

Maritime Psychology

Malcolm MacLachlan
Editor

Maritime Psychology

Research in Organizational & Health
Behavior at Sea

 Springer

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Preface

This is a research volume that brings together organisational, social and health psychology research concerned with the maritime. There is no other volume that attempts to do this and hence this is the first volume of its type in this rapidly developing area. The contributors to the volume cover a range of disciplines, including psychology and maritime science; along with other social, health and physical scientists and practitioners.

The importance of psychosocial factors is being increasingly recognised in the maritime field; by students, lecturers, seafarers, employers, unions, insurance companies and international regulatory bodies. With over 1 million seafarers and English as the required international maritime language, this English-language volume on *Maritime Psychology* is intended to both recognise and give impetus to the further development of this field internationally.

Of course prior to this volume many people have been doing maritime psychology, for many years, and we make no claim for this volume being in any way exhaustive or comprehensive. Rather the idea here was to provide both individual researchers and research teams with an opportunity to evaluate the state of the literature in their own area, and to think through how their area might develop in the near future, identifying key research questions.

The volume is unashamedly applied, with most chapters having a case study to illustrate the topic of the chapter. Most, but not all, of the chapters focus on the commercial maritime transport sector; and while this sector is certainly central to maritime psychology, it is not synonymous with it.

The book will be of interest to practitioners, lectures, researchers and students of occupational and health psychology, of maritime science, occupational medicine and nursing; architecture and design; and of other social, health and physical scientists in the area. I would like to thank the contributors for participating in this volume; Emma Sherry for editorial assistance and Springer editorial team for their patience and support in bringing this volume to fruition.

Dublin, Ireland

Malcolm MacLachlan

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About the Editor

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Contributors

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Niamh Doyle completed her undergraduate degree in Psychology in Trinity College Dublin followed by a Masters in Neuropsychology in Maastricht University, the Netherlands. She is currently a Clinical Psychologist in Training in University College Cork.

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Dr. Alistair Fraser is the Vice President of Health for Royal Dutch Shell plc based in The Hague. His area of interest is the impact of intentionally focusing on care for people and improving human performance as a way to enhance thriving, quality of life and business outcomes. He is a graduate of Aberdeen University Medical School, a Fellow of the Royal College of Physicians of Glasgow, Fellow of the Faculty of Occupational Medicine and was awarded an Honorary Doctorate of Science by Robert Gordon University in Aberdeen.

Prof. John F. Golding is Professor of Applied Psychology at the University of Westminster, London. He originally trained as a biochemist at the University of Oxford, but became interested in psychology, gaining another first degree, in psychology, before completing his D.Phil. there on the physiological and psychological effects of nicotine (smoking), subsequently working as a research fellow at Oxford. He then did research on psychoactive drugs and pain relief in the Pharmacology Department of Newcastle Medical School. This was followed by an extended period in government service doing a wide range of applied research (human factors) including motion sickness, cognitive performance in divers, desensitisation of pilots, and military selection and training, at the Institute of Naval Medicine, RAF Institute of Aviation Medicine and Centre for Human Sciences (DERA). John has been awarded the posts of Professor of Psychology (Honorary), Guys and St Thomas’s Hospital, Kings College, London, and Visiting Professor at Imperial College, London. His current research projects are mainly in the fields of motion sickness, vestibular disorders, spatial disorientation and health psychology.

Dr. Jørgen Riis Jepsen graduated as a medical doctor in 1973 and specialised in occupational medicine and community medicine in 1984. Since 1985, he has been working as head and consultant at the Department of Occupational Medicine, Hospital of Southwestern Jutland in Esbjerg, Denmark. From 2009 he has been part-time Associate Professor at the Centre of Maritime Health and Society, Institute of Public

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Alison Kay is an occupational psychologist based at the Centre for Innovative Human Systems within the School of Psychology at Trinity College Dublin, the University of Dublin. Her core focus is on the human aspects of transport and industrial systems. She has worked on human factors research projects in aviation, process industries, maritime industry, manufacturing and healthcare at EU, commercial and governmental levels for the past 13 years. Her research has addressed decision-making, process modelling and resource management for training, procedure writing and accident investigation. In 2008, Alison was one of the Human Factors Integration Defence Technology Centre team awarded the UK Ergonomics Society President's Medal 'for significant contributions to original research, the development of methodology and the application of knowledge within the field of ergonomics'.

Dr. Paul M. Liston is a Research Fellow at the Centre for Innovative Human Systems within the School of Psychology at Trinity College Dublin, the University of Dublin. Dr. Liston has over 17 years of experience in initiating, coordinating and participating in research and development projects. He is Principal Investigator on the SEAHORSE project that seeks to transfer learning, knowledge and innovation from the aviation sector to the maritime sector. As part of this project he led the development of a systemic and systematic methodology for transferring safety innovation across different industrial sectors. Paul's research interests span the shipping, aviation, process, and healthcare sectors and focus on improving competence and performance of operations and safety. He has previously been involved with research and consultancy projects that have addressed human factors training in the aircraft maintenance industry (AITRAM, ADAMS2, STAMP).

Prof. Cpt. Margareta Lützhöft is a master mariner, trained at Kalmar Maritime Academy in Sweden. After leaving the sea, she studied for a Bachelor's degree in Cognitive science and a Master's in Computer Science. In December 2004 she received a Ph.D. in Human–Machine Interaction. Presently she is Professor of Nautical Studies at the Australian Maritime College. Her research interests include human-centered design and the effects of new technology.

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Dr. Erik Styhr Petersen holds a B.Sc. in Naval Architecture, and was a consulting naval architect for 13 years, subsequent to which he was head of R&D at the Danish Maritime Institute, for a 6-year period. Following this, Petersen went into industrial research with Lyngsø Marine and SAM Electronics, with a focus on maritime electronic systems, maritime usability and human-centred design in the marine domain. Pursuing his academic interests at Chalmers Technical University in

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