# PUBLIC TRAVEL AND TRANSPORT FOR OLDER PEOPLE



Biomedical Engineering Association **Conference** 

10–11 June 2014 One Birdcage Walk, London www.imeche.org/events/C1405



# This conference will give delegates new ideas on public travel and transport for older people from both an engineering and a social-medical standpoint.

With an ageing population there is a growing demand for better transport facilities that are simple and easy to use. The only way to do this is by analysing the demands and requirements of older travellers: what exactly they need in terms of the design and accessibility of public transport, from bus to train travel. Add to this the cognitive issues of providing an effective ticketing system and travel information, it is obvious that more thought must go into these services.

The programme will demonstrate how to increase passenger numbers and produce new designs with older travellers in mind. The event will also draw attention to the issues of aircraft and airport design to include older people, as some technology and ticketing systems may be moving too quickly for this generation to feel secure with air travel.

## Who should attend?

- Bioengineers
- Transport engineers and managers
- Vehicle designers
- Planners
- Carers
- Social scientists

# BENEFITS OF ATTENDANCE

- Understand the demands and requirements of older travellers
- Analyse the issues related to physical aspects of vehicle design and public transport access
- Assess the issues of providing simple-to-use ticketing and travel information

# TECHNICAL ADVANTAGES

- Learn about the new thinking and direction that transport companies will take to address this issue
- Increase passenger numbers and usage
- Produce new designs with older travellers in mind
- Find out about interdisciplinary approaches to transport design
- Gain knowledge about international designs as well as those focused on the UK

WHEN10–11 June 2014WHEREOne Birdcage Walk, London SW1H 9JJBOOK ONLINEwww.imeche.org/events/C1405

# **MEDIA PARTNER**



**Biomedical Engineering Association Organising Committee:** Garth Johnson School of Mechanical and Systems Engineering.

th Johnson School of Mechanical and Systems Engineering, Newcastle University

# **SPONSORSHIP & EXHIBITION OPPORTUNITIES**

## **GET INVOLVED**

Attending this event as either an exhibitor or sponsor will give you the opportunity to display your solutions, services and products to the right people at the right time.

This is an excellent way to enhance your company profile and communicate effectively to your target audience.

## **BENEFITS OF SPONSORING**

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- Influence other organisations' spending plans

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# **SPEAKERS** AND CONTRIBUTORS

## LYNDSEY MELBOURNE

STATISTICIAN, DEPARTMENT FOR

TRANSPORT Lyndsey Melbourne manages the National Travel Survey. Lyndsey joined the Government Statistical Service in 2000, working in a number of departments before joining DfT in 2006.

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## SAMUEL DICKINSON

STATISTICIAN, DEPARTMENT FOR TRANSPORT

Samuel Dickinson works in the National Travel Survey team, the only survey in Great Britain designed to track longterm trends in personal travel. Samuel joined the Civil Service in 2009 and prior to DfT worked at the Department for Communities and Local Government.

## JUDITH GREEN

PROFESSOR OF SOCIOLOGY OF HEALTH, FACULTY OF PUBLIC HEALTH AND POLICY, LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE Judith Green is a sociologist with interests in the relationships between transport and public health. She has researched and published widely on risk, inequalities in road injury, the sociology of walking and cycling, as well as evaluations of transport interventions.

## **PHILIP BARHAM**

IN-HOUSE CONSULTANT, TRANSPORT & TRAVEL RESEARCH LTD. Philip Barham has specialised in the mobility of older and disabled people for over 25 years. Since February 2011 Philip has worked as a freelance consultant while engaged by TTR Ltd as an In-House Consultant on a number of projects, including ASSISTANT.

NICK TYLER CHADWICK PROFESSOR OF CIVIL ENGINEERING, UCL AND PRO-PROVOST, EAST AND SOUTH ASIA Nick Tyler works with clinical, engineering, social science, arts and humanities researchers in order to explore exactly how a person interacts with their immediate environment. His work spans from understanding how neurons respond to environmental stimuli to how the environment can be designed to make this easier.

## LESZEK DOBROVOLSKY

DIRECTOR, ARUP

Leszek Dobrovolsky has extensive international experience in the leadership, planning and design of major transport development projects. His key skills have been developed in the leadership of several international commissions, testing strategies in terms of transport and planning criteria through analysis of physical development implications.

## PROGRAMME DAY 1 TUESDAY 10 JUNE 2014

	MME DAY I TUESDAY TUJUNE 2014
09:30	<b>REGISTRATION &amp; REFRESHMENTS</b>
10:00	WELCOME & INTRODUCTION Garth Johnson, School of Mechanical and Systems Engineering, Newcastle University
ESSION 1	SOCIAL AND ECONOMIC ASPECTS
10:15	THE GREAT BRITISH TRAVELLER: INSIGHTS FROM THE
	<ul> <li>NATIONAL TRAVEL SURVEY</li> <li>Lyndsey Melbourne, Statistician and Samuel Dickinson, Statistician, Department for Transport <ul> <li>Long-term trends within the NTS (setting the scene)</li> <li>Latest results with a focus on demographics of transport users</li> <li>Focusing on older people's travel behaviour</li> </ul> </li> </ul>
10:45	<ul> <li>MORE THAN GETTING FROM A TO B: THE ROLE OF PUBLIC TRANSPORT FOR SOCIAL SUPPORT, HEALTH AND LONELINESS FOR OLDER ADULTS</li> <li>Judith Green, Professor of Sociology of Health, Faculty of Public Health and Policy, London School of Hygiene and Tropical Medicine</li> <li>Good access to public transport is vital for accessing goods, services and social support</li> <li>The ability to make discretionary, as well as necessary, trips is important for wellbeing</li> <li>How free bus passes, in the context of good bus provision, foster social inclusion and mitigate loneliness</li> </ul>
11:15	<b>THE TRAVEL EXPERIENCE</b> VOICE North (Valuing Our Intellectual Capital and Experience) Newcastle University • A time-lapse film of a multimodal journey by an older person
11:45	<ul> <li>WHAT DO PASSENGERS THINK ABOUT THEIR PUBLIC TRANSPORT?</li> <li>Jocelyn Pearson, Rail Passenger Manager, Passenger Focus</li> <li>Travelling with disability and mobility impairment</li> <li>Bus and rail service satisfaction</li> </ul>
12:15	<b>O&amp;A PANEL</b> Session 1 speakers
12:45	NETWORKING LUNCH
SESSION 2	USING PUBLIC TRANSPORT
13:45	<ul> <li>HOW MOBILE COMMUNICATION TECHNOLOGY CAN ENHANCE THE MOBILITY OF OLDER PEOPLE: THE ASSISTANT APP</li> <li>Philip Barham, In-House Consultant, Transport &amp; Travel Research Ltd</li> <li>How modern communications technology has the power to exclude, as well as enable</li> <li>What do older people require in order for mobile technology to be accessible to them?</li> <li>ASSISTANT: An example of a mobile app being designed to help older people when using public transport</li> </ul>
14:15	<ul> <li>A SPRING IN YOUR STEP: MAKING PUBLIC TRANSPORT PUBLIC FOR OLDER PEOPLE</li> <li>Nick Tyler, Chadwick Professor of Civil Engineering, Accessibility Research Group, University College London</li> <li>The key features of public buildings for safe use by older people</li> <li>Appropriate design of stairs and steps</li> <li>Future design of public spaces for use by older people</li> </ul>
14:45	<ul> <li>DESIGN OF STATIONS AND INTERCHANGES — WHAT CAN BE ACHIEVED?</li> <li>Leszek Dobrovolsky, Director, Arup</li> <li>The major challenges of large interchanges</li> <li>The need for clear and appropriate information</li> <li>Aspects of vehicle boarding and access</li> </ul>
15:15	<b>NETWORKING REFRESHMENT BREAK &amp; EXHIBITION</b>
15:45	<ul> <li>REGULATIONS FOR THE DESIGN OF RAIL VEHICLES</li> <li>Andrew Cashaw, Director, Design Triangle Limited</li> <li>An understanding of practical issues</li> <li>An engineering designer's view point</li> </ul>
16:10	<ul> <li>THE PHYSICAL DESIGN OF BOARDING AND LEAVING</li> <li>Alan Norton, Chief Executive, Assist UK</li> <li>Inclusive design: what are the challenges?</li> <li>Shared space: the reality</li> <li>Planning for the future</li> </ul>
16:40	O&A PANEL Session 2 speakers
17:00	DRINKS RECEPTION IN THE LIBRARY
17:10	<b>KEYNOTE ADDRESS</b> Simon Craven, Special Adviser, Go-Ahead Group
18:00	CLOSE OF DAY ONE

# SPEAKERS AND CONTRIBUTORS

## **ALAN NORTON**

CHIEF EXECUTIVE, ASSIST UK Alan Norton has served as CEO of Assist UK for 8 years. He spent most of his working life in finance, holding a senior position for a multinational battery manufacturer. He has worked for DPTAC for 10 years and is deputy chair of DMUK, bringing real knowledge of disabled travellers' experiences and expectations. He more recently headed a team helping Nissan design a fully accessible taxi.

## **PIP LOGAN**

PROFESSOR OF REHABILITATION RESEARCH, UNIVERSITY OF NOTTINGHAM Pip Logan specialises in treating and researching stroke rehabilitation and older people's health issues. Her research work has real clinical impact for patients by exploring outdoor mobility solutions for older people who have suffered a stroke or struggle with dementia.

## **JOSEF HARGRAVE**

SENIOR CONSULTANT, ARUP Josef Hargrave is responsible for the foresight activities and consulting services of Arup across Europe. Josef manages the delivery of market-specific trend reports, visions, scenarios, innovation processes and stakeholder workshops. His work supports corporate strategy, product and service innovation, risk management, and the identification of future growth fields. Josef's projects combine corporate foresight with Arup's global engineering and consulting expertise, providing clients with unique insights on the future.

## **CHRISTOPHER MITCHELL**

FORMERLY OF THE TRANSPORT RESEARCH LABORATORY Christopher Mitchell retired from TRL in 1994, where he had been Head of Divisions covering accessibility and environmental topics, as well as leading research on transport for people with disabilities. He has subsequently studied the safety of older drivers and general road safety.

## **HELEN DOLPHIN**

DIRECTOR OF POLICY AND CAMPAIGNS, DMUK

Helen Dolphin has led many successful campaigns on improving access to car parks for disabled people, reforming the Blue Badge scheme and working to improve parking at healthcare facilities. Helen previously worked as a news reporter for Anglia Television, where her report on inaccessible bus services earned her one of ITV's top awards.

## **GRAHAM FOOTER**

CHIEF EXECUTIVE, DMUK

Graham Footer became the Chief Executive of Disabled Motoring UK at the beginning of 2010 and has overseen many changes at the charity. He has led the charity in a new direction with a strategic plan to increase membership and raise the profile of the organisation.

## PROGRAMME DAY 2 WEDNESDAY 11 JUNE 2014

09:00	WELCOME REFRESHMENTS
SESSION 3	THE JOURNEY
09:30	<ul> <li>TRANSPORT AND EXERCISE - WHAT IS REALISTIC?</li> <li>Professor Pip Logan, Professor of Rehabilitation Research, University of Nottingham</li> <li>Results from a multi-centre randomised controlled trial of an outdoor mobility intervention</li> <li>Results from a study investigating falls by older people while using public transport</li> <li>Ideas to keep older people using public transport and walking outside</li> </ul>
10:00	<ul> <li>VEHICLES AND INTELLIGENT TRANSPORT: FUTURE MOBILITY FOR THE ELDERLY</li> <li>Josef Hargrave, Senior Consultant, Arup</li> <li>The future of urban mobility</li> <li>Working on a range of new solutions for urban mobility</li> <li>Key trends shaping the future of mobility in cities and their implications for the elderly</li> </ul>
10:30	<ul> <li>THE MOBILITY AND SAFETY OF OLDER TRAVELLERS</li> <li>Christopher Mitchell, Formerly of the Transport Research Laboratory</li> <li>The reduction in journeys people make as they age</li> <li>The low rate of road accident involvement but high rate of serious and fatal injuries in older people</li> <li>Improving pedestrian infrastructure and public transport systems for the mobility and safety of older people</li> </ul>
11:00	NETWORKING REFRESHMENT BREAK
11:20	<ul> <li>ELECTRIC SCOOTERS - ARE THEY FIT FOR PURPOSE?</li> <li>Helen Dolphin, Director of Policy and Campaigns and Graham Footer Chief Executive, Disabled Motoring UK (DMUK)</li> <li>Discussing the lack of good information and advice when it comes to choosing a scooter fit for the user</li> <li>The problems scooter users have accessing public transport</li> <li>Lack of regulation and safety concerns for scooter users</li> </ul>
11:50	<b>Q&amp;A PANEL</b> Session 3 speakers and VOICE North, Newcastle University
12:30	NETWORKING LUNCH
SESSION 4	TRAINS — DISTANCE TRAVELLING
SESSION 4 13:30 14:00	<ul> <li>PUBLIC TRANSPORT IN LONDON - IS IT FIT FOR OLDER USERS?</li> <li>Stephen Golden, Head of Equality and Corporate Sustainability, Transport for London</li> <li>The challenges of providing public transport in a major city</li> <li>How modern buses and trains should be designed for safe and easy use by older people</li> <li>Is the underground appropriate for use by older travellers?</li> <li>RAIL TRAVEL: JOURNEY PLANNING AND TICKETING Margaret Hickish, Access and Inclusion Manager, Network Rail</li> </ul>
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• The Institution is not responsible for the views or opinions expressed by individual speakers.

## **BOOKING FORM**

REFERENCE CODE: C1405ABC

#### **BIOMEDICAL ENGINEERING ASSOCIATION PUBLIC TRAVEL AND TRANSPORT** FOR OLDER PEOPLE 10-11 JUNE 2014

<b>REGISTRATION</b> 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		
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Contact Telephone		
Email		
Do you have any special requirements?		

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#### FEES AND CHARGES Please complete the appropriate box.

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

	STANDARD RATE	TOTAL
Member, Institution of Mechanical Engineers	£654.50 + VAT	£
Member, Supporting organisation	£654.50 + VAT	£
Non-member	£799.25 + VAT	£
Student/retired/carer/clinician	£275.00 + VAT	£
Invoice charging (if applicable)	£10 + VAT	£

#### 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 🗋 MasterGard (please note we cannot accept American Express, Diners Club or Maestro			estro)		
Card No	Valid From	/	Expiry Date	/	
Name of Cardholder					
Billing Address of Cardholder (if different from	above)				
	Postcode				
Amount to be Deducted	Signature				

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BACS bank transfers can be made to: <b>IMechE Current</b>	Account, NatWest Charing Cross Branch
Sort code: <b>60-40-05</b> Acc No: <b>00817767</b>	A copy of the draft must accompany this form.
Swift Code: NWBKGB2L	IBAN Code: <b>GB96NWBK60400500817767</b>

IBAN Code: GB96NWBK60400500817767

Please complete and return this form to: EVENT REGISTRATIONS Institution of Mechanical Engineers 1 Birdcage Walk, London SW1H 9JJ

Fax +44 (0)20 7222 9881

For registration enquiries call +44 (0)20 7973 1258 or email eventenquiries@imeche.org

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

#### **CONDITIONS OF BOOKING**

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

#### SPECIAL REQUIREMENTS

Please inform us of any special requirements, ie dietary or access, on the relevant section of this form.

#### CANCELLATION

For a refund (minus £25 +VAT admin charge), cancellations must be received at least 14 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, they will receive a full refund of the fee paid.

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Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/ or topics. As such, the Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

#### VENUE

This event will be held at One Birdcage Walk, Westminster, London SW1H 9JJ.

#### LIABILITY

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

#### ACCOMMODATION

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## OTHER EVENTS TO LOOK FOR:

28 April 2014 London

#### **RAILWAY DIVISION LECTURE**

#### MATERIALS FOR MODERN RAIL VEHICLE CONSTRUCTION

Mark Robinson and George Kotsikos from NewRail will be speaking about blast resistant structures, energy absorption and lightweighting on railways. Refreshments will be served from 17:15 and the lecture will start at 18:00. This lecture is free to attend and open to all.

www.imeche.org/events/L337

#### 29 April 2014 London

#### ENGINEERING THE FUTURE OF BIOMEDICINE HOSTED BY IMECHE AND IET

This talk will illustrate the many diverse and inter-related ways in which engineering is contributing to developing a quantitative foundation for medicine and biology, and the many devices and systems that engineers are developing to transform both research and practice in Biomedicine. This lecture is free to attend and open to all.

www.imeche.org/events/L358

#### 4–10 May 2014 Italy

## ANNUAL TECHNICAL TOUR 2014:

# NAPLES AND TURIN

A unique opportunity to visit sites not easily accessible, this year's annual technical tour will focus on Italian railways: state, local, high speed and open access operators, major and specialised manufacturers, beginning in Naples and ending in Turin.

www.imeche.org/events/O1544

If you're interested in any of these events, please contact our enquiries team on +44 (0)20 7973 1258 or email eventenquiries@imeche.org

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Find out which level you're best suited for at **www.imeche.org/membership** or email us on **membership@imeche.org**.

## **GET INVOLVED**

Whether you're new to the profession or well established, volunteering is a great way to gain new skills, knowledge and experience. As an Ambassador you have the chance to represent your profession and give something back to the engineering community as well as inspiring the next generation.

See **www.imeche.org/volunteering** for more information or go to **http://nearyou.imeche.org** to find engineering events hosted by volunteers in your area.



#### **Continuing Professional Development (CPD)**

As part of your professional registration and membership of the Institution of Mechanical Engineers and the Engineering Council, it's your responsibility to keep your skills up-to-date.

Our online Career Developer tool can help you:

- **Plan** Create an Action Plan and identify targets
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