

How Can Neuroscience Better Inform Neurorehabilitation?

Neuroscience researchers from across the world reflecting upon how the latest neuroscientific understandings may help the neurorehabilitation patient. The focus will be on how these findings can impact upon practical application as opposed to theoretical concepts.

16th October 2014 The Pullman Hotel, St Pancras, London



DRAFT PROGRAMME

09.00 - 09.45 **Registration**

09.45 - 10.00

Address from the Chair

Michael Dilley,
Consultant Neuropsychiatrist,
The Lishman Unit - Maudsley Hospital

10.00 - 11.00

Talk: How does change occur?

Q&A after presentation welcome.

Professor Evian Gordon,
Executive Chairman and International CEO of
the Brain Resource Company

11.00 - 11.30 **Tea/Coffee, Exhibition Stands & Networking**

11.30 - 12.30

Talk: Characterizing and Guiding Brain Plasticity and Network Dynamics to Promote Functional Recovery.

Q&A after presentation welcome.

Professor Alvarro Pascual-Leone,
Professor of Neurology and Associate Dean for
Clinical and Translational Research, Harvard
Medical School, and Director of the Berenson-
Allen Centre for Non Invasive Brain Stimulation,
Beth Israel Deaconess Medical Centre in
Boston

12.30 - 13.30

Talk: How brain injury and rehabilitation differs for children.

Q&A after presentation welcome.

Dr Lori Cook,
Director of Pediatric Brain Injury Programs at
The University of Texas at Dallas

13.30 - 14.30 **Lunch, Exhibition Stands & Networking**

14.30 - 15.30

Talk: General principles of rehabilitation and brain plasticity with some examples of their specific implementation.

Q&A after presentation welcome.

Professor Ian Robertson,
Professor of Psychology at Trinity College
Dublin and founding Director of Trinity College
Institute of Neuroscience

15.30 - 15.50 **Tea/Coffee, Exhibition Stands & Networking**

15.50 - 16.50

Talk: Analysis of cases from a neuropsychiatric perspective and in particular the way that neuro-rehabilitation can be misdirected as well as directed depending upon the complexity or otherwise of the case.

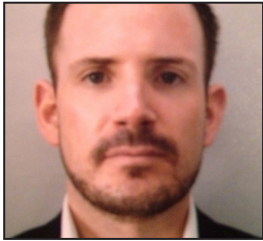
Q&A after presentation welcome.

Professor Michael Trimble,
Emeritus Professor of Behavioural Neurology,
Institute of Neurology, Queen Square

16.50 - 17.00 **Close**

BIOGRAPHIES

Mike Dilley



Mike Dilley graduated from UCL and then King's College, completing his training at The Maudsley, Institute of Psychiatry and National Hospital for Neurology & Neurosurgery. After five years as a community consultant in Westminster, he is now the Inpatient Lead for the Neuropsychiatry Service at South London & Maudsley NHS Foundation Trust. Mike heads-up a multidisciplinary

neurobehavioural rehabilitation team who treat patients with acquired brain injury, functional neurological symptoms and a wide range of other neuropsychiatric conditions in a 17-bedded inpatient service. He is an executive member of the Section of Neuropsychiatry, Royal College of Psychiatrists.

Professor Evian Gordon

Dr. Evian Gordon is the Executive Chairman and International CEO of the Brain Resource Company. Drawing upon an extensive scientific and medical background, he developed an integrative neuroscience approach grounded in the use of standardized methods across all types of brain-related data. Dr. Gordon is the author of over 230 scientific papers, as well as the first book on Integrative Neuroscience.

Bringing together information about the brain across disciplines (including evolutionary biology, anatomy, physiology, chemistry, physics, brain imaging, psychology, neurology, psychiatry, philosophy, brain training, and brain-computer interaction), he and Prof. Lea Williams created the Brain 1-2-4 model. With collaborators, they established BRAINnet, the largest standardized international database of the human brain. The database is powered by independently published outcomes from an international consortium of scientists from 20 countries. Concurrently, Dr. Gordon and his team developed MyBrainSolutions, the most integrated, web-based way to Know and Train the brain, through an objective brain assessment, brain fitness games, and webinars.

Alongside his children, Dr. Gordon established Brain Revolution, a not-for-profit organization empowering underprivileged children around the world with insights and fun games to discover and train their brains.

Professor Alvarro Pascual-Leone



Alvaro Pascual-Leone is a Professor of Neurology at Harvard Medical School, with which he has been affiliated since 1997, and where he also serves as an Associate Dean for Clinical and Translational Research. He is the Director of the Berenson-Allen Center for Noninvasive Brain Stimulation of the Beth Israel Deaconess Medical Center in Boston.

Dr. Pascual-Leone obtained an M.D. and a Ph.D. in Neurophysiology from the Faculty of Medicine of Albert Ludwigs University in Germany. He also trained at the University of Minnesota and the US National Institutes of Health.

He has authored over 500 scientific papers and is the recipient of several international honors and awards, including the Ramon y Cajal Award in Neuroscience (Spain), the Norman Geschwind Prize in Behavioral Neurology from the American Academy of Neurology, the Friedrich Wilhelm Bessel Research Award from The Alexander von Humboldt Foundation (Germany), and the Jean Signoret Prize from the Ipsen Foundation (France). In 2000, he won the Daniel D. Federman Outstanding Clinical Educator Award. He is a member of the Spanish Royal Academy of Pharmacy.

Pascual-Leone is a world leader in the development of transcranial magnetic stimulation for application in cognitive neuroscience and for therapeutic applications in neurology, psychiatry and neurorehabilitation. Pascual-Leone's research aims at understanding the mechanisms that control brain plasticity across the lifespan to be able to modify them for the subject's optimal behavioral outcome. Pascual-Leone combines various brain imaging and brain stimulation methodologies to establish a causal relationship and a precise chronometry between regional brain activation and behavior, and uses noninvasive brain stimulation techniques to modulate brain plasticity, suppressing some changes and enhancing others, to gain a clinical benefit and behavioral advantage for a given individual. Such non-invasive approaches can lead to clinically relevant therapeutic effects in neuropsychiatry and neurorehabilitation, and serve as proof-of-principle prior to more invasive neuromodulatory interventions.

Dr Lori Cook, Ph.D., CCC/SLP



Director of Pediatric Brain Injury Programs Dr. Cook, a certified speech-language pathologist since 2003, specializes in conducting research and clinical cognitive-linguistic evaluations as well as interventions with children with neurologic communication disorders. Currently, Dr. Cook oversees the pediatric brain injury research programs at the Center for BrainHealth at The University of Texas

at Dallas, including coordination of two studies involving specialized evaluation and cognitive intervention for children and adolescents with acquired brain injury.

Dr. Cook has also served as site research coordinator for a National Institutes of Health-funded study investigating the long-term recovery of higher-level language skills as well as executive function abilities (e.g., self-regulation, planning, problem-solving) after brain injury, contributing to the development of new assessment and intervention tools. Additionally, she has been involved in studies examining working memory function and social cognition abilities during functional brain imaging (fMRI).

Overall, her research is focused on understanding the rehabilitative effects of long-term follow-up care, with the hope of developing a successful format for identifying, monitoring, and maximizing the potential of children with acquired brain injuries in order to help them be successful in their home, school, and community environments.

BIOGRAPHIES

Professor Ian Robertson



Ian Robertson is Professor of Psychology at Trinity College Dublin and founding Director of Trinity College Institute of Neuroscience. Robertson is the first psychologist in Ireland to have been elected a member of the Royal Irish Academy. Robertson also holds the positions of Visiting Professor at University College London, Visiting Professor at Bangor University, University of Wales and

Visiting Scientist at the Rotman Research Institute, University of Toronto. Robertson is Director of the NIEL programme (Neuroenhancement for Inequalities in Elder Lives). He was founding director of Trinity College Institute of Neuroscience.

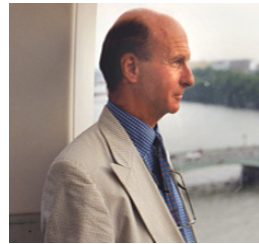
A graduate of Glasgow University, Robertson gained his Masters (Clinical Psychology, Institute of Psychiatry) and Doctoral (Neuropsychology) degrees at the University of London.

Ian Robertson has published over 250 scientific articles in leading journals, including *Nature*, *Brain*, *Journal of Neuroscience*, and *Psychological Bulletin*. Ian has also contributed to public communication and understanding of science, contributing regularly to *The Times* and *The Daily Telegraph*, he was also a columnist for the *British Medical Journal*. Robertson is author and editor of ten scientific books, including the leading international textbook on cognitive rehabilitation (*Cognitive Neurorehabilitation*), and two books for the general reader (*Mind Sculpture: Unleashing Your Brain's Potential* and *The Mind's Eye: The Essential Guide to Boosting Your Mental, Emotional and Physical Powers*), which have been translated into multiple languages. Robertson's latest book is *The Winner Effect: How Power Affects Your Brain*, published by Bloomsbury (7 June 2012).

Ian Robertson's research focuses on behavioural change in people with impaired brain function, through linking novel rehabilitation strategies to underlying models of brain function. Methods which are now widely used and taught internationally include limb activation training for unilateral neglect, sustained attention training for unilateral neglect, and self-alert training for adults with attention deficit hyperactivity disorder. His current research includes several randomized controlled trials of different types of cognitive training with elderly, schizophrenic and ADHD patients. He has also developed with others a widely used method for frontal lobe impairment known as Goal Management Training.

Ian Robertson has also developed a theoretical approach to cognitive rehabilitation and originated some very widely used tests of attention, and has demonstrated sensitivity to key clinical conditions, as well as to underlying molecular genetics.

Professor Michael R Trimble



Emeritus Professor of Behavioural Neurology at the Institute of Neurology, Queen Square, London, and Honorary Consultant Physician to the Department of Psychological Medicine at The National Hospital for Neurology and Neurosurgery, Queen Square, London.

Interests: Neuropsychopharmacology with special reference to neuropsychiatric disorders: epilepsy, its relationship to disturbances of behaviour and its treatment, and the effects of antiepileptic drugs and other treatment for epilepsy on the brain and behaviour. Other research and clinical interests include movement disorders and their treatment, especially the development of psychiatric disorders in Parkinson's disease and Gilles de la Tourette Syndrome.

Psychiatric disorders following accidents, including head injuries, dementia and the clinical interface between pseudodementia and dementia: and the spectrum of presentations in neurology and psychiatry of patients with medically unexplained neurological symptoms. Many such patients turn out to have one or other form of somatoform disorder.

Fellow of the Royal College of Physicians, Fellow of the Royal College of Psychiatrists, and a Member of the Association of British Neurologists. Fellow of the American Psychiatric Association and a member of the American Neurological Association. Three Research degrees: MD (in medicine), BSc (in neuroanatomy), and MPhil (in psychiatry).

Past council member of the British Association of Psychopharmacology, council member of the CINP between 1998 and 2001, Chairman of the British Neuropsychiatry Association 2001-2004, and currently Vice President of the World Federation of Societies of Biological Psychiatry.

His publications include two editions of *Biological Psychiatry* (1988 and 1996), John Wiley & Sons, Chichester, and six other single author titles dealing with the interface between neurology and psychiatry, especially in the field of epilepsy. He has edited 25 books covering similar areas.

His books include *Somatoform Disorders* – a medico-legal guide, Cambridge University Press 2004, the *Neuropsychiatry of Epilepsy* edited with Professor B Schmitz, Cambridge University Press and *Psychiatrische Epileptologie*, Thieme, written with Professor B Schmitz. He is an Ambassador for epilepsy (International League Against Epilepsy Award), and received a life time achievement award from the International Neuropsychiatry Association.

His new book is entitled "Why Humans Like to Cry – Tragedy, Evolution and the Brain", Oxford University Press 2012.

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Dynamic neuropsychiatric service in South East London

We are continuing to develop a care pathway to accommodate patients as they progress through post-ABI treatment. Our services now cater to patients with acute needs, as well as those suitable for "step down", long term care and supported living. We work with the NHS to develop services where there is a need and are always keen to hear from commissioners.

Care Plus Partnership can now offer:

Oakwood – full MDT led neuropsychiatric rehabilitation hospital for people with severe and complex cognitive and nursing needs including those with challenging behavior and history of substance abuse. Oakwood is registered to take patients detained under the Mental Health Act.

Harcourt House – intermediate service for those patients requiring a less intensive programme than at Oakwood but who still require the expertise of a highly qualified team to deal with neuropsychiatric disorders. Harcourt House is also registered to take patients detained under the Mental Health Act.

Adelaide House – long term facility for patients who have progressed through other services but still require a consistent neuropsychiatric approach to maintain the gains they have made previously.

Bromley Road – offers supported living for those patients who can live semi-independently.

Our commitment to neuropsychiatric excellence extends beyond the conference "How Can Neuroscience Better Inform Neurorehabilitation?" and into the work we do everyday, throughout the Care Plus care pathway.

For more information or to visit please contact Andrea, on 020 86955656 or email andrea.walker@carepluspartnership.com

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HOW TO BOOK

The cost is:

£245+Vat

As part of ABI Solutions ongoing commitment to dissemination of knowledge and improved practice across the sector we are pleased to offer a limited number of subsidised places to students, NHS or Social Care Staff as well as representatives from the charitable sector. Please contact Jason Shelley on 020 8763 2963 to discuss.

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Booking contact

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