

CONTENTS

SUMMARY	1
----------------------	---

OPENING SESSION

Opening address	9
<i>L. Camarinopoulos</i>	
Opening address	15
<i>T. Skylakakis</i>	
Opening address	17
<i>I. Tsoukalas</i>	
Opening address	19
<i>T. Taniguchi</i>	

GLOBAL OVERVIEW (SESSION 1)

Worldwide decommissioning liabilities	33
<i>D. Louvat</i>	
Challenges for decommissioning policies	43
<i>H. Riotte</i>	
Decommissioning: Importance and benefits of lessons learned	53
<i>U. Blohm-Hieber, T. Kirchner, R. Passalacqua, S. White</i>	
Safe decommissioning of civil nuclear industry sites	67
<i>S. Saint-Pierre</i>	

REGULATION OF DECOMMISSIONING ACTIVITIES (SESSION 2)

Lessons learned: Past to future	83
<i>L.W. Camper</i>	
Regulatory framework and planning for the decommissioning of the Kozloduy nuclear power plant WWER-440 united	93
<i>S. Tzotchev, G. Simeonov</i>	
Regulation of decommissioning activities	101
<i>C.O. Phillips</i>	
French approach to regulatory review: Lessons learned from the experience of the last 20 years	107
<i>D. Conte, O. Lareynie, C. Messier</i>	

Managing regulatory compliance from operations to decommissioning: A contractor's perspective	121
<i>K.G. Spooner</i>	
Main issues of Russian research reactor decommissioning	131
<i>N. Arkhangelsky</i>	
Panel discussion — Session 2: Regulation of decommissioning activities	143

PLANNING FOR DECOMMISSIONING (SESSION 3)

The impact of the Nuclear Decommissioning Authority on the decommissioning of nuclear facilities in the United Kingdom	155
<i>J. Wilson</i>	
Decommissioning planning for the RA research reactor at the Vinča Institute	161
<i>V. Ljubenov</i>	
Planning for the decommissioning of a heavy water research reactor	179
<i>C. Hu</i>	
Problems in planning the early closure of the Ignalina nuclear power plant	185
<i>B. Teskeviciene, P. Harrison</i>	
Lessons from the decommissioning of the BN-350 reactor in Kazakhstan	199
<i>A.J. Baer, D.W. Reisenweaver</i>	
How to develop a decommissioning infrastructure to support the planning process	209
<i>S. Harriague</i>	
Panel discussion — Session 3: Planning for decommissioning	219

IMPLEMENTATION OF DECOMMISSIONING ACTIVITIES (SESSION 4)

Reasons for inconsistencies between estimated and actual decommissioning costs	231
<i>T. LaGuardia</i>	
Decommissioning of fuel cycle facilities in South Africa	245
<i>P.J. Bredell, G.J. Leuner, S.W. Smith</i>	
Decommissioning of three US commercial nuclear power plants	257
<i>W.A. Norton</i>	

Key issues to be taken into account during the decommissioning of reprocessing plants	267
<i>G. Decobert, T. Devries, T. Varet</i>	
Decommissioning of an abandoned fertilizer plant	277
<i>C. Potiriadis, V. Koukoulidou, K. Kehagia, S. Seferlis, V. Stamatis, V. Kamenopoulou</i>	
Panel discussion — Session 4: Implementation of decommissioning activities	287

WASTE MANAGEMENT ISSUES (SESSION 5)

Identification and handling of waste streams from decommissioning	297
<i>A. Rodríguez</i>	
Assessing the radioactive inventory of a decommissioned reactor	301
<i>P. Woollam</i>	
Recycling of dismantled concrete for high quality aggregate	313
<i>T. Ishikura, S. Fujii</i>	
Experience of decommissioning projects with on-site and off-site waste treatment	323
<i>L. Valencia</i>	
IAEA approach for releasing radioactive material and sites from regulatory control	343
<i>B. Batandjieva</i>	
Panel discussion — Session 5: Waste management issues	357

TECHNOLOGY ASPECTS (SESSION 6)

Decision making in the selection of decommissioning technologies	371
<i>M. Laraia</i>	
Experience in melting and recycling decommissioning waste	385
<i>M. Lindberg</i>	
Experience in using radioactive waste management technologies during the remediation of RRC Kurchatov Institute facilities and areas	395
<i>V.G. Volkov</i>	
Experience with reactor internals segmentation at US power plants	405
<i>C.J. Wood, M.D. Naughton</i>	
Practical technologies for nuclear decommissioning: Finding the right technology balance	413
<i>F.R. Lockhart, A.P. Szilagyi</i>	
Panel discussion — Session 6: Technology aspects	427

SOCIAL AND ECONOMIC ASPECTS (SESSION 7)

OECD/NEA lessons learned on stakeholder issues in decommissioning	437
<i>C. Pescatore, A. Vári</i>	
Social aspects of the Chernobyl nuclear power plant decommissioning process	447
<i>O. Makarovska</i>	
Viewpoint from the perspective of a small town	455
<i>R.A. Welch</i>	
Experience in the preparation and implementation of the first socioeconomic plan at the Dounreay nuclear site	465
<i>A.F. McWhirter</i>	
Brazilian experience in the decommissioning of a NORM facility: Some lessons learned	475
<i>D.C. Lauria</i>	
Panel discussion: Session 7 — Social and economic impacts	483

DECOMMISSIONING OF SMALL FACILITIES (SESSION 8)

Lessons learned in decommissioning laboratory facilities	497
<i>C. Griffiths</i>	
The Risø DR 1 decommissioning project and lessons learned	507
<i>K. Lauridsen</i>	
Expected problems in the decommissioning planning of a small research reactor in a non-nuclear country	519
<i>A.G. Youtsos, S. Messoloras, K. Mergia, C. Housiadas, A. Savidou, I.E. Stamatelatos</i>	
Using a risk informed, graded approach for decommissioning small facilities	527
<i>A. Persinko</i>	
Decommissioning of small nuclear facilities: Problems encountered and lessons learned	537
<i>J.C. Benitez-Navarro, M.M. Salgado-Mojena</i>	
Panel discussion — Session 8: Decommissioning of small facilities	551

CLOSING SESSION

Summary of Session 1: Global overview	563
<i>C. Miller</i>	

Summary of Session 2: Regulation of decommissioning activities	567
<i>G. Yadigaroglou</i>	
Summary of Session 3: Planning for decommissioning	571
<i>I. Tripputi</i>	
Summary of Session 4: Implementation of decommissioning activities ...	575
<i>P. Beeley</i>	
Summary of Session 5: Waste management issues	579
<i>Z. Pan</i>	
Summary of Session 6: Technology aspects	583
<i>L. Valencia</i>	
Summary of Session 7: Social and economic impacts	587
<i>A.J. Baer</i>	
Summary of Session 8: Decommissioning of small facilities	589
<i>A.G. Youtsos</i>	
Summary by the Conference President	593
<i>L. Camarinopoulos</i>	
Closing address	599
<i>H. Forsström</i>	
Chairpersons of Sessions and President of the Conference	605
Secretariat of the Conference, Local Coordinator and Programme Committee	606
List of Participants	607
Author Index	661