CTBT Science and Technology 2017 Conference

Monday, 26 June 2017 - Friday, 30 June 2017

Scientific Programme

1. The Earth as a complex system

- 1.1 Infrasound and Atmospheric Dynamics
- 1.2 Solid Earth Structure
- 1.3 Atmospheric and Subsurface Radionuclide Dispersion and Depletion
- 1.4 Hydroacoustics and Physical Properties of the Oceans
- 1.5 Civil, Scientific and Industrial Applications of IMS data and IDC Products

2. Events and Nuclear Test Sites

- 2.1 Treaty-Relevant Events
- 2.2 Characterization of Events Through On-Site Inspection
- 2.3 Seismoacoustic Sources in Theory and Practice
- 2.4 Atmospheric Background of Radioxenon
- 2.5 Historical Data from Nuclear Test Monitoring

3. Advances in sensors, networks and processing

- 3.1 Design of Sensor Systems and Advanced Sensor Technologies
- 3.2 Laboratories Including Mobile and Field-Based Facilities
- 3.3 Remote Sensing, Satellite Imagery and Data Acquisition Platforms
- 3.4 Geophysical Methods Applied to On-Site Inspection
- 3.5 Data Processing and Interpretation
- 3.6 Fusion of Data from Different Monitoring Technologies

3.7 Algorithms

4. Performance Optimization and Systems Engineering

4.1 Performance Optimization and Systems Engineering

- 4.2 Operations Research and Systems Analysis
- 4.3 Logistics and Lifecycle Management
- 4.4 Quality Management and Business Process Optimization in an Operational Environment
- 4.5 Network Optimization and Error Analysis

5. Monitoring for Nuclear Explosions in a Global Context

5.1 Science in Support of Global Policy Decisions

5.2 Science in Support of International Treaties and Sustainable Development Goals

- 5.3 Comparative Roles of Global Verification and On-Site Verification
- 5.4 Capacity Building, Education and Public Awareness