

The 10th International Workshop on Structural Health Monitoring - Stanford University - 2015

TECHNICAL PROGRAM

Overview

Monday, August 31 st		
15:00 – 17:00	Early Registration	Location: Crowne Plaza Hotel Cabana, Palo Alto
17:00 – 19:00	Reception	Location: Crowne Plaza Hotel Cabana, Palo Alto

Tuesday, September 1 st												
	Hewlett 101	Hewlett 102	Hewlett 103	380-380C	380-380D	380-380F	380-380W	380-380X	380-380Y	420-040	420-041	
07:00 – 08:00	Registration										Light Continental Breakfast	Location: The Oval
08:00 – 08:30	Opening Remarks		Speaker: James Plummer (Dean of School of Engineering) Charbel Farhat (Chair of Aero&Astro Department)				Chair: F.-K. Chang Co-chair: F. Kopsaltopoulos			Location: Hewlett Auditorium (200)		
08:10 – 09:10	Keynote Presentations Chair: H. Speckmann	08:10 – 08:40	Speaker: Mr. Mark Davis, Chief Engineer, Sikorsky Aircraft						Location: Hewlett Auditorium (200)			
		08:40 – 09:10	Speaker: Dr. Jean Botti, CTO, Airbus									
09:10 – 10:10	Aerospace Round Table Discussion: Paul Swindell (FAA), Eric Lindgren (AFRL), Matthias Buderath (Airbus), Mark Davis (Sikorsky), Chris Davis (Boeing)										Location: Hewlett Auditorium (200)	
10:10 – 10:30	Coffee Break										Location: The Oval	
10:30 – 12:10	General Session Civil Structures I	SPECIAL SESSION SHM Technology in Wind Turbines I	General Session Environmental Effects I	General Session Signal Processing I	General Session Sensors/Actuators I	SPECIAL SESSION Multifunctional Materials I	SPECIAL SESSION Embedded Sensors for Detecting Damage in Composites I	SPECIAL SESSION Recent Advances in Ultrasonic and Acoustic Emission Techniques for SHM/NDE I	SPECIAL SESSION Probabilistic SHM I	SPECIAL SESSION SHM Certification for Airborne Applications	SPECIAL SESSION Guided Waves in Structures for SHM I	
12:10 – 13:30	Lunch at the Oval										Location: The Oval	
13:30 – 15:10	General Session Civil Structures II	SPECIAL SESSION SHM Technology in Wind Turbines II	General Session Environmental Effects II	General Session Signal Processing II	General Session Sensors/Actuators II	SPECIAL SESSION Multifunctional Materials II	SPECIAL SESSION Embedded Sensors for Detecting Damage in Composites II	SPECIAL SESSION Recent Advances in Ultrasonic and Acoustic Emission Techniques for SHM/NDE II	SPECIAL SESSION Probabilistic SHM II	SPECIAL SESSION Reliability of SHM for Aerospace	SPECIAL SESSION Guided Waves in Structures for SHM II	
15:10 – 15:30	Coffee Break										Location: The Oval	
15:30 – 17:30	SHM in Action						Chair: Christian Boller Co-chair: Branko Glisic			Location: Hewlett Auditorium (200)		
19:00 – 22:00	BBQ/Welcome Night										Location: Frost Amphitheater	

Wednesday, September 2 nd											
	Hewlett 201	Hewlett 102	Hewlett 103	380-380C	380-380D	380-380F	380-380W	380-380X	380-380Y	420-040	420-041
08:10 ~ 10:10	Keynote Presentations Chair: A. Guemes	08:10 ~ 08:40	Speaker: Dr. Massimo Ruzzene, Program Director, NSF						Location: Hewlett Auditorium (200)		
		08:40 ~ 09:10	Speaker: Dr. Naveen Hussain, VP of Aeromechanics Technology, Boeing R&T								
		09:10 ~ 09:40	Speaker: Prof. Yiqing Ni, Hong Kong Polytechnic University								
		09:40 ~ 10:10	Speaker: Mr. James Buczkowski, Director of Research & Advanced Engineering, Ford Motor Company								
10:10 ~ 10:30	Coffee Break Location: The Oval										
10:30 ~ 12:10	General Session Civil Structures III	SPECIAL SESSION SHM Technology in Wind Turbines III	SPECIAL SESSION Monitoring and Health Management of High-speed Railways I	General Session Signal Processing III	General Session Sensors/Actuators III	SPECIAL SESSION Civil SHM Standardisation; Progress and Status 2015 I	SPECIAL SESSION Embedded Sensors for Detecting Damage in Composites III	SPECIAL SESSION Recent Advances in Ultrasonic and Acoustic Emission Techniques for SHM/NDE III	SPECIAL SESSION Probabilistic SHM III	General Session Aerospace Structures I	SPECIAL SESSION Guided Waves in Structures for SHM III
12:10 ~ 14:00	Lunch at the Oval Location: The Oval										
12:10 ~ 14:00	Poster Sessions: Q & A Location: The Oval										
12:10 ~ 14:00	IJSHM Board Meeting Location: TBD										
14:00 ~ 15:40	General Session Civil Structures IV	General Session Bondline Monitoring	SPECIAL SESSION Monitoring and Health Management of High-speed Railways II	SPECIAL SESSION Very dense arrays of sensors: 1D, 2D, and 3D distributed and quasi-distributed sensors I	General Session Bio-inspired Sensors and Networks, Smart Sensor Technologies	SPECIAL SESSION Civil SHM Standardisation; Progress and Status 2015 II	General Session Diagnostics I	SPECIAL SESSION Recent Advances in Ultrasonic and Acoustic Emission Techniques for SHM/NDE IV	SPECIAL SESSION Probabilistic SHM IV	General Session Aerospace Structures II	SPECIAL SESSION Guided Waves in Structures for SHM IV
15:40 ~ 16:00	Coffee Break Location: The Oval										
16:00 ~ 17:30	Panel Discussion: SHM Basic Research Roadmap (sponsored by NSF) Massimo Ruzzene (NSF), David Stargel (AFOSR), Ignacio Perez (ONR), Hoda Azari (DoE), Dan Inman (University of Michigan), Anne Kiremidjian (Stanford University) Chair: M. Ruzzene Location: Hewlett Auditorium (200)										
19:00 ~ 22:00	Banquet and Award Night Location: Crowne Plaza										

Thursday, September 3 rd											
	Hewlett 201	Hewlett 102	Hewlett 103	380-380C	380-380D	380-380F	380-380W	380-380X	380-380Y	420-040	420-041
08:10 ~ 09:40	Keynote Presentations Chair: S. Galea	08:10 ~ 08:40	Speaker: Mr. Mick Maher, Program Director, DARPA						Location: Hewlett Auditorium (200)		
		08:40 ~ 09:10	Speaker: Mr. Dy Le, Chief of Mechanics Division, ARL								
		09:10 ~ 09:40	Speaker: Prof. Soh Chee Kiong, Nanyang Technology University, Singapore								
09:40 ~ 10:00	Coffee Break Location: The Oval										
10:00 ~ 12:00	General Session System Identification I	General Session Modelling and Simulation	General Session Electromechanical Impedance Based Methods	SPECIAL SESSION Very dense arrays of sensors: 1D, 2D, and 3D distributed and quasi-distributed sensors II	SPECIAL SESSION Technologies for Health-conscious Aircraft and Maneuver	SPECIAL SESSION Acoustic Emission in Aerospace Applications I	General Session Diagnostics II	SPECIAL SESSION SHM within Harsh Extreme Environments I	SPECIAL SESSION Probabilistic SHM V	General Session Vibration-based SHM I	SPECIAL SESSION Guided Waves in Structures for SHM V
12:00 ~ 13:30	Lunch Box Mini Forum: V&V/Standardization for Civil Infrastructure Chair: H. Wenzel Location: Hewlett Auditorium (200)										
12:00 ~ 13:30	Faculty / Student Panel Chair: C. Farrar Location: Hewlett 201										
12:00 ~ 13:30	Lunch at the Oval Location: The Oval										
13:30 ~ 15:10	General Session System Identification II	General Session Civil Structures V	SPECIAL SESSION Monitoring and Health Management of High-speed Railways III	SPECIAL SESSION Very dense arrays of sensors: 1D, 2D, and 3D distributed and quasi-distributed sensors III	General Session SHM-based Structural Design	SPECIAL SESSION Acoustic Emission in Aerospace Applications II	General Session Diagnostics III	SPECIAL SESSION SHM within Harsh Extreme Environments II	SPECIAL SESSION Probabilistic SHM VI	General Session Vibration-based SHM II	SPECIAL SESSION Guided Waves in Structures for SHM VI
15:10 ~ 15:30	Coffee Break Location: The Oval										
15:30 ~ 17:00	Panel Discussion: SHM Emerging Applications Roadmap (sponsored by NSF) John Nyholt (BP), James Buczkowski (Ford), Les Lee (AFOSR), Akira Kuraishi (Kawasaki), Fabio Casciati (University of Pavia) Chair: TBD Location: Hewlett Auditorium (200)										
17:00 ~ 17:30	Workshop Adjourn Location: Hewlett Auditorium (200)										