

CONTENTS

	page	author(s)
Preface	vii	<i>Verner Andersen</i>
Opening speech	xi	<i>Torben C. Nilsson</i>
Keynote speakers		
KAMEDO: A Disaster Medicine Study Organization	3	<i>Per Kulling</i>
Emergency Management and Warning Area	5	<i>Nick Theophilopoulos</i> <i>Alain Vidal</i> <i>Wolfgang Boch</i>
Private Provision of Public Services in Denmark: The Case of Falck	19	<i>Henrik Hansen</i>
Demands to the Emergency Service Professional and Political Challenges	27	<i>Leif Søndergaard</i>
Human Aspects		
Working Under Pressure: Crisis Management, Pressure Groups, and the Media	31	<i>Robert Heath</i>
Using System Simulation to Model the Impact of Human Error in A Maritime Risk Assessment	41	<i>John R. Harrald</i> <i>Thomas Mazzuchi</i> <i>Jason Merrick</i> <i>John Spahn</i> <i>Rene Van Dorp</i>
Workers Response to Realistic Evacuation Training	55	<i>C. Vaught</i> <i>L. Mallett</i> <i>K. Kowalski</i> <i>M. Brnich</i>
Bridging the Gap, Remote Sensing and Needs Assessment: A Field Experience with Displaced Populations	63	<i>Charles Kelly</i>
Organizing Emergency Management I		
Dealing with the Complete Crisis: The Crisis Management Shell Structure.	75	<i>Robert Heath</i>
Official Response to Flash and Monsoon Floods in Malaysia	85	<i>Ngai Weng Chan</i>
A Compensation System of Damage caused by Accidents at Energy Objects: Problems, Methods, Models	99	<i>V.V. Lesnykh</i>

Decision Support Systems

A Prototype of an Active Decision Support System, on an Abstract Intelligent Agent Architecture	107	<i>G. Di Costanzo based A.M. Gadomski</i>
Risk Assessment Modelling and Visualisation	117	<i>Perttu Heino Rhèa Kakko</i>
UF Virtual Emergency Evacuation Laboratory: A Virtual Evacuation Modeling and Emulation Environment	123	<i>Suleyman Tufekci</i>
Risk Rate Estimation for Motorway Management	125	<i>Tullio J. Tanzi Règis Guiol Robert Laurini Sylvie Servigne</i>

Emergency Management of Chemical Hazards

Assessment of Fires in Chemical Warehouses: A Description of the Toxfire Project	137	<i>Frank Markert</i>
Effectiveness of the Water Curtains used by the Firemen to Face Toxic Heavy Gases Leaks	147	<i>Aude Bara Gilles Dusserre</i>
Emergency Response Performance Measures Used in the Assessment of Risk to Human Health Due to the Accidental Release of Hazardous Chemicals	153	<i>Rudi H.P.M. Arts Frederick J. Weiland</i>
MEMbrain for Chemical Disasters Emergency Management	163	<i>K. Harald Drager Steinar Orset Helge Soma</i>

Emergency Management of Natural Disasters

Design Stage Modeling Requirements for Reducing Storm Water Quantity and Quality Risks of Urban Development	175	<i>Ross Newkirk</i>
The Role of Perception, Warning and Human Factors in Flood Losses - A case Study of Bangladesh Households	185	<i>K.M. Nabiul Islam</i>
Assessing Wind-Caused Pine Stand Disturbance in the Southern Part of Central Siberia	201	<i>F.I. Pleshikov V.A. Ryzkova V.Y. Kaplunov J.V. Usoltzeva</i>
Analysis of the Data of Electromagnetic Monitoring of Earthquakes at the Territory of China: A new Approach	211	<i>A.S. Alekseev A.V. Avdeev E.V. Gorunov V.V. Skazka</i>

Waste Management

Emergency Construction Waste Management	217	<i>Erik K. Lauritzen</i>
Risk Analyses for Sewer Systems Based on Numerical Modeling and Gis	227	<i>Ole Mark Cecilia Wennberg, Terry van Kalken Fazle Rabbi Björn Albinsson</i>
A Data Validation Method for Real-Time Control of Sewer Systems	235	<i>Eric Piatyszek, Pierre Voignier Didier Graillot</i>

Medical Aspects

A Prehospital Education System for Nurses and Doctors	245	<i>Tom Steinov Peter Raabye</i>
LOOPS-Limited Object Oriented Patient Simulator, Design Criteria for a Patient Simulation Model	255	<i>Peter Raabye Tom Steinov</i>
An Application of the MEMbrain Training Module: Pre-hospital Rescue Operation	265	<i>Verner Andersen</i>
Factors Effecting Dynamic Strength	273	<i>Ehsan Asoudegi</i>

Training

Training of Operators Directed at Recoveries	281	<i>Ann Britt Miberg</i>
A Lecture on the CD ROM Operational Leader are you ready...	289	<i>Lars Høg Schou</i>
Looking for Answers: Suggestions for Improving How We Evaluate Crisis Management	293	<i>Robert Heath</i>

Use of Technology I

ENVISYS, Environmental Monitoring Warning and Emergency Management System	305	<i>N. Theophilopoulos</i>
Contribution of Space Systems to Major Risks Management An example: Management of Flood Risk	317	<i>Ir.J.-P. Decostre</i>
Crisis Response Communications: Telecommunications in the Service of Humanitarian Assistance	329	<i>Hans Zimmermann</i>
Geoinformation Systems and Region Environmental Prediction	335	<i>Yuri Polichtchouk</i>

Organizing Emergency Management II

Command Centers and Emergency Management Support	341	<i>Jean-Luc Wybo</i> <i>Kathleen Kowalski</i>
Supporting Multi-Group Emergency Management with Multimedia	349	<i>Yasushi Ikeda</i> <i>G. E.G. Beroggi</i> <i>William A. Wallace</i>
An Outline of Main Problems of Russian Energy Security	361	<i>M. Cheltsov</i> <i>S. Klimenko</i> <i>L. Krivorutsky</i> <i>N. Pyatkova</i> <i>S. Senderov</i> <i>G. Slavin</i> <i>N. Voropay</i>
Classification of Disaster Impacts on Social and Economic Activity	371	<i>Evgeny Vyazilov</i> <i>Evgeny Ryzhykh</i>
Use of Technology II		
Two Public Warning Systems for Emergency Planning at Major Chemical Sites	385	<i>Ian P. McKay</i>
Communication Emergency Decision Support Systems Integration.	395	<i>Vladimir B. Britkov</i>
Ecologo-Radiological Study Area at Bryansk Region	405	<i>Boris A. Galushkin</i> <i>Michael V. Glebov</i> <i>Serguei K. Gordeev</i> <i>Alexander I. Ermakov</i> <i>Alexander A. Khilov</i>
Quantitative Risk Analysis of Natural and Technology Disasters: General Approach, Optimal Management and a Practical Realization	413	<i>L.M. Ivanov</i> <i>T.M. Margolina</i> <i>O.V. Melnichenko</i>