

Principal Investigator

Douglas G. Smith, MD is an Associate Professor of Orthopaedic Surgery at the University of Washington and an attending surgeon at Harborview Medical Center Department of Orthopaedic Surgery, University of Washington Medical Center, Seattle Veterans Administration Medical Center and a consultant for the Walter Reed Army Medical Center Amputee Service. He currently serves as the Director of Prosthetics Research Study, Seattle, Washington and as the Medical Director for the Amputee Coalition of America (ACA). He is a member of American Academy of Orthopaedic Surgeons, American Orthopaedic Foot and Ankle Society, Orthopaedic Trauma Association, Orthopaedic Rehabilitation Association, Western Orthopaedic Association, International Society for Prosthetics and Orthotics, and Washington State Medical Association. Doug attended the University of Notre Dame and University of Chicago, Pritzker School of Medicine. His Internship and Residency were performed at Loyola University Medical Center and a Fellowship in Foot, Ankle and Amputation Surgery under the direction of Sigvard T. Hansen, MD, and Ernest M. Burgess, MD at Harborview Medical Center and University of Washington.

Co-Principal Investigator

John Michael, MEd, CPO/LPO, is a Licensed and Certified Prosthetist-Orthotist with a longstanding interest in clinical education. He is a charter member of the Upper Limb Prosthetics and Gait Societies of the American Academy of Orthotists and Prosthetists (AAOP) and has lectured widely in the US, Canada and abroad on a variety of prosthetic and orthotic topics. He is active in a number of professional societies and disability groups and has been a member of the Academy (AAOP), the Canadian Association of Prosthetists and Orthotists (CAPO), and the International Society for Prosthetics and Orthotics (ISPO) since the 1970's. He has previously served as President of the Academy (AAOP), as an official consultant to the American Academy of Orthopaedic Surgeons (AAOS), and as an advisor to the National Institutes of Health (NIH). He is a Chair Emeritus of the US Member Society of the International Society for Prosthetics and Orthotics (ISPO) and has been named as a Fellow of that organization. He is a recipient of the AAOP's 1992 "Outstanding Clinician Award" and the 1997 "Distinguished Practitioner Award", and was named a Fellow of the Academy in 1998. Formerly an Assistant Clinical Professor and Director of the Department of Prosthetics and Orthotics at Duke University Medical Center in North Carolina, Mr. Michael is now the President of "CPO Services, Inc.", an independent clinical consulting firm located in northwest Indiana.

Presenters and Participants

David Boone, CP, MPH, is an Associate Professor of the Rehabilitation Engineering Centre of The Hong Kong Polytechnic University. He received his BS in Prosthetics and Orthotics and Master of Public Health in Health Economics from the University of Washington, School of Medicine. He has completed his PhD studies in Biomedical Engineering at The Hong Kong Polytechnic University and defends his dissertation in May, 2005. David was a post-graduate research

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assistant at the Bioengineering Centre of University College London at Roehampton before working with Professor Ernest Burgess in Seattle as research prosthetist and then Technical Director of the Prosthetics Research Center in Hanoi, Vietnam. After Prof. Burgess' retirement in 1993 David served as the Director and Co-Principal Investigator of Prosthetics Research Study and is a clinical faculty member of the departments of Rehabilitation and Orthopedics at the University of Washington. He joined The Hong Kong Polytechnic University in 2000. He has served on the governing boards of the USA Member Society of the ISPO, and the International Prosthetics Outreach foundation. He was a member of the US National Institutes of Health special study section on rehabilitation from 1991 until 2001. He has authored 25 peer reviewed publications and more than ninety international presentations especially on computer applications in prosthetic and lower limb prosthesis design.

Mike Brncick, CPO, MEd, is an Associate in Prosthetics and Orthotics in the Department of Physical Medicine and Rehabilitation, Northwestern University Feinberg School of Medicine, a Research Prosthetist with the Northwestern University Rehabilitation Engineering Research Program and Prosthetics Research Laboratory, Feinberg School of Medicine, as well as, Chairman, Educational Advisory Committee, Center for International Rehabilitation (CIR) formerly Physicians Against Landmines. He is also the former Interim Director of the Northwestern University Prosthetics-Orthotics Center (NUPOC) and former Director, Orthotic/Prosthetic Clinical Services Dept. of the Rehabilitation Institute of Chicago. He served as Past Chairman, and Commissioner for the National Commission on Orthotic and Prosthetic Education (NCOPE). He is the Former Recipient of American Academy of Orthotists and Prosthetists (AAOP) Outstanding Educator Award. He is a member of the Illinois Society of Prosthetists and Orthotists, the International Society of Prosthetics and Orthotics (ISPO), and the American Academy of Orthotists and Prosthetists (AAOP). He obtained his undergraduate degree in Zoology at Eastern Illinois University and his Masters Degree in Education from the University of Illinois, Champaign/Urbana.

James H. Campbell, PhD, CO is the Vice President of Becker Orthopedic in Troy Michigan. Campbell served as the Editor-in-Chief (2000-2003) for the Journal of Prosthetics and Orthotics (JPO) and as Chair of the Scientific and Clinical Content Committee, for the 2004 Annual Meeting of the Academy. Campbell has authored several book chapters and journal articles, a recipient of Thranhardt award in 2000 he continues to lecture extensively at national and international meetings. Dr Campbell relocated to the United States in 1988 and was in clinical practice at the Cleveland Clinic in Ohio for 6 years, he received his undergraduate and postgraduate education at the University of Strathclyde, Glasgow, Scotland. In 1979 he graduated from the National Center for Training and Education in Prosthetics and Orthotics, in 1996 he was awarded a Ph.D. in Bioengineering for his research entitled: The Orthotic Management of the Paraplegic Child, A Clinical and Biomechanical Analysis.

Dudley S. Childress, PhD, is a Professor of Biomedical Engineering and Physical Medicine and Rehabilitation at Northwestern University and a Senior Research Health Scientist in the Veterans Administration Chicago Health Care System-Lakeside Division where he directs the

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Prosthetics Research Laboratory. At Northwestern, he directs the NIDRR Rehabilitation Engineering Research Center in Prosthetics and Orthotics and is the Executive Director for the Prosthetics and Orthotics Education Program. His present research and development activities are concentrated in the areas of biomechanics, human walking, artificial limbs, ambulation aids and rehabilitation engineering. He engages in the development of engineering systems that assist people with ambulation problems and that provides control for artificial hand/arm replacements. Dr. Childress, a recipient of numerous honors and awards including the Missouri Honor Award for Distinguished Service in Engineering, the Paul B. Magnuson Award from the Department of Veterans Affairs Rehabilitation Research and Development Service, is also a member of the Institute of Medicine of the National Academy of Sciences. Dr. Childress has a doctoral degree in Electrical Engineering/Computer Science from Northwestern University.

Jean Deitz, PhD, OTR/L, is a Professor and Graduate Program Coordinator in the Department of Rehabilitation Medicine at the University of Washington. Through grant funding, she assumed primary leadership for the development of three specialized post-professional Master of Science programs for occupational therapists and two doctoral level programs for occupational and physical therapists. The latter programs involved interdepartmental collaboration. In addition, she recently was instrumental in developing a track in the Master of Science Program in Rehabilitation Medicine that is specifically for students in prosthetics and orthotics. Currently, she is chairing the committee for a doctoral program in rehabilitation sciences in the Department of Rehabilitation Medicine and the vision for that program includes opportunities for students in prosthetics and orthotics.

Mark Edwards, MHPE, CP, is the Director of Prosthetics Education at Northwestern University Prosthetics-Orthotics Center and a Clinical Instructor in the Department of Physical Medicine and Rehabilitation of Northwestern University's Feinberg School of Medicine since 1985. He is a consulting prosthetist for the Rehabilitation Institute of Chicago and the Northwestern University Prosthetics Research Laboratory. Mark has served as President of the Midwest Chapter of the American Academy of Orthotists and Prosthetists (AAOP), Chair of the National Association of Prosthetic and Orthotic Educators (NAPOE), and Commissioner of the National Commission on Orthotics and Prosthetics Education (NCOPE).

Stefania Fatone, Ph.D., B.P.O.(Hons.) graduated from La Trobe University in Melbourne Australia in 1995 with a Bachelor of Prosthetics and Orthotics (Honours) and completed her PhD in biomechanics at La Trobe University in 2000. Dr. Fatone's honors include receiving the D.M. Myer University Medal from La Trobe University for her Honours Thesis, and the Ray McKernan Studentship for Orthotic and Prosthetic Biomechanical Research from the Royal Children's Hospital, Melbourne for her doctoral studies. Dr Fatone came to the Northwestern University Prosthetics Research Laboratory & Rehabilitation Engineering Research Program in 2000 to undertake a post-doctoral fellowship. During her post-doctoral fellowship Dr Fatone was instrumental in receiving a 3-year grant from the Department of Veterans Affairs to investigate "Ankle-Foot Alignment and Support in Ankle Foot Orthoses". Dr. Fatone was appointed a Research Assistant Professor in the Department of Physical

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Medicine and Rehabilitation at Northwestern University Feinberg School of Medicine in 2003. Dr. Fatone has both clinical and teaching experience in prosthetics and orthotics, as well as experience in clinical gait analysis.

John Ferguson, CPO, is the Director of Prosthetics-Orthotics, Department of Rehabilitation Medicine, School of Medicine, University of Washington. He has been an active member on Prosthetics Research Study's Board of Directors and continues to serve as the Commissioner of the National Commission on Orthotic and Prosthetic Education (NCOPE) since 1998. John is a member of the University of Washington Advisory and Evaluation Committees for Division of Prosthetics-Orthotics, Division of Physical Therapy and Division of Occupational Therapy. He is a team member of the Limb Viability Service, Harborview Medical Center.

Robert Gailey, PhD, PT, is an Associate Professor at the University of Miami, School of Medicine, Department of Physical Therapy where he has taught, practiced clinically and conducted research for the past 20 years. He has a joint position with Miami Veterans Affairs Medical Center as a health science researcher. He has authored numerous publications and has continued research efforts directed toward: evidenced based amputee rehabilitation, the biomechanics and metabolic cost of prosthetic gait, functional assessment and athletic pursuits of the amputee as well as other athletes with disabilities across the life span. He remains active with many organizations including the Amputee Coalition of America and the American Physical Therapy Association. He also participated as a member of the United States Disabled Sports Medial Team in several World Championship and Paralympic Games and continues to work with some of the most elite athletes with disabilities from around the world.

Steven A. Gard, PhD, is the Assistant Director of the Northwestern University Prosthetics Research Laboratory and Rehabilitation Engineering Research Program, Director of the VA Chicago Motion Analysis Research Laboratory, and a Research Assistant Professor in the Departments of Biomedical Engineering and Physical Medicine & Rehabilitation at Northwestern University. His research interests are in the areas of prosthetics, orthotics, and human movement analysis. Dr. Gard is currently serving on the Graduate Program Committee in the Department of Biomedical Engineering, the Institutional Review Board for Northwestern University, and the Editorial Boards for Journal of Prosthetics & Orthotics and Journal of Rehabilitation Research & Development. Dr. Gard received his undergraduate degree in Bioengineering from Texas A&M University, and his Masters and Doctorate in Biomedical Engineering from Northwestern University.

Mark Geil, PhD, was recently named Director of Biomechanics at Georgia State University where he conducts prosthetic motion analysis research and continues work with the organization he founded, the Global Partnership for Amputee Land Mine Survivors. While at Georgia Tech for over six years, he developed and implemented the world's first and only entry-level Master's program in prosthetics and orthotics. He received his PhD in biomedical engineering from the Ohio State University in 1997.

Susan Kapp, CPO, is an Associate Professor and the Director of the Prosthetics-Orthotics Program at the University of Texas Southwestern Medical Center in Dallas. Her responsibilities include the administration of the academic program and clinic, teaching and patient care. Ms. Kapp is president of the Texas Chapter of the Academy and a member of the Academy's Research & Development Committee. Ms. Kapp is past chair of NAPOE, serves on the US-ISPO executive board and was an NCOPE commissioner for five years. She currently chairs the "Self-Study Committee" for NCOPE. She is the recipient of the Academy's 1993 "Outstanding Educator Award". She earned her Bachelor's Degree at Texas A&M University in 1979 and received her prosthetic and orthotic education at Northwestern University. Her academic interests include educational technology and the delivery of web enhanced education in prosthetics and orthotics. She will complete her M.Ed. in educational technology in August 2005.

Thomas Karolewski, CP, LP, is an Assistant Director of Prosthetics Education at Northwestern University Prosthetics-Orthotics Center and a Clinical Instructor in the Department of Physical Medicine and Rehabilitation of Northwestern University's Feinberg School of Medicine. He is also a consulting prosthetist for the Rehabilitation Institute of Chicago. He was just awarded the Outstanding Educator award for 2005. He was named a Fellow of the American Academy of Orthotists and Prosthetists in 2002. He is a member of the self-study committee for the National Commission on Orthotic and Prosthetic Education (NCOPE). He has served as President of the Midwest Chapter (1998) of the American Academy of Orthotists and Prosthetists. He is a current member of the Illinois Society of Prosthetists and Orthotists, the International Society of Prosthetics and Orthotics (ISPO), and the American Academy of Orthotists and Prosthetists (AAOP). He obtained his bachelor's degree in Physical Education, Special Education, Adapted Physical Education, and Kinesiotherapy. He is a Licensed and Certified Prosthetist in the State of Illinois. He is also a Licensed Educator in the State of Illinois with a current Type 10 Teachers Certificate.

Donald E. Katz, CO, LO is the Administrative Director of Orthotics and Prosthetics and Director of the Orthotics Department at Texas Scottish Rite Hospital for Children (TSRHC). He is currently the President of the American Academy of Orthotists and Prosthetists (the Academy), having served as an elected member of the Board since 1996. He earned his BS degree from the University of Texas Southwestern Medical Center's Prosthetic and Orthotic program, after completing all prerequisite coursework at the University of Texas at Austin. He has a clinical faculty appointment at UT Southwestern's P&O program since 1987. He became an ABC certified orthotist after completing his orthotic residency at Newington Children's Hospital, Newington, Connecticut and is a licensed orthotist in the state of Texas. He is a past president of the Texas Chapter of the Academy – serving as an elected officer from 1992 to 2002, became a Fellow with the Academy in 2001, and is recognized as an Associate Fellow with the Scoliosis Research Society since 1998. Mr. Katz was the recipient of the Academy's Award for Research in 1997, and is a multiple winner of the Honorary Thrandhardt Lecture Award. He is a past chairman of the Academy's Research and

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Development Committee, a member of the U.S. International Society of Orthotists and Prosthetists (ISPO), and served as a symposium chair at the 1999 Interbor World Congress in Boston, MA. He chaired the Academy's first consensus conference on the orthotic treatment of idiopathic scoliosis and Scheuermann's kyphosis in 2002, serving as primary investigator for a grant to support this effort from the U.S. Center for Disease Control (CDC), and currently serves as chairman of the Academy's Planning Committee for future State of the Science conferences. Mr. Katz was honored as the 2003 Blatchford Lecturer at the annual meeting of the United Kingdom's Chapter of ISPO, and has presented several papers at numerous O&P and Orthopaedic scientific venues. He has published original research in the journal of Spine, the Journal of Pediatric Orthopaedics, the Journal of Prosthetics and Orthotics, and the Journal of Bone and Joint Surgery.

Robert Lipschutz, BSME, CP, is a Co-Director of the Prosthetics & Orthotics Clinical Center at the Rehabilitation Institute of Chicago and a Clinical Instructor of Prosthetics Education at Northwestern University Prosthetics-Orthotics Center. He is a member of the Association of Children's Prosthetic-Orthotic Clinics (ACPOC), currently serving on the Program Committee responsible for the 2005 Annual Meeting, and is also a member of the American Academy of Orthotists and Prosthetists (AAOP). Robert received his Bachelor's of Science in Mechanical Engineering from Drexel University, Philadelphia, Pennsylvania and his Certificate in Prosthetics and Orthotics from New York University's Post Graduate Medical School, New York, New York.

Bryan Malas, MHPE, CO, is currently the Director of the Orthotics Department at Children's Memorial Hospital in Chicago, on faculty for Orthotics and Prosthetics in the Department of Physical Medicine and Rehabilitation, Northwestern University Feinberg School of Medicine, current Chair for the National Commission on Orthotic and Prosthetic Education (NCOPE), International Society for Prosthetics and Orthotics (ISPO) Educational Committee member, Past-Chair for the National Association Prosthetics-Orthotics Educators (NAPOE), and Past-President American Academy of Orthotists and Prosthetist (AAOP) Midwest Chapter. He is also the former Director of Orthotics Education at Northwestern University's Prosthetic-Orthotic Center (NCOPE) as well as the former Director for Research and Education at the Rehabilitation Institute of Chicago (RIC). Formerly recognized in Who's Who Among America's Teachers. He is a member of AAOP and ISPO. He received his undergraduate degree at Long Beach St. in Anatomy/Physiology and his Master's Degree in Health Professions Education from the University of Illinois Chicago.

Margrit Meier, PhD, CPO, is a Research Assistant Professor in the Department of Physical Medicine and Rehabilitation at Northwestern University. Dr. Meier is a certified prosthetist/orthotist from Switzerland with a Master of Science degree in Prosthetics and Orthotics from the University of Strathclyde, Glasgow, Scotland. She holds a Ph.D. degree in Clinical Sciences, with emphasis in biomechanics, from the University of Sherbrooke, Sherbrooke, QC, Canada. Dr. Meier's research interests are in the area of prosthetics and

prosthetic components, development of appropriate technology for low-income countries and human movement analysis.

Laura Miller, PhD, CP, is a Clinical Instructor in Physical Medicine and Rehabilitation at Northwestern University, lecturing in prosthetics through the NU Prosthetics Orthotics Center and a part-time staff prosthetist at the RIC Prosthetics Orthotics Clinical Services. She completed her PhD in Biomedical Engineering at Northwestern University in 2003. The title of her thesis is "Theories of Human Ambulation with Application to Swing-through Crutch Gait". She has multiple publications in the area of normal gait and lower limb prosthetics. She also has an interest in and has been an author in publications in the area of high-level upper limb prosthetic fittings through her involvement in the RIC Neural Engineering Center for Artificial Limbs (NECAL).

Caroline Nielsen, PhD, Biography unavailable

Gayle Reiber, PhD, is currently a Professor with the Departments of Health Services and Epidemiology at the University of Washington, Seattle, WA. Her current roles within the VA Puget Sound Health Care System, Seattle, WA are: Research Career Scientist with Health Services Research and Development Center of Excellence; Education Director, Seattle Epidemiologic Research and Information Center; Health Research Scientist and Core Epidemiologist, Health Services Research and Development Center of Excellence. She received her B.S. at the University of Utah, Salt Lake City, UT, completed the M.P.H. at Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD and obtained a Doctorate at the University of Washington School of Public Health and Community Medicine, Department of Epidemiology and Doctoral Specialization in Health Services, Seattle, WA. Dr. Reiber serves as the VA Puget Sound Health Care System, Seattle Division's HSR&D Post-Doctoral Fellowship Director and is a member of the VA Health Services Research and Development Career Development Review Committee.

Lawrence Robinson, MD, received his M.S and B.A. in Chemistry at Brandeis University, attended Baylor College of Medicine and completed his residency at Northwestern University in Physical Medicine and Rehabilitation. He's been at University of Washington since 1989 and has published over 70 peer reviewed publications. Dr. Robinson's department includes 62 faculty members, and a number of curriculum programs including: Prosthetics and Orthotics (B.S.), Occupational Therapy (MOT), Physical Therapy (DPT), residency in Physical Medicine and Rehabilitation, research and post-doctoral fellowships, and other programs. The Department is currently considering a PhD in Rehabilitation Sciences.

William Zev Rymer, MD, PhD, is currently the John G. Searle Professor of Rehabilitation Research at the Rehabilitation Institute of Chicago. He received his undergraduate and medical training from the University of Melbourne in Australia, graduating with honors in Medicine in 1962. After completing residency in Internal Medicine, he returned for Doctoral training in

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computational neurosciences and motor control at Monash University in Australia, completing his studies in 1971. He received postdoctoral training at the Laboratory of Neural Control of the National Institutes of Health (1971-1974) and then at Johns Hopkins University Department of Physiology (1974-1976). He currently holds faculty appointments in the departments of Physical Medicine and Rehabilitation, Physiology, and Biomedical Engineering at Northwestern, with the rank of Professor in each. He is also President of the Rehabilitation Institute Research Corporation. He is the Director of the Midwest Region's Center for Medical Rehabilitation Research, as well as Director of the Rehabilitation Engineering Research Center for a project entitled Machines Assisting Recovery from Stroke (MARS), which began in November 2002. Dr. Rymer is a member of the ASB, the Society for Neuroscience, the ACRM, the AAP, EMBS, the IEEE, and the AIMBE. He has been a member of the NIH Musculoskeletal and Orthopedics Study Section, and chair of the Geriatrics and Rehabilitation study section (GRM). He is a member of the Scientific Advisory Board of the New York State Spinal Cord Injury Research Board. He currently holds grants from the NIH, from NIDRR, and from several foundations.

Ann Yamane, CPO, graduated from the University of Washington Prosthetics-Orthotics program in 1976. She became a full time Senior Lecturer at the University of Washington in 1987 and continues to maintain a clinical practice in addition to her teaching responsibilities. Ann was appointed as a commissioner to NCOPE from the National Association of Prosthetics and Orthotics Educators beginning January 1, 2004.