

<b>Monday, 9 July 2007</b>	
8:30 – 9:00	<b>Conference Opening Ceremony</b>
<b>Keynote lectures</b>	
<b>Chairman: Holnicki-Szulc J.</b>	
9:00 – 9:45	Preumont A., de Marneffe B., Rordigues G., Nasser H. and Deraemaeker A.: <i>Issues in Modelling, Isolation, and Shape Control of Precision Structures for Space and Other Applications</i>
9:45 – 10:30	Tobushi H.: <i>Thermomechanical Properties of Shape-Memory Alloy and Polymer and their Composite</i>
10:30 – 11:00	<b>Coffee</b>
<b>Session 1.1. Sensors and Structural Identification (S&amp;SI)</b>	
<b>Chairman: Boller C.</b>	
11:00 – 11:20	Bojko T., Bednarz J. and Lisowski W.: <i>Development of Wireless Sensors for Experimental Modal Analysis of Civil Engineering Structures</i>
11:20 – 11:40	Deraemaeker A., Benelechi S., Benjeddou A. and Preumont A.: <i>Analytical and Numerical Computation of Homogenized Properties of MFCS: Application to a Composite Boom with MFC Actuators and Sensors</i>
11:40 – 12:00	Hegde G. and Sinha R.: <i>A Technique for Locating Sensors on Buildings for Complete Modal Identification from Limited Number of Response Measurements</i>
12:00 – 12:20	Lenke P., Krebber K., Muthig M., Weigand F. and Thiele E.: <i>Distributed Strain Measurement Using Polymer Optical Fiber Integrated in Technical Textile to Detect Displacement of Soil</i>
12:20 – 12:40	Lokteva I. A., Kalach A. V. and Zyablov A. N.: <i>Piezosensor Application to the Analysis of Amino Acids in Solutions</i>
12:40 – 13:00	Nöther N., Wosniok A., Krebber K. and Thiele E.: <i>Dike Monitoring Using Fiber Sensor-based Geosynthetics</i>
<b>Session 1.2. Active Materials and Actuators (AM&amp;A)</b>	
<b>Chairman: Inman D.</b>	
11:00 – 11:20	Boczkowska A. and Awietjan S.F.: <i>Urethane Magnetorheological Elastomers Microstructure and Properties</i>
11:20 – 11:40	Dienerowitz F. and Seemann W.: <i>Proposing a Pretwisted Bending Actuator</i>
11:40 – 12:00	Gudmundsson K. H., Jonsdottir F., Palsson H. and Karlsson S. G.: <i>Optimization of a Magneto-rheological Rotary Brake</i>
12:00 – 12:20	Hilton H. H., Preumont A., Avraam M., Lee D. H. and Dave E. V.: <i>Electro/magneto-viscoelasticity: Characterization, the Correspondence Principle, Material Property Optimizations and Structural Control Issues</i>
12:20 – 12:40	Mazlan S. A., Ekreem N. B. and Olabi A. G.: <i>Mechanical Properties of Magnetorheological Fluids under Compression Mode</i>

12:40 – 13:00	Wroblewski R., Leonowicz M. and Kaszuwara W.: <i>Effect of Alloy Composition and Heat Treatment on the Structure and Phase Transition Temperatures in Ni-Mn-Ga Alloys</i>
13:00 – 14:00	<b>Lunch</b>
<b>Keynote lecture</b>	
<b>Chairman: Preumont A.</b>	
14:00 – 14:45	Lee I.: <i>Static and Dynamic Behaviors of Smart and Aerospace Structures</i>
<b>Session 2.1. Vibration and Shape Control (V&amp;SC)</b>	
<b>Chairman: Staszewski W.</b>	
14:45 – 15:05	Kauba M. and Mayer D.: <i>Implementation of a Decentralized Vibration Control System Based on Positive Position Feedback</i>
15:05 – 15:25	Ario I. and Pawlowski P.: <i>Elastic Instability for Pantographic Folding Structures Based on Multi-folding Microstructure Theory</i>
15:25 – 15:45	Bochenski M., Warminski J. and Cartmell M. P.: <i>Analytical and Experimental Investigations of Autoparametric Beam Structure</i>
<b>Session 2.2. Composite Modelling (CM)</b>	
<b>Chairman: Uhl T.</b>	
14:45 – 15:05	Lammering R. and Yang F.: <i>A Four – Node Finite Element for Piezoelectric Shell Structures in Convective Coordinates</i>
15:05 – 15:25	Daghia F., Inman D. J., Ubertini F. and Viola E.: <i>Experimental Testing of a Shape Memory Alloy Hybrid Composite Plate for Active Shape Control</i>
15:25 – 15:45	Trindade M. A. and Benjeddou A.: <i>On the Evaluation of Effective Electromechanical Coupling Coefficients for Structures with Piezoelectric Elements</i>
15:45 – 16:15	<b>Coffee</b>

<b>Tuesday, 10 July 2007</b>	
<b>Keynote lectures</b>	
<b>Chairman: Mota Soares C.</b>	
9:00 – 9:45	Inman D.J. and Erturk A.: <i>Energy Harvesting Using Smart Materials</i>
9:45 – 10:30	Giurgiutiu V.: <i>Damage Assessment of Structures an Air Force Office of Scientific Research Structural Mechanics Perspective</i>
10:30 – 11:00	<b>Coffee</b>
<b>Session 1.1. Structural Health Monitoring and Signal Processing (SHM&amp;SP)</b>	
<b>Chairman: Farrar C.</b>	
11:00 – 11:20	Criado A., Pérez Melguizo C., Peña Macías J., Martinez-Oña R. and Kawiecki G.: <i>Low Frequency, Built-in Phased Array System for Stiffened Composite Structures Monitoring</i>
11:20 – 11:40	Lämsä V. and Kullaa J.: <i>Dynamical Extension of Nonlinear Factor Analysis in Structural Health Monitoring to Remove Environmental Effects</i>
11:40 – 12:00	Mita A., Iwasawa O. and Ogawa S.: <i>Smart Sensor Networks with Automatic Configuration Mechanism for Structural Health Monitoring Systems</i>
12:00 – 12:20	Mújica L. E. , Rodellar J. and Vehí J.: <i>A Case Based Reasoning Approach for Damage Assessment in Smart Structures</i>
12:20 – 12:40	Mahzan S., Staszewski W. J. and Worden K.: <i>Comparative Study of Impact Damage Detection in Aerospace Structures</i>
12:40 – 13:00	Sekula K. and Holnicki-Szulc J.: <i>Comparison of Real Time Impact Load Identification Procedures</i>
<b>Session 1.2. Active Materials and Actuators (AM&amp;A)</b>	
<b>Chairman: Tobushi H.</b>	
11:00 – 11:20	Mikułowski G. and Batterbee D. C.: <i>Flux Density Variation in Magnetorheological Fluid Devices</i>
11:20 – 11:40	Oscarsson M. and Endahl G.: <i>Energy Consistency in De-hysterisation of Magnetostrictive Material Strain and Magnetisation Data</i>
11:40 – 12:00	Patrusheva T. N., Pryanikov A. and Kholkin A.: <i>Extraction-pyrolysis Technique for Smart Glass and Fibers Preparation</i>
12:00 – 12:20	Pirge G. and Altintas S.: <i>A Study on the Microstructure of NiMnGa Magnetic Shape Memory Alloys</i>
12:20 – 12:40	Szurgott P., Boczkowska A., Kurzydłowski K. J. and Niezgodna T.: <i>Numerical Strength Analysis of Magnetic Fields Interaction with Elastomer Materials Containing Iron Particles</i>
12:40 – 13:00	Zapateiro M., Luo N. S., Taylor E. and Dyke S. J.: <i>Modeling and Identification of a Class of MR Fluid Foam Dampers</i>
13:00 – 14:00	<b>Lunch</b>

<b>Keynote lecture</b>	
<b>Chairman: Preumont A.</b>	
14:00 – 14:45	Boller C., Kuo C. M. and Qin N.: <i>Morphing Aircraft Options at Micro Scale Based on Smart Structural Solutions</i>
<b>Session 2.1. Structural Health Monitoring and Signal Processing (SHM&amp;SP)</b>	
<b>Chairman: Hilton H. H.</b>	
14:45 – 15:05	Wilde K., Rucka M., Hirsz M. and Dudek M.: <i>Application of Neural Network for Multilevel SHM System in Plates</i>
15:05 – 15:25	Williams S. M.: <i>An Experiment to Show the Feasibility of Condition Monitoring above Ground Storage Tank Walls by Modal Testing with Piezoelectric Transducers</i>
15:25 – 15:45	Marinova D.: <i>Robust Approaches to Active Shape Regulating of Composite Plates</i>
<b>Session 2.2. Active Materials and Actuators (AM&amp;A)</b>	
<b>Chairman: Deraemaeker A.</b>	
14:45 – 15:05	Heinonen J., Vessonen I., Klinge P., Lindroos T.: <i>Novel Applications for Semi-active Vibration Control Based on SMA Actuators</i>
15:05 – 15:25	Chandrashekar G., Kaczmarczyk S., Maguire M. and Smith R.: <i>Identification of the Modal Parameters of a Composite Aramid Suspension System</i>
15:25 – 15:45	Zak A. J.: <i>A New 3D Constitutive Model of SMA Behaviour and its Applications</i>
15:45 – 16:15	<b>Coffee</b>
16:15 – 17:00	<b>Panel Meeting of Conference Scientific Committee</b>

<b>Wednesday, 11 July 2007</b>	
<b>Keynote lectures</b>	
<b>Chairman: Williams S. M.</b>	
9:00 – 9:45	Farrar C. R.: <i>Challenges for Transitioning Structural Health Monitoring from Research to Practice</i>
9:45 – 10:30	Duan Z. D. and Liu Y.: <i>Updating of Finite Element Model in Considering Mode Errors with Fuzzy Theory</i>
10:30 – 11:00	<b>Coffee</b>
<b>Session 1.1. Vibration and Shape Control (V&amp;SC)</b>	
<b>Chairman: Giurgiutiu V.</b>	
11:00 – 11:20	Yamada K., Matsuhisa H., Utsuno H. and Park J. G.: <i>Equivalent Mechanical and Electrical Models for Active and Passive Vibration Control Systems Using Piezoelectric Elements</i>
11:20 – 11:40	Elias T. C. and da Silva E. P.: <i>Numerical Simulation of the Dynamic Behavior of a Pseudoelastic Vibration Absorber</i>
11:40 – 12:00	Larbi W., Deü J.-F. and Ohayon R.: <i>Vibroacoustic Finite Element Formulation for Active-passive Reduction of Sound and Vibration</i>
12:00 – 12:20	Liu Y. I., Matsuhisa H. and Utsuno H.: <i>Two Degree-of-freedom Vibration Isolation System with Damping and Stiffness on-off Control</i>
12:20 – 12:40	Majewska K. M., Zak A. J. and Ostachowicz W. M.: <i>A Concept of Using MSM Actuators for Forced Vibration Control of a Rotor</i>
12:40 – 13:00	Moutinho C., Cunha Á. and Caetano E.: <i>Implementation of an Active Mass Damper to Control Vibrations in a “Lively” Footbridge</i>
<b>Session 1.2. Damage and Impact Detection (D&amp;ID)</b>	
<b>Chairman: Duan Z. D.</b>	
11:00 – 11:20	von Ende S. and Lammering R.: <i>Modelling and Simulation of Lamb-wave Generation with Piezoelectric Plates</i>
11:20 – 11:40	Grabowska J., Krawczuk M., Ostachowicz W. and Palacz M.: <i>Damage Identification in Composite Rods</i>
11:40 – 12:00	Graczykowski C. and Holnicki-Szulc J.: <i>Adaptive Inflatable Structures for Impact Absorption</i>
12:00 – 12:20	Kudela P. and Ostachowicz W.: <i>A Multilayer Delaminated Composite Beam and Plate Elements: Reflections of Lamb Waves at Delamination</i>
12:20 – 12:40	Loktev A. A. and Lokteva I. A.: <i>Viscoelastic and Elastoplastic Models of Impact Solid Body on an Uflyand-Mindlin Plate</i>
12:40 – 13:00	Mendrok K. and Uhl T.: <i>Application of Modal Filter for Damage Detection</i>
13:00 – 14:00	<b>Lunch</b>

<b>Keynote lecture</b>	
<b>Chairman: Patrusheva T. N.</b>	
14:00 – 14:45	Cawley P., Simonetti F., Lowe M. and Clarke T.: <i>Pure Mode Transduction in Guided Wave Structural Health Monitoring</i>
<b>Session 2.1. Vibration and Shape Control (V&amp;SC)</b>	
<b>Chairman: Cawley P.</b>	
14:45 – 15:05	Rudolf C., Martin T. and Wauer J.: <i>Piezoelectric Control of a Machine Tool with Parallel Kinematics</i>
15:05 – 15:25	Vigliotti A. and Concilio A.: <i>Active Control of Radiated Noise from Equipment Enclosures</i>
<b>Session 2.2. Damage and Impact Detection (D&amp;ID)</b>	
<b>Chairman: Leonowicz M.</b>	
14:45 – 15:05	Wandowski T., Kudela P., Malinowski P. and Ostachowicz W.: <i>Lamb Wave-based Discontinuity Localization</i>
15:05 – 15:25	Rucka M., Witkowski W., Wilde K. and Chroscielewski J.: <i>Wave Propagation in Steel Truss Girder for Structural Health Monitoring</i>
15:45 – 16:15	<b>Coffee</b>
16:15 – 16:30	<b>Conference Closing Ceremony</b>