

7th March 2013

Symposium: 9am-12pm, EU Parliament, Brussels

Workshop: 2pm-6pm, Radisson BLU EU Hotel, Idaliestraat 35, Brussels

<i>EU Parliament, Brussels</i>	SYMPOSIUM: ASSISTIVE TECHNOLOGIES RESEARCH
08h30-09h00	REGISTRATION
09h00-09h05	WELCOME REMARKS Chair & Host of the Meeting Marian Harkin, MEP
09h05-09h10	OBJECTIVES Prof Brian Harvey, Director of Research DOCTRID at RESPECT Ireland
09h10-09h30	Lynnae M. Ruttledge, Keynote Speaker Member of the US National Council on Disability Presentation Title: <i>Understanding the International Treaty: A Global Platform for Increasing Access to Assistive Technology</i> Summary: This presentation will focus on the key elements of the UN Convention on the Rights of Persons with Disabilities in regard to assistive technology; and identifying workable strategies including research & development funding, human resources, public procurement and mobilizing universal services funds.
09h30-09h45	Dr Mick Donegan, CEO & Founder 'Special Effect', a UK-based Assistive Technology Charity Presentation Title: <i>Gaze control as a key to unlock Locked-in Syndrome</i> Summary: With the help of video case studies, Mick will illustrate some of the ways in which gaze controlled technology, appropriately applied, is transforming the way in which people who are physically 'locked-in' by their disability are able to express themselves and control their environment through eye movement alone, with reference to its relationship with other emerging assistive technologies, such as brain computer interfaces.
09h45-10h00	Prof Paul Whelan, Professor of Computer Vision, Director of Centre for Image Processing

	<p>& Analysis, Dublin City University, Ireland.</p> <p>Presentation Title: <i>Automated facial landmarking for craniofacial dysmorphology with a specific focus on intellectual disabilities.</i></p> <p>Summary: This presentation will address issues associated with 3D shape analysis and 3D facial landmarking in the context of craniofacial dysmorphology. This work is driven by a heightened interest in the resolution and quantification of craniofacial dysmorphology based on its association with, and ability to inform on, diseases of early brain development and intellectual disability.</p>
10h00-10h15	<p>Ms Alexandra Bonardi OTR/L, MHA Director, Center for Developmental Disabilities Evaluation and Research (CDDER). Assistant Professor, Family Medicine and Community Health, Eunice Kennedy Shriver Center, University of Massachusetts Medical School, USA</p> <p>Presentation Title: <i>Assistive Technology Programs at the UMMS Shriver Center: An Overview and Perspectives</i></p> <p>Summary: This presentation will provide a brief overview of programs at the Shriver Center of the University of Massachusetts Medical School that bear on assistive technology development and other technological supports for persons with neurodevelopmental disabilities. Within this context, Ms Bonardi will discuss clinical perspectives in the design and delivery of assistive technologies, focusing specifically on challenges of technology mismatch and equipment abandonment. She will discuss potentially helpful applications of risk management strategies used in industry (Failure Modes, Effects Analysis) that may help to mitigate or bypass such challenges.</p>
10h15-10h30	<p>Dr Peter Cudd, Board Member, Association for the Advancement for Assistive Technology in Europe (AAATE).</p> <p>Presentation Title: <i>The Association for the Advancement of Assistive Technology in Europe.</i></p> <p>Summary: The mission of the Association for the Advancement for Assistive Technology in Europe is "to stimulate the advancement of assistive technology for the benefit of people with disabilities, including elderly people" The AAATE is the interdisciplinary pan-European association devoted to all aspects of assistive technology, such as use, research, development, manufacture, supply, provision and policy. Over 250 members from all over Europe and throughout the world currently take part in the AAATE. http://www.aaate.net/</p>
10h30-10h45	<p>Prof Mark Harniss, Ph.D.Clinical Associate Professor, Department of Rehabilitation Medicine, University of Washington, USA</p> <p>Presentation Title: <i>Cognitive Support Technologies across Resource Settings</i></p> <p>Summary: This presentation describes the development of cognitive support technologies (based on sensor technology, activity recognition, and machine-based learning) designed for implementation in high-resourced</p>

	settings in the United States. A feasibility study in which these types of technologies were implemented in a lower-resourced setting in the U.S. serves as a point of transition to discuss cognitive support needs in low resourced countries.
10h45-11h00	Break
11h00-11h15	<p>Dr. Takenobu Inoue, MSE, Director, Department of Assistive Technology, Research Institute, The National Rehabilitation Center for Persons with Disabilities, Japan.</p> <p>Presentation Title: <i>Field-Based Innovation with Assistive Technologies for Persons with Cognitive Disabilities.</i></p> <p>Summary: This presentation discusses the concept of field-based innovation for solving problems with persons with cognitive disabilities using new technologies. This innovation method includes four kinds of data collection; consensus workshop, participant observation, mock-up evaluation and user experiment. These are demonstrated using the concept of an information support robot for persons with cognitive disabilities. The results support the practical usefulness of this method for generating concepts and applications of novel assistive technologies.</p>
11h15-11h30	<p>Prof Cian O'Mathuna, Head of Microsystems Centre, Tyndall National Institute, UCC Ireland</p> <p>Presentation Title: <i>Enabling development and translation of innovative assistive technologies</i></p> <p>Summary: ICT-based solutions developed in the Tyndall National Institute have application for a range of health challenges. This ICT-based research capabilities and expertise, will enable development and translation of assistive technologies within multidisciplinary initiatives. Examples of the technology platforms already developed within Tyndall will be presented, which have potential for integration into novel assistive technologies. A vision for how future sensing platforms and miniaturisation will open up new opportunities for assistive technologies will also be provided.</p>
11h30-11h45	Q&A Panel Discussion
11h45-12h00	Close and Invitation to afternoon Workshop
11h45	Group Photo with Marian Harkin, MEP
12h00	Announcement Date of next DOCTRID III Conference <i>October 15th 2013, Dublin</i>

<p><i>Radisson BLU EU Hotel, Idaliestraat 35, Brussels</i></p>	<p>WORKSHOP PEOPLE-CENTERED ASSISTIVE TECHNOLOGIES & INCLUSIVE DESIGN & Assistive Technologies Consortium Building in Horizon 2020</p>
<p>14h00-14h15</p>	<p>Welcome and Introduction: Lynnae Rutledge</p>
<p>14h15-14h30</p>	<p>Prof Michael J. Leahy, Professor and Director, Office of Rehabilitation and Disability Studies College of Education, Michigan State University, USA. Presentation Title: <i>The MSU-DOCTRID Hegarty Fellows Programme: A Model for International, Collaborative, and Interdisciplinary Research in Intellectual Disability and Autism.</i> Summary: This presentation will focus on the MSU-DOCTRID Hegarty Fellows Programme which will provide support for three post doc researchers that will be co-located at Michigan State University and at one of the DOCTRID partner universities in Ireland to conduct empirical studies to inform policy and practice and identify new evidence-based practices, including the impact of technology, that can be effective in the delivery of services to individuals with significant intellectual disabilities and autism.</p>
<p>14h30-14h45</p>	<p>Prof Jutta Treviranus, Director of the Inclusive Design Research Centre (IDRC), professor and director of an innovative graduate program in inclusive design at OCAD University Toronto, Canada Presentation Title: <i>The Key to Sustainable Global Prosperity is at the Margins</i> Summary: This presentation will address the digital inclusion for people with disabilities - issues of data analytics (e.g., to optimize learning for currently marginalized learners or plan disaster management for people with disabilities), copyright or intellectual property issues (to allow for the production of derivatives), inclusive infrastructures (e.g., to support personalization), health practices designed for human diversity, sustainable pull markets to support currently marginal demands (to make essential services and products affordable even if the market is very small).</p>
<p>14h45-15h00</p>	<p>Dr. Geraldine Leader, Director of the Irish Centre for Autism and Neurodevelopmental Research, NUI Galway, Ireland. Presentation Title: <i>The Irish Centre for Autism and Neurodevelopmental Research.</i> Summary: The Irish Centre for Autism and Neurodevelopmental Research (ICAN) is an interdisciplinary research centre dedicated through rigorous scientific research to advancing our knowledge of autism and its implications for individuals, families and society. This talk will outline ICAN's priority research areas and associated work programmes.</p>

<p>15h00-15h15</p>	<p>Dr. John Dinsmore, Health Innovation Lead, Centre for Practice and Healthcare Innovation, Trinity College Dublin, Ireland. Presentation Title: <i>Developing an effective framework to improve user adoption and confidence in using assistive technologies.</i> Summary: This presentation will focus on creating a framework and behavioural change approach to assistive technology design, development and implementation to improve patient and healthcare professional confidence in using technology as part of a self-management routine in chronic health conditions. The presentation will also highlight the need for health service re-design to potentially improve societal adoption of assistive technologies.</p>
<p>15h15-15h30</p>	<p>Prof Lizbeth Goodman, Chair of Creative Technology Innovation and Professor of Inclusive Design for Education at University College Dublin, Ireland Presentation Title: <i>Max Headroom - unlocking creative communications to enable inclusive learning for all</i> Summary: If we are to succeed as a global society in the large effort to make learning accessible to all, we need first as a group to address the very basic issues which still exclude some learners from the ‘knowledge society’. This talk shares some brief examples of work which gives voice and expressive movement to people previously denied those voices, and argues that all of our minds will be expanded by the knowledge we will share only once we level the playing fields of all our learning spaces.</p>
<p>15h30-15h45</p>	<p>Dr. Gerardo Herrera, Director, Assistive Technology lab for autism, Robotics Institute, University of Valencia, Spain Presentation Title: <i>Innovative technologies for autism: the importance of tailored approaches and interfaces</i> Summary: There are as many types of autism as there are people with autism. Therefore interfaces and intervention approaches should be tailored for each individual. Within this communication, available evidence and work from ongoing global initiatives and projects will be reviewed in this regard, considering how inclusive and person-centered design is contributing to this aim and exploring possible priorities and future steps.</p>
<p>15h45-16h00</p>	<p>Break</p>
<p>16h00-16h15</p>	<p>Prof Mark Dyer, Professor in Construction Innovation at Trinity College Dublin and director of the TrinityHaus research centre for sustainability and innovation in the built environment.</p>

	<p>Presentation Title: <i>“People Centered Design”</i></p> <p>Summary: The presentation addresses the need for a people centred design approach based on the principles of Universal Design to ensure that new products and services for the built environment respond to user needs rather than technological trends.</p>
16h15-16h30	<p>Prof Karola Dillenburger, PhD; BCBA-D. Centre for Behaviour Analysis, Queen’s University Belfast, Northern Ireland.</p> <p>Presentation Title: <i>Assistive technology and Autism: The role of behaviour analysis</i></p> <p>Summary: We will present SIMPLE STEPS, an innovative multimedia training resource that was developed in Northern Ireland by UU and QUB together with a parent-lead charity and transferred across Europe (FP7 Leonardo). We outline our plans to integrate behaviour analytic principles further into assistive technologies, including connected health and home programme supervision and monitoring.</p>
16h30-16h45	<p>Magí Almirall-Hill, Director, Office of Learning Technologies, Open University of Catalonia, Barcelona, Spain</p> <p>Presentation Title: <i>Accessibility and new learning scenarios for all</i></p> <p>Summary: Working to take solutions for people with visual impairments, and applying User Centered Design (UCD) our team create services for all in the new learning scenarios.</p>
16h45-17h00	<p>Dr Nancy Salmon, Lecturer in Clinical Therapies, Marie Curie Research Fellow, Chair of IDS@UL, University of Limerick, Ireland</p> <p>Presentation Title: <i>Applied Research Together (ART): People with Intellectual Disabilities Shaping International Research Agendas.</i></p> <p>Summary: Studies aligned with the UN Convention on the Rights of Persons with Disabilities draw together multiple perspectives including people with intellectual disabilities, families and friends, service providers, people in professional practice and academics. This presentation offers insights about this complex and enriching research process.</p>
17h00-18h00	<p>Q&A Panel Discussion Assistive Technologies Consortium Building in Horizon 2020</p> <p>Date of next Meeting, DOCTRID III Conference <i>October 15th 2013, Dublin</i></p>

Abstract

The Assistive Technologies Events at ES:GC2 will engage participants in discussing new strategies and global opportunities for influencing disability research that will benefit individuals with autism and intellectual disabilities in developed countries and low-resourced communities. The presentations will highlight the potential for positive global impact that is envisioned by the DOCTRID International Research Institute and its international partners in the EU, USA, Canada and Japan.

Three key areas will be explored in the course of the Symposium and Workshop:

1. Establishing and utilizing internationally-based collaborations to conduct Assistive Technology research using EU Horizon 2020 Funding instruments.
2. Creating a global Assistive Technologies consortium that will access and utilize new European Union research and development funding to partner in collaborative research.
3. Maximizing the role of international Assistive Technologies R&D structures including DOCTRID and AAATE, the private sector, advocacy groups and charities that can expand access to diverse networks, assess research initiatives for broader impact and advise on policy and new directions.