

State-of-the-Science Conference on Spinal Cord Injury (SCI) Research: Speakers and Panelists.

June 5, 2011 – Grand Hyatt Washington

Plenary Morning Speaker: Gary Karp



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Gary Karp is an author and speaker on what he terms Modern Disability. A wheelchair user following a spinal cord injury he incurred in 1973 at the age of 18, he has the ability to draw from his unique perspective as a 37 year wheeler during a time of remarkable change in the experience and milieu of disability. Gary has produced four books, including his definitive guide to mobility disability, *Life On Wheels*. He has written extensively as a disability journalist, and speaks to a wide array of audiences, including universities, rehab centers, business, government, and conferences. He is known for his passion, clarity, and humor as well as his dazzling juggling skills! In 2007 Gary was inducted into the Spinal Cord Injury Hall of Fame as a disability educator.

Plenary Luncheon Speaker: James Fawcett, M.B., Ph.D., F.R.C.P.



James Fawcett, Ph.D. is Chairman of the Cambridge University Centre for Brain Repair, Chairman of the Scientific Committee of Spinal Research, and Director of Medical Studies at King's College Cambridge. He trained in medicine at Oxford University and St. Thomas Hospital, and then practiced for four years, in autoimmune disease, before going into basic research. He began his research on the repair of the damaged brain and spinal cord while at the Salk Institute in California, and continued when he came to Cambridge University. His main interest has been the inhibition of nerve fiber regeneration by scar tissue. He has also worked on brain grafting, brain development and stem cells. Dr. Fawcett recently gained the distinction of being the first winner of the Ulrich Schellenberg Prize from the Institut International de Recherche en Paraplegie for his work on regeneration

of the spinal cord.

For full program and agenda, see:
http://www.asia-iscos2011.org/state_of_science.php

T1 - Neurological and Functional Recovery Track

Speaker: Mary Galea, Ph.D., PT



Professor Mary Galea is Foundation Professor of Clinical Physiotherapy and Director of the Rehabilitation Sciences Research Centre at the University of Melbourne and Austin Health, Melbourne, Australia. She is a physiotherapist and neuroscientist who commenced her academic career after a substantial period in clinical practice. Her research program includes both laboratory-based and clinical projects with the overall theme of elucidating how voluntary movement is controlled by the brain and factors that promote recovery following nervous system damage. She has conducted research into the organization and development of the corticospinal tract and the recovery of manual dexterity after spinal cord injury in the primate. In 2007 Professor Galea was awarded a Churchill Fellowship to investigate rehabilitation after spinal cord injury and was recently honored with the Distinguished

Scientist Award at Austin Health. She is currently the lead investigator on a large multi-site program of research, SCIPA (Spinal cord injury and physical activity), investigating the effects of exercise after spinal cord injury.

Speaker: Armin Curt, M.D., F.R.C.P.C.



Professor Armin Curt, M.D. is Chair in Spinal Cord Rehabilitation and Medical Director of the Spinal Cord Injury Center, University of Zurich, Switzerland. He is the founder and current chair of the European Multicenter study group in Spinal Cord Injury (EMSCI).

Recovery in human SCI (corresponding to animal studies) is attributable to multiple mechanisms within the spinal cord (repair and sprouting as well as plasticity of neural circuits within the spinal cord), supra spinal levels (reorganization of brain function) and within the peripheral nervous system (sprouting of motor units) including muscle properties (electromechanical coupling). The outcome in acute SCI is well predictable by combined clinical (neurological deficit) and neurophysiological recordings (MEP, SSEP, NCS, EMG etc.) and allow for investigating mechanisms of recovery. Beyond neural changes

clinical recovery can be also attributed to either effects based on the adjustment of movement strategies (achieving ADLs by alternative approaches and technical aids) or compensation of body function (optimized training of preserved motor/sensory function) that is fundamental to functional recovery both in patients with complete and incomplete SCI.

Panelists

Moderator: John Steeves, Ph.D.

John Douglas Steeves was born in Calgary, Alberta in 1952. He completed his doctorate (Neuroscience / Physiology) from the University of Manitoba, School of Medicine in 1978 and then completed a fellowship at the University of Alberta. Dr. Steeves was first appointed at the University of British Columbia (UBC) in 1979 and has been a full professor since 1992 at UBC and Vancouver Coastal Health Research Institute (part of Vancouver Coastal Health). Dr. Steeves has broad experiences as both a basic scientist and a translational researcher. Dr. Steeves is the founder of ICORD (International Collaboration On Repair Discoveries) at UBC. He has been an executive member of numerous spinal cord injury societies and organizations, including ASIA and ISCoS.



Kim Anderson, Ph.D.

Dr. Anderson-Erisman was an Assistant Professor in the Department of Neurological Surgery at the University of California, Irvine and a core faculty member of the Reeve-Irvine Research Center. Her previous research has focused on translational investigations and bridging the gap between basic science, clinical science, and the public community living with spinal cord injury (SCI). Her training spans the spectrum of SCI research, from cellular and molecular studies as a graduate student, to whole animal and behavioral studies as a post-doctoral fellow, to human clinical research as a faculty member. This breadth of knowledge will be a great attribute in her new role as the scientific interface to the public for the diverse array of cutting-edge research being conducted at The Miami Project.



A special perspective that Dr. Anderson-Erisman brings to the SCI research field is that she also has a spinal cord injury. When she was seventeen years old she was involved in a motor vehicle accident that left her with quadriplegic paralysis from a cervical spinal cord injury. After graduating from high school without delay, she went on to college at Texas A&M University and graduate school at the University of New Mexico. She has received numerous awards, including the Khatali Award for Outstanding Senior Graduate Student, a NIH National Research Service Award as a post-doctoral fellow, and the Paul H. Silverman Award for Outstanding Work on Science and Ethics in 2005. She was awarded the Stephen Aroff Memorial Award in 2004 and the Jerry Stein Independent Living Award in 2006 for being a role model in the SCI community, and she was inducted into the SCI Hall of Fame in 2007.

Eric P Hoffman, PhD

Dr. Hoffman is Professor and Chair of the Department of Integrative Systems Biology, George Washington University School of Medicine, and Director of the Research Center for Genetic Medicine at Children’s National Medical Center in Washington DC. He earned his PhD in Genetics at Johns Hopkins University, and then pursued post-doctoral training with Louis Kunkel at Boston Children’s Hospital. In 1990, he established an independent laboratory at the University of Pittsburgh where he worked on various neurological conditions. In 1999, he moved to Washington DC to establish the Research Center for Genetic Medicine Research at Children’s National Medical Center. Dr. Hoffman is board-certified by the American Board of Medical Genetics in Clinical Molecular Genetics.



In SCI research, Dr. Hoffman provides core support to medical rehabilitation research investigators through a NIH NICHD R24 (National Center for Medical Rehabilitation Research Network; see www.ncmrr.org). The R24 network provides training and research services to rehab researchers on a national basis; the DC site provides genomics, proteomics, pre-clinical and clinical outcome research support. Dr. Hoffman’s laboratory has a research interest in understanding cellular and molecular remodeling of the spinal cord after injury in pre-clinical models, and the development of novel steroids for clinical applications in SCI.

Andrei Krassioukov, M.D., Ph.D.

Dr. Andrei Krassioukov is a clinician scientist who obtained his medical degree from Volgograd State Medical School, Russia and his PhD degree at the Ivan Pavlov Institute of Physiology, Russian Academy of Science, St. Petersburg, Russia. In 1991, through the Canada-USSR research exchange program, he started his research career in North America and has a Research Degree PhD. Presently, he is an Associate Professor, Department of Medicine, Div. of Physical Medicine & Rehabilitation and a Principal Investigator at the International Collaboration On Repair Discoveries (ICORD) at the University of British Columbia, Vancouver, BC. He is also a staff physician at the Spinal Cord Program at the GF Strong Rehabilitation Center in Vancouver, BC. His research involves utilization of experimental animal models, clinical investigations in human, and is focused on investigation of the mechanisms of autonomic dysfunctions after spinal cord injury. He has authored and co-authored more than 100 peer-reviewed manuscripts, book chapters and reviewed articles. For the last four years as the Chair of Autonomic Standards Committee for the American Spinal Injury Association and International Spinal Cord Society (ASIA/ISCoS), he is leading the international initiative on development of autonomic assessment which is to be added to the presently established neurological evaluation of individuals with spinal cord injury.



Keith Tansey, M.D., Ph.D.

Dr. Keith Tansey joined Shepherd Center as Director of Spinal Cord Injury Research in 2008 and simultaneously was appointed to the Departments of Neurology and Physiology at Emory University School of Medicine and to the Spinal Cord Injury Clinic at the Atlanta VA Medical Center.

Dr. Tansey completed his B.S. and M.S. in Biology and Biomechanics at Stanford University and then completed his M.D. and Ph.D. in Neuroscience at the University of Texas Southwestern Medical Center, where his dissertation research focused on spinal cord physiology. He completed his residency training in neurology at Washington University in St. Louis and then fellowships in spinal cord injury research and neurorehabilitation at Washington University and at the University of California Los Angeles. Dr. Tansey is board certified in Neurology and Spinal Cord Injury Medicine. He has won several teaching and research awards including one from the American Spinal Injury Association (ASIA). Dr. Tansey also served as a Research Consortium Associate for the Christopher Reeve Paralysis Foundation.



Dr. Tansey is interested in neural plasticity and repair that leads to functional recovery after spinal cord injury and how those processes could be improved. He is specifically interested in neural circuits for motor functions like locomotion, but also neural circuits related to pain and autonomic nervous system function. He is working to combine interventions like activity based therapies with pharmacology, electrical stimulation, and even cellular transplantation to improve neural recovery after injury. Dr. Tansey has combined animal model and human research to gain better insight into these questions and to more rapidly translate basic science research ideas into clinical studies.

T2 - Aging and Secondary Complications Track

Speaker: Luigi Ferrucci, M.D., Ph.D.



Dr. Luigi Ferrucci, Senior Investigator and Chief of the Longitudinal Studies Section of the National Institute on Aging (NIA) at the NIH, is a geriatrician and an epidemiologist who conducts research on the causal pathways leading to progressive physical and cognitive decline in older persons. In September 2002, he became the Chief of the Longitudinal Studies Section at NIA and the Director of the Baltimore Longitudinal Study of Aging (BLSA). Dr. Ferrucci received a Medical Degree and Board Certification in 1980, a Board Certification in Geriatrics in 1982 and Ph.D. in Biology and Pathophysiology of Aging in 1998 at the University of Florence, Italy. He was for many years Associate Professor of Biology, Human Physiology and Statistics at the University of Florence. Between 1985 and 2002 he was Chief of Geriatric

Rehabilitation at the Department of Geriatric Medicine and Director of the Laboratory of Clinical Epidemiology at the Italian National Institute of Aging. During the same period, he collaborated with the NIA Laboratory of Epidemiology, Demography, and Biometry where he spent several periods as Visiting Scientist. Dr. Ferrucci has made major contributions in the design of many epidemiological studies conducted in the U.S. and in Europe, including the European Longitudinal Study on Aging, the "ICare Dicomano Study," the AKEA1 study of Centenarians in Sardinia and the Women's Health and Aging Study. He was also the Principal Investigator of the InCHIANTI study, a longitudinal study conducted in the Chianti Geographical area (Tuscany, Italy) looking at risk factors for mobility disability in older persons. Dr Ferrucci is currently the director of the BLSA and under his leadership the study has been re-designed to focus more on normal aging and the development of age-associated frailty.

Speaker: Michael J. DeVivo, Dr.P.H.



Dr. DeVivo, Professor in the Department of Physical Medicine and Rehabilitation and Director Emeritus, National Spinal Cord Injury Statistical Center, is an epidemiologist with extensive experience in biomedical research design, methodology, and analysis. Since 1983 he has served as Manager of Analytic Services for the University of Alabama Birmingham SCI Statistical Center (SCISC) and as Co-Director or Director of the National SCISC from 1995 to 2005. Dr. DeVivo currently serves as Director Emeritus of the NSCISC. He served on the editorial board of *Spinal Cord*, the official journal of the International Medical Society of Paraplegia from 1994-2007

Dr. DeVivo is a sought after national and international speaker on the epidemiology, lifetime costs, and life expectancy following spinal cord injury.

¹ The name "AKEA" is derived from an expression in the Sardinian dialect that means "may you live 100 years!"

Panelists:

Moderator: Suzanne Groah M.D., M.S.P.H.

Dr. Groah is currently the Director of Spinal Cord Injury Consultation Liaison Service and of Spinal Cord Injury Research at National Rehabilitation Hospital and Associate Professor of Rehabilitation Medicine at Georgetown University.

Dr. Groah has been the Project Director of the federally-funded Rehabilitation Research and Training Center on Secondary Conditions after Spinal Cord Injury since 2003 and is the current Project Director of the National Capital Spinal Cord Injury Model System. She has a subspecialty certification in spinal cord injury from the American Board of Physical Medicine and Rehabilitation (ABPMR) and has written for the ABPMR SCI Subspecialty Examination for the past three years. She reviews regularly for the Archives of Physical Medicine and Rehabilitation, Spinal Cord, American Journal of Physical Medicine & Rehabilitation, Journal of Spinal Cord Medicine, and Journal of NeuroTrauma.



She has been an expert panel member for the Paralyzed Veterans of America (PVA) Consortium Guideline on Bladder Management and is currently an expert panel member for the upcoming PVA Consortium Guideline on Carbohydrate and Lipid Disorders after SCI. She is an ad hoc board member and grant reviewer for The Craig H. Neilsen Foundation. Additionally, Dr. Groah was recently named a “Best Doctors in America” for the District of Columbia and was nominated for the National Spinal Cord Injury Association’s “Hall of Fame” in 2008.

After completing her residency in Physical Medicine & Rehabilitation, Dr. Groah completed a fellowship in Aging with Spinal Cord Injury and a fellowship in Neurorehabilitation at Craig Hospital. She received her M.S.P.H. from the University of Colorado Health Sciences Center and her medical degree from the Medical College of Virginia.

Moderator: Ivan Molton Ph.D.

Ivan Molton, Assistant Professor in the | Department of Rehabilitation Medicine, School of Medicine at the University of Washington, completed his Master's in Clinical Psychology at the University of Colorado, where he trained in geropsychology at the CU Aging Center, and went on to complete and his Ph.D. in Health Clinical Psychology at the University of Miami. There, his dissertation focused on immunosenescence and adjustment to cancer diagnoses in older men. In 2007 he accepted a position as an Assistant Professor in the department of Rehabilitation Medicine at the University of Washington Medical Center.

At UWMC, he continued his work in aging, first under a RAND/Hartford funded pilot program (through the UW Institute on Aging) and now as the Co-Director of a NIDRR funded RRTC on Aging with Physical

Disabilities. He has published widely in the field of aging and disability, especially in aging and chronic pain. Currently, his research and clinical interests lie in understanding the interaction of social and cognitive aging and the treatment of long-standing physical disabilities, including spinal cord injury.



Gary An, M.D.

Dr. Gary An resides in Chicago, Ill. where he is an Associate Professor of Surgery and Co-Director of the Surgical Intensive Care Unit there at the University of Chicago. His specialty is trauma/critical care. Dr. An received his MD at the University of Miami in Miami, Florida, and completed his general surgical and surgical critical care training at Cook County Hospital/University of Illinois, Chicago. He was previously an attending burn surgeon/acting director in the Burn Intensive Care Unit at the Cook County Hospital in Chicago, and a trauma surgeon/critical care attending at Northwestern University, in Chicago, IL and at Lutheran General Hospital in Park Ridge, IL. He is currently external faculty for the McGowan Institute of Regenerative Medicine (MIRM) at the University of Pittsburgh and affiliated with the Center for Inflammation and Regeneration Modeling (CIRM) at MIRM. Dr. An is on the Editorial Board for Critical Care Medicine, Shock and the Journal of Computational and Mathematical Methods in Medicine. He is the current President of the Swarm Development Group and a founding member of the Society for Complexity in Acute Illness. His area of research involves translational computational modeling and complex systems analysis of inflammation and healing, and the advancement of agent-based modeling as a means of dynamic knowledge representation.



Sonia Ancoli-Israel, Ph.D.

Sonia Ancoli-Israel, Ph.D. is a Professor in the Department of Psychiatry at the University of California San Diego (UCSD) School of Medicine, Director of the Gillin Sleep and Chronomedicine Research Center, Director of Education at the Sleep Medicine Center at UCSD and Deputy Director of the UCSD Stein Institute for Research on Aging. Dr. Ancoli-Israel received her Bachelor's Degree from the State University of New York, Stony Brook, a Master's Degree in Psychology from California State University, Long Beach and a Ph.D. in Psychology from the University of California, San Francisco.



Dr. Ancoli-Israel's expertise is in the field of sleep disorders and sleep research in aging. Her current interests include the longitudinal effect of sleep disorders on aging, the effect of circadian rhythms on sleep, therapeutic interventions for sleep problems in dementia, and fatigue, particularly the relationship between sleep, fatigue and circadian rhythms in cancer and other chronic illnesses.

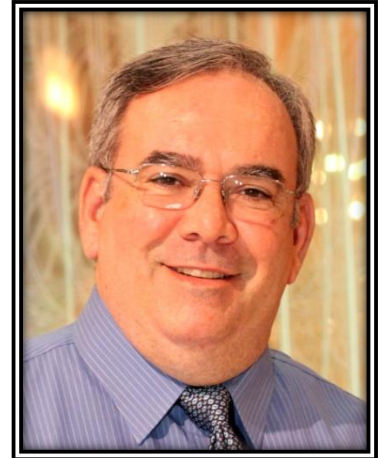
Dr. Ancoli-Israel is Past-President of the Sleep Research Society, Past-President of the Society for Light Treatment and Biological Rhythms, and was on the founding Executive Board of the National Sleep Foundation. She was honored in 2007 with the National Sleep Foundation Life Time Achievement Award and the Sleep Research Society Mary A. Carskadon Outstanding Educator Award. Dr. Ancoli-Israel has been a guest on television and radio programs including NPR's Morning Edition and Fresh Air with Terry Gross. Dr. Ancoli-Israel is published regularly in medical and psychiatric journals, with over 300 publications in the field.

Mike Boninger, MD

(see description, Technology Track Panel Moderator, below)

Mark Nash, PhD

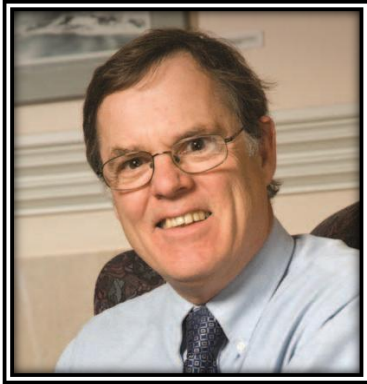
Mark S. Nash, Ph.D., FACSM is a tenured Professor of Neurological Surgery, Rehabilitation Medicine, and Kinesiology and Exercise Sciences at the Miller School of Medicine (MSOM), University of Miami, and Director of Research for the Department of Rehabilitation Medicine. He is a Fellow of the American College of Sports Medicine. Dr. Nash earned his Master's Degree in Biochemical Physiology and a Doctoral Degree in Applied Physiology and Clinical Anatomy from the University of Toledo and the Medical College of Ohio at Toledo. After a year of Fellowship focusing on rehabilitation of ischemic heart disease he was named to the faculty of the MSOM. When the Miami Project to Cure Paralysis was founded in 1985, Dr. Nash was named a Founding Principal Investigator, a position he still holds as Director of the Applied Physiology Research Program.



Dr. Nash has expertise in application of exercise and pharmacotherapeutic interventions for persons with SCI. He has also studied causes of, and treatments for their cardiovascular dysregulation and cardioendocrine dysfunction, and currently focuses research efforts on study of vascular risks imposed by dyslipidemias and post-prandial pro-atherogenic cytokines. He has published over 100 manuscripts, scholarly monographs, and book chapters on these and related topics. His national and international lectures number in the hundreds. Dr. Nash has served as a grant reviewer on disability topics for the NIH, the U.S. Department of Education, the U.S. Veterans Administration, and the U.S. Centers for Disease Control and Prevention. He is a member of multiple Medical and Research Advisory Boards including Shiners' Hospitals International and the New Jersey Spinal Cord Commission. Dr. Nash is a peer-reviewer for all major rehabilitation and exercise journals in his professional sphere. He served as PI/Project Director for a NIDRR-funded multicenter randomized clinical trial (RCT) examining "Niaspan in Tetraplegia" and as Co-PI/Site Director for two NIDRR Rehabilitation Research Training Center Grants. He is currently PI for two 3-year NIDRR-funded studies examining "Exercise and Obesity-related Complications after SCI" and "Sleep-Disordered Breathing and Cardiometabolic Disorders After SCI", and well as PI on a U.S. Department of Defense Multi-Center RCT examining Diabetes Prevention after SCI. Multiple funding from the Craig H. Nielsen Foundation are currently focused on translation of exercise models for the benefit of persons with tetraplegia, pharmacological suppression of post-prandial vascular inflammatory stress, and circumventing barriers to exercise participation after SCI.

T3 - Technology Track

Speaker: Martin Ferguson Pell, Ph.D.



Dr. Ferguson Pell is Professor and Dean of the Faculty of Rehabilitation Medicine, University of Alberta. After graduating with a Ph.D. in biomedical engineering Dr Ferguson-Pell was appointed lecturer at the University of Strathclyde in Glasgow. In 1982 he relocated to New York and founded and directed the Centre for Rehabilitation Technology at Helen Hayes Hospital. He was also Associate Professor in Clinical Bioengineering in Rehabilitation at Columbia University and held an adjunct appointment in biomedical engineering at Rensselaer Polytechnic Institute. In 1995 Dr Ferguson-Pell was offered the founding appointment to the ASPIRE Professorial Chair in Neuromuscular Restoration and Rehabilitation at University College London. During this time he was also appointed Director of Research and Development at the Royal National Orthopaedic Hospital, a Board level position.

Dr. Ferguson-Pell is a registered Clinical Scientist. He has extensive experience working in clinical-academic settings developing engineering solutions to overcome barriers experienced by people with physical disabilities. He employs traditional scientific methods, engineering design as well as qualitative methods to provide a balanced approach to the development and translation of research that directly influences the independence of people with physical disabilities.

Speaker: Mark Humayun, M.D., Ph.D.



Dr. Humayun is Professor of Ophthalmology at the University of Southern California, Los Angeles, California. He received his B.S. from Georgetown University in 1984, his M.D. from Duke University in 1989, and his Ph.D. from the University of North Carolina, Chapel Hill in 1994. He completed his ophthalmology residency at Duke Eye Center and fellowships in both vitreoretinal and retinovascular surgery at Johns Hopkins Hospital. He stayed on as faculty at Johns Hopkins where he rose to the rank of associate professor before moving to USC in 2001.

Dr. Humayun's research projects focus on the treatment of the most debilitating and challenging eye diseases through advanced engineering. Leading a team of more than 30 faculty and 200 students from 15 different institutes, Dr. Humayun is focused on developing therapies for 1) retinal degenerations such as retinitis pigmentosa, 2) macular degenerations such as age-related macular degeneration, 3) retinovascular diseases such as vein occlusions, 4) diabetic retinopathy, as well as 5) glaucoma.

Dr. Humayun is a member of the National Academies of Sciences Institute of Medicine. He has been voted as one of the Best Doctors in America and has received numerous research awards. He is the director of the National Science Foundation BioMimetic MicroElectronic Systems Engineering Research Center, as well as the director of the Department of Energy Artificial Retina Project.

Panelists:

Moderator: Michael Boninger, M.D., Ph.D.

Dr. Boninger is Professor and Chair in the Department of Physical Medicine & Rehabilitation in the University of Pittsburgh, School of Medicine and director of the UPMC Rehabilitation Institute. Dr. Boninger is a physician researcher for the Department of Veterans Affairs (VA) and is the Medical Director of the Human Engineering Research Laboratories, a VA Rehabilitation Research and Development Center of Excellence. Dr. Boninger is a Professor in the Departments of Bioengineering and Rehabilitation Science and Technology and Director of the University of Pittsburgh Model Center on Spinal Cord Injury, a NIDRR Center of Excellence. Dr. Boninger has an extensive publication record of over 160 published papers spanning 15 years in the area of spinal cord injury and assistive technology. Dr. Boninger also has extensive experience and publications related to teaching research. Dr. Boninger holds 4 US patents, was inducted in the National Spinal Cord Injury Association Hall of Fame in 2006, and has won numerous awards. Dr. Boninger's students have also won over 45 national awards



Jennifer French

As a result of a snowboarding accident, Jennifer French became a quadriplegic from a C6-7 incomplete spinal cord injury in 1998. In 1999, she received the Implantable Stand and Transfer System; the first woman to receive such a system. Residing in St. Petersburg, Florida, Jen is a member of the US Sailing Team AlphaGraphics, and is actively campaigning to represent the USA at the 2012 Paralympic Games in London. She is the co-founder and Executive Director of a non-profit organization, Neurotech Network focusing to educate, raise awareness and advocate to access neurotechnology for persons with neurological diseases and disorders. Most recently, Jennifer's story was featured in the documentary film, "To Have Courage", and in the book, "Shattered Nerves".



Ruth Marshall, MBBS, FAFRM(RACP)

Dr Marshall is a Rehabilitation Physician at the Royal Adelaide Hospital and Hampstead Rehabilitation Centre, Adelaide, Australia and is a clinical academic at Adelaide University. She graduated in Medicine from Sydney University and is a Fellow of the Australasian Faculty of Rehabilitation Medicine of the Royal Australasian College of Physicians.

In 1986, Dr Marshall was appointed Medical Director of the South Australian Spinal Cord Injury Service and in 1988 was also appointed Medical Director of the Orthopaedic, Amputee and Spinal Injury Rehabilitation Service (which also incorporates Burns rehab). She continues to hold both these posts.

Dr Marshall's responsibilities include clinical work in acute, rehabilitation and long-term SCI management which sees her working in metropolitan teaching hospitals in Adelaide and in remote Aboriginal communities in Northern Australia as well as departmental management. She is involved in teaching medical students and rehabilitation medicine trainees, in clinical research but has an interest in translational research and ethics as well.

Dr Marshall is a board member of the Australian arm of Motivation, an organization dedicated to providing appropriate seating and wheelchairs and thus freedom and empowerment to people with mobility impairments living in less resourced settings. She is a Fellow of International Spinal Cord Society (ISCoS), a corresponding member of both American Spinal Injury Association (ASIA) and the American Academy of Physical Medicine and Rehabilitation, a member of several ISCoS committees and is the incoming ISCoS Vice-President for Oceania. She chairs the committee developing the taxonomy for non-traumatic SCI for the International Dataset. First and foremost a SCI clinician, Dr Marshall is constantly looking for practical ways of enabling her patients to participate fully in all aspects of their lives.



Hunter Peckham, Ph.D.

Dr. P. Hunter Peckham is the Donnell Institute Professor of Biomedical Engineering at Case Western Reserve University. The major area of Dr. Peckham's research is in rehabilitation engineering and neuroprostheses. Dr. Peckham's research effort focuses on functional restoration of the paralyzed upper extremity in individuals with spinal cord injury. He and collaborators have developed implantable neural prostheses which utilize electrical stimulation to control neuromuscular activation. They have implemented procedures to provide control of grasp-release in individuals with tetraplegia. This function enables individuals with central nervous system disability to regain the ability to perform essential activities of daily living. His present efforts concern the integration of technological rehabilitation and surgical approaches to restore functional capabilities.



Mary Rodgers, Ph.D., PT

Mary M. Rodgers, PhD, PT, is George R. Hepburn Dynasplint Professor and Chair, Department of Physical Therapy and Rehabilitation Science (PTRS), University of Maryland School of Medicine. She is also Scientific Advisor to the National Institute for Biomedical Imaging and Bioengineering (NIBIB) at the National Institutes of Health (NIH). Dr. Rodgers earned her degree in Physical Therapy at the University of North Carolina, Chapel Hill, and her PhD in Biomechanics from the Pennsylvania State University. She came to the University of Maryland, Baltimore, in 1994, and became PTRS department chair in 1998. Dr. Rodgers served as President of the International Society of Biomechanics (2003-5), was awarded an endowed professorship in 2005 and was inducted as a Fellow in the American Physical Therapy Association (APTA) in 2009. Over the past two decades, Dr. Rodgers performed clinical investigation with individuals who use manual wheelchairs, primarily supported by grants from the Veterans Administration. As Director of the Pilot Exploratory Studies Core and co-PI of the Research Career Development Core, Dr. Rodgers is heavily involved in the mentorship, educational and dissemination efforts of the University of Maryland Claude D. Pepper Older Americans Independence Center. In her NIBIB/NIH advisory role, Dr. Rodgers facilitates support of technology development for individuals with disability, rehabilitation, and healthy independent living.



Nekram Upadhyay, MS, RET

Nekram Upadhyay is the chair of Department of Assistive Technology at Indian Spinal Injuries Centre, New Delhi, India. He is also a visiting lecturer at ISIC Institute of Rehabilitation Sciences under Indra Prastha University, Delhi. Mr. Upadhyay finished his higher studies at University of Illinois at Chicago, USA and joined Indian Spinal Injuries Centre in 2006 where he established the Assistive Technology Unit within the rehabilitation services in collaboration with Department of Rehabilitation Sciences and Technology at University of Pittsburgh, PA (USA), under the supervision of Dr. Rory A. Cooper. His primary work is focused on finding and developing the best solutions of wheelchair and related technology to improve functional capability of persons with Spinal Cord Injuries and similar kinds. He is one of the key members in the ADIP-Assistive Devices Distribution Scheme Committee under the Ministry of Social Justice and Empowerment, Government of India. He is also an active member of various scientific organizations including ISCoS and Society for Disability Studies and has been recognized for his excellence in the field of disability and technology. He has been selected for numerous awards, including Rotary Innovative Technology Professional Award (2008), Ford Foundation International Fellowship Award (2003) for studying rehabilitation technology at the University of Illinois, Chicago; State Level Award (2002) for the best innovator, Gold Medal, Abilympics (2001 and 2002) for designing user friendly systems.



T4 - Psychosocial Track

Speaker: Christine M. Griffin, J.D.



Christine M. Griffin is the Deputy Director of the U.S. Office of Personnel Management (OPM). As Deputy Director, she plays a key role in shaping and managing the Federal government's 1.9 million employees. Prior to her accepting the OPM appointment, Griffin was a Commissioner of the U.S. Equal Opportunity Commission (EEOC), where she helped develop and approve enforcement policies, including those authorized by law, regulation, or order.

Griffin is a vocal supporter of promoting a diverse Federal workforce, as well as a proponent of greater efficiency and fairness in the Federal EEO process. She is a strong advocate for women's rights and the rights of individuals with disabilities. Notably, in June 2006, Ms. Griffin launched the LEAD Initiative - Leadership for the Employment of Americans with Disabilities - to address the significant under-

employment of individuals with severe disabilities in the Federal government.

Before her appointment with the EEOC, Griffin worked extensively in labor and employment law positions in both the public and private sectors, including her service as the Executive Director of the Disability Law Center in Boston from 1996 to 2005. Prior to that, Ms. Griffin served from 1995 to 1996 as an Attorney Advisor to the former Vice Chair of the EEOC, Paul M. Igasaki, advising him on legal matters and policy issues. Ms. Griffin is also a Vietnam-Era Veteran of the U.S. Army, serving on active duty from 1974-1977.

A native of Boston, Ms. Griffin received her undergraduate degree from the Massachusetts Maritime Academy in 1983. Ms. Griffin received her law degree from the Boston College Law School, and was awarded the prestigious Skadden Arps Fellowship upon graduation. In December 2005, Ms. Griffin was selected as one of the nation's eleven "Lawyers of the Year" by Lawyers Weekly USA newspaper.

Speaker: Marcel W.M. Post, Ph.D.



Dr. Post is a Senior Researcher at the Rehabilitation Center De Hoogstraat, Utrecht, The Netherlands, and Associated Professor at the Rudolf Magnus Institute for Neuroscience of the University Medical Centre Utrecht, The Netherlands. Following completion of his doctoral work at Utrecht that focused on health status and life satisfaction after spinal cord injury, Dr Post's current research interests include study of quality of life, psychological factors, and caregiver burden in persons after spinal cord injury, stroke, and neuromuscular diseases. In his research he has focused on, participation, rehabilitation outcome measurement, and instrument development in these areas. Dr. Post is the author of more than 140 articles in peer-reviewed journals. He is member of the Executive Committee of the ISCoS/ASIA Data Sets project and co-chaired the development of the datasets for activities and participation, and

quality of life. Dr. Post was visiting professor at the Swiss Paraplegic Research and received the Van Hoytema award from the Dutch Association for Physical Medicine and Rehabilitation (VRA) for his contribution to rehabilitation medicine in 2010.

Speaker: Lex Frieden, M.S., LL.D.



Lex Frieden is Professor of Biomedical Informatics and of Physical Medicine and Rehabilitation at The University of Texas Health Science Center at Houston (UTHealth) and he is Professor of Physical Medicine and Rehabilitation at Baylor College of Medicine. Mr. Frieden also directs the ILRU – Independent Living Research Utilization Program at The Institute for Rehabilitation and Research (TIRR) Memorial Hermann in Houston. ILRU is a research, training and technical assistance program on independent living for people with disabilities and seniors.

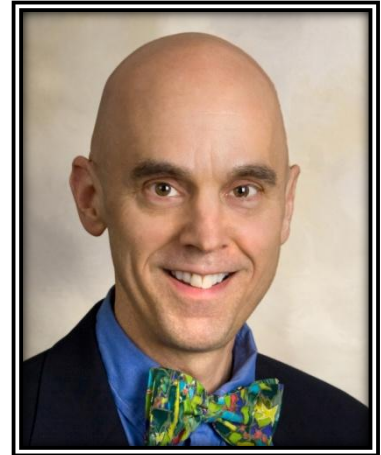
Mr. Frieden has served as chairperson of the National Council on Disability, president of Rehabilitation International, and chairperson of the American Association of People with Disabilities. He is recognized as one of the founders of the “independent living” movement in the early 1970's, and he was instrumental in conceiving and drafting the Americans with Disabilities Act (ADA) of 1990.

A graduate of Tulsa University, Mr. Frieden has been honored as a Distinguished Alumnus. He holds a master's degree in social psychology from the University of Houston where he completed doctoral requirements in rehabilitation psychology, and he has been awarded an honorary doctorate in law (LL.D.) by the National University of Ireland. He has received two Presidential Citations for his work in the field of disability.

Panelists:

Moderator: Allen Heinemann, Ph.D.

Allen W. Heinemann, Ph.D. completed his doctoral degree in clinical psychology at the University of Kansas with a specialty focus in rehabilitation. He completed an internship at Baylor College of Medicine in Houston and was an assistant professor in the Department of Psychology at Illinois Institute of Technology. Since 1985, he has worked at the Rehabilitation Institute of Chicago where he directs the Center for Rehabilitation Outcomes Research, a rehabilitation-focused health services research unit. He is also associate director of Research at RIC and professor in the Department of Physical Medicine and Rehabilitation at the Feinberg School of Medicine, Northwestern University. He serves on the Coordinating Committee for Northwestern University's Institute for Healthcare Studies. His research interests focus on health services research, psychosocial aspects of rehabilitation including substance abuse, and measurement issues in rehabilitation. He is the author of more than 110 articles in peer-reviewed publications and is the editor of *Substance Abuse and Physical Disability* published by Haworth Press. He is the recipient of funding by NIDRR (RRTC on Measuring Rehabilitation Outcomes and Effectiveness, DRRP on Health Services Research, Switzer Fellowship, Field Initiated Projects, Innovation Award, several RRTC projects), the National Institute on Alcohol Abuse and Alcoholism, Centers for Disease Control, the SSA, the Substance Abuse and Mental Health Services Administration, the J.M. Foundation, the Paralyzed Veterans of America-Spinal Cord Research Foundation, and the American Occupational Therapy Foundation and Association. He is a fellow of the American Psychological Association (Division 22) and a diplomate in Rehabilitation Psychology (ABPP). During 2005-6, he served as the immediate past president of the American Congress of Physical Medicine and Rehabilitation and the Rehabilitation Psychology division of the American Psychological Association. He serves as a study section member for NIH, as the Congress Editor for the *Archives of Physical Medicine and Rehabilitation*, on the editorial board of *NeuroRehabilitation*, *International Journal of Rehabilitation and Health*, *Journal of Applied Measurement*, the *Journal of Head Trauma Rehabilitation*, and *Rehabilitation Psychology*. He is the recipient of the Division 22 (Rehabilitation Psychology – of the American Psychological Association) Roger Barker Distinguished Career Award.



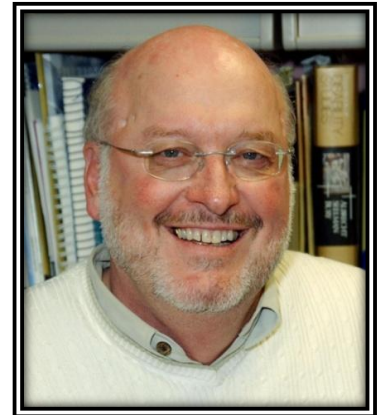
Kathy Boschen, Ph.D., M.A.

Dr. Kathryn Boschen is a Research Scientist with the Bridgepoint Health Collaboratory for Research and Innovation in Toronto, Ontario, Canada. She holds a PhD in Social Psychology and is an Associate Professor at the University of Toronto in the Graduate Department of Rehabilitation Science. Bridgepoint is dedicated to continuing care and rehabilitation medicine, and has a strong reputation in the specialty area of complex chronic conditions. Research at Bridgepoint aims to contribute to knowledge development and implementation from a health services, health policy, clinical, and health promotion perspective, in order to shed light on the impact that one chronic disease or condition has on another. Dr Boschen has initiated a new evidence-based outcomes study with a staff physician who developed a pain management group program at Bridgepoint based on cognitive behavioral therapy principles. This type of clinical intervention has been shown in several pilot studies by Dr Boschen and her colleagues to have promising quality of life outcomes for self-management of chronic pain. The most recent, conducted at the Lyndhurst Centre of the Toronto Rehabilitation Institute and funded by the Rick Hansen Institute, was specifically tailored to the spinal cord injury population. Dr Boschen has also researched and written on other topics in community integration and quality of life of adults with SCI: social, societal, and environmental obstacles, housing and employment challenges, community-based rehabilitation and case management, the importance of family, social, and peer support, caregiver burnout, self-directed attendant care, secondary health complications, and long-term SCI adjustment.



David B. Gray, MA, Ph.D., FAPA

Dr. Gray, Professor of Occupational Therapy and Neurology at Washington University School of Medicine in St. Louis, MO, is a community based rehabilitation scientist. He teaches a course on disability policy in the Occupational Therapy program at Washington University School of Medicine in St. Louis, MO. He was active in developing the Participation and Environment components of the International Classification of Functioning, Disability and Health (ICF). He was the Deputy Director of the National Center for Medical Rehabilitation Research (NCMRR) at the NIH from 1990 through 1995. From 1986 to 1987, he was the Director of NIDRR at the U.S. Department of Education in Washington, DC. He had a cervical spinal cord injury in 1976.



His research involves understanding the various factors that influence community participation by people with disabilities. His work covers: 1) developing and testing subjective and objective measures of participation in context by people with mobility impairments; 2) developing person specific interventions (exercise, personal assistance, assistive technologies, secondary health conditions, health awareness, and behavioral strategies) for the purpose of increasing community participation by people with mobility, visual, auditory and intellectual impairments; 3) assessing environmental receptivity for people with disabilities; 4) implementing community engagement initiatives to improve community receptivity for people with impairments (access to urban and rural health facilities, recreational sites, hospitality industry, educational facilities, employment sites) using the participation in context surveys as outcome measures; 5) studying characteristics of people with disabilities who work and the

receptivity of their work environments; and 6) developing and testing devices that improve the lives of people with disabilities.

Gregory Murphy, Ph.D.

Dr Greg Murphy is Professor of Rehabilitation Psychology within the School of Public Health, La Trobe University and one of Australia's most active rehabilitation psychologists. His main research interests are in vocational rehabilitation, particularly return to work following serious injury. He is particularly interested in two key constructs central to the successful adjustment to major life crises – effective social support, and personal control beliefs of those facing major adjustments.



Greg has held visiting staff member appointments at such prestigious academic and hospital settings as Johns Hopkins University, Georgia Institute of Technology, the Duke of Cornwall Spinal Unit and the Swiss Paraplegic Centre. He is currently a member of the Australian federal government's Department of Veterans' Affairs Technical Advisory Committee (Rehabilitation) where he contributes to policy and service development in the area of rehabilitation and return-to-work for both veterans as well as injured members of the Defense forces.

Luc Noreau, Ph.D.

Dr Luc Noreau is a full professor at the Rehabilitation Department, Laval University, and Scientific Director at the Center for Interdisciplinary Research in Rehabilitation in Social Integration (CIRRIS), Quebec City. He was initially trained in the field of Exercise Sciences (Laval University) and he carried out a doctoral training in Community Health at the University of Toronto (1991). From 1994 to 2006, Dr. Noreau was a scholar of the Quebec Health Research Foundations; he has carried out projects in various fields but primarily in spinal cord injury rehabilitation outcomes. His interests also cover also the domain of conceptualization of the disablement process, social participation and quality of life. From more than 15 years, he is closely associated as principal investigator of several projects carried out within the Quebec SCI Centers of Excellence (Montreal and Quebec City) and more recently associated with the Ontario-Quebec partnership initiative (ONF/REPAR) supporting SCI research. He initiated the development and validation of a community follow-up process for the Rick Hansen Spinal Cord Injury Registry that included important component on secondary complications, participation and quality of Life. He also acted as the Lead of the Community Integration Practice Network of the SCI-Translational Research Network (SCI-TRN, now Rick Hansen Institute) in Canada (2008-2009)



He is the co-developer of an instrument called the Assessment of Life Habits (LIFE-H) to measure social participation.