

Session Program

Jun 19 - 23, 2023

CTBT: Science and Technology Conference 2023 - SnT2023

Lightning talks: P2.1, P2.3, P4.4

Hofburg Palace & Online
Hofburg Palace, Vienna, Austria

Wed, June 21

9:00 AM

Lightning talks: P2.1, P2.3, P4.4

Poster Session | Location: Wintergarten

Advantages and Issues of Applying Machine Learning Based Denoising on Inversions of the Democratic People's Republic of Korea Nuclear Tests

Speaker

Andreas Steinberg

Mis-associated Surface Waves Within the Automated Processing Flow of the Reviewed Event Bulletin

Speaker

Mr John Condon

Radioxenon to Radioiodine Ratios in Emissions from Nuclear Power Plants

Speaker

Mr Martin B. Kalinowski

Exploring the use of Radioxenon to Radioiodine Isotopic Ratios as Additional Screening Method Regarding Possible CTBT-relevant Events

Speaker

Mr Martin B. Kalinowski

Analysis of Anomalous Seismic Events in India

Speaker

Mr Thomas VanDeMark

Using Low Frequency Electromagnetic Signals to Explore Historic Nuclear Test Observations

Speaker

Mr William Junor

A Case Study on Using High Resolution Atmospheric Transport Modelling on Historical Democratic People's Republic of Korea Announced Tests

Speaker

Ms Anne Tipka

Transportable Absolute Yields of Underground Nuclear Explosions

Speaker

Mr Brent Delbridge

Development of Automatic Procedures for Selecting Samples Associated with a Release Event Based on the Evolution Consistency of Isotopic Ratios

Speaker

Mr Joshua Kunkle

A Novel Radioxenon Event Classification Method Based on CatBoost

Speaker

Mr Yungang Zhao

Interactive Analysis Prospective on Implementation of the NET-VISA in the International Data Centre Bulletin Production

Speaker

Mr Sherif Ali

Root Mean Square Lg Amplitude Measurements for the Democratic People's Republic of Korea Underground Nuclear Tests

Speaker

Mr Won-Young Kim

Radioxenon Isotopic Composition of Release Scenarios Based on Realistic Models of Underground Nuclear Explosion Cavity Evolution and Subsurface Gas Transport

Speaker

Mr Boxue Liu

Impacts on Characterization of a CTBT-Relevant Nuclear Event Using Isotopic Ratios Caused by the Radioxenon Background Subtraction at International Monitoring System Stations

Speaker

Mr Boxue Liu

Joint Regional Waveform, First Motion Polarity, and Surface Displacement Inversion Using a Layered Elastic Model with Topography for the People's Democratic Republic of Korea Nuclear Explosions

Speaker

Rodrigo Chi-Durán

Improvement of Methods for Characterizing CTBT-Relevant Radionuclide Events Based on Data from the Temporary High Density Network Formed by the International Monitoring System Noble System JPX38 and the two Transportable Radioxenon Measurement Systems

Speaker

Jonathan Bare

Seismic Data Analysis for the Discrimination, Detection, and Location of Seismic Events of the People's Democratic Republic of Korea

Speaker

Iulia Stefania Armeanu

The Rock Valley Direct Comparison instrumentation plan

Speaker

Mr Robert Abbott

Kazakhstan IMS Stations Recording the Quarry Blasts Conducted on the Territory of the Former Semipalatinsk Test Site

Speaker

Mr Aidyn Mukambayev

The Central and Eastern European Infrasond Network

Speaker

Mr Istvan Bondar

Registration of Exogenous Phenomena by Seismic Stations in Kyrgyzstan

Speaker

Ms Elena Pershina

Seismic Events in Central Kazakhstan According to the Monitoring Network of the National Nuclear Center of the Republic of Kazakhstan**Speaker**

Mr Abylay Uzbekov

Military Depot Bursts in the South of Kazakhstan and Uzbekistan by Data of Kazakhstan Monitoring Network Stations**Speaker**

Mr Nurbek Seinassinov

Evaluation of Nordstream Explosions Using NDC in a Box Software**Speaker**

Ms Ulrike Mitterbauer

Constraining Moment-Tensor and Source Depth of a Mine Quake Using Local Infrasonic Data**Speaker**

Antoine Turquet

Open Access Products from International Monitoring System Infrasonic Bulletins for Atmospheric Science Applications**Speaker**

Patrick Hupe

A Collection of Romanian Infrasonic Observations from Ground Truth Sources**Speaker**

Ms Daniela Ghica

Acoustic Signal Identification of Submarine Seismic**Speaker**

Shiyang Wei

Systematic Event Analysis of International Monitoring System Hydrophones to Identify and Categorize Hydroacoustic Sources**Speaker**

Dr Christoph Pilger

ParMT - Parallel Software for Shallow Seismic Events Joint Moment Tensor, Depth and Magnitude Determination**Speakers**

Mr Mikhail Rozhkov, Mr Ivan Kitov

International Monitoring System Portable Infrasonic Array in Côte d'Ivoire: Opportunity to Study Local and Regional Infrasonic Sources**Speaker**

Komenan Benjamin Kouassi

Investigation of the P/S Discriminant at Local Distances Using Simulated Waveforms**Speaker**

Mr Arben Pitarka

Full Moment Tensor and Source Characteristics of Nuclear Explosions at the Lop Nor Test Site, China

Speaker

Mr Jonas Kintner

The Infrasound Reference Event Database Needs to be Revised

Speaker

Dr Abdelouaheb Agrebi

Improving Localization of Mining Activities Using Infrasound and Seismic Data: A Case for I35NA and I47ZA

Speaker

Onkgopotse Ntibinyane

Volcano Seismology in Afar and the Northern Main Ethiopian Rift (MER): Potential Sources for Ground Truth Events

Speaker

Prof. Atalay Ayele

Studies on Infrasound Technology Applied to the Discrimination of Chemical Explosions From Tectonic Events

Speaker

Mr Darlan Portela Fontenele

Recent Trends in International Data Centre Infrasound Analysis

Speaker

David Applbaum

Analysis of the North Stream Underwater Blasts in the Baltic Sea on 26 September 2022

Speaker

Tine Larsen

Seismoacoustic Listening of a Baltic gas Explosion

Speaker

Mr Uchenna Onwuhaka Madu

The Reviewed Event Bulletin and the Standard Event List 3 Bulletin for CPUP Scope Measurement

Speaker

Mr Alcides Caballero

Possible GT5 Events in Costa Rica

Speaker

Ronnie Quintero

Cambronero Landslide on 17 September 2022, 16:10 Local Time Costa Rica

Speaker

Ronnie Quintero

Geophysical Monitoring System Interactive Analysis Capabilities

Speaker

James Mark Harris

Seismic, Hydroacoustic and Infrasound Monitoring for Seismic Stations Applying 3G/4G Technologies

Speaker

Mr Felipe Condori Apaza

Radionuclide Station RN48 Installation by Local Skills: Niger Experiences

Speaker

Mr Bawa Mamane

Decreasing Operational Costs by Enhancing Regional and Local Capabilities: A New Paradigm for Long Term Global Network Operations

Speaker

Mr Robert Mellors

Australian Performance in International Monitoring System Radionuclide Stations - How Can Remote Stations Perform as well as Those on the Mainland?

Speakers

David Hardman, Marcus Grzechnik

PTS Maintenance Radionuclide Field Activities

Speaker

Diego Ortiz Trujillo

Feedback on SPALAX New Generation Operation

Speaker

Ms Axelle Gourgues

International Monitoring System Radionuclide Station State of Health Monitoring Using the Radionuclide Operations Support System

Speaker

Paolo Tristan Cruz

10:00 AM