

# **S&T Diplomacy and Sustainable Development in the Developing Countries**

*— Editors —*

**Dr. Tahereh Miremadi**

**Mr. Abdul Haseeb Arabzai**

**Mrs. Sadhana Relia**

**CENTRE FOR SCIENCE & TECHNOLOGY OF THE  
NON-ALIGNED AND OTHER DEVELOPING COUNTRIES  
(NAM S&T CENTRE)**

**2017**

**DAYA PUBLISHING HOUSE®**

*A Division of*

**ASTRAL INTERNATIONAL PVT. LTD.**

**New Delhi – 110 002**

---

# Contents

---

<b>Foreword</b> <i>Prof. (Dr.)</i>	<i>v</i>
<b>Preface</b> <i>Prof. Dr. Tahereh Miremadi, Mr. Abdul Haseeb Arabzai and Mrs. Sadhana Relia</i>	<i>vii</i>
<b>Introduction</b> <i>Prof. (Dr.) Arun P. Kulshreshtha</i>	<i>xiii</i>

## **— Section I — National Experiences**

<b>1. Science and Technology Diplomacy: Progress of the Engineering Education in Cambodia</b> <i>Chansopheak SEANG, Cambodia</i>	<b>3</b>
<b>2. Science and Technology Diplomacy: Iran and the Path to Development</b> <i>Ali M. Birang, Hamid R. Amirinia and Hossein Ahmadi, Iran</i>	<b>11</b>
<b>3. Leveraging on Science, Technology and Innovation (STI) Policy by Enhancing Collaborative Diplomacy</b> <i>Siva Kumar Solay Rajah, Malaysia</i>	<b>21</b>
<b>4. S&amp;T Diplomacy: Status and Opportunities for the Republic of Mauritius</b> <i>M. Madhou, A. Suddhoo and D.P. Gokulsing, Mauritius</i>	<b>31</b>
<b>5. Status of Science and Technology Diplomacy and Need for Capacity Building in Nepal</b> <i>Chiranjivi Regmi, Nepal</i>	<b>43</b>

- 
- |    |   |    |
|----|---|----|
| 6. | Science and Technology Diplomacy: Impacts, Achievements, Opportunities and Challenges | 53 |
|    | <i>Clifford Mupeyiwa, Zimbabwe</i>  |    |

## — Section II —

### Regional Cooperation and South-South Relations

- |    |   |    |
|----|---|----|
| 7. | Better Diplomacy and Better Science for Better Development: A Way Forward Fulfilling Post-2015 Development Agenda and Sustainable Development Goals | 65 |
|    | <i>Ruckmani Arunachalam, Rita Gupta and Sadhana Relia, India</i>  |    |
| 8. | Enhancing Technical and Vocational Education through Science and Technology Diplomacy   | 79 |
|    | <i>Aworanti Olatunde Awotokun, Nigeria</i>  |    |
| 9. | Nigeria's Technical Aid Corps Scheme: A Model for Science and Technology Diplomacy in Developing Countries  | 93 |
|    | <i>Bolarinwa Olugbemi, Nigeria</i>  |    |

## — Section III —

### International Organisations and Networking

- |     |  |     |
|-----|--|-----|
| 10. | Enhancing National Capacities for Sustainable Development: The Case of Oceans, Seas and Developing Countries | 107 |
|     | <i>Venugopalan Ittekkot, Germany</i>   |     |
| 11. | Science and Technology Diplomacy in the Area of Nanotechnology   | 115 |
|     | <i>Radhika Tandon, India</i>   |     |
| 12. | Specialized Centre for Scientific Research and Treatment with Laser  | 145 |
|     | <i>Ihsan, Fathallah Rostum, Iraq</i>   |     |

## — Section IV —

### Theoretical Frameworks

- |     |   |     |
|-----|---|-----|
| 13. | A Hybrid Model for Integrating S&T Policy with S&T Diplomacy  | 161 |
|     | <i>Tahereh Miremadi, Iran</i>   |     |
| 14. | The Turkish Vision for Science, Technology, and Innovation  | 177 |
|     | <i>Siir Kilkis and Nesibe Yazıcı, Turkey</i>  |     |
|     | <i>Manesar Declaration-2014 on Perspectives on Science and Technology Diplomacy for Sustainable Development in NAM and Other Developing Countries</i> | 199 |