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Monday 11th June

Tuesday 12th June

16:00 – 19:00 Registration

KEY

[100] – Denotes reference number in abstract booklet

08:00	Registration
09:00	Opening ceremony - (Suite 7)
09:20	PLENARY KEYNOTE LECTURE: Chair Prof L Gelman [101] Prof D Galar, Prof U Kumar (Sweden) "Context driven decisions in maintenance: a hybrid model approach" (Suite 7)
09:50	PLENARY KEYNOTE LECTURE: Chair Prof L Gelman [102] Prof A Khalid (UK) "Guided ultrasonic waves for condition and structural health monitoring"(Suite 7)

10:20 Tea, Coffee & Exhibition (Suite 8)

	1A- London Suite 7	1B- London Suite 1	1C- London Suite 2	1D- London Suite 3	1E-London Suite 6
	Wind turbine condition monitoring methods and strategies <i>Dr M Papaalias</i>	Trained structures and statistical methods in condition monitoring <i>Prof L Kuravsky</i>	Vibro-acoustics <i>Prof A Moorhouse</i>	Advances in monitoring and diagnostic of heavy machinery working under varying load <i>Prof W Bartelmus</i>	"eMaintenance: Integration of CM and CMMS in DSS" <i>Prof D Galar</i>
10:45	[103] Development and demonstration of a novel integrated condition monitoring system for wind turbines <i>M Papaalias Birmingham University</i>	[104] Probabilistic artifact filtration attached to adaptive testing of CM personnel professional skills <i>L S Kuravsky & G A Yuryev, Moscow State University</i>	[105] Vibro-acoustic measurement methods in condition monitoring <i>A Moorhouse University of Salford</i>	[106] Secondary misalignment as the main cause of gearbox failure <i>W Bartelmus, Wroclaw University</i>	[126] The evolution from e(lectronic)Maintenance to i(ntelligent)Maintenance <i>Prof D Galar</i>

11:10	[107] On development of a test rig for research & education in condition monitoring technology <i>S (Suri) Ganeriwala, Spectra Quest, Inc</i>	[108] Application of kurtosis in vibration time histories analysis <i>T Galka, Institute of Power Engineering, Warsaw</i>	[109] Combustion diagnosis of a CI engine based on vibro-acoustic measurements <i>D Zhen, F Gu and A D Ball University of Huddersfield</i>	[110] Modal analysis in diagnostics of rotating machinery <i>J Bednarz & T Barszcz AGH University of Science and Technology, Poland</i>	[130] Integration of knowledge-based information in intelligent condition monitoring <i>E K Juuso, University of Oulu</i>
11:30	[111] On development of a test rig for research in drivetrain diagnostics/prognostics <i>S (Suri) Ganeriwala, Spectra Quest, Inc.</i>	[112] Decision support system for testing CM personnel professional skills <i>L S Kuravsky, A A Margolis, G A Yuryev, P A Marmalyuk Moscow State University</i>	[113] A study on transient enhancement for fault diagnosis based on an active noise control system <i>X Tian, F Gu, D Zhen, V T Tran and A D Ball University of Huddersfield</i>	[114] Optimisation of operational state definition for wind farms – Part 1. Development of algorithms <i>B Darek, B Tomasz, A Jablonski, AGH University of Science & Technology</i>	[134] An environment for efficient design and implementation of condition monitoring systems for mechanical drives <i>M Ivanović, P Bošković, Đ Juričić, Department of Systems & Control, Jožef Stefan Institute, J Vižintin University of Ljubljana</i>
11:50	[115] A multi-measured fibre-optic sensor system for process and health monitoring of fibre reinforced composites <i>A K Nair¹, V R Machavaram¹, D Harris¹, R S Mahendran¹, G F Fernando¹, C Paget², C Barrow³ & B D Gupta⁴, ¹Birmingham University, ²Airbus, Filton,³Brüker Optics, ⁴Department of Physics</i>	[116] Interpretation of measured flow-induced vibration of a nuclear power plant with RBMK <i>V D Sizarev, Open Joint – Stock Company, N A Dollezhal Research & Development Institute of Power Engineering</i>	[117] Acoustic condition monitoring of wind turbine blades: tip faults <i>B Fazenda, D Comboni University of Salford</i>	[118] Procedure for data acquisition for machinery working under non-stationary operational conditions <i>A Jablonski, B Tomasz AGH University of Science and Technology</i>	[139] Design and Development of an Electric Vehicle Drive Train Test Bed <i>M Knowles, D Kok, D Baglee & A Morris University of Sunderland</i>
12:10	[119] A Novel predictive maintenance method for wind turbines based On wavelets transforms <i>R R de la Hermosa Gonzalez-Carrato, F P García Márquez, J M Pinar, M Papaelias Ingenium Research Group, Universidad Castilla-La Mancha University of Birmingham</i>	[120] Forecasting fatigue failures of aircraft structures with the aid of trained multifactor Markov networks <i>S N Baranov, L S Kuravsky Russian Aviation Co, Research Group</i>	[121] Vibro-acoustic monitoring of a self-aligning spherical journal bearing due to eccentric bore fault <i>P Raharjo, F Gu, A D Ball University of Huddersfield</i>	[122] Development of in-service condition monitoring system using combined vibrational and acoustic emission signature for wind turbine gearbox and generator shaft <i>S Soua and T-H Gan NDT Technology Group, TWI</i>	[143] An I-Maintenance Solution for Condition Monitoring in Diesel Powered Marine Vessels <i>A.García¹, M. Knowles², D.Baglee², E.Gilbert¹, ¹Fundación Tekniker, IK-4 research alliance, ²Institute for automotive & manufacturing advanced practice (AMAP), University of Sunderland</i>
12.30	Comfort Break				

	2A- London Suite 7	2B- London Suite 1	2C- London Suite 2	2D- London Suite 3	2E-London 6 Suite
	<p>Wind turbine condition monitoring methods and strategies</p> <p><i>Dr M Papaalias</i></p>	<p>Nanomechanics - New frontiers in non-destructive testing</p> <p><i>Prof R Tenne</i></p>	<p>Experimental and virtual models for machines and plants diagnostics</p> <p><i>Prof A Lucifredi</i></p>	<p>Advances in monitoring and diagnostic of heavy machinery working under varying load</p> <p><i>Prof W Bartelmus</i></p>	<p>"eMaintenance: Integration of CM and CMMS in DSS"</p> <p><i>Prof D Galar</i></p>
12:40	<p>[123] Analysis of guided wave test data to detect time-dependent structural degradation</p> <p><i>V Dimlaye, A Haig and P Mudge</i> <i>TWI Limited</i></p>	<p>[124] Mechanical behavior of biomaterials as studied by nanoindentation and atomic force microscopy</p> <p><i>S R Cohen, Department of Chemical Research Support</i> <i>Weizmann Institute of Science</i></p>	<p>[125] Theoretical and experimental investigation on techniques for controlling brake pads damping through the particle damping technology</p> <p><i>¹Lucifredi A ¹Silvestri P ; ¹Denevi F o; ¹Rebora D ¹University of Genova, ²ITT Motion Technologies-R&D Department - Italy, ²Santamaria Razo Diego A.; ²Della Rovere Andrea</i></p>	<p>[401] Dynamic analysis of a single stage bevel gear transmission in presence of geometrical errors</p> <p><i>M Karray¹, F Chaari¹, F Viadero Rueda², A Fernandez delRincon², M Haddar¹</i> <i>¹Dynamics of mechanical Systems Research Unit, National School of Engineers of sfax, BP1173 – 3038 ²University of Cantabria</i></p>	<p>[147] Roadmap for the development and realisation of I-maintenance in the automotive industry</p> <p><i>D Baglee & M J Knowles</i> <i>Institute for Automotive & Manufacturing Advanced Practice (AMAP)</i> <i>University of Sunderland</i></p>
13:00	<p>[127] Condition monitoring of wind turbine brake systems</p> <p><i>M. Entezami¹, S. Hillmansen¹, P Weston¹ & M Ph Papaalias²</i> <i>¹School of Electrical, Electronic & Computer Engineering ²Birmingham University</i></p>	<p>[128] Nanotribology and lubrication mechanism of fullerene-like nanoparticle investigated using in-situ HRTEM nanocompression tests</p> <p><i>F Dassenoy* and I Lahouij</i> <i>Ecole Centrale de Lyon</i></p>	<p>[129] Theoretical and experimental investigation on vibration phenomena of the interaction between the alternator and the Ferrari V8 engine</p> <p><i>A Lucifredi(1), P Silvestri(1), M Ottria(1), C Manna(2)</i> <i>(1) Unige – Dimec – (2) Ferrari Auto</i></p>	<p>[402] Multidimensional data analysis for condition monitoring: features selection and data classification</p> <p><i>R Zimroz, Wroclaw University of Technology</i> <i>A Bartkowiak</i> <i>University of Wroclaw</i></p>	<p>[151] A Feature Selection Algorithm for Machine Multi-Class Fault Assessment</p> <p><i>A Rezaii, A Dadouche, R J Anderson & M G Lipsett</i> <i>University of Alberta</i></p>
13:20	<p>[131] Fault Identification and Analysis of Wind Turbines</p> <p><i>Jesús María Pinar^a, F Pedro G Márquez^a, Raul Ruiz de la Hermosa Gonzalez-Carrato^a M Papaalias^b</i> <i>^aIngenium Research Group, Universidad Castilla-La Mancha, ^bBirmingham University</i></p>	<p>[132] Friction mechanism of individual multilayered nanoparticles</p> <p><i>O Tevet and R Tenne</i> <i>Weizmann Institute of Science</i></p>	<p>[133] Theoretical and experimental investigation about the dynamic behavior of a paper cutting machine</p> <p><i>A Lucifredi, P Silvestri, S Porcile</i> <i>University of Genoa</i></p>	<p>[403] Modelling of transmission used in wind turbines</p> <p><i>W Bartelmus¹, F Chaari², R Zimroz¹, T Barszcz³, M Haddar²</i> <i>¹Wroclaw University of Technology, ²National School of Engineers of Sfax, ³AGH University of Science and Technology</i></p>	<p>[317] Integration of disparate data sources to perform maintenance prognosis and optimal decision making</p> <p><i>A V Horenbeek, D Galar & L Pintelon</i> <i>KU Leuven - Mechanical engineering</i></p>

13:40 Lunch & Exhibition & Spotlight (Suite 8)

14.25	Exhibitor Spotlight Session - (Suite 8)
14:55	PLENARY KEYNOTE LECTURE: Chair Prof L Gelman [135] Mr D Futter (UK) ' The Importance of Condition Monitoring in Assisting Operations and Maintenance Strategies' (Suite 7)

15:25 Tea, Coffee & Exhibition (Suite 8)

	3A- London Suite 7	3B- London Suite 1	3C- London Suite 2	3D- London Suite 3	3E-London Suite 6
	<p>Wind turbine condition monitoring methods and strategies</p> <p><i>Dr M Papaelias</i></p>	<p>Novel sensing/processing methods for equipment health monitoring</p> <p><i>Prof S King</i></p>	<p>Coherent Measurement Techniques at THz Frequencies for Non-Destructive Testing</p> <p><i>Dr A Belitskaya</i></p>	<p>TITLE: Condition monitoring of rotating machinery</p> <p><i>NAME: Dr L Wang</i></p>	<p>"eMaintenance: Integration of CM and CMMS in DSS"</p> <p><i>Prof D Galar</i></p>
15:45	<p>[136] Long-term high frequency vibration spectral monitoring for wind turbine tower structural damage detection</p> <p><i>Dr F Vermeulen¹ & Dr M Papaelias²</i> ¹Alpha Products & Technologies ²The University of Birmingham</p>	<p>[137] Use of Equipment Health Monitoring Information for Assessing potential exposure to volcanic events</p> <p><i>Prof S King, Rolls-Royce</i></p>	<p>[150] Coherent measurement techniques at THz frequencies for Non-Destructive Testing</p> <p><i>Willem Jellema, Andrey Baryshev, Alena Belitskaya, Henk van der Linden and Gerard Cornet, SRON Netherlands Insitute for Space Research</i></p>	<p>[406]Condition Monitoring and Health Management; a USA perspective</p> <p><i>C Pomfret, CEO of MFPT</i></p>	<p>[409] Context adapted prognostics and diagnostics</p> <p><i>K Wandt, R Karim & D Galar Lulea</i> <i>University of technology</i></p>
16:10	<p>[140] Remote condition monitoring of wind turbine rotating components using an integrated acoustic emission and vibration analysis system</p> <p><i>S C Kerkyras¹, Y C Kerkyras¹, O. Panagoliopoulos², V. Karakassidis², D. Lekou³ & M Ph Papaelias⁴</i> ¹Feldman Enterprises Limited, ²TERNA Energy S.A.³CRES, ⁴ The University of Birmingham</p>	<p>[145] Neural network based classification of unbalances in rotating machinery</p> <p><i>G Sirigineedi & S Perinpanaygam, Cranfield University</i></p>	<p>[142] Data fusion in interdependent signal systems via orthogonal projection</p> <p><i>P Galicza, T Muntean, S V Eindhoven TU/e - Department of Mathematics and Computer Science, TWAIO</i></p>	<p>[407] Combining discrepancy analysis with sensorless signal resampling for condition monitoring of rotating machines under fluctuating operations</p> <p><i>T Heyns, PS Heyns & R Zimroz</i> <i>Council for Scientific and Industrial Research South Africa, University of Pretoria & Wroclaw University of Technology</i></p>	<p>[410] Cloud computing for maintenance of railway signalling systems</p> <p><i>A Morant, D Galar Lulea University of technology</i> <i>J Tamarit</i> <i>Laboratory of Railway Interoperability</i></p>
16:30	<p>[144] Detection of run-out of electrical machine/generator slip rings using vibration measurements and nonlinear frequency analysis</p> <p><i>R S Bayma, Z Q Lang, L Cebulski,</i> <i>University of Sheffield, Mersen France Amiens S. A.S</i></p>	<p>[141] A novel condition indicator gearbox diagnosis: amplitude of probability density function (APDF)</p> <p><i>P J Rzeszucinski, J K Sinha, R Edwards, A Starr, B Allen</i> <i>Cranfield University</i></p>	<p>[146] Adjoint Sensitivity in Electrical Impedance Tomography using COMSOL Multiphysics</p> <p><i>D Lahaye & W Muclkhuyse TU Delft Mekelweg, TNO Delft, Alena Belitskaya SRON</i></p>	<p>[404] Research on potential errors in measurement of shaft power based on phase difference method</p> <p><i>K Yang, X Zhou & L Li</i> <i>Reliability Engineering Institution, School of Energy and Power Engineering, Songsong Liao</i> <i>Shenzhen Yateks Optical Electronic Technology Co. Ltd</i></p>	<p>[222]</p> <p>FREE SLOT</p>

16:50	<p>[148] Detection of shaft cracks using vibration signature analysis</p> <p><i>S (Suri) Ganeriwala Spectra Quest, Inc</i></p>	<p>[149] Unbalance localisation using high-fidelity simulations</p> <p><i>R Walker & S Perinpanayagam Cranfield University</i></p>	<p>[138]</p> <p>FREE SLOT</p>	<p>[405] Diagnostics and Prognostics utilising Dynamic Bayesian Networks Applied to a Wind Turbine Gearbox</p> <p><i>C E Plumley, G K Wilson, A D Kenyon, Dr F Quail University of Strathclyde</i></p>	<p>[334] Condition monitoring of rolling stock using wheel/rail forces</p> <p><i>M Palo, H Schunnesson & U Kumar Luleå University of Technology</i></p>
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18:00 Boat trip including dinner along the London Thames

Wednesday 13th June

08:00	Registration
08:30	PLENARY KEYNOTE LECTURE: Chair Prof L Gelman [201] Prof P John (UK) “Thoughts on implications of increasing system complexity” (Suite 7)
09:00	PLENARY KEYNOTE LECTURE: Chair Prof L Gelman [202] Prof D Juricic, Dr P Boskoski, Dr M Gasperin (Slovenia) “Diagnostics and prognostics of rotational machines in non-stationary conditions: how much do details matter?” (Suite 7)

09:30 **Tea, Coffee & Exhibition (Suite 8)**

	4A- London Suite 7	4B- London Suite 1	4C- London Suite 2	4D- London Suite 3
	<p>Condition based monitoring – concepts for success</p> <p><i>Prof T Lago</i></p>	<p>Model-based analysis for monitoring and diagnostics of equipment in time-varying service</p> <p><i>Prof M Lipsett</i></p>	<p>Integrated SHM for refinery - safety which increases profit</p> <p><i>Dr I Razuvaev</i></p>	<p>Advanced reasoning and diagnosis in condition monitoring</p> <p><i>Dr E Juuso</i></p>
09:50	<p>[203] Condition Based Monitoring – Concepts for Success</p> <p><i>Dr T L Lagö</i> <i>TechFuzion</i></p>	<p>[204] Haul truck tire condition monitoring using optical techniques</p> <p><i>A Kotchon, D S Nobes & M G Lipsett</i> <i>University of Alberta</i></p>	<p>[221] Convergence of the integrated structural health monitoring and the RBI strategies</p> <p><i>I V Razuvaev, Alcor Corp., Dzerzhinsk</i></p>	<p>[206] Intelligent stress indices in fatigue detection</p> <p><i>E Juuso, S Lahdelma</i> <i>University of Oulu</i></p>
10:10	<p>[207] Human listening tests In production lines</p> <p><i>Dr T L Lagö</i> <i>TechFuzion</i></p>	<p>[208] Modelling the crack growth in a pneumatic tire under time-varying loads</p> <p><i>R Vaghar-Anzabi, D S Nobes & M G Lipsett</i> <i>University of Alberta</i></p>	<p>[225] Real-time AE criteria in the long-term integrated structural health monitoring of the dangerous plants</p> <p><i>I V Razuvaev, E A Suchkov</i> <i>M V Zuikova, Alcor Corp., Dzerzhinsk</i></p>	<p>[210] Sensorless method for detecting surge in variable-speed-driven fan systems</p> <p><i>J Tamminen, T Ahonen, J Ahola, A Jaatinen & P Röyttä,</i> <i>Lappeenranta University of Technology</i></p>
10:30	<p>[211] Production line testing of small electrical motors</p> <p><i>Dr T L Lagö</i> <i>TechFuzion</i></p>	<p>[212] Application of continuous wavelet transform and principal component analysis for anomaly detection in mining haul truck suspension struts</p> <p><i>M Hajizadeh & M G Lipsett</i> <i>University of Alberta</i></p>	<p>[229] New AE sensors for the integrated SHM systems working under strong low-frequency noise</p> <p><i>I V Razuvaev, Alcor Corp., Dzerzhinsk</i></p>	<p>[214] A fault detection concept for single class problems</p> <p><i>J Strackeljan(1), S Goreczka(1) & D Behr(2) (1)Otto-von-Guericke-Universität Magdeburg, (2)TU Clausthal, Institut für Technische Mechanik</i></p>
10:50	<p>[215] How to properly find amplitude values in CBM applications</p> <p><i>Dr T L Lagö</i> <i>TechFuzion</i></p>	<p>[216] Wear in a slurry pipeline under time-varying conditions</p> <p><i>M G Lipsett</i> <i>University of Alberta</i></p>	<p>[217] Diagnostic and Condition Monitoring Expert Systems</p> <p><i>A A Myntsov, D V Sokolov, O V Myntsova</i></p>	<p>[218] Comparison of one-class classifiers for condition monitoring of rolling bearings in non-stationary operations</p> <p><i>S Goreczka, Universität Magdeburg</i></p>
11.10	Comfort Break (10 mins)			

	5A- London Suite 7	5B- London Suite 1	5C- London Suite 2	5D- London Suite 3
	Condition Based Monitoring – Concepts for Success <i>Prof T Lago</i>	Methods of vibration based diagnostics <i>Dr R Klein</i>	Integrated SHM for refinery - safety which increases profit <i>Dr I Razuvaev</i>	Advanced reasoning and diagnosis in condition monitoring <i>Dr E Juuso</i>
11:20	[219] Robust classification of gearbox faults by means of vibration condition monitoring and evolutionary optimisation of kohonen's self-organising maps <i>J Nkuna, Prof T Lagö Vaal University of Technology</i>	[220] Extreme value statistics for vibration spectra outlier detection <i>J Lacaille, Snecma - Technical direction</i>	[265] The effectiveness of using monitoring systems of technical condition of equipment <i>V Panchikov, D Kakovkin</i>	[408] Fusion of production, operation and maintenance data for underground mobile mining equipment <i>A Gustafson & D Galar Division of Operation and Maintenance Engineering Håkan Schunnesson Division of Mining and Geotechnical Engineering Stephan Heyns Division of Structural Mechanics</i>
11:40	[228] Spectral resolution enhancement using the MPCA method, a non-linear approach <i>Dr T L Lagö, TechFuzion</i>	[224] Ball bearing modeling for faults simulation <i>G Kogan, Prof J Bortman, Dr R Klein, M A Kushnirsky</i>	Optical condition monitoring technologies <i>Dr L Lobo</i>	[226] Mechanical fault diagnosis in variable operating conditions by feature estimation <i>G Peršin¹, J Vižintin¹, Đ Juričić², University of Ljubljana, ²Institute J Stefan, Ljubljana, Slovenia</i>
			[205] Optical techniques for condition monitoring <i>Dr L Lobo, Chair, BINDT Optical CM group</i>	
12:00	[227] SVM combined FTA approach for on-line reliability estimation <i>J Yan, A Dong and W Li, Harbin Institute of Technology</i>	[223] Methods for bearing feature extraction <i>Dr R Klein, Dr E Masad, I Winkler, R K Diagnostics</i>	[209] Techniques and applications of terahertz imaging <i>M Naftaly National Physical Laboratory</i>	[230] Advancement in structural health monitoring of wind turbine blades <i>O R Adewale, A DeSilva & U I K Galappaththi Glasgow Caledonian University</i>
12:20	[231] An update in ISO standards in condition monitoring <i>S Mills, AV Technology</i>	[232] Structural fault detection using volterra series and multi-tone harmonic probing <i>N S Vyas & S Dwivedi Department of Mechanical Engineering, Indian Institute of Technology Kanpur</i>	[213] Remote sensing and vibration testing using laser doppler vibrometry <i>J Armstrong, Polytec Limited</i>	[234] Condition monitoring of SSE gas turbines using artificial neural networks <i>Dr. S Muthuraman & Dr. J Twiddle, Scottish-Southern Energy Engineering Centre</i>

12:40 Lunch & Exhibition (Suite 8)

12:50 Meeting of The International Scientific Committee (Working lunch by invitation) – Suite 6

13.40	PLENARY KEYNOTE LECTURE: Chair Prof L Gelman [235] Mr Cameron Sinclair, CEO of BINDT, ' BINDT Strategy and the CM community' (Suite 7)
14.10	Welcome by the President of The British Institute of Non Destructive Testing, Steve Lavender, Lavender International - (Suite 7)
14:15	Annual General Meeting of the International Society of Condition Monitoring - Suite 7

15:15 Break & Exhibition (Suite 8)

	6A- London Suite 7	6B- London Suite 1	6C- London Suite 2	6D- London Suite 3
	Condition monitoring of rotating machinery	Signal models, 1D & 3D analysis for time-varying systems	Advanced signal processing in condition monitoring	Real-time condition monitoring of machinery
	Prof A Hope	Dr N Martin	Prof S Lahdelma	Prof V N Kostyukov
15:30	[240] Improved simulation of bearing faults using a finite element model reduction technique <i>L Deshpande (1), N Sawalhi (2) & R B Randall (1)</i> <i>(1) University of New South Wales, Sydney, (2) Prince Mohammad Bin Fahd University, Saudi Arabia</i>	[237] Seismic response analysis of different buildings using time-invariant and time-variant damping coefficients <i>F N -Barakat, Z Li, N Martin & M Vieira, Gipsa-lab, Departement Images Signal Philippe Gueguen ISTERre, University</i>	[238] Real order derivatives and generalised norms in condition monitoring with noisy data <i>S Lahdelma & E Juuso</i> <i>University of Oulu</i>	[239] Signs of intrinsic machine vibration nonlinearity features originated from developing malfunctions <i>F.Ya.Balitsky, Scientific Educational Center "Kachestvo".</i>
15.50	[315] Detection of early changes in rotor dynamics of rotating machinery based on wavelet analysis <i>L M Hee, Universiti Teknologi Malaysia</i>	[241] Partial least squares based algorithm for flight control system monitoring <i>F Cazes^{1,2,3}, M Chabert¹, C Maildes^{1,2}, P Michel², P Goupil³, R Dayre³, H Le-Berre³.</i> <i>¹University of Toulouse</i> <i>²TéSA Lab, Toulouse</i> <i>³AIRBUS, Toulouse</i>	[242] Study of applicability and benefits of RF based measurement method for partial discharge detection in stator windings <i>V Niskanen & J Ahola, Lappeenranta University of Techology</i>	[243] S-discriminants spectra as a base for new vibration monitoring technique sensitive to early stage of machinery deterioration <i>A G Sokolova, F Ya Balitsky Russian Machinery Engineering Resarch Institute,</i>
16.10	[236] TITLE TBC <i>Dr. Murray, Mr A Thomson & Mr R Colyer, SKF</i>	[245] Reconstruction of rotational speed from vibration signal – comparison of methods <i>J Urbanek¹, R Zimroz², T Barszcz¹, J Antoni³</i> <i>1) AGH University of Science and Technology,</i> <i>2) Diagnostics and Vibro-Acoustics Science Laboratory</i> <i>3) University of Lyon</i>	[246] Distortion in acoustic emission and acceleration signals caused by frequency convertors <i>S Lahdelma, K Karioja & J Laurila, University of Oulu</i> <i>J Ahola, Lappeenranta University of Technology</i>	[247] Rotor balancing technique using sensors with absolute shaft vibration by minimizing the dynamic angles of inclination of the rotorsnecks <i>A Kumenko & O Zlobin</i> <i>JSC "VTI"</i>

16:30 Comfort Break
16:40 Exhibition Close

	7A- London Suite 7	7B- London Suite 1	7C- London Suite 2	7D- London Suite 3
	Condition Monitoring fin Nuclear Power Plants Safety <i>Prof T H Gan</i>	Signal models, 1D & 3D analysis for time-varying systems <i>Dr N Martin</i>	Advanced signal processing in condition monitoring <i>Prof. S. Lahdelma</i>	Real-time condition monitoring of machinery <i>Prof. Vladimir N. Kostyukov</i>
16:40	[252] Non-destructive testing of primary circuit Components of VVER reactors in Czech Republic <i>Z Skála, L Stainer, J Vit & J Forman ŠKODA JS a.s., Orlík 266, 316 06 Plzeň, Czech Republic</i>	[249] Analysis of 3D physical quantities for system diagnosis <i>P Gailene; Gipsa-lab G Pierre; Gipsa-lab</i>	[250] Detecting misalignment of a claw clutch using vibration measurements <i>S Lahdelma & J Laurila University of Oulu</i>	[326] Theoretical and experimental investigation about the dynamic behaviour of a paper cutting machine <i>A Lucifredi, P Silvestri & S Porcile University of Genoa</i>
17.00	[256] New approach for on-line diagnostics of main equipment of NPPs from the point of view of the structural strength justification <i>M. Bakirov¹, V. Levchuk¹, V. Povarov² 1 Center of Material Science and Lifetime Management Ltd, 2 Novovoronezh Nuclear Power Plant, Russia</i>	[253] Vibration analysis for gears damage detection in lifting cranes <i>M Eltabach & S SIEG-ZIEBA CETIM – Oise</i>	[254] Detection of bearing faults in high speed rotor systems <i>J Strackeljan, T Doguer & S Goreczka, (1)Otto-von-Guericke-Universität, Magdeburg</i>	[251] Radiostatistical method of control of substances in conditions of partial uncertainty <i>N D Veshkurtsev Omsk State Technical University Y M Veshkurtsev, Institution of Radio Electronics, Service and Diagnostics</i>
17:20	[260]	[257] Optimisation of operational state definition for wind farms – Part 2. Integration of Matlab environment with web-enabled database system <i>A Jablonski & B Tomasz AGH University Poland</i>	[258] Practical considerations on selecting assets for condition monitoring <i>H Mikkonen & S Lahdelma SKF, University of Oulu</i>	[255] Designing and operation experience of real-time monitoring systems <i>V N Kostyukov & A P Naumenko SPC "Dynamics"</i>
17:40	MEETING OF THE MANAGEMENT COMMITTEE OF THE INTERNATIONAL SOCIETY FOR CONDITION MONITORING	[261]] A CUSUM-like approach for online change-point detection on bus door systems <i>N Cheifetz, A Samé & P Aknin, Université Paris-Est, Emmanuel de Verdalle, Veolia Environnement Recherche & Innovation (VERI)</i>	[262] Vibration analysis for diagnosis purposes of mechanical faults by means of optimal band-pass filters <i>A Urevc, J Kern & J Vizintin University of Ljubljana</i>	[259] Real-time condition monitoring of gear pumps by the recurrent selection of the noise and periodic components of Vibration <i>V N Kostyukov, Omsk State Transport University</i>
18.00		[233] Development and implementation of integrated structural health monitoring systems on Russia enterprises for ensuring safety operation of industrial equipment and buildings <i>S Trutaev, K Kuznetsov, S Bykov, B Juraido & V Trutaeva Irkutsk</i>	[266] Confidently Diagnosing Misalignment <i>Dean Whittle, RMS Ltd</i>	[263] Totals of the metal magnetic memory method development in Russia and other countries <i>A A Dubov Energodiagnostika Co. Ltd</i>

19:30 for 20:00

Conference Dinner incorporating Chas and Dave tribute act to bring the sounds of London music

Thursday 14th June

08:30	Registration		
	8A - Suite 7	8B- Suite 1	8C- Suite 2
	<p>Advanced Signal Processing for MCM and NDT</p> <p><i>Prof R Smid</i></p>	<p>General condition monitoring</p> <p><i>Prof L Gelman</i></p>	<p>TITLE: Condition monitoring of rotating machinery</p> <p><i>NAME: Dr R Zimroz</i></p>
09:00	<p>[301] Steam turbine rotor/stator impact and rubbing detection</p> <p><i>J Liska, J Jakl & E Janecek</i> <i>University of West Bohemia - Czech Republic</i></p>	<p>[302] Geometrical acoustics approximation for rayleigh and lamb waves</p> <p><i>V V Krylov,</i> <i>Loughborough University</i></p>	<p>[330] Automated diagnosis of piston slap in engines</p> <p><i>J Chen^{a,b}, R Randall^f, B Peeters^b, H V der Auweraer^b, Wim Desmet^c</i> <i>^aUniversity of New South Wales</i> <i>^bLMS International</i> <i>^cKULeuven department of mechanical engineering</i></p>
09:25	<p>[305] Advanced signal processing in wireless sensor networks for MCM</p> <p><i>J Neuzil</i> <i>University in Prague</i></p>	<p>[310] Condition monitoring of rotor using multivariate EMD and full spectrum</p> <p><i>T H Patel, X Zhao & M J Zuo</i> <i>University of Alberta</i></p>	<p>[303] Effect of guide-vanes direction on a blower vibration for boiler utility-A case study</p> <p><i>A D Asli & A S Morvarid</i> <i>Petrochemical Complex</i></p>
09:45	<p>[309] Application of wireless sensor networks in condition monitoring of rotating devices</p> <p><i>O Kreibich</i> <i>University in Prague</i></p>	<p>[314] System for Automated Online Oil Analysis</p> <p><i>G Peršin, J Salgueiro, J Vižintin,</i> <i>University of Ljubljana, Đ Juričić,</i> <i>Institute Jožef Stefan, Department of System and Control</i></p>	<p>[307] Surveying compressor 10-c-2501 vibration problem by method analysis of vibration and its analytical report</p> <p><i>M Hamidreza¹, A Azadi², H Sarabeigi³</i> <i>E Heydari⁴ Marun Petrochemical Company, Special Petrochemical Economical Zone</i></p>
10:05	<p>[313] Accuracy monitoring of systems</p> <p><i>V Giniotis, M Rybokas, G Dmitrijev</i> <i>Vilnius Gediminas Technical University</i></p>	<p>[316] Towards optimal partitioning of integrated vehicle health management (IVHM) systems: a Review</p> <p><i>L Gelman, P Sydor, S Benoit,</i> <i>I. Jennions, M Langley & G Nicchiotti, Cranfield University, Meggitt</i></p>	<p>[311] Vibration Reduction of a LP Steam Turbine With Support Subsidence</p> <p><i>Y-S Choi, Singkyunkwan University</i></p>
10:25	<p>[304] Acoustic Emission Analysis in the early stage of heavy duty hydrodynamic/hydrostatic hybrid POD DRIVE bearing development</p> <p><i>H T Nguyen, ^a S Gold, ^b J Weber,</i> <i>^c A Albers, ^d Karlsruhe Institute of Technology (KIT), IPEK, TU Dresden, IFD, Karlsruhe Institute of Technology</i></p>	<p>[318] Condition monitoring of gearboxes</p> <p><i>L Gelman, K Gryllias, B Shaw & M Vaidhianathasamy</i> <i>Cranfield University, University of Newcastle</i></p>	<p>[319] Analyzing imbalance in a 24 MW steam turbine</p> <p><i>A Daghighi Asli¹, V Rezaie¹</i> <i>Leila Hayati³ Morvarid Petrochemical Complex, Opsaco Consulting Company</i></p>

10:45 Tea & Coffee

11:05	PLENARY KEYNOTE LECTURE: Chair Prof L Gelman [321] Dr B Murray (UK) “Technology developments and condition based maintenance”(Suite 7)		
11:35	PLENARY KEYNOTE LECTURE: Chair Mr C Sinclair [322] PCN, CM - The Past, Present and Future – Peter Milligan, Director Head Of Certification, BINDT (Suite 7)		
12:05	Panel Session: Future directions in condition monitoring - Chair Prof L Gelman (Suite 6)		
12:50	Lunch		
	9A- Suite 7	9B- Suite 1	9C- Suite 2
	TITLE: General condition monitoring NAME: Dr T Patel	Vibration analysis, diagnostics and prognostics – case studies from all industries Prof A Hope	TITLE: Condition monitoring of rotating machinery NAME: Dr F Balitsky
13:40	[323] Impact of surface finish and target size for testing & monitoring using cameras <i>P W Waterfall, Bristol University Systems Centre, M C L Read-Jennings , Imetrum, UK , Dr F Scenini , University of Manchester, N J McCormick , National Physical Laboratory</i>	[324] Online Vibration Monitoring – Critical Fan Case Studies. <i>D Whittle, RMS Ltd</i>	[325] The analysis of the bending at HP/IP rotor of a 660MW Supercritical steam turbine generator unit <i>J Chen & D Jiang, Tsinghua University</i>
14:05	[327] Improve availability and reduce maintenance spend whilst maintaining safety using Asset Integrity Management and Risk Based Inspection. <i>A Knight, BEng CEng MIMechE, Frazer-Nash Consultancy</i>	[328] Case study- Calender mill trouble shooting <i>S Mills, AV Technology</i>	[329] Investigating the causes of failure body of mv electromotor in centrifuge equipment <i>M Hamidreza¹ E Heydari² H Sarabeigi³ F Sadaghiani⁴ Special Petrochemical Economical Zone</i>
14:25	[331] Troubles and condition monitoring of Korean Express Railway(KTX) <i>Y –S Choi, Singkyunkwan University</i>	[332] Three case study papers for the VA Working Group session. <i>H Harper</i>	[333] Modelling for monitoring the condition of vibrating machinery <i>V D Anakhin & T V Anakhin, Ulan-Ude</i>

14:45 Conference Closing Ceremony (Suite 7)