Contents

Introductory Paper

Comparing the Geological Disposal of Carbon Dioxide and Radioactive Waste: Introduction and Overview ........................................ 1
Ferenc L. Toth

Part I  Thematic Assessments

Geological Media and Factors for the Long-Term Emplacement and Isolation of Carbon Dioxide and Radioactive Waste ......................... 23
Stefan Bachu and Tim McEwen

Environmental Issues in the Geological Disposal of Carbon Dioxide and Radioactive Waste .................................................. 81
Julia M. West, Richard P. Shaw, and Jonathan M. Pearce

Risk Assessment, Risk Management and Remediation for the Geological Disposal of Radioactive Waste and Storage of Carbon Dioxide .................................................. 103
Philip Maul

Monitoring Methods Used to Identify the Migration of Carbon Dioxide and Radionuclides in the Geosphere ............................ 123
Brian Brunskill and Malcolm Wilson

Transport of Carbon Dioxide and Radioactive Waste ................................ 141
Darío R. Gómez and Michael Tyacke

Engineering Challenges in the Geological Disposal of Radioactive Waste and Carbon Dioxide .................................................. 185
Jean-Pierre Tshibangu K. and Fanny Descamps
The Costs of the Geological Disposal of Carbon Dioxide and Radioactive Waste .......................................................... 215
Ferenc L. Toth and Asami Miketa

Managing Liability: Comparing Radioactive Waste Disposal and Carbon Dioxide Storage ........................................... 263
Elizabeth J. Wilson and Sara Bergan

Public Acceptance of Geological Disposal of Carbon Dioxide and Radioactive Waste: Similarities and Differences .......................................................... 295
David M. Reiner and William J. Nuttall

Comparative Ethical Issues Entailed in the Geological Disposal of Radioactive Waste and Carbon Dioxide in the Light of Climate Change ........................................... 317
Donald A. Brown

Psychological Perspectives on the Geological Disposal of Radioactive Waste and Carbon Dioxide ........................................... 339
Judith I.M. deGroot and Linda Steg

Part II Regional Assessments

Comparative Assessment of Status and Opportunities for Carbon Dioxide Capture and Storage and Radioactive Waste Disposal in North America ........................................... 367
Curtis M. Oldenburg and Jens T. Birkholzer

Comparing the Geological Disposal of Carbon Dioxide and Radioactive Waste in Western Europe ........................................... 395
Ferenc L. Toth, Richard A. Roehrl, Asami Miketa, and Nadira Barkatullah

Carbon Dioxide and Radioactive Waste in Central and Eastern Europe: A Regional Overview of Geological Storage and Disposal Potential ........................................... 463
Zsuzsanna Hódossyné Hauszmann, Péter Scholtz, and György Falus

Comparison of the Geological Disposal of Carbon Dioxide and Radioactive Waste in European Russia ........................................... 489
Alexey Cherepovitsyn and Alexander Ilinsky
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparison Between Geological Disposal of Carbon Dioxide and Radioactive Waste in China</td>
<td>515</td>
</tr>
<tr>
<td>Ju Wang and Zhonghe Pang</td>
<td></td>
</tr>
<tr>
<td>Geological Disposal of Carbon Dioxide and Radioactive Waste in the Geotectonically Active Country of Japan</td>
<td>539</td>
</tr>
<tr>
<td>Hitoshi Koide and Kinichiro Kusunose</td>
<td></td>
</tr>
<tr>
<td>The Geological Storage of Carbon Dioxide and Disposal of Nuclear Waste in South Africa</td>
<td>569</td>
</tr>
<tr>
<td>Anthony D. Surridge, Marthinus Cloete, and Phillip J. Lloyd</td>
<td></td>
</tr>
<tr>
<td>Assessment of the Geological Disposal of Carbon Dioxide and Radioactive Waste in Brazil, and Some Comparative Aspects of Their Disposal in Argentina</td>
<td>589</td>
</tr>
<tr>
<td>Roberto Heemann, João Marcelo Medina Ketzer, Goro Hiromoto, and Alexandro Scislewski</td>
<td></td>
</tr>
<tr>
<td>Index</td>
<td>613</td>
</tr>
</tbody>
</table>
Geological Disposal of Carbon Dioxide and Radioactive Waste: A Comparative Assessment
(Ed.) F. L. Toth
2011, XI, 621 p. 20 illus. in color., Hardcover