

Contents

Part I Response and Recovery

1	Preparing for the Aftermath of a Nuclear Detonation; An Analytic Framework for Disaster Management	3
	Brooke Buddemeier and Nancy Suski	
2	Response Tactics for the First 100 Minutes After the Outdoor Detonation of an Explosive Radiological Dispersal Device	19
	Stephen V. Musolino, F. Harper, and J. Pfeifer	
3	Operational Framework for Recovery from an Attack Involving a Radiological Dispersal Device/Improvised Nuclear Device	25
	Ellen Raber, Robert P. Fischer, and Mark Sutton	
4	Responding to Nuclear Terrorism: Is Training of First Responders at Sites of Nuclear Disasters Enhancing Their Preparedness for Incidents Involving Nuclear and Radioactive Material?	37
	Dieter Rothbacher, Oskar Schmidt, and Duncan Brierley	
5	Urban Response to CBRNe. Multi-service, Multi-jurisdictional, Response to Terror Events	49
	Gilbert J. Gelineau	
6	Armed Forces Radiobiology Research Institute: R&D, Training, Crisis Response. Accomplishments, Opportunities and Policy Questions	53
	Mark H. Whitnall	

Part II Detection and Protection

7	Rad/Nuc Detection Standards and Conformity Assessment Program	67
	Peter J. Chiaro Jr.	
8	New Opportunities of Portal Monitors with Plastic Scintillation Detectors (Asia-New. New Advanced Source Identification Algorithm)	75
	Andrei Stavrov and Eugene Yamamoto	
9	Mobile Units for Characterization of Contaminated Sites	87
	Thomas Streil and Veikko Oeser	
10	Real-Time Radionuclide Identification and Mapping Capabilities of the U.S. Environmental Protection Agency's Airborne Spectral Photometric Environmental Collection Technology	105
	John Cardarelli II, Mark Thomas, Timothy Curry, Robert Kroutil, Jeff Stapleton, David Miller, Gary Small, and Brian Dess	
11	RadNet National Air Monitoring Program	117
	Ronald Fraass	
12	Radiological Emergency Response and Preparedness at the Remote Sensing Laboratory	125
	Sanjoy Mukhopadhyay and Richard Maurer	
13	Evaluation, Improvement and Guidance for the Use of Local-Scale Emergency Prediction and Response Tools for Airborne Hazards in Built Environments. Cost Action ES100 – A European Experience	137
	Tamir G. Reisin, Bernd Leidl, Silvia Trini Castelli, Kathrine Baumann-Stanzer, Patrick Armand, Fotios Barmpas, Spyros Andronopoulos, Klara Jurcakova, and all COST ES1006 Members	

Part III Prevention and Mitigation

14	Focusing on the Threats to the Detriment of the Vulnerabilities: A Vulnerability Assessor's Perspective	149
	Roger G. Johnston	
15	Preventing, Controlling and Mitigating Radiological Consequences	157
	Marcos Antonio Do Amaral, Alfredo Lopes Ferreira Filho, and Josilto De Aquino	

16 Nuclear Preparedness Through a National Pre-event Public Information Campaign	163
Robert M. Levin	
17 The Romanian Management System for Nuclear and Radiological Emergencies	173
Mihaela Mihaila	
Part IV Radiation, Associated Risks and Public Health	
18 Initiative to Enhance Radiological Resilience	189
Kai Vetter	
19 Societal Consequences of Nuclear Accidents	201
Astrid Liland	
20 Another Cost of 9/11	213
Carol Kessler	
21 Assessment of Dose and Risk for Public from Potential Exposure Using WinMACCS and JRODOS Codes.....	221
Alla Dvorzhak, Juan C. Mora, and Beatriz Robles	
22 Novel Approaches to Radiation Diagnostics for Population Screening and Incident Triage	233
Michael R. McNeely	
23 Radiation Injury Treatment Network®: A Model for Medical Preparedness for a Mass Casualty Radiation Incident.....	245
Cullen Case Jr. and Curt Mueller	
24 Radiation Dose Assessment by Using Lymphocyte Counts	253
Shaowen Hu, William Blakely, and Francis Cucinotta	

Nuclear Terrorism and National Preparedness

Apikyan, S.; Diamond, D. (Eds.)

2015, IX, 263 p. 95 illus., 74 illus. in color., Hardcover

ISBN: 978-94-017-9890-7