

# INCONTINENCE: THE ENGINEERING CHALLENGE IX.

Institution of  
**MECHANICAL  
ENGINEERS**

Biomedical Engineering Association  
**Seminar**

5-6 November 2013  
London  
[www.imeche.org/events/S1770](http://www.imeche.org/events/S1770)



**ABSTRACTS AND FURTHER  
EVENT INFORMATION  
CAN BE VIEWED AT**  
[www.imeche.org/events/S1770](http://www.imeche.org/events/S1770)

## WHY YOU SHOULD BE THERE

### **Examining existing solutions and solving current engineering problems, this biennial event is the principal European meeting in this vital area of medical engineering.**

The Institution's Incontinence series has a reputation for engineering excellence, and brings together scientists, clinicians, researchers, commercial designers and producers, nurses, carers and users.

People with incontinence – and caregivers – will share their experiences and describe the

incontinence management problems they would most like solved. As well as invited lectures on state-of-the-art developments and techniques, experts from outside the incontinence world will present technologies with the potential to revolutionise current thinking.

## KEY TOPICS COVERED:

- Recent work on technology to manage incontinence as well as diagnose and treat it
- Limitations of existing technology and work to overcome them
- Initiatives to devise brand new solutions

### WHEN

5-6 November 2013

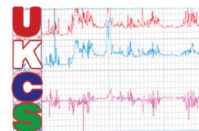
### WHERE

One Birdcage Walk, Westminster, London, SW1H 9JJ

### BOOK ONLINE

[www.imeche.org/events/S1770](http://www.imeche.org/events/S1770)

## SUPPORTING ORGANISATIONS



## SPONSORSHIP OPPORTUNITIES

This event provides a superb opportunity for medical engineering companies to reach a targeted audience of key industry representatives and researchers. Sponsorship packages will provide an opportunity to further enhance your company profile by supporting one of the many aspects of the event. Medical engineering events consistently attract a broad range of delegates, from industrial and academic researchers to practicing clinicians.

To talk through how to get the best for your company from this event, call **Aman Duggal** on +44 (0)20 7973 1309 or email [sponsorship@imeche.org](mailto:sponsorship@imeche.org)

## SPEAKERS AND CONTRIBUTORS



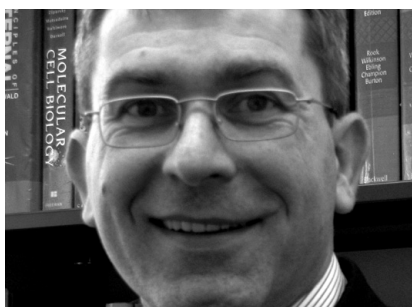
**MARK MIODOWNIK**  
PROFESSOR OF MATERIALS AND  
SOCIETY, MECHANICAL ENGINEERING  
DEPARTMENT, UCL, UK



**KENNY SOUTHALL**  
INSTITUT RAYMOND DEWAR,  
MONTREAL, CANADA



**JIM MINETOLA**  
TECHNICAL SERVICES DIRECTOR,  
FIRST QUALITY PRODUCTS, USA



**HANS SMOLA**  
DEPARTMENT OF DERMATOLOGY,  
UNIVERSITY OF COLOGNE AND  
PAUL HARTMANN AG, GERMANY

## PROGRAMME

DAY 1		TUESDAY 5 NOVEMBER
<b>WELCOME</b>	<b>8:45</b>	<b>REGISTRATION</b>
	<b>9:20</b>	<b>WELCOME AND INTRODUCTION</b>
<b>SESSION 1 SETTING THE SCENE</b>		<b>CHAIR: ALAN COTTENDEN, PROFESSOR OF INCONTINENCE TECHNOLOGY, DEPARTMENT OF MEDICAL PHYSICS AND BIOENGINEERING, UNIVERSITY COLLEGE LONDON</b>
	<b>9:25</b>	<b>KEYNOTE: IN MY CRYSTAL BALL: THE FUTURE OF INCONTINENCE TECHNOLOGY</b> Katherine Moore, Faculty of Nursing, University of Alberta, Canada
<b>SESSION 2 NEW PERSPECTIVES I</b>		<b>CHAIR: ALAN COTTENDEN</b>
	<b>9:55</b>	<b>KEYNOTE: A MATERIALS PERSPECTIVE</b> Mark Miodownik, Professor of Materials and Society, Mechanical Engineering Department, University College London, UK
	<b>10:25</b>	<b>KEYNOTE: INCONTINENCE AND STIGMATISATION</b> Kenny Southall, Institut Raymond Dewar, Montreal, Canada
	<b>10:55</b>	<b>REFRESHMENTS</b>
<b>SESSION 3 WHAT MEN WANT</b>		<b>CHAIR: MARGARET MACAULAY, CONTINENCE AND SKIN TECHNOLOGY GROUP, UNIVERSITY COLLEGE LONDON</b>
	<b>11:25</b>	<b>A TRIAL OF DEVICES FOR INTRACTABLE URINARY INCONTINENCE FOLLOWING PROSTATE CANCER SURGERY</b> Margaret Macaulay, Continence and Skin Technology Group, University College London, UK Co authors: J Broadbridge, B Birch, K Moore, A Cottenden, M Fader
	<b>11:45</b>	<b>MALE CONSUMER PANEL</b>
	<b>12:25</b>	<b>LUNCH</b>
<b>SESSION 4 ABSORBENT PRODUCTS</b>		<b>CHAIR: MANDY FADER, UNIVERSITY OF SOUTHAMPTON, UK</b>
	<b>13:25</b>	<b>QUALITY STANDARDS FOR ABSORBENT INCONTINENCE PRODUCTS</b> Jim Minetola, Technical Services Director, First Quality Products, USA
	<b>13:45</b>	<b>MEASURING COMFORT FOR HEAVILY-INCONTINENT PATIENTS ASSISTED BY ABSORBENT PRODUCTS IN SEVERAL CONTEXTS</b> Leslie Pendrill, SP Measurement Technology, Sweden Co authors: J Dagman, R Emardson, S Kanerva, A Farbrot, S Abbas, A Nihlstrand
	<b>14:05</b>	<b>STUDY OF PERCEIVED THICKNESS IN ABSORBING INCONTINENCE PRODUCTS</b> Shabira Abbas, SCA Hygiene Products AB, Sweden
	<b>14:25</b>	<b>BIOACTIVE MATERIALS IN DIAPER DESIGN: THE GROWTH INHIBITORY ACTIVITY OF CURLED FIBRE FOR PATHOGENIC BACTERIA</b> Hans Smola, Department of Dermatology, University of Cologne, Germany and Paul Hartmann AG Co authors: L Serazhutdinova, N Isaeva, E Kolesnikova, J Eilers, A Ebert and R Kesselmeier



## SPEAKERS AND CONTRIBUTORS



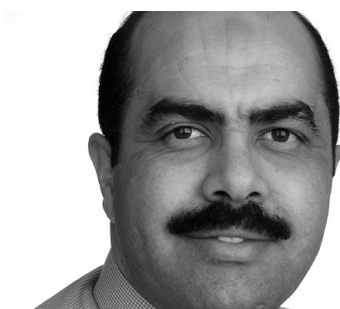
**MANDY FADER**  
UNIVERSITY OF SOUTHAMPTON, UK



**RICHARD DAY**  
UNIVERSITY COLLEGE LONDON, UK



**HÅKAN LEANDER**  
SWEDISH INSTITUTE OF ASSISTIVE  
TECHNOLOGY, SWEDEN



**BASHIR LWALEED**  
UNIVERSITY OF SOUTHAMPTON, UK

## PROGRAMME (CONTINUED)

**14:45** **CHARACTERISING THE INTERACTION BETWEEN FLUIDS AND SUPERABSORBENT POLYMERS USED IN INCONTINENCE PRODUCTS**  
Mihaela Soric and Alan Cottenden, University College London, UK

**15:05** **REFRESHMENTS**

### SESSION 5 INCONTINENCE AND SKIN HEALTH

**CHAIR: HANS SMOLA, UNIVERSITY OF COLOGNE AND PAUL HARTMANN AG, GERMANY**

**15:25** **INCONTINENCE ASSOCIATED DERMATITIS OR EARLY STAGE PRESSURE ULCER: WHERE ARE WE NOW?**  
Dr Lisette Schoonhoven, University of Southampton, UK and Radboud University Nijmegen Medical Centre, the Netherlands  
Co authors: D Beckman and M Fader

**15:45** **THE ROLE OF ABSORBING AIDS IN HOLISTIC SKIN CARE FOR INCONTINENT ELDERLY**  
Maria Sköld and Shabira Abbas SCA Hygiene Products AB, Sweden

**16:05** **ABSORBENT PAD DESIGN AND INCONTINENCE-ASSOCIATED DERMATITIS - IS THE LOCATION AND SEVERITY OF IAD AFFECTED BY USING DIFFERENT PAD DESIGNS IN NURSING HOME RESIDENTS?**  
Sinead Clarke-O'Neill, Continence and Skin Technology Group, University College London, UK  
Co authors: A Cottenden and M Fader

**16:25** **FRICITION BETWEEN HUMAN SKIN AND THE NONWOVEN TOPSHEET OF ABSORBENT CONTINENCE PRODUCTS**  
Sabrina Falloon and Alan Cottenden, Continence and Skin Technology Group, University College London, UK

### SESSION 6 SPHINCTER MUSCLE REGENERATION

**CHAIR: ALAN COTTENDEN**

**16:45** **TIPS FOR IMPROVING RINGS WITH SPHERES**  
Richard Day, University College London, UK

**17:20** **CLOSING REMARKS**

**17:25** **RECEPTION**

**19:00** **CLOSE**

**DAY 2** **WEDNESDAY 6 NOVEMBER**

**8:30** **REGISTRATION**

**9:00** **WELCOME**

## SPEAKERS AND CONTRIBUTORS



**LISETTE SCHOONHOVER**  
READER, UNIVERSITY OF  
SOUTHAMPTON



**SABRINA FALLOON**  
CONTINENCE AND SKIN TECHNOLOGY  
GROUP, UNIVERSITY COLLEGE LONDON,



**MIHAELA SORIC**  
UNIVERSITY COLLEGE LONDON



**LESLIE PENDRILL**  
SP MEASUREMENT TECHNOLOGY

## PROGRAMME (CONTINUED)

### SESSION 7 NEW PERSPECTIVES II

**CHAIR: ALAN COTTENDEN,  
UNIVERSITY COLLEGE OF LONDON**

**9:05 KEYNOTE: DEVICE DEVELOPMENT FOR CONTINENCE  
MANAGEMENT: WHAT CAN WE LEARN FROM THE MESS  
WITH MESH?**

Mark Slack, Head of Urogynaecology and Pelvic Floor  
Reconstructive Surgery, Senior Clinical Fellow,  
University of Cambridge, UK

**9:35 KEYNOTE:  
TBC**

### SESSION 8 WHAT WOMEN WANT

**CHAIR: MARGARET MACAULAY, UNIVERSITY COLLEGE  
OF LONDON**

**10:05 FEMALE CONSUMER PANEL**

**10:55 REFRESHMENTS**

### SESSION 9 INSTRUMENTATION

**CHAIR: IAN SUTHERLAND, BRUNEL UNIVERSITY**

**11:20 APPLIED META-HEURISTIC ALGORITHMS IN  
INCONTINENCE DETECTION: A FOCUS ON TRAINING  
AND VERIFICATION DATA**

Hadi Mashinchi, Research Project Manager and  
Peter Curran, Simavita, Australia

**11:40 CLINICAL EVALUATION OF SMART UNDERWEAR**  
Adele Long, Director, Bristol Urological Institute, UK

**12:00 PEEPOD**  
Michael Whitaker, Medical Physics, Royal Victoria Infirmary,  
Newcastle upon Tyne Hospitals NHS Foundation Trust, UK

### SESSION 10 NETWORK INITIATIVES

**CHAIR: ALAN COTTENDEN**

**12:20 DEVICES FOR DIGNITY: IMPROVING THE LIVES OF  
THOSE WITH URINARY INCONTINENCE**

Avril McCarthy, MedTech Lead and Lead Clinical Scientist,  
Sheffield Teaching Hospitals NHS Foundation Trust, UK

**12:35 MEETING UNMET CLINICAL NEEDS IN LUTS THROUGH  
NEW PARTNERSHIPS AND NEW APPROACHES**

Paul O'Brien, Chief Executive Officer, Elaros 24/7, Sheffield, UK

**12:50 Q&A**  
Featuring the session's speakers

**13:00 LUNCH**

### SESSION 11 NETWORK INITIATIVES

**CHAIR: TBC**

**13:50 THE CONTINENCE PRODUCT ADVISOR: A NEW WEBSITE  
FOR SELECTING AND USING CONTINENCE PRODUCTS**

Margaret Macaulay, Continence and Skin Technology Group,  
University College London, UK  
Co authors: S Clarke-O'Neill, A Cottenden, M Fader, D Knight,  
D Turner, R Blackmore and A Brooks

**14:05 NIKOLA: A NETWORK FOR INCONTINENCE**  
Håkan Leander, Swedish Institute of Assistive Technology, Sweden

## SPEAKERS AND CONTRIBUTORS



**CATHY MURPHY**  
UNIVERSITY OF SOUTHAMPTON



**CHARLOTTE  
YEARWOOD-MARTIN**  
UNIVERSITY OF SOUTHAMPTON



**DR MIRIAM AVERY**  
UNIVERSITY OF SOUTHAMPTON

## PROGRAMME (CONTINUED)

### SESSION 12 CATHETERS

- 14:20 Q&A**
- 14:30 DEVELOPING A PATIENT REPORTED OUTCOME MEASURE FOR ABSORBENT PAD USERS: WHAT MATTERS TO PATIENTS?**  
Charlotte Yearwood-Martin, University of Southampton, UK  
Co authors: A Cottenden, N Cotterill and M Fader
- CHAIR: MARK SLACK, HEAD OF UROGYNÆCOLOGY AND PELVIC FLOOR RECONSTRUCTIVE SURGERY, SENIOR CLINICAL FELLOW, UNIVERSITY OF CAMBRIDGE**
- 14:50 CAN A pH SENSOR PREDICT CATHETER BLOCKAGE FOR PATIENTS WITH INDWELLING URINARY CATHETERS?**  
Julia Edwards, Bristol Urological Institute, UK
- 15:05 THE BATTLE AGAINST URINARY BIOFILMS: NEW APPROACHES IN DETECTION, CONTROL AND PREVENTION**  
Sandra Wilks, Faculty of Natural and Environmental Sciences, Centre for Biological Sciences, University of Southampton, UK  
Co authors: J Prieto, M Fader and CW Keevil
- 15:20 Q&A**
- 15:30 INDICATIONS AND DECISIONS ABOUT INSERTING CATHETERS IN ACUTE MEDICAL AND EMERGENCY CARE: AN ANALYSIS**  
Cathy Murphy, University of Southampton, UK  
Co authors: J Prieto and M Fader
- 15:40 LONG-TERM CATHETER USERS IN THE COMMUNITY: A PATIENT, GP AND COMMUNITY NURSE SURVEY OF PREVALENCE, PROBLEMS AND QUALITY OF LIFE**  
Dr Miriam Avery, University of Southampton, UK  
Co authors: N Cotterill, S Fowler, M Fader, A Cottenden and H Gage
- 15:50 CATHETER VALVES: ARE THEY BETTER FOR THE BLADDER THAN USING CONTINUOUS DRAINAGE INTO URINARY BAGS?**  
Bashir Lwaleed, Lecturer, University of Southampton, UK  
Co authors: M Fader and B Birch
- 16:00 Q&A**
- 16:05 CLOSING REMARKS**
- 16:10 CLOSE**

**Find out more about our speakers at [www.imeche.org/events/S1770](http://www.imeche.org/events/S1770)**

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

### **Biomedical Engineering Association Organising Committee:**

Alan Cottenden (Chair), University College London  
Mandy Fader, University of Southampton  
Margaret Macaulay, University College London  
Ian Sutherland, Brunel University  
Hans Smola, University of Cologne and Paul Hartmann AG  
Mark Slack, University of Cambridge

# BOOKING FORM

BIOMEDICAL ENGINEERING ASSOCIATION  
**INCONTINENCE: THE ENGINEERING  
CHALLENGE IX.**  
5-6 NOVEMBER 2013  
**S1770**

## REGISTRATION Please complete in capitals.

Family Name	Title (Mr, Mrs, Miss)
First Name	Job Title
Membership No	Institution
Name of Organisation (for name badge)	
Address for correspondence	
Town/City	
Postcode	
Contact Telephone	
Email	
Do you have any special requirements?	
How did you hear about this event? <input type="checkbox"/> Direct mail <input type="checkbox"/> Website <input type="checkbox"/> Colleague <input type="checkbox"/> Other	

## FEES AND CHARGES Please complete the appropriate box.

Registration fees include entry to the sessions, refreshments, lunch, and a copy of the event proceedings.

DELEGATE FEES	Fee	VAT	Total	£
Institution of Mechanical Engineers Member	£345.00	£69.00	£414.00	_____
Presenting author	£120.00	£24.00	£144.00	_____
Clinicians / Carers	£120.00	£24.00	£144.00	_____
Member of supporting organisation	£345.00	£69.00	£414.00	_____
Non-Member	£440.00	£88.00	£528.00	_____
Student (first 5 registrations)	£50.00	£10.00	£60.00	_____
Student / Retired Member	£110.00	£22.00	£132.00	_____

EXTRA ITEMS	Fee	VAT	Total	£
Invoice Charging (if applicable)	£10.00	£2.00	£12.00	_____
			<b>Total</b>	_____

## PAYMENT DETAILS

Payment must accompany this registration form. Registration will be confirmed only on receipt of full payment.

Please indicate method of payment:  Cheque  Credit Card  BACS  Invoice (see below)

Cheques should be made payable to IMechE and crossed. Please note international delegates may pay only by credit card, BACS or banker's draft. A copy of the draft must accompany this form. It is the delegate's responsibility to pay any bank charges.

**Credit Card:**  Visa  MasterCard (please note we cannot accept American Express, Diners Club or Maestro)

Card No	Valid From	/	Expiry Date	/
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## EVENT REGISTRATIONS

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Fax +44 (0)20 7222 9881

For registration enquiries call  
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Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

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[www.imeche.org/events/S1769](http://www.imeche.org/events/S1769)

12-13 November 2013, London

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27 February 2014, London

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