



**9<sup>th</sup> International Conference on  
Fracture and Damage Mechanics  
20-22<sup>nd</sup> September 2010 Nagasaki,  
Japan**

## Delegate Information Pack

<http://fdm.engineeringconferences.net/>

Conference Venue: **Loisir Hotel Nagasaki**

OURAKAIGANDORI Dentei-mae, 2-33, Oura-machi, Nagasaki-shi, Nagasaki 850-0918

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Loisir Hotel Nagasaki (Conference Venue)



Restaurant on the Canal Park (Banquet Hall)

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#### From Nagasaki Airport

From Nagasaki Airport to Nagasaki city central, people prefer to use a hiway bus. The hiway bus from Nagasaki Airport is scheduled in accordance with the flight table. The fare is 800 JPY and it takes 40 minutes from Airport to city central. You may get off at Nagasaki JR station or Shinchi bus terminal stop. From Shinchi bus terminal to Loisir Hotel Nagasaki, it takes about 15 minutes by walk. Please look at information of Nagasaki Airport at <http://www.nabic.co.jp/english/>

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# International Conference on Fracture and Damage Mechanics IX

## 20-22 September 2010, Nagasaki, Japan

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# Conference Programme

Day 1: 20<sup>th</sup> September

8.30	Registration				
9.25	Welcome				
<b>9.30</b> <b>10.00</b>	<b>Plenary Keynotes: Prof. M.Kikuchi (401)</b> <b>Prof. Ferri Aliabadi (799)</b> <b>Chair: Prof. Peter Flewitt</b>				
10.30	Break				
<b>Session 1</b>	Session A: Computational Methods and Theoretical Aspects  <b>Chair:</b> Schlangen, E	Session B: Experimental Techniques and Measurements  <b>Chair:</b> Toribio, J. A	Session C: Composites  <b>Chair:</b> Noda, N	Session D: Processes and Mechanisms  <b>Chair:</b> Ebara, R	Session E: Poster session
11.00	173	261	254	631	129,130
11.20	440	277	135	409	
11.40	290	280	158	501	
12.00	248	437	193	143	
12.20	539	293	453	483	
12.40	Lunch				
<b>Session 2</b>	Session A: Computational Methods and Theoretical Aspects  <b>Chair:</b> Goto, M	Session B: Experimental Techniques and Measurements  <b>Chair:</b> Nobile, R	Session C: Structural Integrity and Durability  <b>Chair:</b> Abersek, B	Session D: Processes and Mechanisms  <b>Chair:</b> Sakata, S	Session E: Poster session
14.00	103	599	269	514	109,111,112, 121,240
14.20	399	391	489	182	
14.40	415	510	702	184	
15.00	416	410	487	462	
15.20	Break				
<b>Session 3</b>	Session A: Concrete  <b>Chair:</b> A.R.C. Murthy	Session B: Experimental Techniques and Measurements  <b>Chair:</b> Torii, T	Session C: Structural Integrity and Durability  <b>Chair:</b> Qinfen Li	Session D: Processes and Mechanisms  <b>Chair:</b> Teranishi, T	Session E: Poster session
15.50	388	473	172	192	502,520,217
16.10	392	251	170	500	
16.30	421	196	405	199	
16.50	422	tba	tba	200	
17.10	End				

## Day 2: 21<sup>st</sup> September

<b>Session 4</b>	Session A: Computational Methods and Theoretical Aspects  <i>Chair:</i> Kikuchi, M	Session B: Experimental Techniques and Measurements  <i>Chair:</i> Makabe, C	Session C: Composites  <i>Chair:</i> Carpentier, P	Session D: Processes and Mechanisms  <i>Chair:</i> Hattori, N	Session E: Poster
9.00	465	463	203	428	174,175,177, 180,183,185, 459
9.20	703	472	209	201	
9.40	798	493	222	168	
10.00	460	503	513	515	
10.20	Break				
<b>Session 5</b>	Session A: Computational Methods and Theoretical Aspects  <i>Chair:</i> Hoornahad, H	Session B: Structural Integrity  <i>Chair:</i> Shimamoto, A	Session C: Composites  <i>Chair:</i> Takamura, K	Session D: Fatigue  <i>Chair:</i> Kisu, H	Session E:
10.50	400	404	232	226	126,131,140, 144,145,150, 186
11.10	202	234	236	458	
11.30	292	265	263	204	
11.50	233	441	475	210	
12.10	512	273	266	169	
12.30	tba	435	tba	171	
12.50	Lunch				
<b>Session 6:</b>	Session A: Processes and Mechanisms  <i>Chair:</i> Klusak, J	Session B: Structural Integrity  <i>Chair:</i> Profant, T	Session C: Concrete  <i>Chair:</i> Takase, Y	Session D: Fatigue  <i>Chair:</i> Tordini, F	Session E: Poster
14.00	120	427	154	107	152,157,159, 163,403, 452
14.20	504	284	155	110	
14.40	498	478	256	611	
15.00	466	tba	454	612	
15.20	Break				
<b>Session 7:</b>	Session A: Concrete  <i>Chair:</i> Ushijima, K	Session B: Structural Integrity  <i>Chair:</i> Kawagoishi, N	Session C: Composite  <i>Chair:</i> Watanabe, K	Session D: Processes and Mechanisms  <i>Chair:</i> Hutar, P	Session E: Poster
15.50	122	334	350	418	306,307,311, 315,316,402
16.10	148	244	398	289	
16.30	518	450	420	324	
16.50	153	397	800	470	
17.10	End				

## Day 3: 22nd September

<b>Session 8</b>	Session A: Computational Methods and Theoretical Aspects  <i>Chair:</i> Hornikova, J	Session B: Experimental Techniques and Measurments  <i>Chair:</i> Yazawa, T	Session C: Fatigue  <i>Chair:</i> Biwa, S	Session D: Concrete Materials  <i>Chair:</i> Antonaci, P	Session E: Poster
9.00	456	294	537	348	208,262,338
9.20	260	270	228	467	
9.40	704	276	229	353	
10.00	267	279	496	464	
10.20	Break				
<b>Session 9</b>	Session A: Concrete  <i>Chair:</i> Masera, D	Session B: Composite  <i>Chair:</i> Seit, S	Session C: Fatigue  <i>Chair:</i> Miyazaki, T	Session D: Processes and Mechanisms  <i>Chair:</i> Motomura, F	Session E:
10.50	482	274	281	231	
11.10	434	476	285	424	
11.30	436	275	411	134	
11.50	439	287	414	142	
12.10	tba	tba	tba	tba	
12.30	End				

Paper no	Title and authors
103	<b>Analysis Method of Crack Propagation Data by Genetic Algorithms</b> M. Grasso, F. Penta, P. Pinto and G.P. Pucillo
104	<b>Mechanical Properties of Shape Memory Alloy Reinforced Composite</b> Z.Q. Wang, B. Zhou, X.G. Guo and L.M. Zhou
105	<b>Interaction of Multiple Circular Inclusions and a Linear Crack by SH-Wave</b> H.L. Li and H. Li
107	<b>Environmental Fatigue of 7075-T6 Aluminum Alloy</b> R. Ebara and A.J. McEvily
109	<b>Lap Strength of Headed Steel Reinforcements with Confinement</b> S.H. Kim, Y.T. Lee, T.S. Kim, S.Y. Seo, S.K. Baek and Y.S. Cho
110	<b>Bending Fatigue Strength Evaluation of Notched Structural Steel Sheet Repaired by Bolt</b> L.S. He and N. Hattori
111	<b>Fatigue Analysis of Penetration Assembly Joined by Multi-Pass Welding</b> H. Li, L. Li and R.F. Wang
112	<b>Variational Principle of Carbon Nanotubes with Temperature Changes Based on Nonlocal Euler-Bernoulli Beam Model</b> T. Fan
113	<b>Expanded Uncertainty in Measurements of Vertical and Lateral Behaviors for the Rubber-Tired Light Rail Vehicle</b> Y.S. Kim
118	<b>Pilot Study of Reliability Analysis of Damaged Piezoelectric Structure</b> D. Zhang and X.S. Lu
120	<b>Wave Radiation from a Stick-Slip-Like Moving Source</b> K. Watanabe
121	<b>A Study on the Fracture Test in Running System of Railway</b> S.C. Yoon, J.G. Kim, S.H. Park, K.S. Baik and K.Y. Choe
122	<b>Mechanism and Experimental Verification of Degradation of RC Beams Induced by Concrete/Rebar Bonding Failure</b> X.B. He, F. Huang and C.Y. Zhang
124	<b>Numerical Simulation of Rubber-to-Steel Bimaterial Bonded Interface Cracking Based on Cohesive Element</b> X.Y. Liu, X.X. Yang and X.R. Wang
126	<b>Flexural Behavior of Void RC and PC Slab with Polystyrene Forms</b> S.H. Kim
129	<b>Finite Element Analysis on Structural Behaviours of Single Shear Cold-Formed Stainless Steel Bolted Connections with Two Bolts</b> Y.T. Lee, T.S. Kim, J.S. Lim and S.H. Kim
130	<b>An Experimental Study on Structural Behaviours of Single Shear Cold-Formed Stainless Steel Bolted Connections with Two Bolts</b> T.S. Kim, M.S. Kim and S.W. Shin
131	<b>Study on Spins and Deformation Rate of Solid Circular Shafts at Finite Torsion deformation</b> L.H. Yang, G.P. Zou and X.Y. Zhang
134	<b>Arcan-Richard Specimens: Is there a Pure Shear Mode?</b> S. Seitl, P. Hutař and A. Fernández-Canteli
135	<b>Wedge-Splitting Test – Determination of Minimal Starting Notch Length for Various Cement Based Composites</b> <b>Part II: Crack and Notch Fracture Mechanics Approaches</b> S. Seitl, J. Klusák, V. Veselý and L. Řoutil
140	<b>Structure Buckling Load Interval Analysis of Ventilated Supercavitating Vehicles</b> W.D. Chen, L. Zhou and W.G. An

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143	<b>Anisotropic Plastic Deformation and Damage in Commercial Al 2198 T8 Sheet Metal</b> D. Steglich, H. Wafai and J. Besson
144	<b>Elastoplastic Seismic Response Analysis of Masonry Buildings with Variable Wall Thickness along Height</b> B.T. Sun and H.F. Chen
145	<b>Investigation and Analysis on Seismic Damage of Masonry Buildings Subjected to Wenchuan Ms=8.0 Earthquake</b> H.F. Chen and B.T. Sun
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150	<b>The Steady-state Growing Crack-tip Field Characteristics of Mode I Elastic-viscoplastic/ rigid Interface Cracks</b> Liang Wenyan, Wang Zhenqing and Lv Hongqing
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256	<b>Experiment Study on Size Effect of Concrete Compress Damage Parameters</b> X.D. Wang, A.M. Deng, W.X. Zhu, Y.F. Wang and F.C. Liu
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