

# TECHNICAL PROGRAM

## Overview

Monday, September 9 <sup>th</sup>										
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 10 <sup>th</sup>										
	Room: HC 200-002	Room: HC 200-030	Room: HC 200-034	Room: HC 200-203	Room: HC 200-205	Room: HC 200-303	Room: HC 200-305	Room: ART 2	Room: ART 4	
07:00 – 08:00	Registration									Location: Dohrmann Grove
08:00 – 08:15	Light Continental Breakfast									Location: Memorial Auditorium
	Opening Remarks									
08:15 – 09:45	Keynote Presentations									Location: Memorial Auditorium
09:45 – 10:05	Coffee Break									Location: Dohrmann Grove
10:05 – 11:45	Advanced Diagnostics for Damage Assessment	Operational Effects Consideration in SHM	Sensor Network Optimization	Modelling / Simulation	SHM Technology in Wind Turbines; Chair: W. Ostachowicz (PAS)	Smart Sensors/Actuators and Energy Harvesting	Mechanical systems / Offshore / Marine Structures	Opt.fiber sensing based SHM; Chair: N. Takeda (U of Tokyo)	Prognostics and Data Mining for Health Management	
11:45 – 13:45	Poster Sessions: Q & A									Location: Dohrmann Grove
12:00 – 13:30	IJSHM Board Meeting									Location: The Oval
12:00 – 13:30	Lunch at the Oval									Location: The Oval
13:45 – 15:45	Advanced Diagnostics for Damage Assessment	Autonomous Sensing: Monitoring to Control	Source Localization; Chair: T. Kundu (U. of Arizona)	Modelling / Simulation	SHM Technology in Wind Turbines; Chair: W. Ostachowicz (PAS)	Smart Sensors/Actuators and Energy Harvesting	Bioinspired & biomimetic materials, sensors & mfg; Chair: B. Yu (CWRU)	Opt.fiber sensing based SHM; Chair: N. Takeda (U of Tokyo)	Novel SHM/NDE tech. for Materials; Chair: S. Banerjee (U. S. Carolina)	
15:45 – 18:00	Coffee Break									Location: Dohrmann Grove
18:30 – 22:00	Welcome Night: San Francisco Bay Cruise									Location: San Francisco Pier 3
Wednesday, September 11 <sup>th</sup>										
	Room: HC 200-002	Room: HC 200-030	Room: HC 200-034	Room: HC 200-203	Room: HC 200-205	Room: HC 200-303	Room: HC 200-305	Room: ART 2	Room: ART 4	
08:30 – 10:00	Keynote Presentations									Location: Memorial Auditorium
10:00 – 10:15	Coffee Break									Location: Dohrmann Grove
10:15 – 12:15	Advanced Diagnostics for Damage Assessment	SHM for rotorcraft; (Chair: TBD) + Aerospace Structures: Field Evaluation and Validation	Civil Structures: Field Evaluation and Validation	Advanced Monitoring for Loads/Environments	SHM Technology in Wind Turbines; Chair: W. Ostachowicz (PAS)	Smart Sensors/Actuators and Energy Harvesting	SHM of Space Systems; Chair: A. Zagari (New Mexico Tech) and .....	Monitoring on Manufacturing; Chair: M S Tsai (AIM-HI, NCCU, Taiwan)	Mini Symposia + Material state awareness; Anindya Ghoshal	
12:15 – 13:30	AISC Press Conference									Location: Dohrmann Grove
12:15 – 13:30	Lunch at the Oval									Location: The Oval
13:30 – 15:10	Advanced Diagnostics for Damage Assessment	Standards and V&V Aerospace; Chair: Holger Speckmann (Airbus)	Civil Structures: Field Evaluation and Validation	POD and reliability of SHM for aerospace structures; Chair: J B Ihn (Boeing)	Data Interpretation and Modeling for SHM; Chair: H. Li (HIT)	Impairment Detection; Chair: G. T. Fry (Texas A&M U)	Guided Waves in Structures for SHM; Chair: W. Ostachowicz (PAS)	Next-Gen Sensing Sys. for SHM; Chair: Y. Wang (GIT), K. Loh (UC Davis)	Novel SHM/NDE tech. for Materials; Chair: S. Banerjee (U. S. Carolina)	
15:10 – 15:30	Coffee Break									Location: Dohrmann Grove
15:30 – 17:00	SHM in Action									Chair: TBA
18:30 – 22:00	Networking and Awards Night									Location: Terman Park
Thursday, September 12 <sup>th</sup>										
	Room: HC 200-002	Room: HC 200-030	Room: HC 200-034	Room: HC 200-203	Room: HC 200-205	Room: HC 200-303	Room: HC 200-305	Room: ART 2	Room: ART 4	
08:30 – 10:00	Keynote Presentations									Location: Annenberg Auditorium
10:00 – 10:15	Coffee Break									Location: Dohrmann Grove
10:15 – 12:15	Statistical Methods for SHM; Chair: D. Zonta (U. of Trento)	Aerospace Structures: Laboratory Demonstration	Civil Structures: Laboratory Demonstration.	Novel Signal Processing Techniques	Sensing Strategy for Wave-based SHM; Chair: Z. Su (HKPU)	SHM-based Structural Design/Intelligent Structures	Guided Waves in Structures for SHM; Chair: W. Ostachowicz (PAS)	SHM/NDE for Civil Infrastructures; Chair: S. Salamone (U. of Buffalo)	SHM for Harsh Environments; Chair: D. Senesky (Stanford U.)	
12:15 – 13:30	Lunch box Mini forum : SHM codes +									Chair: TBD
12:15 – 13:30	Faculty / Student Panel									Chair: Charles Farrar
12:15 – 13:30	Lunch at the Oval									Location: The Oval
13:30 – 15:30	Statistical Methods for SHM; Chair: D. Zonta (U. of Trento)	Aerospace Structures: Laboratory Demonstration	Civil Structures: Laboratory Demonstration.	Novel Signal Processing Techniques	Sensing Strategy for Wave-based SHM; Chair: Z. Su (HKPU)	SHM-based Structural Design/Intelligent Structures	Guided Waves in Structures for SHM; Chair: W. Ostachowicz (PAS)	SHM/NDE for Civil Infrastructures; Chair: S. Salamone (U. of Buffalo)	Very Dense Arrays of Sensors; Chair: B. Glisic (Princeton)	
15:30 – 15:45	Coffee Break									Location: Dohrmann Grove
15:45 – 17:00	Panel Discussion : SHM codes + Standards									Chair: TBA