Globalization and WMD Proliferation
Terrorism, transnational networks, and international security

Edited by James A. Russell and James J. Wirtz
Contents

List of illustrations viii
List of contributors ix

1 WMD proliferation, globalization, and international security: whither the nexus and national security? 1
JAMES A. RUSSELL

Introduction 1
Globalization as a security paradigm 5
Proliferation, globalization, and the national security dilemma 8
The past as prologue 10
Conclusion 11

2 Globalization and nuclear proliferation 14
H.H. GAFFNEY

Does globalization produce proliferation? 14
Globalization and the reduction of international conflict 15
The emergence and evolution of globalization 16
Globalization and proliferation 20
Connecting globalization to proliferation 23
Conclusion 25

3 Proliferation networks in theory and practice 28
ALEXANDER H. MONTGOMERY

Introduction 28
Markets, networks, and hierarchies 28
Network structures 31
Knowledge and networks 32
Proliferation networks in practice 33
Conclusion 36
4 Globalization and WMD proliferation networks: the policy landscape
JOHN P. CAVES, JR

- Globalization and proliferation networks 40
- Bush administration policy 42
- Conclusion 46

5 The A.Q. Khan illicit nuclear trade network and implications for non-proliferation efforts
DAVID ALBRIGHT AND COREY HINDERSTEIN

- Origin of the Khan network 49
- Key customers and offers 50
- Uncovering the network 55
- Implications for international non-proliferation regimes 56
- Conclusion 60

6 Near-term threats of chemical weapons terrorism
MARGARET E. KOSAL

- Introduction 63
- Prior work 64
- Traditional chemical warfare agents with improvised dispersal method 65
- Improvised chemical agents 67
- Related potential terrorist threats 73
- Conclusion and recommendations 74

7 Constituency constraints on violence: al-Qaeda and WMD
WILLIAM W. BROWNE III

- Introduction 79
- The constraints on terrorist violence 79
- Establishing the constituency 81
- Context: legitimate violence in Islam 83
- Jihadis and fundamentalists react 85
- The Muslim masses 87
- Al-Qaeda reacts: the management of violence 92
- Evidence of intent to use WMD 94
- Constituent constraint in the bigger picture 95
- Conclusion 97
8 Organized crime, terrorism and nuclear trafficking
LYUDMILA ZAITSEVA

Introduction 102
Nuclear trafficking: historical background and recent trends 103
Nuclear trafficking and organized crime 106
Terrorist networks and nuclear trafficking 117
Conclusion 118

9 Globalization and WMD proliferation networks: the case of unmanned air vehicles as terrorist weapons
DENNIS M. GORMLEY

Planning motivations 124
Technological factors 126
Two scenarios 127
International responses to the threat 132
Conclusion 134

10 Intelligence and nuclear proliferation: understanding and probing complexity
PHIL WILLIAMS

Introduction 138
Nuclear smuggling 139
The A.Q. Khan network 141
Nuclear proliferation as a complexity problem for intelligence 142
Intelligence responses to complex proliferation 148
Conclusion 155

11 Conclusion
JAMES J. WIRTZ

The individual as a global actor 159
The enemy within 161
The best defense? 162
In lieu of conclusions 164