

CONTENTS

SUMMARY	1
OPENING SESSION	
Opening Address	7
<i>M. Fradkov</i>	
Independent oversight: The challenges of effective nuclear regulation	9
<i>M. ElBaradei</i>	
Opening Address	15
<i>I. Kamenskih</i>	
Opening Address	19
<i>L. Williams</i>	
Facing safety and security challenges: A national and international perspective	23
<i>N. Diaz</i>	
Facing safety and security challenges: Specific regulatory perspectives	31
<i>A. Malyshev</i>	
INDEPENDENCE AND REGULATORY EFFECTIVENESS (Topical Session 1)	
Independence and effectiveness in licensing, inspection and enforcement	41
<i>W. Renneberg</i>	
Regulatory management system for licensing, inspection and enforcement: Regulatory approach, planning, quality manual, feedback, and measurement and improvement of effectiveness	49
<i>J. Laaksonen</i>	
Meeting challenges through good practice: Using the highlights from the third review meeting of the Convention on Nuclear Safety to improve national regulatory systems	63
<i>L.J. Keen, J.K. Cameron</i>	

Role of international standards and international cooperation for effectiveness of national regulators	71
<i>J.A. Hashmi, M.S. Rahman, S.A. Mallick</i>	
Interacting with stakeholders: Generating trust, confidence and influence through credibility, responsiveness and values	87
<i>M.W. Weightman, P. Storey, F. Thorne</i>	
Establishment and application of safety standards and security guidance	97
<i>T. Taniguchi</i>	
Legal implication of the global nuclear safety and security regime	105
<i>J. Rautenbach</i>	

REGULATORY SAFETY CHALLENGES (Topical Session 2)

Adaptation of the South African regulatory framework to the licensing of the Pebble Bed Modular Reactor: Regulatory challenges	113
<i>M.T. Magugumela</i>	
Approach to regulatory research related to new technologies	121
<i>S.K. Sharma</i>	
Implementation of the Code of Conduct on the Safety of Research Reactors	129
<i>J. Loy</i>	
Balancing risks and benefits in medical applications and how to regulate: The role of the regulator compared to that of a physician	137
<i>J. Azuara</i>	
Balancing risks and benefits in industrial applications	139
<i>M.Y. Bahran</i>	
Radiation focus: Preparation for the regulator to be ready for new technologies and applications	147
<i>M.K. Lee</i>	

REGULATORY SECURITY CHALLENGES (Topical Session 3)

Synergies between safety and security	157
<i>I. Levanon</i>	
Contribution of State nuclear safety and regulatory authority to the maintenance and long term sustainability of security of nuclear and radioactive materials	169
<i>V. Bezzubtsev, B. Krupchatnikov</i>	

How to deal with the radiological dispersal device (RDD) threat	177
<i>M.J. Virgilio</i>	
International multilateral cooperation for development of the legal basis for the plutonium disposition programme	185
<i>J.-P. Carreton, N. Hollasky, B. Gmal, A. Petry, B. Sicard, A. Kislov, V. Neretin, I. Sokolova, J.-Y. Ravachol, J.-M. Pisani</i>	
Implementation of the Code of Conduct on the Safety and Security of Radioactive Sources and of the associated import/export guidance: A user's perspective	199
<i>G. Emi-Reynolds, C. Schandorf, E.O. Darko</i>	
ICAO safety and security	209
<i>M. Kourenkov</i>	
Need for an international law of nuclear security?	215
<i>C. Stoiber</i>	

**ENHANCED INTERNATIONAL REGULATORY COOPERATION
(Topical Session 4)**

OECD Nuclear Energy Agency activities to enhance international regulatory cooperation	237
<i>L.E. Echávarri</i>	
Using IAEA safety standards for harmonized safety levels: The WENRA experience	239
<i>A.-C. Lacoste</i>	
Multinational design approval programme	241
<i>N. Diaz</i>	
Role of international appraisals and peer review missions.	247
<i>O. Mykolaichuk</i>	
Nuclear safety regulations and review of new nuclear power plants in China	255
<i>Ganjie Li, Xiaofeng Hao, Bo Tang</i>	
Building international information and knowledge management networks: Development of the Asian Nuclear Safety Network.	259
<i>T. Yokoyama, P. Lemoine</i>	

**REGULATORY EFFECTIVENESS FROM THE OPERATOR'S
VIEWPOINT (Closing Session)**

Regulatory effectiveness from the operator's viewpoint: Fuel cycle facilities	267
<i>V. Decobert</i>	

Regulatory effectiveness from an operator's perspective.....	273
<i>O.D. Kingsley, Jr.</i>	
Summary and Conclusions of the Conference.....	279
<i>L. Williams</i>	
Chairpersons of Sessions.....	293
President of the Conference.....	293
Secretariat of the Conference.....	293
Programme Committee.....	294
List of Participants.....	295
Author Index.....	331