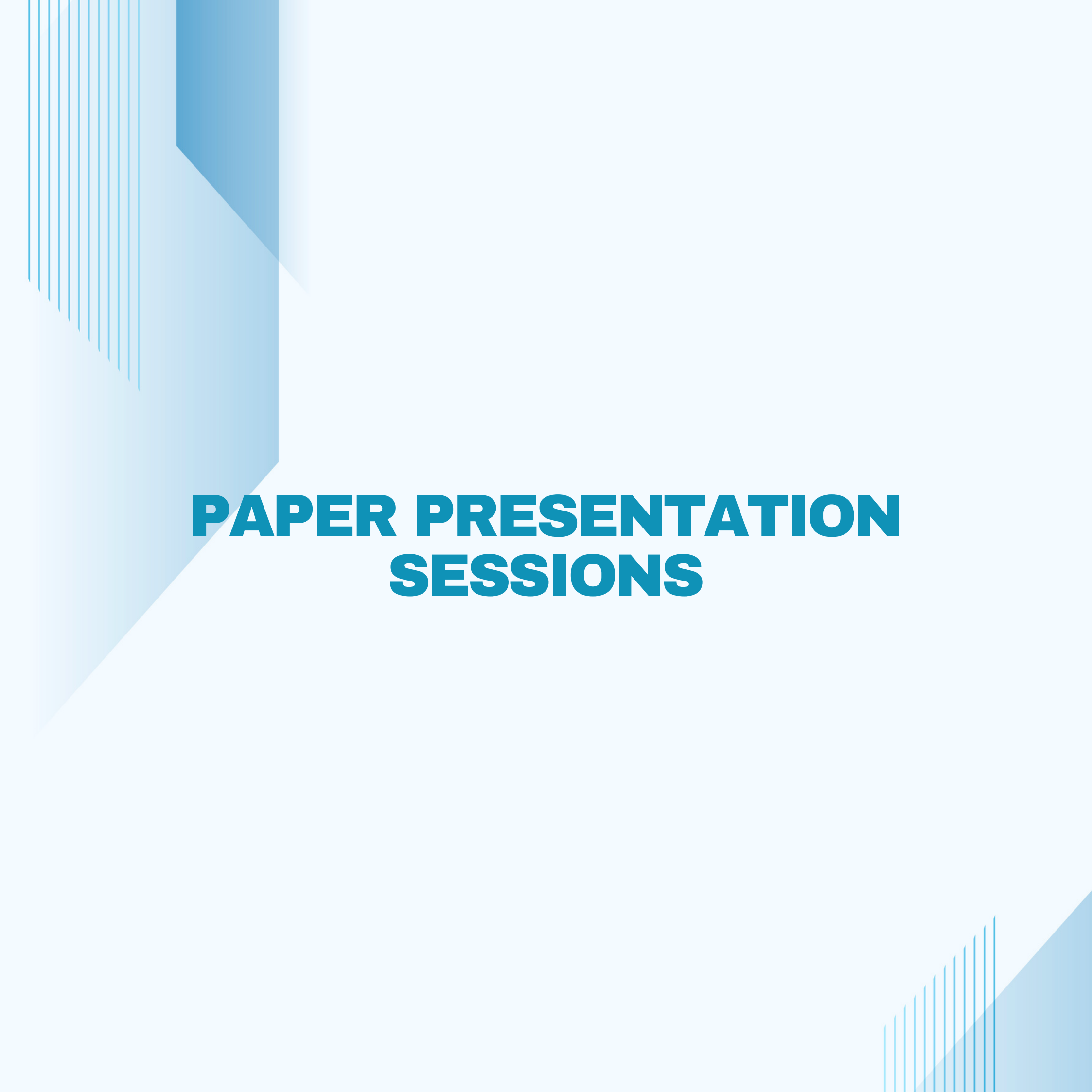
Keynote Speaker 4:

Assoc. Prof. Dr. Andreas Kyprianou

University of Cyprus

Keynote Title:

*Nonlinear Updating for Structural Dynamics:
Challenges and Potential Solutions*



PAPER PRESENTATION SESSIONS

Paper Presentations

Session 1: Acoustics & Noise 1

Session Chair: Ms. Seow Khei Yinn

Day 1 | 29 September 2025 | Monday | 0900 – 1100 | 7 papers (15-20 minutes each)

P003	Devina Tambunan, Anugrah Sabdono Sudarsono, I Gde Nyoman Merthayasa	Adjustable Concert Hall Acoustics Design Study for Classical and Angklung Music
P008	Mahmud Iskandar Seth A Rahim, Nik Intan Nik Ismail, Nurul Hayati Yusof, Nazirah Ahmad, Mohamad Asri Ahmad	Performance of dry rubber foam as a sound absorbing material
P001	Anugrah Sabdono Sudarsono, Sugeng Joko Sarwono, Ni Putu Amanda Nitidata, Nurul Hidayah	Comparison of soundwalk and listening test as methodologies for developing the corrected soundscape circumplex model: a case study of Indonesia
P005	Punyakorn Sourachai, Michel Rosmolen, Juan Battaner-Moro	Comparative Review of Noise Impact Assessment Methods: A Study of British and Southeast Asia Guidelines

Paper Presentations

Session 1: Acoustics & Noise 1 (cont.)

Session Chair: Ms. Seow Khei Yinn
Day 1 | 29 September 2025 | Monday | 0900 – 1100 | 7 papers (15-20 minutes each)

P018	Widyarko Widyarko, Nazli Che Din	A Short Review on Floor Impact Noise: Integrating Objective and Subjective Approaches for Context-Specific SNQ Studies
P009	Nur Idayu Zulkifli, Nazli Che Din, Mohd Firrdhaus Mohd-Sahabuddin	Acoustic Comfort in Non-Purpose-Built Kindergartens: Challenges and Design Implications
P041	Muhammad Faizul Kamal Bin Norrifin, Nazli Bin Che Din, Musli Nizam Bin Yahya, Desmond Daniel Chin Vui Sheng	Influence of Infill Pattern on Sound Absorption Performance of 3D-Printed Microperforated Panels

Paper Presentations

Session 2: Structural Dynamics

Session Chair: Dr. Muhajir Ab Rahim

Day 1 | 29 September 2025 | Monday | 1400 – 1500 | 3 papers (15-20 minutes each)

P022	Muhamad Norhisham Abdul Rani, Andreas Kyprianou, Konstantinos Rousou	A Novel Framework for Nonlinear Model Updating Using Response-Controlled Testing
P040	Muhammad Ibrahim Salahuddin Tengku, Noraini Marsi, Nik Normunira Mat Hassan, Azmi Mohammad, Abdul Motalib Leman, Abdul Murad Zainal Abidin, Anuar Pawan, Mohamad Fikri Mohamad Yunus	Dynamic Stiffness and Vibration Control Performance of Chemically Treated Palm Empty Fruit Bunch–Fiberglass Hybrid Composites for Insulation Applications
P035	Junaid Zahid, Mohammad Yazdi Harmin, Leong Wen Chek	Inspection of manufacturing defects by the application of Operational Modal Analysis (OMA)

Paper Presentations

Session 3: Vibration Control and Signal Processing 1

Session Chair: Dr. Muhamad Norhisham Abdul Rani

Day 1 | 29 September 2025 | Monday | 1520 – 1700 | 6 papers (15-20 minutes each)

P017	Gao Chen, Mohd Zaki Nuawi, J. A. Ghani, S. M. Saad	I-kaz_KELM Model for Tool Condition Monitoring Using Vibration Signal of PHM 2010 TCM Data Set
P031	Nur Ezwanni Mohd Radzali, Nor Kamaliana Khamis, Pang Wan Qiu, Norsuzlin Binti Mohd Sahar, Mohd Faizal Mat Tahir, Mohd Zaki Nuawi	Enhancing Driver Alertness Through Multimodal Vibrotactile Feedback: A Step Towards Fatigue Mitigation
P025	Muhammad Nur Othman, Mohd Zaki Nuawi, Mohd Faizal Mat Tahir, Nor Azazi Ngatiman	Predicting Insufficient Oil vs Insufficient Refrigerant for Belt-Driven Air Conditioning Compressor using Z-Chart
P043	Dasalani Jayasegaran, Khairil Anas Md Rezali, Azizan As'arry, Tuan Ahmad Zahidi Tuan Abdul Rahman, Leong Wen Chek	Progression of Cutting Tool Wear and Vibration Emission in the Grinding Process

Paper Presentations

Session 3: Vibration Control and Signal Processing 1 (cont.)

Session Chair: Dr. Muhamad Norhisham Abdul Rani

Day 1 | 29 September 2025 | Monday | 1520 – 1700 | 6 papers (15-20 minutes each)

P011	Azahar bin Mohd, Khairil Anas Md Rezali, Mohammad Yazdi Harmin	Exploring Basic Vibration Measurements for Cavitation Detection in Centrifugal Pumps
P027	Shamsul Kamaruddin, Roslim Ramli and Fatimah Rubaizah Mohd Rasdi	Characterization of Deproteinised Natural Rubber Latex Foam for Enhanced Acoustic and Vibration Isolation

Paper Presentations

Session 4: Human Vibration + Structural Dynamics

Session Chair: Ir. Dr. Abdul Murad bin Zainal Abidin

Day 2 | 30 September 2025 | Tuesday | 0900 – 1100 | 6 papers (15-20 minutes each)

P033	Umesh Ganesh, Mohamad Ikhwan Zaini Ridzwan, Zaidi Mohd. Ripin, Wan Mohd Amri Wan Mamat Ali, Mohd Azwan Mohd Bakri, Mohd Rizal Ahmad	Vibration and Structural Dynamics in Cantaz™ Elektro Harvesting Tool for Oil Palm Applications
P012	Azmi Mohammad, Khairil Anas Md Rezali, Nawal Aswan Abdul Jalil, Azizan As'arry, Mohd Amzar Azizan	Predicting vibration transmission through seat by measuring seat dynamic stiffness at different preloads and vibration magnitudes
P044	Ko Ying Hao, Chan Huan Eng, Yea Dat Chuah, Teoh Choe Yung, Lee Yaw Wei	Quantitative Analysis of Human Biofield Response to Vibration-Based Therapy
P030	Ahmed Kadoura, Nawal Aswan Abdul Jalil, Muhammad Amin Azman	The effect of frequency on vibration-assisted removal of cemented hip prostheses

Paper Presentations

Session 4: Human Vibration + Structural Dynamics (cont.)

Session Chair: Ir. Dr. Abdul Murad bin Zainal Abidin

Day 2 | 30 September 2025 | Tuesday | 0900 – 1100 | 6 papers (15-20 minutes each)

P023	Nurul Fatin Hamizah Ah Siak @ Mohd Helmi, Yunus Mohd Azmi, Andreas Kyprianou, Herman Van Der Auweraer, Muhammad Syafiq Aiman Mohd Kahar, Muhamad Norhisham Abdul Rani	Accurate Prediction of Frequency Response Functions of Tobacco Composite Panel
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P021	Nasmi Herlina Sari, Mohd Azmi Yunus, Mimi Liza Abdul Majid, Mohd Shahrir Mohd Sani, Nurul Fatin Hamizah Ah Siak, Muhajir Abd Rahim	Structural Material Identification of Natural Composite Using Stochastic Inverse Method
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Paper Presentations

Session 5: Acoustics & Noise 2

Session Chair: Assoc. Prof. Ir. Dr. Mohd Azmi Yunus

Day 2 | 30 Sept 2025 | Tuesday | 1200 – 1300 | 3 papers (15-20 minutes each)

P037	Siti Nadiah Razali, Nawal Aswan Abdul Jalil	Compliance evaluation of Noise Risk Assessment (NRA) at pump houses in the water industry based on ICOP 2019
P028	Irfan Fahmi Ahmad Zulfa, Mohd Faizal Mat Tahir, Mohd Zaki Nuawi, Rozli Zulkifli, Meor Iqram Meor Ahmad, Nor Kamaliana Khamis, Mohd Anas Mohd Sabri	Green Noise Barriers: A Preliminary Comparative Study of Vertical Plant-Based Arrangements Using Epipremnum Aureum and Nephrolepis Exaltata
P036	Mohd Khairulshahril Isa, Razali Samin, Mohd Idris Shah Bin Ismail	Effect of chatter measured using sound level meter on surface roughness during CNC face milling of aluminium alloy 6061

Paper Presentations

Session 6: Vibration Control and Signal Processing 2

Session Chair: Assoc. Prof. Dr. Mohd Zaki Nuawi

Day 2 | 30 Sept 2025 | Tuesday | 1400 – 1600 | 7 papers (15-20 minutes each)

P039	Hanyu Zheng, Azizan As'arry, Chin Jian Shiun, Khairil Anas Md Rezali	Active Vibration Control of Semi-Active Suspension Using Terminal Sliding Mode Controller
P029	Fazidah Saad, Muhammad Najib Abdul Hamid, Zainal Nazri Mohd Yusuf, Ahmad Zhafran Ahmad Mazlan	Motorcycle footrest vibration analysis for design enhancement
P013	Muhajir Ab Rahim, Adila Nalisa Mohd Roslan, Yunus Mohd Azmi	Effect of Particle Size on Vibration Suppression in Lightweight Cantilever Beam
P045	Abdul Malek, Aliff Aiman Zafridin, Muhamad Sukri Hadi	Implementing of Entropy for Bearing Fault Monitoring

Paper Presentations

Session 6: Vibration Control and Signal Processing 2 (cont.)

Session Chair: Assoc. Prof. Dr. Mohd Zaki Nuawi

Day 2 | 30 Sept 2025 | Tuesday | 1400 – 1600 | 7 papers (15-20 minutes each)

P038	Sharafiz Rahim, Chang Qin Ping	Predictive Maintenance of Rotating Machine Using Machine Learning
P032	Tuan Ahmad Zahidi Tuan Abdul Rahman, Azizan As’arry, Leong Wen Chek	Feature-Optimised Machine Learning Framework for Intelligent CNC Grinding Tool Monitoring
P019	Z. Wahid, M. A. F. Ahmad, M.Z. Nuawi, M. F. M. Tahir and M.I.M. Ahmad.	Machine Learning-Enhanced Impulse Excitation Technique for Characterising the Elastic Modulus Properties of 3D-Printed Materials