

Time	Tuesday 28th June 2011	
8:00	REGISTRATION (Octagon)	
	Ball Room	Tea Room
	Microvascular Systems A - Session 5A Chairs: Scott White, Richard Trask	Self-Healing Composites & Hybrids B - Session 5B Chairs: Veronique Michaud, Ming Qui Zhang
9:00	KEYNOTE: "Self-Patterning Vascular Systems via Electrostatic Forces" Eric Wetzel (ARL, USA)	
9:30	Fibre Reinforced Polymers With Embedded Microvascular Networks - Bioinspired In Both Design And Function C.J. Norris, I.P. Bond, R.S. Trask	Notched Tensile Tests & Analysis Of Unidirectional Fiber Composites Encompassing Self-Healing Of Interfacial Debonding K. Sanada, Y. Mizuno, Y. Shindo
9:45	3D Microvascular Composites With Sacrificial Fibers: Manufacturing And Materials A.P. Esser-Kahn, H. Dong, P.R. Thakre, J.F. Patrick, N.R. Sottos, S.R. White, J.S. Moore	Remendable Interfaces For Polymer Composites A.M. Peterson, R.E. Jensen and G. R. Palmese
10:00	Pressurized Vascular Systems for Healing Crack Damage & Mitigating Fatigue Crack Propagation A.R. Hamilton, N.R. Sottos, S.R. White	Experimental Investigation Of The Self Healing Performance Of CFRP Composites Subjected To High Velocity Impact M. Asgar-Khan, S. Hoa, B. Aissa, E. Haddad, A. Higgins
10:15	BREAK (Octagon)	
	Self-Healing Cementitious Materials / Self-Healing Materials for Infrastructure Applications B - Session 6A Chairs: Toshiharu Kishi, Wendel Sebastian	Self-Healing and Supramolecular Polymers B - Session 6B Chairs: Francois Tournilhac, Russell Varley
10:30	Simulation Of Self-Healing By Further Hydration In Cement-Based Materials H. Huang, G. Ye	The Effect Of Molecular Weight Of The Healing Agent On The Solid State Thermal Healing Of Epoxy Resins F.R. Jones, R.J. Varley, J. Gotama, M.S. bin Md. Jamil
10:45	Capillary Flow Of Healing Agents In Discrete Cracks In Cementitious Materials D.R Gardner, A. Hoffman, A.D. Jefferson	Diffusion Of Latent Hardener In Epoxy Resin P.S. Tan, D. Bhattacharyya
11:00	Development Of Bacterially-Mediated Self-Healing In Engineered Cementitious Composites E.N. Herbert, G. Upadhyaya, L. Raskin, K.F. Hayes, V.C. Li	Metallosupramolecular Polymers For Self-Healing / German Priority Programme: Design & Generic Principles of Self-Healing Materials U.S. Schubert, M.D. Hager
11:15	Highway A58: The First Engineered Self Healing Asphalt Road E. Schlangen, A. Garcia, M. Van De Ven, G. Van Bochove, J. Van Montfort, Q. Liu	Developing Flexible, High Performance Polymers With Self-Healing Capabilities S.T. Jolley, M.K. Williams, T.L. Gibson, A.J. Caraccio
11:30	Sustainable Self-Healing Cementitious Composites R.J. Lark, A.D. Jefferson, D. Gardner, B. Isaacs, S. Dunn	Shape Memory Assisted Self-Healing Coatings X. Luo, E. D. Rodriguez, H. B. Nejad, P.T. Mather
11:45	Neutron Radiography, A Sensitive Method To Visualize Autonomous Healing Of Cracks In Cementitious Materials K. Van Tittelboom, N. De Belie, P. Zhang, F.H. Wittmann	Supramolecular Healable Materials Through A Combination Of Pi-Pi Stacking & H2 Bonding: Synthesis, Rheology & Healing W. Hayes, B.W. Greenland, S. Burattini, H.M. Colquhoun
12:00	LUNCH	
	Self-Healing Metallic & Ceramic Materials B - Session 7A Chairs: Wim Sloof, Makoto Nanko	Mechanochemically & Thermally Activated Self-Healing / Thermoplastic Self-Healing B - Session 7B Chairs: Stephen Kalista, Christopher Jenkins
13:30	High Temperature Healing Of Ti2AlC H.J. Yang, Y.T. Pei, J.C. Rao, J.Th.M. De Hosson	Mechanisms For Low Strain Force-Induced Chemical Reactions B.A. Beiermann, S.L.B. Kramer, J.S. Moore, S.R. White, N.R. Sottos
13:45	Self Healing Of Creep Damage In Boron And Copper Containing Iron Alloys N. van Dijk, S. He, M. Paladugu, H. Schut, S. v.d. Zwaag	Force-Induced Redistribution Of A Chemical Equilibrium C.K. Lee, D.A. Davis, S.R. White, J.S. Moore, N.R. Sottos, P.V. Braun
14:00	Design Considerations For Matrix Compositions of Self-Healing MMCs C.R. Fisher, M.V. Manuel	Thermally Activated Healing In A Mendable Resin Using A Non Woven EMAA Fabric R.J. Varley, G. Parn
14:15	Effect of Temperature on Self-Healing & Wear Behavior of Copper Oxide Doped Zirconia-Alumina Systems M. Valefi, M. de Rooij, D.J. Schipper, L. Winnubst	Healing Of Thermoplastic Structural Components V. S. Francischetti, D. L. Zignego, C. H. Jenkins
14:30	Relationship between crack disappearance and mechanical recovery on nano-Ni dispersed Al <sub>2</sub> O <sub>3</sub> hybrid materials D. Maruoka, M. Nanko	Thermally Remendable Composite Structures with Resistive Heating Network of Carbon Fibers J.S. Riendeau, T.H. Perram, S.J. Oldenburg, A.F. Starr, H.T. Hahn, T.K. Darlington
14:45	BREAK (Octagon)	
	Characterisation, Modelling & Optimisation of Self-Healing Materials B - Session 8A Chairs: Phillippe Geubelle, Guy van Assche	Microencapsulated Systems A - Session 8B Chairs: Min Zhi Rong, Iris De Graeve
15:00	Use Of The TDCB Geometry For Fracture Toughness Measurements & Its Application To The Quantification Of Self-Healing E. N. Brown	Autonomic Restoration Of Conductivity In Li-Ion Batteries And Highly Conductive Microelectronic Circuits B.J. Blaiszik, S.L.B. Kramer, S. Kang, S.A. Odom, D.A. McLroy, J.S. Moore, N.R. Sottos, S.R. White
15:15	Interactions Between Damage Events And Bioinspired Vasculatures Embedded In Fibre Reinforced Composites C.J. Norris, I.P. Bond, R.S. Trask	Smart Capsule-Based Systems For Self-Healing Materials Via The Miniemulsion Process D. Crespy, J. Fickert, K. Landfester
15:30	Influence of the Active Particles on the Self-Healing Efficiency in Glassy Matrix F.O. Méar, S. Castanié, D. Coillot, R. Podor, L. Montagne	Autonomic Restoration Of Conductivity In Damaged Silver Particle Circuits S.A. Odom, S. Chayanupatkul, B.J. Blaiszik, S. Kramer, A. Jackson, O. Zhao, P.V. Braun, N.R. Sottos, S.R. White, J.S. Moore
15:45	A Mathematical Model For Bacterial Self-Healing Of Cracks In Concrete S.V. Zemskov, H.M. Jonkers, F.J. Vermolen	Microencapsulation of Octylcyanoacrylate as Healing Agent for Self-Healing Bone Cement A.B.W. Brochu, W.M. Reichert
16:00	Model Based Tuning of the Release of Self Healing Agents from Organic Coatings: Fickian To Controlled Release Kinetics E. Javierre, S.J. Garcia, J.M.C. Mol, F.J. Vermolen, C. Vuik, S. v.d. Zwaag	Azide/Alkyne-"Click"-Reactions of Encapsulated Liquid Polymers: Towards Self-Healing Materials W. H. Binder, M. Gragert, M. Schunack, D. Döhler, P. Michael
16:15	BREAK (Octagon)	
	Self-Healing Composites & Hybrids C - Session 9A Chairs: Veronique Michaud, Frank Jones	Microvascular Systems B - Session 9B Chairs: B-Y 'Les' Lee, Nancy Sottos
16:30	Visualisation Of Self-Healing Mechanisms In Fibre Reinforced Polymers G.P. McCombe, J. Rouse, R.S. Trask, P.J. Withers, I.P. Bond	Interpenetrating Microvascular Networks For Thermal Acceleration Of Self-Healing C. J. Hansen, S.R. White, N.R. Sottos, J.A. Lewis
16:45	Health Assessment and Coordination of Self-Healing Structures D. R. Huston, D. Hurley	Microvascular Based Self-Healing Polymeric Foams J.F. Patrick, D.J. Fairfield, N.R. Sottos, S.R. White
17:00	Resin Transfer Moulding Of Self-Healing Composite Materials R.V. Grainger, S.A. Hayes	Thermal And Mechanical Response Of Three-Dimensional Microvascular Composites P.R. Thakre, H. Dong, J. Patrick, K. Hart, A. Esser-Kahn, J.S. Moore, N.R. Sottos, S. R. White
17:15	Recovery Of Fiber/Matrix Interfacial Bond Strength Using A Microencapsulated Solvent-Based Healing System A.R. Jones, B. J. Blaiszik, S.R. White, N.R. Sottos	Microvascular Composites Fabricated From Sacrificial Fibers H. Dong, A.P. Esser-Kahn, P.R. Thakre, J.F. Patrick, N.R. Sottos, S.R. White, J.S. Moore
17:30	CONFERENCE PHOTOGRAPH [Tea Room]	
17:45	PLENARY: "The Damage Tolerance Of Microarchitected Materials" Prof. Norman A. Fleck (University of Cambridge, UK) [Ball Room]	
18:30	POSTER SESSION & DRINKS RECEPTION (Ball Room & Octagon)	

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18:30	<b>POSTER SESSION &amp; DRINKS RECEPTION (Ball Room &amp; Octagon)</b>
1	Monitoring Kinetics Of Crosslinking Azide/Alkyne-“Click”-Reactions Of Encapsulated Reagents In Self-Healing Polyisobutylene Materials <b>M. Schunack, M. Gragert, W. H. Binder</b>
2	Ionomers As Self-Healing Agents For Elastomeric Products <b>A.C. Schüssele, R. Mülhaupt</b>
3	A Self-Healing Material Formed From A Crystalline Polymer End-Functionalized With Hydrogen Bonding Units <b>N. Oya, N. Yoshie</b>
4	Enhancement Of Self-Healing In Cementitious Materials <b>B. Isaacs, R.J. Lark, A.D. Jefferson, D. Gardner, S. Dunn</b>
5	Development Of A Self- Healing Skin For More Durable Concrete Structures <b>E. Tsangouri, D. Van Hemelrijck</b>
6	The Behaviour Of Suberabsorbing Polymers As A Sealing Agent In Concrete: Absorption Kinetics, Degradation And Water Permeability <b>P. Dejonghe, N. De Belie, S. Steuperaert, D. Snoeck, P. Dubruel</b>
7	Evaluation Of Self-Healing Effect Of Concrete Using Fly Ash Or Ground Granulated Blast Furnace Slag <b>S-H. Na, Y. Hama, M. Taniguchi, O. Katsura, T. Sagawa</b>
8	Optimizing Self-Healing Mechanism Of Slag Cement Concrete Under Natural Carbonation <b>B.Ahmad, O. Copuroglu</b>
9	Self-Healing Anticorrosive Organic Coating Based On The Release Of A Reactive Silyl Ester: Use Of Local Electrochemical Techniques <b>S. J. Garcia, H. R. Fischer, Y. Gonzalez-Garcia, A.J.M.C. Mol, T. E. Hughes</b>
10	Trimethylolpropanetriacrylate Loaded Nanopores Pc Films With Self-Healing Potential <b>R. Iskakov, A. Périchaud, A. Muzdubaeva1, L. Caserta, A. Mirsakieva, B. Khudaibergenov, I. Razumovskaya, P. Apel</b>
11	Self-Healing Coatings For Concrete Protection <b>Y-K. Song, Y-H. Jo, Y-J. Lim, H-C. Yu, B-C. Ryu, S. I. Lee, C-M. Chung</b>
12	Self-Healing Composites For Use In Space <b>M. Kay, R.S. Trask, I.P. Bond</b>
13	Self-Healing Approach For Enhanced Reliability Of Light Emitting Diodes <b>U. Lafont, H. Van Zeijl, S. Van Der Zwaag</b>
14	Binary Vascular System In Self-Healing Epoxy Matrix <b>S. Vidinejevs, A. Aniskevich</b>
15	Encapsulated Rejuvenators For Asphalt <b>A. García, E. Schlangen, M. Van De Ven</b>
16	Experimental Design To Probe Autonomic Restoration Of Electrical Conductivity <b>S. L.B. Kramer, B.J. Blaiszik, S.A. Odom, M.E. Grady, D.A. Mcilroy, J.S. Moore, S.R. White, N.R. Sottos</b>
17	SANS And NSE On Self-Healing Model Polymers <b>AR. Brás, J Cortese, W Pyckhout-Hintzen, A Wischnewski, M Monkenbusch, A Radulesco, M Zamponi, C Soulié-Ziakovic, F Tournilhac, J Allgaier, L Leibler, D Richter</b>
18	Novel Polymeric Porous Media For Delivery Of Self Healing Agents <b>D. Cegla, J. Steinke, A. Bismarck</b>
19	Design Of Encapsulation Strategies For The Insertion Of Self-Healing Agents In Thermosets <b>C.A. L. Colard, X. K. D. Hillewaere, A.V. Beirão, P. Vandendaele, K. Eufinger, F. E. Du Prez</b>
20	Synthesis Of Nanocontainers For Self-Healing Reactions Based On Romp <b>J. Fickert, K. Landfester, D. Crespy</b>
21	Microencapsulation Of Self Healing Agents For Corrosion Control Coatings <b>S.T. Jolley, W.Li, J.W. Buhrow, L.M. Calle</b>
22	Microcapsules With Tunable Dimensions And Mechanical Properties Made Using Microfluidics <b>P. W. Chen, R. M. Erb And A. R. Studart</b>
23	Biomimetic Fiber Reinforced Composite With Damage Visualization Capability <b>S. Vidinejevs, O. Strekalova, A. Aniskevich</b>
24	Multiple-Action Self-Healing Coatings Based On Reversible Polymer Network Systems <b>J. Brancart, T. Muselle, G. Scheltjens, B. Van Mele, H. Terryn, G. Van Assche</b>
25	Self-Healing Property Characterization Of Reversible Thermoset Coatings <b>G. Scheltjens, J. Brancart, I. De Graeve, B. Van Mele, H. Terryn, G. Van Assche</b>
26	Modeling Degradation And Self-Healing Of Materials On The Basis Of The Crack Bridging Approach <b>M. Perelmuter</b>
27	Optimized Hydrogel For Application As Repairing Agents In Cement Based Products <b>M.J. López-Tendero, P. Díaz, J.M. Lloris, C. Gamón</b>
28	Self-Healing Supramolecular Polymer And Polymer Nanocomposites <b>Z. Liu, N.A.M. Besseling, E. Mendes, S.J. Picken</b>