

Last updated: June 25,2002

Final Technical Program of SHM 2002

Wednesday, July 10

8:00 -9:00 *Registration*

9:00 - 9:20	PS.1	Welcome (ENS, ONERA, LCPC)
9:20 - 10:30	Chair: M. De Gliniasty (Onera)	Keynote Lectures
		Demand for Super Safe and Ultra Reliable Structures in a New Century , by Fu-Kuo Chang (Stanford University, USA)
		A Few Comments on the Physical Basis of Health Monitoring Technics , by Pierre-François Gobin (INSA-Lyon, France)

10:30-10:50 *Coffee-break*

10:50-12:50	OS.1 - Aeronautics Applications I Chair.: G. Baaklini (NASA)	OS.2 - Civil Engineering Appl. - Bridges I Chair.: F. Bourquin (LCPC)	OS.3 - Dynamic Structural Assessment Chair.: C.P. Fritzen (Univ. Singen)	OS.4 - Data Reduction Technique for Damage Diagnostic I Chair.: W. Staszewski (Sheffield Univ.)
	SHM 2002-127 SHM 2002-129 SHM 2002-130 SHM 2002-019 SHM 2002-116 SHM 2002-121	SHM 2002-002 SHM 2002-003 SHM 2002-004 SHM 2002-006 SHM 2002-009	SHM 2002-054 SHM 2002-120 SHM 2002-152 SHM 2002-022	SHM 2002-060 SHM 2002-168 SHM 2002-067 SHM 2002-026 SHM 2002-092

12:15-14:00 *Lunch*

14:00 -15:10	PS.2	Keynote Lectures
	Chair.: A.Todoroki (Tokyo Inst. Techn.)	The Role of Health Monitoring in Infrastructure Management , by Peter Chang (National Science Fundation, USA)
		Developing Damage Prognosis Solutions , by Charles R. Farrar (Los Alamos National Laboratory, USA)

15:20-17:00	OS.5 - Electromechanical Impedance Technique Chair.: J.-C. Baboux (INSA-Lyon)	OS.6 - Civil Engineering Application Chair.: G. De Roeck, KU Leuven, Belg.)	OS.7 - Usage Monitoring and Health Management Chair.: G. Akhras (RMC, Canada)	OS.8 - Data Reduction Technique for Damage Diagnostic II Chair.: N. Maia (IST Lisboa)
	SHM 2002-058 SHM 2002-097 SHM 2002-126 SHM 2002-136 SHM 2002-161	SHM 2002-041 SHM 2002-048 SHM 2002-049 SHM 2002-087	SHM 2002-015 SHM 2002-033 SHM 2002-031 SHM 2002-035 SHM 2002-119	SHM 2002-030 SHM 2002-118 SHM 2002-037 SHM 2002-141 SHM 2002-156

17:00-17:20 *Coffee-break*

17:20-18:15	PS.3	Round-table
	Moderator: C. Boller (EADS)	Health Monitoring techniques: Global versus local

18:15-19:00 *Cocktail*

Thursday, July 11

8:30 -9:40	<p>PS.4 Chair.: G. Ramusat (ESA)</p> <p style="text-align: center;">Keynote Lectures Formation of Sensitive/Reactive Phases in Metal and Polymer Based Structural Materials for Health Monitoring and other Functions. Hiroshi Asanuma (Chiba University, Japan) Health Monitoring Systems for Future Reusable Launchers, Luc Renson (Centre Spatial de Liège, Belgium)</p>
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9:40-10:00 *Coffee-break*

10:10-12:30	<p>OS.9 - Sensors Networking</p> <p>Chair.: G. Wang</p>	<p>OS.10 - Repairs and Strengthening</p> <p>Chair.: D. Osmont (Onera)</p>	<p>OS.11 - Piezo sensors/actuators, Guided Waves, Lamb Waves I</p> <p>Chair.: V. Giurgiutiu (Univ. S. Carolina)</p>	<p>OS.12 - Fiber Optic Sensors - Bragg Gratings</p> <p>Chair.: A. Güemes (Tec. Univ. Madrid)</p>
	<p>SHM 2002-158 SHM 2002-147 SHM 2002-153 SHM 2002-028 SHM 2002-043</p>	<p>SHM 2002-005 SHM 2002-164 SHM 2002-045 SHM 2002-057 SHM 2002-143 SHM 2002-167</p>	<p>SHM 2002-008 SHM 2002-112 SHM 2002-013 SHM 2002-123 SHM 2002-014 SHM 2002-095 SHM 2002-163</p>	<p>SHM 2002-053 SHM 2002-056 SHM 2002-108 SHM 2002-109 SHM 2002-145 SHM 2002-146</p>

12:15-13:45 *Lunch*

13:50 -15:00	<p>PS.5 Chair.:M. Derriso (AFRL, USA)</p> <p style="text-align: center;">Keynote Lectures Maintaining Ageing Military Aircraft Using the Tornado Fighter as an Example, Matthias Buderath (EADS Military Aircraft, Germany) Emerging Health Monitoring Technologies: A route Towards a Flexible Maintenance of Aerospace Structures Didier Guedra-Degeorges (EADS-Corporate Research Center, France)</p>
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15:10-17:30	<p>OS.13 - Fiber Optic Sensors other than Bragg Gratings</p> <p>Chair.: M. Tur (Tel-Aviv University)</p>	<p>OS.14 - Aeronautics Applications II</p> <p>Chair.: K. Levin (FOI)</p>	<p>OS.15 - Vibration-Based and Non-Linear Dynamic Structural Assessm.</p> <p>Chair.: P. De Boe (Liège University)</p>	<p>OS.16 - Acoustic Emission</p> <p>Chair.: C. Le Floc'h (EADS Launch Vehicles)</p>
	<p>SHM 2002-044 SHM 2002-077 SHM 2002-078</p>	<p>SHM 2002-131 SHM 2002-148 SHM 2002-105</p>	<p>SHM 2002-096 SHM 2002-102 SHM 2002-066</p>	<p>SHM 2002-018 SHM 2002-039 SHM 2002-040</p>

16:10-16:30 *Coffee-break*

	<p>SHM 2002-079 SHM 2002-081 SHM 2002-111</p>	<p>SHM 2002-154 SHM 2002-139 SHM 2002-046</p>	<p>SHM 2002-165 SHM 2002-090 SHM 2002-093</p>	<p>SHM 2002-073 SHM 2002-106 SHM 2002-113</p>
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17:30-18:30	<p>PS.6 Moderator: C. Soutis (Imp. Coll., UK)</p> <p style="text-align: center;">Round-table Smart Repairs</p>
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20:00-22:30 *Conference Dinner*

Friday, July 12

8:30-9:45	PS.7	Poster Session			
	SHM 2002-017	SHM 2002-047	SHM 2002-122	SHM 2002-166	
	SHM 2002-032	SHM 2002-069	SHM 2002-138	SHM 2002-169	
	SHM 2002-036	SHM 2002-115	SHM 2002-160	SHM 2002-171	

9:50 -10:30	PS.8	Keynote Lecture	
	Chair.: P.-F. Gobin (INSA-Lyon)	Electroactive Polymer Fibers and Fabrics for Distributed, Conformable and Interactive Systems	
		Danilo De Rossi (Pavia University, Italy)	

10:40-12:20	OS.17 - Space & Aerospace Applications	OS.18 - Civil Engineering Appl. - Bridges & Other Structures	OS.19 - Stochastic-Excitation Vibration-Based Structural Assess	OS.20 - Electric, Magnetic, Electromagnetic Techniques
	SHM 2002-159 SHM 2002-103 SHM 2002-134 SHM 2002-137	SHM 2002-170 SHM 2002-125 SHM 2002-025	SHM 2002-150 SHM 2002-083 SHM 2002-010 SHM 2002-088 SHM 2002-091	SHM 2002-029 SHM 2002-051 SHM 2002-065 SHM 2002-110 SHM 2002-020

12:00-13:30 Lunch

13:30-14:10	PS.9	Keynote Lecture	
	Chair.: P. Ferdinand (CEA/LIST)	Process and Health Monitoring Issues in Fibre Reinforced Composites , Gerard F. Fernando (Cranfield University, UK)	

14:15-15:15	OS.21 - FOS for Space & Aerospace Applications	OS.22 - SHM Systemsn in Operational Use	OS.23 - Civil Engineering Appl. - Bridges II	OS.24 - Piezo sensors/actuators, Guided Waves,Lamb Waves II
	SHM 2002-135 SHM 2002-133 SHM 2002-052	SHM 2002-001 SHM 2002-068 SHM 2002-074	SHM 2002-055 SHM 2002-080 SHM 2002-084	SHM 2002-094 SHM 2002-144 SHM 2002-071

15:15-16:15	OS.25 - FOS for Process Monitoring	OS.22 - Continued	OS.23 - Continued	OS.24 - Continued
	SHM 2002-072 SHM 2002-124 SHM 2002-140	SHM 2002-076 SHM 2002-089 SHM 2002-098	SHM 2002-099 SHM 2002-149	SHM 2002-062 SHM 2002-132 SHM 2002-063

16:15-16:30 Coffee-break

16:30-17:00	PS.9	Round Table		
	Moderator: D. Balageas (Onera)	Presentation of the Steering Committee and perspective for next European SHM Workshop		