

CONGRESS AND EXHIBITION PROGRAMME

Please note – Wi-Fi is available throughout the conference centre and is complimentary.

Guests should select Wi-Fi network: **hhonours**, log on to landing page and type in access code: **ewshm2018** for free of charge access

Supporting Organisation



10-13 July 2018
Hilton Manchester
Deansgate
Manchester, UK



9th European Workshop on

STRUCTURAL HEALTH
MONITORING



Monday 9 July 2018

16.00-19.00	Registration – <i>Hotel Foyer</i>
18.00-19.00	Welcome Drink

Tuesday 10 July 2018

08.00 onwards	Registration – <i>Hotel Foyer</i>
08.30-09.00	Opening Ceremony – <i>Professor C Soutis and Dr M Gresil</i> <i>Chair: To be confirmed</i> <i>Room A: Deansgate Suites 2 & 3</i>
09.00-09.45	Keynote Lecture – Title to be confirmed <i>Professor Fu Kuo Chang, Stanford University</i> <i>Chair: To be confirmed</i> <i>Room A: Deansgate Suites 2 & 3</i>
09.45-10.30	Keynote Lecture – Title to be confirmed <i>Speaker to be confirmed</i> <i>Chair: To be confirmed</i> <i>Room A: Deansgate Suites 2 & 3</i>
10.30-11.00	Tea, Coffee and Exhibition

	Aerospace structures 1 <i>Chairs: Oscar D'almeida and Benjamin Eckstein Room A: Deansgate Suites 2 & 3</i>	Guided waves 1 <i>Chairs: Paul Fromme and Maria Moix-Bonnet Room B: Deansgate Suite 1</i>	Structured session: Probabilistic SHM 1 <i>Chairs: Branko Glisic and Daniele Zonta Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	Electromagnetic SHM <i>Chairs: Gareth Pierce and Frederic Cegla Room D: Deansgate Meeting Rooms 8 & 9</i>	Bridge monitoring 1 <i>Chairs: Luis Eduardo Mujica Delgado and Vincent Lecam Room E: Deansgate Boardroom</i>	Wireless SHM system <i>Chairs: Michael Hinderdael and Byeongjin Park Room F: Deansgate Meeting Room 1</i>
12.25-13.45	Lunch – Three course lunch with wine					
	Aerospace structures 2 <i>Chairs: Nobuo Takeda and Kathryn Atherton Room A: Deansgate Suites 2 & 3</i>	Guided waves 2 <i>Chairs: Victor Giurgiutiu and Francis Rose Room B: Deansgate Suite 1</i>	Structured session: Probabilistic SHM 2 <i>Chairs: Branko Glisic and Daniele Zonta Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	Machine learning and pattern recognition 1 <i>Chairs: Elizabeth Cross and Emanuel Ramasso Room D: Deansgate Suite Meeting Rooms 8 & 9</i>	Bridge monitoring 2 <i>Chairs: Hoon Sohn and Shenfang Yuan Room E: Deansgate Boardroom</i>	SHM for Railroads <i>Chairs: Claus-Peter Fritzen and Angel Torres-Perez Room F: Deansgate Meeting Room 1</i>
15.50-16.10	Tea, Coffee and Exhibition					
	Aerospace structures 3 <i>Chairs: Christian Boller and Antonio Fernandez-Lopez Room A: Deansgate Suites 2 & 3</i>	Guided waves 3 <i>Chairs: Wieslaw Ostachowicz and Francis Rose Room B: Deansgate Suite 1</i>	Structured session: Probabilistic SHM 3 <i>Chairs: Michael Todd and Daniele Zonta Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	SHM applications <i>Chairs: Alfredo Guemes and Constantinos Soutis Room D: Deansgate Suite Meeting Rooms 8 & 9</i>	Structured Session: Vibration-based damage assessment for civil engineering structures <i>Chairs: Zhongqing Su and Gerardo Aranguren Room E: Deansgate Boardroom</i>	Structured Session: Strain based SHM <i>Chairs: Branko Glisic and Marcus Perry Room F: Deansgate Meeting Room 1</i>
18.00-22.00	Welcome Buffet – Museum of Science & Industry (MOSI) – Buffet and wine					

Wednesday 11 July 2018

08.00 onwards	Registration – Hotel Foyer					
08.30-09.15	Keynote Lecture: Title to be confirmed, <i>Professor Keith Worden, Sheffield University</i> <i>Chair: To be confirmed</i> <i>Room A: Deansgate Suites 2 & 3</i>					
09.15-10.00	Keynote Lecture: SHM – OEM supplier challenges and perspective, <i>Oscar D’Almeida and Rafik Hadjria, SAFRAN</i> <i>Chair: To be confirmed</i> <i>Room A: Deansgate Suites 2 & 3</i>					
10.00-10.20	Tea, Coffee and Exhibition					
	Multifunctional materials and composite structures 1 <i>Chairs: FK Chang and Zahra Sharif-Khodaei</i> <i>Room A: Deansgate Suites 2 & 3</i>	SHM for civil engineering 1 <i>Chairs: Alessandro Antonini and Dimitris Saravanos</i> <i>Room B: Deansgate Suite 1</i>	Non-linear acoustics <i>Chairs: Francesco Ciampa and Ribelito Torregosa</i> <i>Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	Signal processing and imaging 1 <i>Chairs: Paul Fromme and Matthew Pearson</i> <i>Room D: Deansgate Meeting Rooms 8 & 9</i>	Structured session: Case studies and theoretical developments in quantifying the value of SHM <i>Chairs: Piotr Omenzetter and Sebastian Thons</i> <i>Room E: Deansgate Boardroom</i>	
12.25-13.45	Lunch – Three course lunch with wine					
	Multifunctional materials and composite structures 2 <i>Chairs: Jens Prager and Yuris Dzenis</i> <i>Room A: Deansgate Suites 2 & 3</i>	SHM for civil engineering 2 <i>Chairs: Keith Worden and Neil Hoult</i> <i>Room B: Deansgate Suite 1</i>	Acoustic emission 1 <i>Chairs: Michelle Salvia and Marcias Martinez</i> <i>Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	Signal processing and Imaging 2 <i>Chairs: Claudio Sbarufatti and Eduardo Barrera</i> <i>Room D: Deansgate Suite Meeting Rooms 8 & 9</i>	Nanosensors for SHM <i>Chairs: Zhongqing Su and Matthieu Gresil</i> <i>Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	SHM technology for wind turbines 1 <i>Chairs: Eleni Chatzi and Abhishek Kundu</i> <i>Room E: Deansgate Boardroom</i>
15.50-16.10	Tea, Coffee and Exhibition					

	Multifunctional materials and composite structures 3 <i>Chairs: Olivier Mesnil and Rafik Hadjria Room A: Deansgate Suites 2 & 3</i>	Structured session: Monitoring and assessment of civil structure <i>Chairs: Eleni Chatzi and Ying Wang Room B: Deansgate Suite 1</i>	Modelling and simulation for SHM <i>Chairs: Constantinos Soutis and Bastien Chapuis Room F: Deansgate Meeting Room 1</i>	Machine learning and pattern recognition 2 <i>Chairs: Emmanuel Ramasso and Irwanda Laory Room D: Deansgate Meeting Rooms 8 & 9</i>	Sensors <i>Chairs: Vincent Le Cam and Stefano Mariani Room E: Deansgate Boardroom</i>	
18.30-22.00	National Football Museum tour including a three-course dinner with wine (invitation only)					

Thursday 12 July 2018

08.30 onwards	Registration – Hotel Foyer				
09.00-10.00	Keynote Lecture – TBC <i>Professor Cinzia Casiraghi, University of Manchester</i> <i>Chair: To be confirmed</i> <i>Room A: Deansgate Suites 2 & 3</i>				
10.00-10.20	Tea, Coffee and Exhibition				
	Optical fibre for SHM 1 <i>Chairs: Moshe Tur and Francesco Ciampa</i> <i>Room A: Deansgate Suites 2 & 3</i>	Damage detection using vibration measurements 1 <i>Chairs: Yavuz Kaya and Michal Dziendzikowski</i> <i>Room B: Deansgate Suite 1</i>	Signal processing and imaging 3 <i>Chairs: Dmitrii Legatiuk and John Sakellariou</i> <i>Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	Ultrasonics 1 <i>Chairs: Philippe Blanloeuil and Nazih Mechbal</i> <i>Room D: Deansgate Suite Meeting Rooms 8 & 9</i>	SHM technology for wind turbines 2 <i>Chairs: Marc Rebillat and Nathalie Saguin</i> <i>Room E: Deansgate Boardroom</i>
12.25-13.45	Lunch – Three course lunch with wine				
	Optical fibre for SHM 2 <i>Chairs: Alfredo Guemes and Christophe Monsberger</i> <i>Room A: Deansgate Suites 2 & 3</i>	SHM for civil engineering 3 <i>Chairs: Marc Gutermann and Donghyeon Ryu</i> <i>Room B: Deansgate Suite 1</i>	Acoustic emission 2 <i>Chairs: Michael Sheerer and Francesc Pozo</i> <i>Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	Ultrasonics 2 <i>Chairs: Peter Cawley and Lei Qiu</i> <i>Room D: Deansgate Suite Meeting Rooms 8 & 9</i>	Laser methods 1 <i>Chairs: Chun Wang and Nathan Salowitz</i> <i>Room E: Deansgate Boardroom</i>
15.50-16.30	Tea, Coffee, Exhibition and Poster Session				
16.30-17.30	SHM in action <i>Chair: Christian Boller</i> <i>Room: TBC</i>				
	DatAcoustics for Intelligent Structures <i>Jochen Moll, Goethe University Frankfurt am Main, Germany</i>				
	SmartScan Aero Mini FBG interrogator <i>Jose Maria Alvarez, Smart Fibres Ltd</i>				
	A demonstration of BridgeWatch® and Smart Asset Management (SAMS), using big data analytics to enable real-time and automatic reporting <i>A Scullion, James Fisher Testing Services</i>				
18.00-22.00	Tour of Manchester United football stadium and museum at Old Trafford followed by the Gala Dinner				

Friday 13 July 2018

08.30 onwards	Registration – Hotel Foyer				
09.00-10.00	Keynote Lecture: Title to be confirmed <i>Speaker to be confirmed</i> <i>Chair: To be confirmed</i> <i>Room A: Deansgate Suites 2 & 3</i>				
10.00-10.20	Tea, Coffee and Exhibition				
	Optical fibre for SHM 3 <i>Chairs: Moshe Tur and Marcias Martinez</i> <i>Room A: Deansgate Suites 2 & 3</i>	Damage detection using vibration measurements 2 <i>Chairs: Rolands Kromanis and Lin Yue</i> <i>Room B: Deansgate Suite 1</i>	SHM for civil engineering 4 <i>Chairs: Yiqing Ni and Erdal Safak</i> <i>Room C: Deansgate Meeting Rooms 2, 3 & 4</i>	Vibration analysis and electromechanical impedance <i>Chairs: Martin Schargel and Jochen Moll</i> <i>Room D: Deansgate Meeting Rooms 8 & 9</i>	Laser methods 2 <i>Chairs: Wiesław Ostachowicz and Zahra Sharif-Khodaei</i> <i>Room E: Deansgate Boardroom</i>
12.00-12.20	Closing ceremony				
12.25-14.00	Lunch – Three course lunch with wine				
14.00-17.00	Visit to the University of Manchester (National Graphene Institute, X-Ray Henry Moseley Lab, Northwest Composite Centre)				