CTBT: Science and Technology 2019 Conference

Monday, 24 June 2019 - Friday, 28 June 2019

Scientific Programme

Theme 1. The Earth as a Complex System

T1.1 Atmospheric Dynamics

T1.2 Solid Earth Structure

T1.3 Properties of the Ocean

T1.4 Interaction Among the Earth's Subsystems

Theme 2. Events and Nuclear Test Sites

T2.1 Characterization of Treaty-Relevant Events

T2.2 Challenges of On-Site Inspection

T2.3 Seismoacoustic Sources in Theory and Practice

T2.4 Atmospheric and Subsurface Radionuclide Background and Dispersion

T2.5 Historical Data from Nuclear Test Monitoring

Theme 3. Verification Technologies and Technique Application

T3.1 Design of Sensor Systems and Advanced Sensor Technologies

T3.2 Laboratories Including Mobile and Field Based Facilities

T3.3 Remote Sensing, Satellite Imagery and Data Acquisition Platforms

T3.4 Augmented Reality and Fusion of Data from Different Monitoring Technologies

T3.5 Data Analysis Algorithms, Artificial Intelligence, Big Data and Deep Learning

Theme 4. Performance Optimization

T4.1 Network Optimization

T4.2 Systems Engineering

T4.3 Enabling Technologies

T4.4 Performance of the Full Verification System

Theme 5. CTBT in a Global Context

T5.1 Science in Policy Discussions and Lessons Learned from Other Arms Control Agreements and Arrangements

T5.2 Experience with and Possible Additional Contributions to Issues of Global Concern such as Disaster Risk Mitigation, Climate Change Studies and Sustainable Development Goals

T5.3 Capacity Building, Education and Public Awareness