

Time	Monday 27 th June 2011	
8:00	REGISTRATION & Refreshments (Octagon)	
	Ball Room	Tea Room
9:00	Conference Opening & Welcome	
9:15	PLENARY: "The Role of Development in Self-Healing Systems" Dr. Mark Miowdownnik (King's College London, UK) [Ball Room]	
10:00	BREAK (Octagon)	
	Self-Healing Cementitious Materials / Self-Healing Materials for Infrastructure Applications A - Session 1A Chairs: Robert Lark, Eric Schlangen	Self-Healing and Supramolecular Polymers A - Session 1B Chairs: Russell Varley, Martha Williams
10:15	KEYNOTE: "Development of self-healing concrete: towards full-scale application" Henk Jonkers (TU Delft, NL)	KEYNOTE: "Strong organic liquids: malleable, processable, repairable & recyclable epoxy thermosets" Ludwik Leibler (ESPCI, FR)
10:45	Innovative Repair Methods For Civil Infrastructures Based On Crack Self-Healing Technologies Using Cementitious Materials T.H. Ahn, M. Morita, T. Kishi	Self-Healing Elastomers – Healing Functionalisation By Polymer Analogous Side-Group Modification M.v.Tapavicza, A.Nellesen, J.Bertling, A.M.Schmidt
11:00	Assessment Of The Crack Healing Capacity In Bacteria-Based Self-Healing Concrete V. Wiktor and H. M. Jonkers	Self Healing Of Blends Based On Sodium Salt Of Poly(Ethylene-Co-Methacrylic Acid)/ Poly(Ethylene-Co-Vinyl Alcohol) And Epoxidized Natural Rubber Following High Energy Impact A.M. Grande, A.R Rahaman, L. Di Landro, M. Penco, G. Spagnoli
11:15	Surface Crack Self Healing Behaviour Of Mortars With Expansive Additives K. Sisomphon, O. Copuroglu, E.A.B. Koenders	Crystalline Polymers With Mendability N. Yoshie
11:30	A Fundamental Study on Regain of Flexural Strength of Mortars by Using a Self-Repair Network System S.y Pareek, A. Oohira	Solvent Based Self-Healing Of Thermosets With Embedded SMA Wires S. Neuser, V. Michaud, N. Sottos, S. White
11:45	Self healing of frost-damaged concrete incorporating fly ash M. Taniguchi, Y. Hama, O. Katsura, T. Sagawa, SH. Na	A Novel Strategy Of Self-Healing Thermoplastic Polymers Via Covalent Bonding In Living Matrices M.Z. Rong, M. Q. Zhang, H. P.Wang, L. Yao
12:00	LUNCH	
	Self-Healing Metallic & Ceramic Materials A - Session 2A Chairs: Sybrand van der Zwaag, Wataru Nakao	Self-Healing Composites and Hybrids A - Session 2B Chairs: Richard Trask, Kevin O'Brien
13:30	On The Initial Oxide Scales Of Ti ₂ AlC J.C. Rao, H.J. Yang, Y.T. Pei, J.Th.M. De Hosson	Self-Sealing Of Microcrack Damage In Structural Fiber Reinforced Composites J.L. Moll, C.L. Mangun, S.R. White, N.R. Sottos
13:45	Effect Of Martensitic Transformations On The Strength And Toughness Behavior Of SMA Reinforced Self-Healing Alloy Composites: Analysis Of Structure-Property Relationships F. Barrie, M.V. Manuel	Matrix Damage Healing In Fiber Reinforced Composite Materials Containing Embedded Wires T.C. Bor, L.L. Warnet, and R. Akkerman
14:00	Electrochemical Healing Of MAX Phase Ceramics A.M. Abdelkader, S.J. Garcia, S. v.d.Zwaag	Identification of Effective Healing Locations for Recovering Compressive Strength C. Knipprath, G.P. McCombe, I.P. Bond, R.S. Trask
14:15	Self-Healing Of Nano-Metal/Oxide Hybridized Materials Via Thermal Oxidation M. Nanko	Autonomous Self-Healing Functionality In Advanced Fibre Reinforced Polymer Composite Materials T.S. Coope, U.F.J. Mayer, I. P. Bond, R.S. Trask, D.F. Wass
14:30	Fatigue Properties of Al2024 For Intermittent Thermal Healing and Analysis of Damage Development Using Positron Annihilation Doppler Broadening Technique M.L. Ruiz-Ripoll, H. Schut, R. Benedictus, S. v.d.Zwaag, R. Alderliesten	Self Healing Of Impact Damage In 2D And 3D Woven Glass Fiber Composites K.R. Hart, A.J. Patel, E.D. Wetzel, N.R. Sottos, S.R. White
14:45	BREAK (Octagon)	
	Characterisation, Modelling & Optimisation of Self-Healing Materials A - Session 3A Chairs: Eric Brown, Etelvina Javierre	Self-Healing Coatings & Paints - Session 3B Chairs: Russell Varley, Tamara Jikic
15:00	Evaluating Solvents As Healing-Agents In Thermoplastic Matrices Via Dynamic Synchrotron X-Ray Microtomography S.D. Mookhoek, H.R. Fischer, S. v.d.Zwaag, W. Ludwig	Multiple Action Self-Healing Coatings For The Corrosion Protection Of Metals I.De Graeve, T.Muselle, G.Scheltjens, J.Brancart, Y.Gonzalez Garcia, J.M.C.Mol, G.Van Assche, B.Van Mele, H.Terry
15:15	Development of Optimized Autonomous Self-Healing Systems Based on Highly Efficient Reactions W. Van Camp, S. Billiet, F.E. Du Prez	Shape Memory Polymer Blends Exhibiting Self-Healing E.D. Rodriguez, X. Luo, P.T. Mather
15:30	A Quantitative Description Of The Surface Healing Of Ionomers S. J. Garcia, R. J. Varley, S. v.d. Zwaag	Recovering Surface Chemistry On Superhydrophobic Coatings C. Esteves, M. van de Put, A. Rehnolt, B. de With
15:45	Exptl. Methods for Characterizing Mechanochemically Active Polymers S.L.B. Kramer, B.A. Beiermann, C.M. Kingsbury, P.A. May, J.S. Moore, S.R. White, N.R. Sottos	Self-Healing Of Cracks In Epoxy Via Free Radical Polymerization M.Q. Zhang, M.Z. Rong and X.B. Jiang
16:00	A Rheokinetic Technique Designed To Identify The Properties Of Liquid Self-Healing Agents T.C. Mauldin, J. Leonard, K. Earl, J.K. Lee, M. R. Kessler	Improvement Of Anticorrosion Properties Of Epoxy Coatings On Steel With Nanocontainers I.A. Kartsonakis, A.C. Balaskas, G.C. Kordas
16:15	BREAK (Octagon)	
	Bio-Inspired Materials and Biological Systems - Session 4A Chairs: Ian Bond, Dan Inman	Mechanochemically & Thermally Activated Self-Healing / Thermoplastic Self-Healing A - Session 4B Chairs: Frank Jones, Wayne Hayes
16:30	Mussel Byssal Threads As Autonomic And Intrinsic Self-Healing Metallo-Polymeric Biofibers M.J. Harrington, A. Masic, N. Holten-Andersen, J. H. Waite, P. Fratzl	Force-Induced Polymer Cross-Linking And Improved Mechanical Integrity In Response To Destructive Mechanical Stress A.L. Black Ramirez, J.A. Orlicki, S.L. Craig
16:45	Self-Healing Processes In Plants O. Speck, F. Flues, W. Konrad, T. Speck	Shear Activation Of Mechanophore-Linked Pmma C. M. Kingsbury, P. A. May, S.R. White, J. S. Moore, N.R. Sottos
17:00	Biologically Inspired, Stimuli Triggered Self-Healing in Advanced Composites R.S.Trask, C.J.Norris, J.A.P.White, I.P.Bond	Mechanically Activated Olefin Complexes of Coinage Metals as Catalysts for the Ring-opening Polymerization of Epoxides in the Autonomous Self-healing of Composite Materials D.F.Wass, T.S. Coope, R.S. Trask, I.P. Bond, U. Mayer
17:15-	PLENARY POSTER PROMOTION Chair: Dr Richard Trask	
19:00	DRINKS RECEPTION (Pump Room & Roman Baths)	