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Design for Sport

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About the Editors

Professor Ken Black



Ken Black is an independent advisor on inclusive physical activity and disability sport following a lifetime working in the field. He has developed numerous educational resource and workshop materials on inclusive physical activity, including the TOP Sportsability and Elements programmes for the Youth Sport Trust (UK) and the Sportsability and Pacific Sport Ability programmes for the Australian Sports Commission (ASC).

Ken has developed numerous training and practical educational resources – activity cards, interactive CD-ROM training manuals, books and journal material. He is the UK representative, via Loughborough University, on the THENAPA adapted physical activity network, whose most recent project provided educational training and practical tools for those training or working with older disabled people in physical activity programmes.

He has worked extensively overseas, conducting practical workshops and seminars on every continent. This has included work on ICES (International community Coach Education Standards), a coach-education project targeting practitioners using sport for development as part of the wider International Inspirations London 2012 legacy programme. Ken led a number of information-gathering workshops in India and Zambia on behalf of UK Sport, The British Council and UNICEF UK.

Ken worked for the Disability Sport Unit at the Australian Sports Commission from 2002–2005 and was responsible for introducing the Sports Ability program, based on a UK model he had developed whilst at the Youth Sport Trust. A more recent project with the Disability Sport Unit is to

develop a new educational resource aimed at encouraging disability services organizations to provide more opportunities in sport and physical activity for their service users.

Dr Anxo Cereijo Roibás



Dr Anxo Cereijo Roibás is Principal User Experience Consultant/Director of Acanda Ltd. He has been User Experience Manager at Vodafone Group Services, Senior Lecturer at the University of Brighton, Visiting Lecturer at Westminster University, at the Politecnico di Milano and the National Institute of Design (India). He has been a Human Interface Engineering Director at the Mobile Internet Services Provider, HiuGO SpA, user-experience consultant for Omnitel-Vodafone and the Nokia Research Center among others. He has coordinated ethnographic research addressing the future of mobile communications with the support of institutions such as the Vodafone Group Foundation and the British Royal Academy of Engineering. He has been expert-evaluator for the IST, eContent and Science & Society research programs at the European Commission. He has been British Telecom Fellow at the BT IT Mobility Research Centre. He has been member of the Executive Committee of the British HCI Group chairing the Events sub-group and UX ambassador for the South-East of England.

Anxo has a *Licenciatura* in Industrial Engineering at the University of Navarra (E), a *Laurea* in Managerial Eng., School of Engineering, Politecnico di Milano (I), an MA in Design Direction at Domus Academy (I) and a PhD in Communication Design from the School of Architecture and Design, Politecnico di Milano (I).

Dr Emmanuel Stamatakis



Emmanuel is a Senior Research Associate at University College London and National Institute for Health Research Fellow. He has a background in Sport Science, Physical Education and Exercise and Health. His recent academic research is on the health effects of exercise and sedentary behaviour, understanding sports participation, socioeconomic inequalities in health, obesity, and on developing methodologies for

About the Contributors

Stefan Agamanolis

Stefan Agamanolis is the Chief Executive and Research Director of Distance Lab, a creative research institute bringing together technology, design and the arts to overcome the disadvantages of distance. Stefan has over 10 years of experience inside the MIT Media Lab, first as a student and later as one of the founding research directors at Media Lab Europe, its former sister lab in Dublin, Ireland. There he led the Human Connectedness group, an interdisciplinary team that explored the future of human relationships as mediated by technology. His work and that of his researchers has won a number of awards and has been exhibited in diverse venues including Ars Electronica (Austria), the Osaka National Museum of Art (Japan), the Victoria and Albert Museum (UK) and the Wired NextFest (USA). He speaks and consults internationally on a variety of digital media topics. He holds Masters and PhD degrees in Media Arts and Sciences from the Massachusetts Institute of Technology, and a Bachelor of Arts degree in Computer Science from Oberlin College. He was born and raised in the state of Ohio in the United States.

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Gary Armstrong

Dr Gary Armstrong holds the position of Reader in the School of Sport and Education, Brunel University, London, UK. Dr Armstrong has undertaken substantial research in the field of sport and peace, notably in West Africa and the Middle East. He has also supervised sport and peace projects in Bosnia and Guatemala. He has acted as a youth worker in Inner London over the past 17 years, particularly in communities with large numbers of refugees and asylum-seekers from war-torn regions; a significant part of that work has involved

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youth-level football and sport coaching. Dr Armstrong has contributed numerous papers to international conferences and symposia on sport, peace and development issues, notably in Germany, Jordan, Norway, South Africa, and the United States. He is the author of many books and articles on the international aspects of football and sport. In 2007 he was Chief Educator on a Sport and Peace project funded by the Jordanian Olympic Committee.

Alexander Bergmann

Alexander Bergmann, born 1978 in Braunschweig (Germany), studied political science at Erlangen-Nuremberg University (Germany), in Catania (Italy) and Manchester (UK). He worked in Egypt, the UK, Finland and around Germany for Siemens, Accenture, as scientific assistant in the German Parliament, Federal Ministry of Environment and at the office of former German President Johannes Rau. His doctoral thesis deals with Germany's latest inner-city development in Chemnitz (Saxony, Germany). Alexander's latest teaching at the Institute for European Urban Studies, Bauhaus-Universität Weimar and at Chemnitz Technical University, tackled issues around city renewal and the influence of cultural and leisure activities, city-marketing and creative industries. Other research interests include urban tourism, old industrial regions, local policy making, international events and their host cities, media representation of cities, youth- and sub-cultures.

Holly Collison

Holly Collison recently graduated in Sports Science (BSc Honours) at Brunel University, London, and is currently preparing a PhD under the supervision of Dr Gary Armstrong considering the use of sport for the purpose of reconciliation, rehabilitation and reconstruction in the post-conflict scenario, specifically in Liberia, West Africa. She is a visiting lecturer at Brunel University focusing on sports-coaching modules, and is a coaching instructor at Westminster School, London.

Natalie Campbell

Natalie Campbell is a lecturer at Thames Valley University. Completing her first degree at Plymouth University in 2004 she then qualified as a teacher of

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Sport and Exercise Sciences in post-compulsory education. A Masters in Human Performance at Brunel University has seen her begin PhD research examining 'Elite sporting systems and the Policies of Physical Education'.

Alex Dupont

Alex R. Dupont is an independent consultant with more than 16 years of experience in communications and advocacy work on behalf of the United Nations and other intergovernmental organizations. His contributions have mobilized civil society in support of varied international issues such as the protection of refugees; human rights and the rule of law; the global fight against drug-trafficking, organized crime, corruption and terrorism; the peaceful uses of nuclear energy and outer space; UN peacekeeping; and world youth concerns. Mr. Dupont most recently worked for the United Nations Volunteers (UNV) programme, the UN organization that contributes to peace and development by advocating for volunteerism globally, encouraging partners to integrate volunteerism into development programming, and mobilizing volunteers.

Dr John Gill

Dr John Gill, OBE, DSc, FIET, has worked for over 38 years in the area of scientific and technological research for people with disabilities. His research has included the design of fonts, public-access terminals, tactile communication, orientation systems, automated production of Braille and large print, and access to telecommunication systems and services. He has visited 40 countries and written 250 publications.

Dawn Hughes

As part of her Masters degree in Mathematical Engineering, Dawn studied in Canada for a year, during which she participated in a project to design a 'stand-up' wheelchair for a local member of the community. Working directly with people with spinal-cord injuries ignited a passion for how well-designed products can have a truly positive impact on people's lives. Upon returning to the UK Dawn completed an MSc in Medical Physics and Clinical Engineering, before securing a position with the National Health Service (NHS) to work in the areas of Rehabilitation Engineering and Assistive Technology, giving her the

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opportunity to work with patients with a wide range of different impairments. It was then a natural career progression when Dawn joined the Inclusive Fitness Initiative (IFI) in 2003 to undertake a PhD investigating the inclusive design of commercial fitness equipment. This role involved collaboration with disabled people, trained health and fitness professionals, UK and international fitness equipment suppliers and other industry experts, to identify what features make fitness equipment accessible and inclusive. Findings from the PhD project formed the basis of the published IFI Equipment Standards – Stage 2, which now underpin the IFI's robust Equipment Accreditation process and are making an increasingly global impact on the inclusive fitness market. In her current role as the IFI Equipment Manager, Dawn is responsible for ensuring products awarded IFI Accreditation successfully meet all the requirements of the IFI Equipment Standards – Stage 2, providing technical advice to equipment designers to ensure the needs of disabled people are considered throughout the design process. By means of the IFI's Research & Development Programme, this extensive expertise and best practice knowledge is acquired and disseminated through partnership development and international collaboration on research and standards development. The IFI has always cultivated strong academic and research links and as such Dawn additionally holds the position of Research Fellow in Inclusive Design at Sheffield Hallam University, lecturing particularly on the Sports Equipment Development undergraduate degree course. Between her IFI and university roles Dawn is pleased to be afforded the opportunity to teach the merits and skills of inclusive design to both today's equipment designers and also to up-and-coming designers of the future. Such developments should ensure inclusion continues to become integral to the fitness industry and disabled people are increasingly offered access to healthy lifestyle choices.

Seodhna Keown

Seodhna graduated with a Bachelor of Physical and Health Education from the University of Toronto in 2003 and is currently a candidate in the Master's of Public Health Program at the University of Toronto. From 2003 to 2008, she volunteered and worked for Commonwealth Games Canada's International Development through Sport unit. She has worked across the southern African region supporting community partners to develop creative and locally relevant programming using sport as a tool for community development. Namibia, the land of wide-open spaces, has been Seodhna's base with organizations

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addressing social and health development issues around youth engagement, sexual health, HIV and AIDS and gender equity.

Jens Koberstein

Jens Koberstein, born in Ludwigslust (Germany) in 1972, studied business administration in Marburg and Berlin. In his PhD thesis he develops a 'Theory of Sustainable Innovating' under the supervision of Professor Ulrich Steger from the International Institute of Management Development IMD in Lausanne (Switzerland). Here he employs the action theory. His research focuses on the action process of creating sustainability competencies and capabilities and their institutionalization in the R&D project. His theory is settled in a pragmatic approach with a holistic innovation concept. His interest field has taken him to many places throughout Europe and the world.

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Katrin Koenen

Katrin Koenen is Publications and Scientific Affairs Manager for the International Council of Sport Science and Physical Education (ICSSPE), a position she has held since 2006. Prior to this engagement she worked in a public relations and communication agency and between 1996 and 2006 served as a publications and communications manager for Otto Bock HealthCare GmbH, one of the main sponsors of the Paralympics during the Games.

She majored in sport sciences and pedagogy at the Freie Universität Berlin between 1991 and 1996. During her studies she worked as event manager for different international organizations. Following her studies she taught for two years in an elementary school in Berlin. For seven months she worked in different townships in Cape Town, South Africa, in a sport and development project of the University of Heidelberg. Following this experience, one of her main field of interests became sport in development and in post-disaster settings. Katrin Koenen has written a thesis on 'Aggression in Physical Education' and has published articles on the Paralympic Movement, Sport for the Elderly and Sport in Post-Disaster Intervention.

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Malcolm MacLean

Malcolm MacLean has degrees in anthropology and history, and is now Associate Dean, Academic Frameworks at the University of Gloucestershire where he teaches history in the Faculty of Applied Science. He has previously taught history in New Zealand, and worked as a policy analyst and historian in the New Zealand Ministry of Justice. His primary research and teaching interests are cultural politics, dealing specifically with sport and nationhood, and sport as a form of body and movement culture. He has a particular interest in colonial and post-colonial settings, where his previous work has dealt with sports-related anti-apartheid protests, and with the cultural politics of settlement colonies and the discourses of indigeneity associated with sport, body, and movement cultures. He is actively involved in international sports studies networks, is a member of the Council of the International Society for the History of Physical Education and Sport, and is Chair of the British Society of Sports History.

Scott McQuade

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Dr Katharine A. Martindale

Dr Katharine Martindale received her PhD in Urban Planning Policy from the University of Sydney under the supervision of Professor Ed Blakely. She holds an MLitt in Geography from St Catherine's College, Oxford University, two postgraduate degrees in Urban Design from Oxford Brookes University and a BA(Hons) in Architecture from Plymouth University. Dr Martindale has held various positions over the 15 years at academic institutions, private consultancies, government offices and think tanks in the UK, US and Australia including Cambridge University, the Centre for Olympic Studies and Research at Loughborough University, Sydney Opera House, Brian Elton Associates, The Hornery Institute, New South Wales Office of Community Housing, Urban Design Advisory Service and Resources for Urban Design Information. Her research interests include community development, citizen participation, social capital, civic engagement, social networks, communicative action, and hallmark events.

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Florian ‘Floyd’ Mueller

Florian ‘Floyd’ Mueller is researching Exertion Interfaces – computer interfaces that require physical effort – in the Department of Information Systems at the University of Melbourne, Australia. Floyd has degrees in Digital Media from Germany, in Multimedia from Griffith University, Australia and in Media Arts and Sciences from the MIT Media Lab, USA. He has extensive work experience from the USA, Australia, Ireland and Germany, where he worked for industry and research companies such as Virtual Artists, Xerox PARC, FX Palo Alto Laboratory, MIT and Media Lab Europe. His last appointment was being a Principal Scientist at CSIRO, where he led the ‘Connecting People’ group with 12 staff, researching the future of human connectedness. Floyd is also a fellow with Distance Lab, UK, and London Knowledge Lab, UK, and a Microsoft Research Asia Fellow as well as a Fulbright scholar with Stanford University, USA.

Sara Nicholls

Sara Nicholls holds a Collaborative MA in Health Sciences (Sociology of Sport) and Women Studies from the University of Ottawa and an Honours BA in Kinesiology from the University of Western Ontario. A recipient of a Canadian Institute of Health Research ACADRE fellowship, her Master’s thesis work centered on post-colonial feminist analysis of the role of young women in peer-education programs that use sport as a tool for HIV/AIDS education. In 2007, Sara was named by the Canadian Association for Women in Sport and Physical Activity as one of Canada’s most influential women in sport in the ‘One to Watch’ category. Sara spent 5 years living and working in Southern and Eastern Africa, first with the National Olympic Committee of Zambia and then as the Senior Africa Regional Officer for Commonwealth Games Canada, responsible for programs and partnerships in 10 African nations. Sara is currently a Senior Policy and Program Analyst in the area of sport for development with the Government of Canada.

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James Rosbrook-Thompson

James Rosbrook-Thompson is a PhD candidate at the London School of Economics and Political Science (LSE) and a visiting lecturer in Sport and Development in the School of Sport and Education, Brunel University.

Dr Robert Sands

Robert R. Sands is Culture Chair and Assistant Professor of Anthropology for the Air Force Culture and Language Center (AFCLC) and Air University at Maxwell AFB, AL. As Culture Chair, Dr Sands is responsible for designing curricula that infuse concepts of culture across the spectrum of professional military education and training. Dr Sands has developed and initiated the Cultural Studies Project, an ethnographically-informed effort for capturing narratives of experience that are part of every airman's career to help resource the different curriculum and that reflect the need and importance of cultural education and training. Robert R. Sands received his PhD in anthropology from the University of Illinois and his MA in anthropology from Iowa State University. He taught all fields of anthropology in colleges and universities in southern California and Nevada for over a decade. In addition, Sands worked as an archaeologist and cultural resource manager for the United States Forest Service and Department of Defense. Just recently Dr Sands was a visiting anthropology professor at College of Wooster prior to joining the AFCLC. Robert R. Sands is a noted expert on sport and culture and ethnography and has published five books on that subject. His most recent work involves a biocultural perspective of sport and human movement, including the paleoecology of running and human evolution and is editing and contributing to a volume on this perspective that was published in 2009.

Robert R. Sands, PhD

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Usha Selvaraju

Usha Selvaraju is Web Editor for the International Platform on Sport and Development (www.sportanddev.org), operated by the Swiss Academy for Development (SAD) in Biel/Bienne, Switzerland. She has been Web Editor

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for over three years and has been involved in various other activities within Sport and Development at SAD, particularly in monitoring and evaluation and research. She has an academic background in development studies and professional experience in children's rights. Her main areas of interest are: youth leadership and mentoring in sport and development programmes; sport and development policy; and the use of sport in peace-building, child development and youth empowerment, and disaster response.

Dr James Shippen

Dr James Shippen is a chartered mechanical engineer with a background in analytical simulation and mathematical modelling. Following employment within the automotive and defence industries he entered academia where he researched and wrote motion analysis software capable of calculating external body forces, loads in the muscles and in the joints. He is currently researching biomechanical loadings in areas diverse as product design and dance.

George Torrens

George Torrens has been working in the field of inclusive and universal design for over 20 years.

He has worked with many of the major United Kingdom-based charities involved with people who have physical or cognitive impairments to research, design and develop new enabling products for their membership. George has worked with Paralympic athletes as well as schools and sports clubs to develop new enabling sports equipment and sports product designs. Many of the enabling products he has designed are now commercially available. George is the named inventor on a number of patents and advises small-to-medium enterprises on how to get their new product to market.

He has been involved in the research of physical ergonomics for the last 16 years. The focus of the research has been on the development of a model of human and object physical interaction (HOPI) applied within a task analysis.

George has been a lecturer in the Loughborough School of Design at Loughborough University for the last 15 years and lectures in Universal and Inclusive design at undergraduate and post-graduate level.

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Dr Inga Treitler

Inga Treitler, PhD, questions consumption ... of food, of energy, of clothing and the basics of survival. She is the founder and director of the consulting firm Anthropology Imagination LLC. Her company works internationally doing ethnographic observations and cultural analysis on wide ranging topics including healthcare and fitness, consumer products, and the environment, for corporations, government entities and NGOs. Earlier, at Oak Ridge National Laboratory, she conducted research in support of major U.S. government decisions with potential impacts to environmental justice and to the environment. Inga holds a doctorate in cultural anthropology from the University of Illinois, Urbana-Champaign. She is the Chair of the Ethics Committee for the National Association for the Practice of Anthropology, a section of the American Anthropological Association.

Dr Doug Williamson

Dr Williamson is a Visiting Fellow in the School of Education at Nottingham Trent University and lectures on Primary School PE, Adapted PE, Leisure and Sports Studies and Sport for People with a Disability, Childhood Studies. His formative years were in Perth, Western Australia where he studied and taught PE for three years. He then travelled overseas to teach in London, travelled throughout Europe and then completed further studies in Adapted PE in Oregon and Missouri, USA. He has lived in the UK since 1972. After teaching in special schools in London he obtained a lecturing position at his present university in 1973. He conducted a swimming club for the disabled for 25 years, was a founder member of Special Olympics UK and the first Athletics Coach. From 1983–96 he was CPISRA'S Swimming Coordinator and was involved in the development of the IPC functional swimming classification system for 15 years. He has delivered over a hundred workshops on adapting games and swimming, nationally and internationally over the past 35 years, and published over 40 articles. Throughout this time he has also been involved with a range of Disability Sports organizations in the UK. This has included over 30 years of involving students in the Stoke Mandeville National Mini Games. In addition, he has personally organized a wide range of sports development events for the Disabled. As well as classification and inclusive PE, his special research interest is in development of specially adapted games for the more severely disabled youngster via his Project Adapted.

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Dr Antonia Ward

Dr Antonia Ward is Managing Editor at the Design Council in the UK, where she looks after the organization's website and knowledge resources. Before joining the Design Council in 2005, Antonia worked as a journalist and editor for the design and business press, most recently as editor of FX, the UK's leading contract interiors magazine, and prior to that as launch editor of New Design, the internationally acclaimed magazine for industrial and product designers. She regularly speaks on design on TV, radio and in the press. Antonia has a PhD from the University of York and has taught at York, Liverpool and Keele universities.

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