

CTBT Science and Technology Conference 2021 (SnT2021)



Monday 28 June 2021 - Friday 02 July 2021

Vienna, Austria

Scientific Programme

Theme 1. The Earth as a Complex System

T1.1 - The Atmosphere and its Dynamic

T1.2 - The Solid Earth and its Structure

T1.3 - The Oceans and their Properties

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 Transportable and Field Based Facilities

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

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

T3.5 - Data Analysis Algorithms

T3.6 - Artificial Intelligence and Machine Learning

T3.7 - 25 years of CTBT: progress on verification technologies and looking towards the future 25 years and beyond

Theme 4. Performance Evaluation and Optimization

T4.1 - Performance Evaluation and Modelling of the Full Verification System and its Components

T4.2 - Systems Engineering for CTBT Verification

T4.3 - IT, Power Systems and other Enabling Technologies

T4.4 - Network Sustainability

T4.5 - Resilience of the CTBT Monitoring Regime, including Lessons Learned from the COVID-19 Pandemic

Theme 5. CTBT in a Global Context

T5.1 - Science in Policy Discussions and Scientific 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, Communication and Public Awareness