

Preliminary conference program

Overview

	Monday 22 April 2013	Tuesday 23 April 2013	Wednesday 24 April 2013
7:30-8:30	Registration	Registration	Registration
8:15-12:45	Opening ceremony (8:30-8:40) Plenary lecture 1 (8:40-9:25) Oral session 1 (9:25-11:45) – 5 presentations Poster session 1 with 9 posters & Exhibitor session and Coffee/Tea + refreshments (10:50-12:15)	Plenary lecture 2 (8:30-9:15) Oral session 4 (9:15-10:35) – 4 presentations Poster session 2 with 11 posters & Exhibitor session and Coffee/Tea + refreshments (10:40-12:40)	Plenary lecture 3 (8:30-9:15) Oral session 9 (9:15-10:55) – 5 presentations Poster session 3 with 10 posters & Exhibitor session and Coffee/Tea + refreshments (11:00-12:45)
12:45-13:45	Lunch (buffet / seated lunch)	Lunch (buffet / seated lunch)	Lunch (buffet / seated lunch)
13:45-18:00	Oral session 2 (13:45-15:55) – 5 papers Coffee/Tea + refreshments (15:25-15:45) Oral session 3 (15:45-17:30) – 5 papers	Parallel oral sessions 5 and 6 – each with 4 presentations (13:15-15:15) Coffee/Tea + refreshments (15:25-15:45) Parallel oral sessions 7 and 8 – each with 3 presentations (15:45-16:45)	Oral session 10 (13:45-15:05) – 4 presentations Conference Closure & Coffee/Tea + refreshments (15:05-15:30)
18:00-	Welcome reception – Utzon Center, Aalborg (19:00-21:00)	Conference Banquet – Dronninglund Slot (19:00-23:00) Bus transport to Dronninglund Castle from First Hotel Aalborg, Rendsburggade 5 at 18:30	City tour followed by a social evening at Duus Wine Cellar, in Aalborg city centre 18:00-21:00 (requires preregistration)

Wednesday 25 April, 10:00-14:00: Post conference tour to Siemens Wind Power A/S in Aalborg East (requires preregistration)

MONDAY 22 April 2013

7:30-8:30	Registration	Fib 15 / AAU restaurant
8:30-8:40	Opening ceremony / Ole Thybo Thomsen and Eskild Holm Nielsen, Dean, Faculty of Engineering and Science, AAU	Auditorium A, Fib 15
8:40-9:25	Plenary lecture 1: Professor Pedro Camanho, Department of Mechanical Engineering, University of Porto, Portugal. Title: ‘Mechanics of Ultra-thin Ply Laminates’ / Session chair: TBD	Auditorium A, Fib 15
	Oral session 1 – ‘Damage and fracture’ (5 presentations) / Session chairs: TBD	Auditorium A, Fib 15
9:25-9:45	ID#165 M.S. Loukil, <u>J. Varna</u> , Z. Ayadi VALIDATION OF FEM BASED DAMAGED LAMINATE MODEL MEASURING CRACK OPENING DISPLACEMENT IN CROSS-PLY LAMINATE USING ELECTRONIC SPECKLE PATTERN INTERFEROMETRY (ESPI)	-
9:45-10:05	ID#150 <u>F. Laurin</u> , A. Mavel, E. Auguste INFLUENCE OF TRANSVERSE CRACKS ON THE ONSET OF DELAMINATION, APPLICATION TO L-ANGLE COMPOSITE SPECIMENS	-
10:05-10:25	ID#149 S.T. Pinho, <u>S. Pimenta</u> MODELLING THE SIZE-DEPENDENT MODE I TRANSLAMINAR FRACTURE TOUGHNESS OF UNIDIRECTIONAL FIBRE-REINFORCED COMPOSITES	-
10:25-11:45	ID#148 M. J. Laffan, <u>S.T. Pinho</u> , P. Robinson MIXED-MODE TRANSLAMINAR FRACTURE: FAILURE ANALYSIS, FRACTOGRAPHY AND NUMERICAL MODELLING	-
11:45-11:05	ID#88 R. Muñoz, C. González, <u>J. Llorca</u> DAMAGE MECHANISMS OF 3D WOVEN HYBRID COMPOSITES LOADED IN TENSION. TESTING, INSPECTION AND SIMULATION	-
11:10-12:45	Poster session 1 (9 posters) on ‘Damage and Failure’ & Exhibitor session / Session chairs: TBD Coffee/Tea + refreshments	Fib 15, 2.230 / Student union
	Brief 3 min presentations of all posters followed by poster display and discussions	-
	ID#22 <u>A. Katunin</u> MODAL-BASED DAMAGE IDENTIFICATION IN COMPOSITE STRUCTURES USING SPATIAL WAVELET TRANSFORM	-
	ID#29 <u>M. Yasaei</u> , J.K. Lander, G. Allegri, S.R. Hallett CHARACTERISATION OF BRIDGING MECHANISMS IN A SINGLE Z-PINNED COMPOSITE LAMINATE	-
	ID#138 A. Bernasconi, A. Jamil CHOICE OF AN ANALYTICAL SCHEME IN CORRELATING STRAIN ENERGY RELEASE RATE, CRACK LENGTH AND OPENING OF THE FACES OF AN ADHESIVELY BONDED, THICK COMPOSITE DCB SPECIMEN	-
	ID#146 V. Dattoma, <u>R. Nobile</u> , <u>F.W. Panella</u> CFRP FATIGUE TESTING AND ISSUES FOR AERONAUTICAL APPLICATIONS	-
	ID#156 <u>S. Giannis</u> , C. Jeenjitkaew EFFECT OF PLY THICKNESS ON THE FATIGUE DELAMINATION GROWTH IN TAPERED LAMINATES: MEASUREMENTS AND ANALYSIS	-
	ID#25 <u>N. Godin</u> , M.R’Mili, P. Reynaud, G. Fantozzi IDENTIFICATION OF DAMAGE MODES IN CERAMIC MATRIX COMPOSITES BY ACOUSTIC EMISSION SIGNAL PATTERN RECOGNITION	-
	ID#27 <u>N. Godin</u> , M.R’Mili, P. Reynaud, G. Fantozzi LIFETIME PREDICTION WITH ACOUSTIC EMISSION DURING STATIC FATIGUE TESTS ON CERAMIC MATRIX COMPOSITE AT HIGH TEMPERATURE UNDER AIR	-
	ID#126 <u>S. Giversen</u> , C. Berggreen, B. Riisgaard HIGH-SPEED DIC FOR BLAST TESTING OF COMPOSITE PANELS	-
	ID#67 <u>H. Nouri</u> , D. Traudes, G. Lubineau THE EFFECT OF VARIOUS DIFFUSE DAMAGE LEVELS ON THE TRANSVERSE CRACKING EVOLUTION FOR T700/M21 CROSS-PLY LAMINATED COMPOSITES	-
12:45-13:45	Lunch (buffet / seated lunch)	Fib 15 / AAU restaurant

	Oral session 2 – ‘Modelling & constitutive behaviour’ (5 presentations) / Session chairs: TBD		Auditorium A, Fib 15
13:45-14:05	ID#60	S.A. Tabatabaei, S. V. Lomov, I. Verpoest EMBEDDED ELEMENT METHOD IN MESO-FINITE ELEMENT MODELING OF TEXTILE COMPOSITES	-
14:05-14:25	ID#85	L. Pupure, R. Joffe, J. Varna DEVELOPMENT OF CONSTITUTIVE MATERIAL MODEL FOR COMPOSITE WITH NONLINEAR FIBERS AND MATRIX	-
14:25-14:45	ID#53	V. S. Romanov, L. Gorbatiikh, S. V. Lomov, I. Verpoest VALIDATION OF SIMULATED UNIDIRECTIONAL COMPOSITES MICROSTRUCTURE: STATISTICAL EQUIVALENCE TO REAL FIBRE ARRANGEMENTS	-
14:45-15:05	ID#125	A. D. Drozdov, J.deC. Christiansen, R. Klitkou CYCLIC DEFORMATION OF POLYETHYLENE/CLAY NANOCOMPOSITES: OBSERVATIONS AND CONSTITUTIVE MODELING	-
15:05-15:25	ID#140	R. Amacher, J. Cugnoni, J. Botsis EXPERIMENTAL CHARACTERIZATION AND MODELING OF THIN PLY-SIZE EFFECT	-
15:25-15:45	Break - Coffee/Tea + refreshments		Fib 15 / AAU restaurant
	Oral session 3 – ‘Fracture and fatigue - 1’ (5 presentations) / Session chairs: TBD		Auditorium A, Fib 15
15:45-16:05	ID#118	G. Crammond, S.W. Boyd, J.M. Dulieu-Barton USE OF DIC FOR THE FAILURE ANALYSIS OF COMPLEX COMPOSITE STRUCTURES	-
16:05-16:25	ID#130	E. Farmand-Ashtiani, N. Nasri, J. Cugnoni, J. Botsis DEBOND GROWTH ASSESSMENT IN GFRP-BALSA SANDWICH STRUCTURES	-
16:25-16:45	ID#133	S.Bennati, P.Fiscaro, P. S. Valvo EXPLICIT EXPRESSIONS FOR THE CRACK LENGTH CORRECTION PARAMETERS FOR THE DCB, ENF, AND MMB TESTS ON MULTIDIRECTIONAL LAMINATES	-
16:45-17:05	ID#139	W. Van Paepegem, I. De Baere, S. Daggumati, C. Hochard, J. Xu, S.V. Lomov, I. Verpoest, J. Degrieck STRESS-STRAIN ANALYSIS OF A CARBON PPS DURING AND AFTER FATIGUE LOADING CONDITIONS	-
17:05-17:30	ID#87	F. Sket, A.Enfedaque, C. Alton, C. González, J. M. Molina-Aldareguia, J. Llorca X-RAY TOMOGRAPHY ASSESSMENT OF DAMAGE DURING TENSILE DEFORMATION OF $\pm 45^\circ$ CARBON FIBER LAMINATES	-
19:00-21:00	Welcome reception – Utzon Center, Aalborg		Utzon Center, harbour front, city centre

TUESDAY 23 April 2013

8:30-9:15	Plenary lecture 2: Professor Geoff Gibson, School of Mechanical and Systems Engineering, Director of Centre for Composite Materials Engineering, University of New Castle, UK. Title: 'Issues in Characterising and Modelling the Response of Aerospace Composites to Fire' / Session chair: TBD	Auditorium A, Fib 15
	Oral session 4 – 'Fracture and fatigue - 2' (4 presentations) / Session chairs: TBD	Auditorium A, Fib 15
9:15-9:35	ID#110 M. Kawai, K.-I. Yano PROBABILISTIC ANISOMORPHIC CONSTANT FATIGUE LIFE DIAGRAM APPROACH TO PREDICTION OF P-S-N CURVES FOR COMPOSITES	-
9:35-9:55	ID#55 F. Lahuerta, S. Rajjmaekers, J.J. Kuiken, T. Westphal, R.P.L. Nijssen AUTOMATED DELAMINATION LENGTH VIDEO TRACKING IN STATIC AND FATIGUE DCB TEST	-
9:55-10:15	ID#152 D. Sans, J. Renart, J. A. Mayugo, J. Costa EFFECT OF THE CRACK LENGTH MONITORING TECHNIQUE DURING FATIGUE DELAMINATION TESTING ON CRACK GROWTH DATA	-
10:15-10:35	ID#166 M. Quaresimin and P. Carraro BIAxIAL FATIGUE TESTING OF GLASS/EPOXY COMPOSITE TUBES	-
10:40-12:40	Poster session 2 (11 papers) on 'Manufacturing/processing & materials characterisation' & Exhibitor session / Session chairs: TBD Coffee/Tea + refreshments	Fib 15 , 2.230/ Student union
	Brief 5 min presentations by exhibitors Zebicon, Photron, Instron	-
	Brief 3 min presentations of all posters followed by poster display and discussions	-
ID#31	J. Vilà, C. González, J. Llorca ON THE USE OF DIGITAL IMAGE CORRELATION TO DETERMINE THE PERMEABILITY AND COMPACTION LAW OF FABRICS IN VACUUM INFUSION PROCESS	-
ID#46	J. Sirtautas, A.K. Pickett FABRIC PERMEABILITY TESTING AND THEIR USE IN INFUSION SIMULATION	-
ID#73	J. Jakobsen, J. H. Andreasen, E.A. Jensen, O.T. Thomsen SHRINKAGE AND THERMAL EXPANSION MODEL FOR A GLASS/EPOXY LAMINATE	-
ID#83	S.A.Oshkovr, M.Rezaei, C.M. Markussen, T. L. Andersen, F.Aviles,O. T. Thomsen EXAMINATION OF COMPRESSION AND SHEAR PROPERTIES OF GLASS/CARBON HYBRID LAMINATED COMPOSITES	-
ID#103	K.-C.Jung, J.-H.Bae, S.-H.Chang EVALUATION OF THE MECHANICAL PROPERTIES OF POLYMER CONCRETES UNDER VARIOUS CONDITIONS	-
ID#114	Y.Abdin, S.P. Lomov, A.Jain, H. van Lente, I.Verpoest GEOMETRICAL CHARACTERIZATION & MICRO-STRUCTURAL MODELLING OF SHORT STEEL FIBER REINFORCED COMPOSITES	-
ID#64	S. Zike, L.P. Mikkelsen STRAIN GAUGE APPLICATION IN SOFT MATERIAL TESTING	-
ID#96	M. Chuda-Kowalska, A. Garstecki METHODOLOGY OF MATERIAL PARAMETERS IDENTIFICATION IN SANDWICH PANELS VERSUS COMPUTER SIMULATION VALIDATION OF SHORT DYNAMIC SPECIMEN GEOMETRY FOR IDENTIFICATION OF RATE DEPENDENT MODEL ON A LARGE RANGE OF STRAIN RATES	-
ID#63	J. Berthe, M. Brieu, E.Deletombe	-
ID#94	C. Sonnenfeld, G. Luyckx, F. Collombet, Y-H. Grunevald, B. Douchin, L. Crouzeix, M. Torres, S. Sulejmani, T. Geernaert, K. Chah, P. Mergo, H. Thienpont, F. Berghmans INTEGRATION OF MICROSTRUCTURED OPTICAL FIBRES INTO CARBON FIBRE REINFORCED PLASTIC MATERIALS – DETERMINATION OF THE INITIAL STRAIN STATE	-
ID#158	G. Chiesura, G. Luyckx, N. Lammens, W. van Paepegem, J. Degrieck, M. Dierick, L. van Hoorebeke A MICRO-COMPUTER TOMOGRAPHY TECHNIQUE TO STUDY THE INTERACTION BETWEEN THE COMPOSITE MATERIAL AND AN EMBEDDED OPTICAL FIBER SENSOR	-



12:45-13:45	Lunch (buffet / seated lunch)	Fib 15 / AAU restaurant
Oral session 5 – “Defects, delamination and debonding” (4 presentations) - parallel session / Session chairs: TBD		Auditorium A, Fib 15
13:45-14:05	<u>S. R. Hallett</u> , ID#28 M. I. Jones, M.R. Wisnom TENSION AND COMPRESSION TESTING OF MULTI-DIRECTIONAL LAMINATES WITH ARTIFICIAL OUT OF PLANE WRINKLING DEFECTS	-
14:05-14:25	<u>J.-P. Fuhr</u> , J. Baumann, ID#77 F. Härtel, P. Middendorf, N. Feindler EFFECTS OF IN-PLANE WAVINESS ON THE PROPERTIES OF CARBON COMPOSITES - EXPERIMENTAL AND NUMERICAL ANALYSIS	-
14:25-14:45	<u>L. Zubillaga</u> , A. Turon, J. ID#142 Costa, S. Mahdi, P. Linde EXPERIMENTAL VALIDATION OF A MATRIX CRACK INDUCED DELAMINATION CRITERIA	-
15:05-15:25	<u>A. Pupurs</u> , J. Varna ID#91 P. Brøndsted, S. Goutianos DETERMINATION OF FIBER/MATRIX INTERFACE DEBOND GROWTH PARAMETERS FROM CYCLIC LOADING OF SINGLE FIBER COMPOSITES	-
Oral session 6 – ‘Damage and dynamic properties’ (4 presentations) - parallel session / Session chairs: TBD		Auditorium B, Fib 15b
13:45-14:05	<u>C. Devivier</u> , F. Pierron, ID#49 M.R. Wisnom FULL-FIELD CURVATURE MEASUREMENTS TO ASSESS IMPACT DAMAGE IN COMPOSITE PLATES USING AN INDICATOR BASED ON MECHANICAL EQUILIBRIUM	-
14:05-14:25	<u>R. Eriksen</u> , C. Berggreen, J.M. ID#136 Dulieu-Barton CALIBRATION OF LS-DYNA STRAIN RATE DEPENDENT COMPOSITE MATERIAL MODELS	-
14:25-14:45	<u>A.J. Brunner</u> ID#37 DAMAGE ACCUMULATION INVESTIGATION IN FIBER-REINFORCED POLYMER-MATRIX COMPOSITES: FROM TEST COUPONS TO STRUCTURAL ELEMENTS	-
15:05-15:25	<u>H. Toftegaard</u> , M. Rask, S. ID#154 Rasmussen, B.F. Sørensen DCB FRACTURE SPECIMENS WITH SIDE NOTCHES	-
15:25-15:45	Break - Coffee/Tea + refreshments	Fib 15 / AAU restaurant
Oral session 7 – ‘Test methods’ (3 presentations) - parallel session / Session chair: TBD		Auditorium A, Fib 15
15:45-16:05	<u>A. Chripunow</u> , ID#92 M. Ruder NOVEL TEST SETUP FOR DETERMINATION OF HIGH TEMPERATURE MECHANICAL PROPERTIES OF COMPOSITES	-
16:05-16:25	<u>J. Høgh</u> , J. Waldbjørn, H. Stang, ID#119 C. Berggreen, J. Wittrup-Schmidt, K. Branner STATIC STRAIN AND DEFORMATION CONTROLLED TESTING OF COMPOSITE BEAMS	-
16:25-16:45	<u>R. M. Stubbing</u> , <u>M. Battley</u> ID#155 THE USE OF DIGITAL IMAGE CORRELATION FOR FULL FIELD ANALYSIS OF POLYMER FOAMS	-
Oral session 8 – ‘Health/condition monitoring’ (3 presentations) - parallel session / Session chairs: TBD		Auditorium B, Fib 15b
15:45-16:05	J. de J. Ku-Herrera, ID#21 <u>A. May-Pat</u> , <u>F. Avilés</u> SELF-SENSING OF DAMAGE IN CARBON NANOTUBE VINYL ESTER COMPOSITES	-
16:05-16:25	N. Lammens, G. Chiesura, ID#107 <u>G. Luyckx</u> , E. Voet, J. Degrieck INFLUENCE OF THE PROTECTIVE COATING OF FIBER BRAGG GRATING SENSORS ON THE STRUCTURAL DISTORTION AND SENSING ACCURACY WHEN EMBEDDED IN FIBER REINFORCED POLYMERS	-
16:25-16:45	<u>L. P. Canal</u> , B.D. Manshadi, ID#157 V. Michaud, J. Botsis, G. Violakis, H. G. Limberger MONITORING STRAIN GRADIENTS IN ADHESIVE COMPOSITE JOINTS BY EMBEDDED FIBRE BRAGG GRATING SENSORS	-
19:00-23:00	Conference Banquet – Dronninglund Slot (19:00-23:00). Bus transport to Dronninglund Castle from First Hotel Aalborg, Rendsburggade 5 at 18:30	



WEDNESDAY 24 April 2013

8:30-9:15	Plenary lecture 3: Dr. Torben K. Jacobsen, Director Materials & Process, LM Windpower A/S. Title: 'Wind Turbine Blade Materials and Structures - State-of-the-art and Future Developments' / Session chair: TBD	Auditorium A, Fib 15
	Oral session 9 – 'Fracture and fatigue - 3' (5 presentations) / Session chairs: TBD	Auditorium A, Fib 15
9:15-9:35	ID#89 <u>C. González</u> , L.P. Canal, J. Segurado, J. Llorca ON THE USE OF IN-SITU SEM TESTING AND SIMULATION TO STUDY DEFORMATION AND FAILURE MECHANISMS IN COMPOSITE MATERIALS	-
9:35-9:55	ID#134 <u>N. Doroudgarian</u> , M. Anglada, A. Mestra, R. Joffe BIO-BASED COMPOSITES WITH DIFFERENT MOISTURE CONTENTS UNDER STATIC AND DYNAMIC LOADING	-
9:55-10:15	ID#52 <u>J. B. Knoll</u> , R.Koschichow, I.Koch, K.Schulte, M.Gude FAILURE MODE SPECIFIC FATIGUE TESTING OF NANOPARTICLE-MODIFIED CFRP UNDER VHCF-LOADING	-
10:15-10:35	ID#101 <u>I. Urresti</u> , A. Barrio, J. Renart, L. Zubillaga EXPERIMENTAL AND NUMERICAL ANALYSIS OF SKIN/STIFFENER DEBONDING UNDER BENDING	-
10:35-10:55	ID#95 <u>E. Guzman</u> , J. Cugnoni, T. Gmür QUANTIFICATION OF DAMAGE DUE TO ENVIRONMENTAL CONDITIONS ON CARBON FIBRE/EPOXY COMPOSITE SAMPLES	-
11:00-12:45	Poster session 3 (10 papers) on 'Material concepts, modelling and applications' & Exhibitor session / Session chairs: TBD Coffee/Tea + refreshments	Fib 15, 2.230 / Student union
	Brief 3 min presentations of all posters followed by poster display and discussions	-
	ID#56 <u>J.H. Kim</u> , K.B. Shin, W.S. Choi A Study on the Low-velocity Impact Characteristics of Impact Limiter Materials for Nuclear Spent Fuel Transport Cask	-
	ID#62 <u>L. Tranvan</u> , <u>V. Legrand</u> , P. Casari, F.Jacquemin POST-FIRE MECHANICAL PROPERTIES OF MARINE SANDWICH COMPOSITES	-
	ID#108 <u>M. Peeters</u> , W.Van Paepegem DEVELOPMENT OF AUTOMATED FINITE ELEMENT MODELS FOR LARGE WIND TURBINE BLADES	-
	ID#127 <u>V. Fedorov</u> , C. Berggreen BEND-TWIST COUPLING IDENTIFICATION IN COMPOSITE BEAMS	-
	ID#129 <u>G.Martakos</u> , J.H. Andreasen, O.T. Thomsen A NEW DAMAGE TOLERANT DESIGN APPROACH FOR SANDWICH PANELS LOADED IN FATIGUE	-
	ID#135 <u>I. De Baere</u> , B. De Schoenmaker, S. Van der Heijden, W. Van Paepegem, K. De Clerck CHANGES IN MECHANICAL BEHAVIOUR OF A GLASS FIBRE REINFORCED EPOXY BY ADDING POLYAMIDE 6 NANO-FIBRES	-
	ID#137 <u>A.Jain</u> , S.V. Lomov, Y.Abdin, I.Verpoest, W.Van Paepegem PSEUDO-GRAIN DISCRETIZATION AND FULL MORI TANAKA FORMULATION FOR RANDOM HETEROGENEOUS MEDIA: PREDICTIVE ABILITIES FOR STRESSES IN INDIVIDUAL INCLUSIONS AND THE MATRIX	-
	ID#163 <u>M. Boccione</u> , M. Carnevale, A. Collina, N. Lecis, <u>A. Lo Conte</u> , B. Previtali, C.A. Biffi, P. Bassani, A. Tuissi SMA/GFRP COMPOSITE PLATES: PASSIVE DAMPING AND INTERFACE STRENGTH	-
	ID#86 <u>A.B. Mehri</u> , M.Skrifvars MECHANICAL AND MORPHOLOGICAL PROPERTIES OF TALC FILLED HIGH DENSITY POLYETHYLENE	-
	ID#117 <u>J.-W. Kang</u> , <u>O.-H.Kwon</u> , J.-H.Kwak MIXED MODE DELAMINATION IN HYBRID LAMINATE UNDER DMMB TEST	-
12:45-13:45	Lunch (buffet / seated lunch)	Fib 15 / AAU restaurant

	Oral session 10 – ‘Testing, material concepts and joining’ (4 presentations) / Session chairs: TBD		Auditorium A, Fib 15
13:45-14:05	ID#167	<u>L. P. Mikkelsen</u> , J.I.Bech SECONDARY STRESS EFFECTS DURING LOAD INTRODUCTION INTO UNIDIRECTIONAL COMPOSITE TEST COUPONS	-
14:05-14:25	ID#82	<u>S. Pimenta</u> , P. Robinson, G. Czel, M.R. Wisnom, H. Diao, A. Bismarck DISCONTINUOUS-PLY COMPOSITES FOR ENHANCED DUCTILITY	-
14:25-14:45	ID#144	<u>S. Budhe</u> THE EFFECT OF PRE-BOND MOISTURE AND TEMPERATURE ON THE FRACTURE TOUGHNESS OF BONDED JOINTS FOR COMPOSITE REPAIRS	-
14:45-15:05	ID#159	N. Zobeiry, A. Forghani, R. Vaziri, A. Poursartip, X. Xu, <u>S.R. Hallett</u> , M.R. Wisnom EXTRACTING THE STRAIN SOFTENING RESPONSE OF COMPOSITES USING A DETAILED FINITE ELEMENT ANALYSIS AS A VIRTUAL DIGITAL IMAGE CORRELATION TECHNIQUE	-
15:05-15:30	Conference closure & Break - Coffee/Tea + refreshments		Fib 15 / AAU restaurant
18:00-21:00	City tour followed by a social evening at Duus Wine Cellar		Meeting place: in front of Duus wine Cellar, city centre

THURSDAY 25 April 2013

10:00-14:00	Post conference tour to Siemens Wind Power. Detailed program for to come (only preregistered participants admitted) Pick-up by bus at First Hotel Aalborg, Rendsburggade 5 at 9:30 and delivery at the same place after the tour.		Siemens Wind Power A/S, Assensvej, DK-9220 Aalborg East
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