

# Engineering for Life Annual Conference: 12th January 2011

13:30	<b>Professor Steve Haake</b> Centre for Sports Engineering Research, Sheffield Hallam University	<b>Introduction</b>
13:35		
13:40	<b>Professor Chris Care</b> Materials and Engineering Research Institute, Sheffield Hallam University	<b>Welcome</b>
13:45		
13:50	<b>Dr Mark Miodownik</b> <b>Kings College, London</b>  "The Importance of Stuff"	<p>Mark Miodownik is an engineer and materials scientist. He received his Ph.D in turbine jet engine alloys from Oxford University in 1996. He has a joint appointment in both the Engineering Division and Physics Department of King's College London where his main research area is self-healing materials. He is Research Director of the Institute of Making which is a multidisciplinary research club for makers, and those interested in the made world: from makers of molecules to makers of buildings, synthetic skin to spacecraft, soup to clothes, furniture to cities.</p> <p>Mark is a broadcaster and writer on science and engineering issues, and believes passionately that to engineer is human. He regularly gives popular talks on engineering and physics to tv, radio, festival, and school audiences and gave the 2010 Ri Christmas Lectures which were broadcast on BBC Four. Mark was recently included in the The Times list of the top 100 most influential people in science (coming in at no. 89).</p>
13:55		
14:00		
14:05		
14:10		
14:15		
14:20		
14:25		
14:30		
14:35		
14:40	<b>Dr Christine Le Maitre</b> Biomedical Research Centre, Sheffield Hallam University	<p>Dr Le Maitre has a 1st class honors degree in Pharmacology with Industrial or Professional Experience from Manchester University in 2000, and completed a PhD in Pathogenesis of disc degeneration: IL-1 as a therapeutic target in 2003. She remained at Manchester University as a Sir Henry</p>
14:45		
	"Interdisciplinary Joints"	

14:50		<p>Royce Postdoctoral Research Associate for a further 5 years investigating pathogenesis of intervertebral disc degeneration. Dr Le Maitre joined Sheffield Hallam University as Senior Lecturer in Molecular and Cellular Biology in February 2008 and her main areas of interest are pathogenesis and treatment of musculoskeletal disorders and novel leukaemia therapies.</p> <p>Christine will present two projects funded by Engineering for Life: 'Hydro-Delivery for the Back' and 'Joints for Life'. Both projects are a collaboration between the Biomedical Research Centre (BMRC) and the Materials and Engineering Research Institute (MERI) with the aim of using novel materials technology to enhance people's lives.</p>
14:55 15:00 15:05 15:10	<b>Interval</b>	
15:15 15:20 15:25 15:30	<p><b>Dr Heidi Probst</b> Faculty of Health and Wellbeing, Sheffield Hallam University</p> <p>"Supporting Patients with Breast Cancer through radiotherapy: Giving Patients a Lift!"</p>	<p>Heidi undertook radiotherapy training at The London Hospital, qualifying in 1987. After clinical experience at the Leeds Cancer Centre she specialised in field Radiotherapy simulation, carrying out a clinical PhD involving a randomised controlled trial of over 300 women investigating the application of radiotherapy for breast cancer. She joined the Radiotherapy and Oncology team at Sheffield Hallam University as a senior lecturer, is a member of the College of Radiographers and the National Cancer Research Institute Clinical and Translational Radiotherapy Research group.</p> <p>This presentation will outline an Engineering for Life funded project to develop a breast immobilisation device that will lift large (or pendulous) breasts during treatment to reduce side effects and enhance overall cosmesis (aesthetic satisfaction) while also</p>

		improving the modesty and dignity of patients during the treatment process.
15:35 15:40 15:45 15:50	<b>Julie Westerman</b> Art and Design Research Centre, Sheffield Hallam University  "Fly birdie fly"	<p>Julie is a lecturer in Fine Art at Sheffield Hallam University having gained previously a BA in Sculpture from the Chelsea School of Art and an MA in Fine Art from Birmingham Polytechnic. Her current research seeks to explore the link between digital animation and sculptures created by rapid prototyping processes. Recent public art commissions include (with Lulu Quinn) <i>Critical Mass</i> animated steam and steel sculpture, University of Wolverhampton; <i>Where R U Text</i> projection, Cathedral Square, Wakefield; exhibitions of cast iron, <i>For the Sake of Appearance Gallery</i>, Guignard Belo Horizonte, Brazil; Femm Catherine Murphy, Gallery St Paul, Minnesota.</p> <p>This presentation will describe an Engineering for Life funded collaboration with Dr John Hart in the Centre for Sports Engineering Research. Its aim is to bring art, science and sport together using digital art to show the intricacies and beauty when science and engineering is used to enhance performance in sport.</p>
15:55 16:00 16:05 16:10 16:15 16:20 16:25 16:30	<b>Prof Alan Read</b> Kings College, London  "Performance Matters"	<p>Alan Read is currently Professor of Theatre at King's College London. In the 1980s Alan was director of Rotherhithe Theatre Workshop, a neighbourhood theatre based in the Docklands area of South East London; in the 1990s he worked as a freelance writer in Barcelona and was Director of Talks at the Institute of Contemporary Arts in London; and from 1997-2006 he was Professor of Theatre at Roehampton University where he directed a five year AHRC research funded programme on performance, architecture and location exploring theatre and public ceremonial in rational housing blocks and council estates.</p> <p>Alan is currently working on a research project entitled "Engineering Spectacle:</p>

16:35		<p>Inigo Jones Past &amp; Present Performance at Somerset House" supported by a Leverhulme Major Research Fellowship. 'Engineering Spectacle' seeks to explore how Inigo Jones' legacy of past practices combining engineering, architecture, theatricality and 'event choreography' could become resources for research into performance and their relations to practices of politics in the present. Taking Jones' long commitment to the site of Somerset House as a focus (a site that since the early 19th century has included the King's College Strand estates) this project will deliver the research necessary to underpin the development of three new performance venues and a research centre for the practical exploration of the relationship between performance, political process and public understanding.</p>
16:40 16:45	<p><b>Prof Paul Chamberlain</b> Art and Design Research Centre, Sheffield Hallam University</p>	<p><b>Thank you</b></p>
<p><b>Drinks reception</b></p>		