**Monday, 21 Aug 2017**

**Introduction to the School**

**Session Moderator: Yanko Yanev**

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| Time | Topic | Expert | Remarks |
| 08:30-10:30 | REGISTRATION and ADMINISTRATION |  |  |
| 10:30-11:15 | Opening Remarks and Presentation on IAEA and its Activities to Promote Safe and Sustainable Nuclear Energy | Mikhail Chudakov, IAEA |  |
| 11:15-11:45 | Opening Remarks and Presentation on ICTP –Centre of Excellence | Director, ICTP |  |
| 11:45-12:15 | Introduction of Participants | All Participants |  |
| 12:15-12:40 | Nuclear Energy Management School - Scope and Objectives | Ashok Ganesan , IAEA |  |
| 14:00-15:15 | Basic Principles of Nuclear Energy in 21st century | Y. Yanev, Invited Expert |  |
| 15:45-17:00 | Nuclear Power Technology Evolution | Stefano Monti, IAEA |  |
| 17:00-17:30 | CLP4NET | Nixon Pereppedan, IAEA |  |
| 17:30-18:00 | Distribution of Group Projects | Ashok Ganesan, IAEA |  |

**Tuesday, 22 Aug 2017**

**Nuclear Power - Resource Efficiency and Benefits**

**Session Moderator: Stefano Monti, IAEA**

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| Time | Topic | Expert | Remarks |
| 09:00-10:30 | Nuclear Power within the Context of Energy Demand and Supply | Aliki Van Heek, IAEA |  |
| 11:00-12:00 | Cost Structure of Nuclear Power and its Comparison with the Costs of other Energy Sources | Aliki Van Heek, IAEA |  |
| 13:30-14:30 | Status and Development of Water Cooled Reactors; Fukushima in Light of Today’s Technology | Stefano Monti, IAEA |  |
| 15:00-16:00 | Advanced Reactor Designs for a more Sustainable Future | Stefano Monti, IAEA |  |
| 16:00-17:00 | Nuclear Knowledge Management | Ashok Ganesan, IAEA |  |
| 17:00-17:30 | Forum - Discussion on Security of Supply, Costs and National Energy Mix | Stefano Monti, Aliki Van Heek, IAEA |  |
| 17:30 | Group Projects |  |  |

**Wednesday, 23 Aug 2017**

**Implementation of a NP Programme - Long Term Commitment**

**Session Moderator: Sean Dunlop, IAEA**

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| Time | Topic | Expert | Remarks |
| 09:00-10:00 | Overview of the Nuclear Fuel Cycle | Maria Amparo Gonzalez-Espartero, IAEA |  |
| 10:30-12:00 | Waste Management and Decommissioning | Maria Amparo Gonzalez-Espartero, IAEA |  |
| 13:30-15:00 | The IAEA approach to introducing Nuclear Power | Sean Dunlop, IAEA |  |
| 15:30-16:30 | Conducting a Pre-feasibility study for a National Nuclear Programme | Sean Dunlop, IAEA |  |
| 16:30-17:00 | Discussion, Q&A Session | Sean Dunlop, Maria Amparo Gonzalez-Espartero, IAEA |  |
| 17:00 | Group Projects |  |  |

**Thursday, 24 Aug 2017**

**Protection of People and the Environment - Safety of Nuclear Installations**

**Session Moderator: Peter Tarren**

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| Time | Topic | Expert | Remarks |
| 09:00-10:30 | Main Principles of Nuclear Installation Safety | Peter Tarren, IAEA |  |
| 11:00-12:30 | Enhancing safety culture in nuclear organizations | Ashok Ganesan, IAEA |  |
| 14:00-15:00 | IAEA Safety Standards and their harmonized use in the World | Katherine Elizabeth Asfaw, IAEA |  |
| 15:00-16:00 | IAEA Review Services (OSART, RRS, INIR, etc.) and the general trends of outcomes | Peter Tarren, IAEA |  |
| 16:30-17:00 | Forum - Discussion on Main Contemporary Challenges for Nuclear Safety (e.g. Lessons learned from Nuclear Power Accidents, Leadership for Safety) | Peter Tarren, Katherine Elizabeth Asfaw, IAEA |  |
| 17:00 | Group Projects  |  |  |

**Friday, 25 Aug 2017**

**Radiation Protection and Waste Management in Planned and Emergency Situations**

**Session Moderator: Abel Gonzalez, ARN**

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| Time | Topic | Expert | Remarks |
| 09:00-10:30 | Basic Principles of Radiation Protection under normal operation and Emergencies | Abel Gonzalez, Invited Expert |  |
| 11:00-12:30 | Prepared for Emergencies | Rafael Martincic, Invited Expert |  |
| 14:00-15:30 | World Radiation Accidents Lessons Learned | Abel Gonzalez, Invited Expert |  |
| 16:00-17:00 | IAEA’s Role in Emergency Preparedness and Response | Rafael Martincic, Invited Expert |  |
| 17:00-17:30 | Discussion, Q&A Session | Abel Gonzalez/ Rafael Martincic |  |
| 17:30 | Group Projects |  |  |

**Monday, 28 Aug 2017**

**Nuclear Security and Safeguards**

**Session Moderator: Chris Price**

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| Time | Topic | Expert | Remarks |
| 09:00-09:40 | Nuclear Security Fundamentals | Chris Price, Invited Expert |  |
| 09:40-10:20 | NSS 19 Establishing the Nuclear Security Infrastructure for a Nuclear Power Programme | Chris Price, Invited Expert |
| 10:50-12:00 | NNS13 (INFIRC/225/Rev.5) on the Physical Protection of Nuclear Material and Nuclear Facilities | Chris Price, Invited Expert  |
| 13:30-15:00 | Research Reactors and Nuclear Education | Danas Ridikas, IAEA |  |
| 15:30-17:30 | The IAEA Methods and Tools for Safeguards Implementation | Robert Hernon, IAEA |  |
| 17:30-18:00 | Discussion, Q&A Session | Chris Price/Danas Ridikas/Robert Hernon |  |
| 18:00 | Group Projects |  |  |

**Tuesday, 29 Aug 2017**

**International Legal Framework and Regulation**

**Session Moderator: Patrick Reyners, France**

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| Time | Topic | Expert | Remarks |
| 09:00-09:30 | Introduction to Nuclear Law | Patrick Reyners, Invited Expert |  |
| 09:30-10:15 | The International Legal Framework for Nuclear Safety | Andrea Gioia, IAEA |  |
| 10:45-11:30 | The International Legal Framework for Nuclear Security | Andrea Gioia, IAEA |  |
| 11:30-12:30 | The International Legal Framework for Civil Liability for Nuclear Damage | Andrea Gioia, IAEA |  |
| 14:00-15:00 | Legal aspects of IAEA Safeguards  | Sylvain Fanielle, IAEA |  |
| 15:30-16:30 | International Nuclear Licensing Fundamentals and Regulatory Action | Will Fork, Invited Expert |  |
| 16:30-18:00 | Developing New Nuclear Programs: Legal Lessons Learned | Will Fork, Invited Expert |  |
| 18:00 | Group Projects |  |  |

**Wednesday, 30 Aug 2017**

**Continual Improvement, Competence and Leadership in Nuclear**

**Session Moderator: David Drury, IAEA**

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| Time | Topic | Expert | Remarks |
| 09:00-10:00 | Forum-Lecture - Competence, Knowledge and Human Resource Challenges in Nuclear Field | David Drury, IAEA |  |
| 10:00-11:00 | Planning a Nuclear Workforce for a Newcomer Country | D. Drury, IAEA |
| 11:30-12:30 | Preparing Technical Specialists for Nuclear Manager/Leadership Responsibilities | James Hylko, Invited Expert |  |
| 14:00-15:00 | Leadership and Management in a Nuclear Enterprise (Including Key principles for a successful PM) | D. Drury, IAEA |  |
| 15:30-17:00 | Main Principles of Effective Stakeholder Involvement for Nuclear Power | D. Drury, IAEA |
| 17:00 | Group Projects |  |  |

**Thursday, 31 Aug 2017**

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| Visit to a Nuclear Facility |

**Friday, 01 Sep 2017**

**Final Assessment test, Project presentations, Award of Certificates**

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| Time | Topic | Expert | Remarks |
| 09:30-11:00 | Final Assessment Test  |  | To be conducted at the room with 50 computers  |
| 11:30-12:00 | Group Project Presentation-1 |  |  |
| 12:00-12:30 | Group Project Presentation-2 |  |  |
| 13:30-14:00 | Group Project Presentation-3 |  |  |
| 14:00-14:30 | Group Project Presentation-4 |  |
| 14:30-15:00 | Group Project Presentation-5 |  |  |
| 15:00-15:30 | Group Project Presentation-6 |  |  |
| 16:00-16:30 | Award of Certificates |  |  |