

PROGRAMME

COMPREHENSIVE NUCLEAR-TEST-BAN TREATY: SCIENCE AND TECHNOLOGY 2011

8-10 JUNE

HOFBURG PALACE
VIENNA, AUSTRIA

IN COOPERATION WITH
THE AUSTRIAN FEDERAL MINISTRY FOR
EUROPEAN AND INTERNATIONAL AFFAIRS

WWW.CTBTO.ORG

 **CTBTO**
PREPARATORY COMMISSION

OVERVIEW: Wednesday, 8 June 2011

	Auditoriums		Posters		Exhibition
	Grosser Redoutensaal	Kleiner Redoutensaal	Dachfoyer	Mittlere Lounge & Foyer	Untere Lounge
08:00	Registration*				
10:00	Opening Ceremony and Keynote Lectures		Themes 1, 3, 4 and 5		
13:00	Lunch break (Finger lunch provided)		Poster Session Theme 1	Posters for Theme 2	Vendor Exhibition
14:00	Oral Presentations Theme 1	Oral Presentations Theme 2	Posters for		
15:30		Coffee break			
15:45	Coffee break				
16:00		Oral Presentation Theme 2			
16:15	Oral Presentations Themes 1 & 4				
18:30-20:00	Posters for Tohoku and Fukushima**		Reception & Poster Session Theme 4	Reception & Poster Session Theme 2	

* At the ground floor entrance area

** Posters for Tohoku and Fukushima will be on display in the Grosser Redoutensaal during the conference

Theme 1: The earth as a complex system

Theme 2: Understanding the nuclear explosion source

Theme 3: Advances in sensors, networks and observational technologies

Theme 4: Advances in computing, processing and visualization for verification applications

Theme 5: Creating knowledge through partnerships, training and information/communication technology

Tohoku: 11 March 2011 Tohoku Earthquake and subsequent tsunami

Fukushima: Fukushima nuclear power plant accident

OVERVIEW: Thursday, 9 June 2011

	Auditoriums		Posters		Exhibition
	Grosser Redoutensaal	Kleiner Redoutensaal	Dachfoyer	Mittlere Lounge & Foyer	Untere Lounge
09:00	Oral Presentations Theme 1	Oral Presentations Themes 4 & 5	Themes 1, 3, 4 & 5	Posters for Theme 2	Vendor Exhibition
10:15	Coffee break				
10:30	Coffee break				
10:45	Oral Presentations Theme 1	Oral Presentations Theme 4			
11:00	Panel Discussion 1				
11:30					
12:30	- Lunch break (Finger lunch provided) - Seminar for Journalists (closed)		Poster Session Theme 3		
14:00	Panel Discussion 2		Posters for		
15:00	Break				
15:15	Oral Presentations Tohoku				
16:15	Coffee break				
16:45	Oral Presentations Fukushima				
17:45	Panel Discussion 3				
19:00-20:00	Reception and Poster Session Tohoku and Fukushima				

Panel Discussion 1: Potential mechanisms to conduct studies, partnerships and pilot projects of interest to the CTBTO

Panel Discussion 2: Ideas for underlying technology support programmes and possible opportunities for CTBTO-external research and development

Panel Discussion 3: Fukushima nuclear power plant accident

OVERVIEW: Friday, 10 June 2011

AUDITORIUMS		POSTERS		VENDOR EXHIBITION
Grosser Redoutensaal	Kleiner Redoutensaal	Dachfoyer	Mittlere Lounge & Foyer	Untere Lounge
09:00	Oral Presentations Theme 3	Themes 1, 3, 4 & 5	Posters for Themes 2	Vendor Exhibition
10:30	Coffee break			
10:45	Coffee break			
11:00	Oral Presentations Theme 3			
11:15	Oral Presentations Theme 5	Poster session Theme 5		
13:00	Lunch break (Finger lunch provided)			
14:00	Oral Presentations Theme 3	Posters for		
14:00	Oral Presentations Theme 4			
15:30	Coffee break			
15:30	Coffee break	Closing Ceremony and Reception		
16:00	Scientific Concluding Session			
16:00				
17:00				
19:00	END OF CONFERENCE			

OPENING SESSION: Wednesday, 8 June 2011, 10:00-1300

- Welcome

LASSINA ZERBO

Director, International Data Centre (IDC) Division
Provisional Technical Secretariat of the CTBTO Preparatory Commission
and Project Executive for the CTBT: S&T2011 Conference

- Children's Choir of the American International School in Vienna
- Keynote lecture

"The Scientific Roots and Prospects for the CTBTO and the International Monitoring System "

RICHARD L. GARWIN

IBM Fellow Emeritus

- Keynote lecture

"Earth and Lunar Science - Interaction Between Basic Science and Public Need"

DAVID STRANGWAY

President Emeritus of the University of British Columbia
and of the Canada Foundation for Innovation

- Discussion

Moderator

RAYMOND JEANLOZ

US National Academy of Sciences and Department of Astronomy and Earth and Planetary Sciences,
University of California, Berkeley

- Opening remarks

HE Dr MICHAEL SPINDELEGGER

Vice-Chancellor and Federal Minister for European and International Affairs
Republic of Austria

- Opening remarks

HE Mr TIBOR TÓTH

Executive Secretary of the Preparatory Commission for the Comprehensive Nuclear-Test- Ban Treaty
Organization

- Message

HE Mr BAN KI-MOON

United Nations Secretary-General

- Announcements on the Programme of Work

PANEL DISCUSSIONS, Thursday, 9 June 2011

Panel Discussion 1: Potential mechanisms to conduct studies, partnerships and pilot projects of interest to the CTBTO

Moderator:

Gerardo Suarez, Research Scientist, Autonomous University of Mexico, Institute of Geophysics, Mexico

Members:

1. **TIM AHERN**
Director, Incorporated Research Institutions for Seismology (IRIS) Services
United States of America
2. **RONAN LE BRAS**
Unit Head, Software Integration/Scientific Applications,
International Data Centre (IDC) Division
Provisional Technical Secretariat of the CTBTO Preparatory Commission
3. **BERNARD DOST**
Head, Seismology Department
Royal Netherlands Meteorological Institute (KNMI)
Netherlands
4. **MATTHIAS ZAEHRINGER**
Unit Head
Federal Office for Radiation Protection
Germany

Panel Discussion 2: Ideas for underlying technology support programmes and possible opportunities for CTBTO-external research and development

Moderator:

Kiyoshi Suyehiro, Integrated Ocean Drilling Program, Management International, Japan

Members:

1. **RANDY BELL**
Director, Office of Nuclear Detonation Detection
National Nuclear Security Administration
US Department of Energy
United States of America
2. **GILLES OLLIER**
Head of Sector, Earth Observation
Management of Natural Resources RTD.I.4
Research Directorate General, European Union
3. **ROLAND SCHENKEL**
Former Director General
Joint Research Centre
European Union
4. **ALIK ISMAIL-ZADEH**
Secretary General
International Union of Geodesy and Geophysics

Panel Discussion 3: Fukushima nuclear power plant accident

Moderator:

Susan Watts, British Broadcasting Corporation (BBC), United Kingdom

Members:

1. **MATTHIAS AUER**
Project Manager - Radionuclide
International Monitoring System (IMS) Division
Provisional Technical Secretariat of the CTBTO Preparatory Commission
2. **DENIS FLORY**
Deputy Director General
Department of Nuclear Safety and Security
International Atomic Energy Agency
3. **ROLAND SCHENKEL**
Former Director General
Joint Research Centre
European Union
4. **WOLFGANG WEISS**
Chairman of the 58th and 59th Sessions
United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)
and Head of the Department of Radiation Protection and Health
Federal Office for Radiation Protection (BfS), Germany
5. **HARRI TOIVONEN**
Director of Laboratory
Security Technology
Radiation and Nuclear Safety Authority (STUK), Finland

**EXHIBITION
8-10 JUNE 2011
UNTERE LOUNGE**

Vendors

1. Geotech Instruments, LLC
2. Scientific Production Center "ASPECT"
3. Gammadata SAUNA Systems
4. Guralp Systems Ltd.
5. Ultisat, Inc.
6. AMETEK Advanced Measurements Technology Inc. (Ortec)
7. Canberra Packard Central Europe GmbH
8. ESRI
9. Reftek US Refraction Technology
10. DigitalGlobe
11. Instrumental Software Technologies, Inc. (ISTI)

Provisional Technical Secretariat of the CTBTO Preparatory Commission

12. Technology Foresight for the CTBT
- 13a. Jobs@CTBTO
- 13b. Investing in the Future: Strengthened Verification, Enhanced Security

SCIENTIFIC SESSIONS

Theme 1. The earth as a complex system

Conveners:

IVAN KITOV

International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

ROBERT G. PEARCE

International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

PAUL G. RICHARDS

Columbia University Lamont-Doherty Earth Observatory, United States of America

Invited Speakers:

ELISABETH BLANC

Commissariat à l'Énergie Atomique (CEA), France

CATHERINE DEGROOT-HEDLIN

Scripps Institution of Oceanography, University of California, United States of America

EMILE OKAL

Department of Earth and Planetary Sciences, Northwestern University, United States of America

Theme 2. Understanding the nuclear explosion source

Conveners:

MIKA NIKKINEN

International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

MATJAZ PRAH

On-Site Inspection Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

MARTIN KALINOWSKI

Centre for Science and Peace Research, University of Hamburg, Germany

Invited Speakers:

HARRY MILEY

Pacific Northwest National Laboratory, United States of America

ANDERS RINGBOM

Swedish Defence Research Agency (FOI), Sweden

HARRI TOIVONEN

Security Technology, Radiation and Nuclear Safety Authority (STUK), Finland

Theme 3. Advances in sensors, networks and observational technologies

Conveners:

PATRICK GRECARD

International Monitoring System Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

MATTHIAS AUER

International Monitoring System Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

JOHN BERGER

Scripps Institution of Oceanography, United States of America

Invited Speakers:

MICHEL ANDRÉ

Technical University of Catalonia, Spain

DAVID SIMPSON

Incorporated Research Institutions for Seismology (IRIS), United States of America

SCIENTIFIC SESSIONS (cont.)

Theme 4. Advances in computing, processing and visualization for verification applications

Conveners:

JEFFREY GIVEN

International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

DAVID BOWERS

AWE Blacknest, United Kingdom

STUART RUSSELL

Computer Science Division, University of California, United States of America

Invited Speakers:

ROBERT JONES

European Organization for Nuclear Research (CERN), Switzerland

Theme 5. Creating knowledge through partnerships, training and information/communication technology

Conveners:

JERRY CARTER

International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

JOHN COYNE

International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

DMITRY STORCHAK

International Seismological Centre (ISC), United Kingdom

Invited Speakers:

JOSÉ ACHACHE

Group on Earth Observations (GEO), Switzerland

CHRISTINE WING

Center on International Cooperation, University of New York, United States of America

Tohoku and Fukushima

Conveners:

SPILIO SPILIOPOULOS

International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission

KIYOSHI SUYEHIRO

Integrated Ocean Drilling Program, Management International, Japan

EMILE OKAL

Department of Earth and Planetary Sciences, Northwestern University, United States of America

ORAL PRESENTATIONS: Wednesday, 8 June 2011, Afternoon

	Room: Grosser Redoutensaal	Room: Kleiner Redoutensaal
14:00	T1-O2. Rupture dynamics of large earthquakes inferred from hydroacoustic data <i>Catherine de Groot-Hedlin</i>	Theme 2 Introductory Remarks <i>Mr Oleg Rozhkov</i> <i>Director, On-Site Inspection Division, CTBTO</i>
14:15		T2-O1. Understanding the radionuclide source term for underground nuclear explosions <i>Harry Miley</i>
14:30	T1-O9. Next-level shake zoning for modeling seismic-wave propagation in the U.S. Intermountain West <i>John N. Louie</i>	
14:45	T1-O10. Ground motion studies for critical sites in north-east Bangladesh <i>Tahmeed Malik Al-Hussaini, M.Nayeem Al-Noman</i>	T2-O2. The global atmospheric noble gas background <i>Anders Ringbom</i>
15:00	T1-O11. Prediction of aftershocks distribution using artificial neural networks <i>Mostafa AllamehZadeh</i>	
15:15	T1-O13. Seismicity and seismic hazard assessment of the arid western regions of South Africa <i>Hlompho Malephane</i>	T2-O12. Medical isotopes studies <i>Judah Friese, Rosara Payne</i>
15:30	T1-O14. Crustal thickness and average VP/VS ratio variations in northern Viet Nam from teleseismic receiver function analysis <i>Van Duong Nguyen, Bor-Shouh Huang, Tu-Son Le, Van-Toan Dinh</i>	Coffee break
15:45		
16:00	Coffee break	T2-O10. Temporal evolution of the radioxenon signature from underground nuclear explosions <i>Martin Kalinowski</i>
16:15	T1-O15. Scattering and intrinsic attenuation structure in Central Anatolia, Turkey using BRTR (PS-43) array data <i>Korhan Umut Semin, Nurcan Meral Ozel</i>	T2-O6. Analysis of fission products in air samples due to nuclear explosion source <i>Abdus Sattar Mollah</i>
16:30	T1-O16. Detection of earthquake hazard in southwest peninsular India – Spurt of various unusual geological incidents <i>D. Shanker, H. N. Singh, John Matha, V. N. Neelakandan, A. Kumar</i>	T2-O9. Effects of non-isotropic explosion sources upon the utility of the Ms-mb discriminant <i>Paul G. Richards</i>
16:45	T1-O17. Upper crust structure under CTBTO station “Petropavlovsk-Kamchatsky” by endogenic microseismic activity <i>Yulia Kugaenko, Vadim Saltykov, Victor Chebrov</i>	T2-O4. Numerical experiments on explosions triggering earthquakes <i>Luis Angel Dalguer, Florian Haslinger, Seok Goo Song, Tarje Nissen-Meyer, Domenico Giardini</i>
17:00		T2-O7. Modelling of elastic waves generated by a point explosion <i>Zurab Kereselidze, Nino Tsereeli</i>
17:15	T4-O1. Distributed e-infrastructures for data intensive science <i>Robert Jones</i>	T2-O11. Seismo-acoustic energy partitioning from shallow and surface explosions <i>Jessie Bonner et al.</i>
17:30	T4-O8. Anomalous infrasound propagation through the dynamic stratosphere <i>Láslo Evers, Anton Van Geyt, Pieter Smets, Julius Fricke</i>	T2-O8. The source time function of an explosive source <i>Anton Ziolkowski</i>
17:45	T4-O12. Analysis of classification possibility infrasound signals from different sources based on correlation ability <i>Sergey Kulichkov, Alexei Chulichkov, Nadezhda Tsybul'skaya</i>	T2-O3. New and novel technologies for CTBT radionuclide measurement and analysis <i>Harri Toivonen</i>
18:00	T4-O10. A statistical framework for operational infrasound monitoring <i>Stephen Arrowsmith, Rod Whitaker</i>	
18:15		T2-O13. The IAEA Department of Safeguards: Crossover novel technologies <i>Andrew Monteith, Julian Whichello</i>

ORAL PRESENTATIONS: Thursday, 9 June 2011, Morning

	Room: Grosser Redoutensaal	Room: Kleiner Redoutensaal
09:00	T1-O1. Infrasound: from explosion monitoring to atmospheric studies and climate <i>Elisabeth Blanc</i>	T5-O3. Transnational cooperation: What and why? <i>Christine Wing</i>
09:30	T1-O4. Monitoring of explosive volcano eruptions in Kamchatka and the Kuriles Islands on acoustic data from IMS and KBGS RAS stations <i>Evgenii I. Gordeev, Evgenii R. Makhmudov, Pavel P. Firstov, Sergei N. Kulichkov, Viktor N. Chebrov</i>	T5-O4. Capacity building in the context of the Comprehensive Nuclear-Test-Ban Treaty <i>Lassina Zerbo, John Coyne, Belkacem Djermouni</i>
09:45	T1-O5. Civil applications of CTBT verification software and technologies: Volcano eruption in Iceland <i>Gerhard Wotawa, Ulrike Mitterbauer</i>	T4-O4. Bayesian inference for the study of low-level radioactivity in the environment: Application to the detection of xenon isotopes of interest for the CTBTO <i>Isabelle Rivals, Xavier Blanchard</i>
10:00	T1-O6. Determination of an uncertainty radius for back tracing infrasound signals to source caused by atmospheric wave activity <i>Sabine Wüst, Christoph Pilger, Verena Kopp, Michael Bittner</i>	T4-O9. On the potential of public available gridded precipitation re-analysis and monitoring products to access the wet-deposition impact on PTS radionuclide monitoring capability <i>Andreas Becker, Ole Ross, Lars Ceranna</i>
10:15	Coffee break	T4-O6. NET-VISA model and inference improvements <i>Nimar Arora, Stuart Russell, Paul Kidwell, Erik Sudderth</i>
10:30		Coffee break
10:45	T1-O3. Extracurricular geophysics, or tsunamis in the complex earth system <i>Emile Okal</i>	T4-O3. Improving regional seismic travel times (RSTTs) for more accurate seismic location <i>Stephen Myers et al.</i>
11:00		
11:15	T1-O7. Argon 37: What is the suspicious threshold activity in soil air? <i>Roland Purtschert, Robin Riedmann</i>	

ORAL PRESENTATIONS: Thursday, 9 June 2011, Afternoon

	Room: Grosser Redoutensaal	Room: Kleiner Redoutensaal
15:15	JS-O1. Source process and broadband waveform modeling of 2011 Tohoku earthquake using Spectral-Element Method <i>Seiji Tsuboi, Takeshi Nakamura, Akiko To</i>	
15:30	JS-O2. Magnitude determination using duration of high frequency energy radiation for the 2011 Off the Pacific Coast of Tohoku Earthquake <i>Tatsuhiko Hara</i>	
15:45	JS-O4. Tsunami infrasound: 2004 Sumatra and 2011 Tohoku case studies <i>Milton Garces et al.</i>	
1600	JS-O6. A window into the complexity of the dynamic rupture of the 2011 Mw 9 Tohoku-Oki earthquake <i>Lingsen Meng, Asaf Inbal, Jean-Paul Ampuero</i>	
16:15 16:30	Coffee break	
16:45	JS-O3. Analysis of the Fukushima accident by the French National Data Centre <i>Gilbert Le Petit et al.</i>	
17:00	JS-O5. Canadian monitoring of Fukushima incident <i>Ian Hoffman et al.</i>	
17:15	JS-O7. Detection of elevated Xe-133 following the Fukushima nuclear accident <i>Ted Bowyer et al.</i>	
17:30	JS-O8. Response of the Austrian Meteorological and Geophysical Service and the National Data Centre Austria to the nuclear accident in Fukushima: Atmospheric transport modelling and situation assessment based on CTBTO radionuclide data <i>Gerhard Wotawa, Ulrike Mitterbauer</i>	
17:45	JS-O9. Operational experience of CTBTO related to the Fukushima nuclear accident and long term perspectives <i>Mika Nikkinen et al.</i>	

ORAL PRESENTATIONS: Friday, 10 June 2011, Morning

	Room: Grosser Redoutensaal	Room: Kleiner Redoutensaal
09:00	Theme 3 Introductory Remarks <i>Mr Federico Guendel</i> <i>Director, International Monitoring System (IMS) Division, CTBTO</i>	T1-O8. The South Sarigan submarine volcanic eruption, May 2010: an example of International Monitoring System waveform data synergy. <i>David Green et al.</i>
09:15	T3-O1. Integrated solutions for a sustainable development of the offshore industry: live monitoring of noise and acoustics events <i>Michel André et al.</i>	T1-O12. Neural classification of infrasonic signals from hazardous volcanic eruptions <i>Garcés et al.</i>
09:30		T5-O10. Ghana's experience in the establishment of a National Data Centre <i>Paulina Ekuá Amponsah, Yaw Serfor-Armah</i>
09:45	T3-O2. Open data resources and shared instrumentation facilities to support research in seismology <i>David Simpson</i>	T5-O11. Creating knowledge and building capacity in Uganda <i>Cynthia Ayero</i>
10:00		T5-O12. A CTBT implementation process in Panama to forge broader partnerships <i>Miguel Gonzalez Marcos, Omayra Perez Castro, Bernardo Fernandez Garcia</i>
10:15	T3-O5. The Optical Seismometer – a new technology for seismographic observations <i>Jonathan Berger</i>	T5-O5. Educational outreach as a capacity development strategy, using the Irish example, seismology in schools, Dublin Institute for Advanced Studies (DIAS) Outreach Programme <i>Thomas Blake, Grace Campbell</i>
10:30	Coffee break	T5-O9. Infrasound calibration in the Eastern Mediterranean <i>John Coyne et al.</i>
10:45		Coffee break
11:00	T3-O7. The Optical Fiber Infrasound Sensor – improved wind noise reduction <i>Jonathan Berger, Mark Zumberge</i>	T5-O1. The global earth observation system of systems <i>José Achache, Francesco Gaetani</i>
11:15	T3-O13. Measuring mesopause temperature perturbations caused by infrasonic waves - An innovative sensor approach <i>Michael Bittner, Kathrin Höppner, Christoph Pilger, Carsten Schmidt</i>	
11:30	T3-O12. The EarthScope USArray Transportable Array: Results from large-scale network operations <i>Robert Woodward, Robert Busby, Katrin Hafner, David Simpson</i>	T5-O7. The IMS network and the International Federation of Digital Seismograph Networks FDSN - a long and winding road <i>Gerardo Suarez, Florian Haslinger</i>
11:45	T3-O3. Challenges and growth for NEPTUNE Canada <i>Lucie Pautet, Christopher R. Barnes, Fern Johnson, Mairi M. R. Best, Benoit Pirenne</i>	
12:00	T3-O6. Data for OSI multi-spectral and infrared instrument development <i>John Henderson, Milton Smith, Michael Zelinski</i>	T5-O6. CTBTO contribution to the global earthquake data collection: a view from the International Seismological Centre (ISC) <i>Dmitry A. Storchak, Istvan Bondár, James Harris, Ben Dando</i>
12:15	T3-O8. A new underground radionuclide laboratory - RL16 <i>Joel Forrester, Craig Aalseth, Larry Greenwood, Harry Miley, Cory Overman</i>	T5-O8. Contributions of the scientific community to CTBT monitoring and verification <i>Martin Kalinowski</i>
12:30		T5-O13. Methodology for on-site inspections and lessons learned from different verification regimes <i>Yousry Abushady</i>

ORAL PRESENTATIONS: Friday, 10 June 2011, Afternoon

	Room: Grosser Redoutensaal	Room: Kleiner Redoutensaal
14:00	T3-O10. Production of Xe standards for the calibration of noble gas sampler stations and laboratory equipment <i>Kari Peräjärvi et al.</i>	T4-O2. Improved signal detection at seismometer arrays <i>Neil Selby</i>
14:15	T3-O11. Xenon diffusion reduction using surface coatings on plastic scintillators in beta-gamma coincidence detection systems <i>Lisa Bläckberg et al.</i>	T4-O7. Real-time global seismic wave propagation and non-linear inversion for source and structure <i>Tarje Nissen-Meyer, Alexandre Fournier, P. Martin Mai, Florian Haslinger, Domenico Giardini</i>
14:30	T3-O4. The effectiveness of radionuclide monitoring: assessed with a natural airborne tracer <i>Murray Matthews</i>	T4-O13. High resolution array processing for earthquake source studies at regional distance <i>Lingsen Meng, Jean-Paul Ampuero</i>
14:45	T3-O9. Figure of merit for choosing Xe background study locations <i>Paul Eslinger, Derek Haas, Harry Miley</i>	T4-O11. Reliable Lg arrival time picks and potential for enhanced epicenter <i>Eystein S. Husebye, Tatiana Matveeva</i>
15:00	T3-O14. Optimal design of a noble gas monitoring network <i>Ian Hoffman et al.</i>	T4-O5. Improvements to seismic monitoring of the European Arctic using three-component array processing at SPITS <i>Steven J. Gibbons, Johannes Schweitzer, Frode Ringdal, Tormod Kvaerna, Svein Mykkeltveit</i>
15:15	T3-O15. Potential of the International Monitoring System (IMS) radionuclide network for inverse modeling <i>Mohammad Reza Koohkan, Lin Wu, Marc Bocquet, Monika Krysta</i>	

Theme 1. The earth as a complex system

- T1-P1. Tsunami numerical simulation applied to tsunami early warning system along Sumatra region
Wiko Setyonegoro
- T1-P2. Seismic hazard assessment for Zambia and surrounding areas
Gift Chafwa
- T1-P3. Evidence for infragravity wave-tide resonance in deep oceans
Hiroko Sugioka, Yoshio Fukao, Toshihiko Kanazawa
- T1-P4. Hydro-tremors and incidence of ground rupturing in the northern parts of India: A plausible model
Daya Shanker, M. Banerjee, H. N. Singh, Sanjay, U. S. Singh
- T1-P5. Shallow structure study using gravity data
Agustya Adi Martha
- T1-P6. Analysis spatial and temporal b-value variability seismicity north of Sulawesi
Jimmi Nugraha
- T1-P7. Seismic anisotropy from IDC data
Goetz Bokelmann
- T1-P8. The RN50 station of the International Monitoring System (IMS) as a reference station to the airborne particles pollution in Panama City
Omayra Perez Castro
- T1-P9. Observations of acoustic-gravity waves in the Czech Republic
Tereza Sindelarova et al.
- T1-P10. Detection and identification of low-magnitude seismic events near Bala, central Turkey
Korhan Umut Semin, Nurcan Meral Ozel, Ocal Necmioglu
- T1-P11. Source effects vs. site effects of Vrancea earthquakes recorded in Romania
Andrei Bala, Mircea Radulian, Bogdan Grecu
- T1-P12. Geophysical investigation for lake level rise
Berihun Asfaw Aregga
- T1-P13. Atmospheric transport processes over the Kathmandu valley, Nepal
Ram Prasad Regmi, Lok Narayan Jha
- T1-P14. 1-D Velocity model for use by the SANSN in earthquake location
Vunganoi Midzi, Ian Saunders, Martin Brandt, Timothy Molea
- T1-P15. Determining of the contrast zones based on the analysis of microseismic noise
Svetlana Kishkina, Alexander Spivak
- T1-P16. Tectonic stress field and recent movements of the earth's crust in the Manila subduction zone and adjacent faults
Van Dinh Quoc, Duong Nguyen Van, Luong Nguyen Van
- T1-P17. Sensitivity analysis of infrasound based source verification: influences of atmospheric conditions and surface orography
Christoph Pilger, Florian Streicher, Michael Bittner
- T1-P18. Detection, location and screening of seismic, hydroacoustic, infrasound and tsunami waveforms associated with May 29, 2010 S-Sarigan submarine volcano eruption, Marianas islands
Jacques Talandier, Olivier Hyvernaud, Dominique Reymond, H el ene H ebert, Alexis Le Pichon
- T1-P19. Dissipated energy by S-Sarigan paroxysmic eruption and explosive discrimination on hydroacoustic waveforms
Jacques Talandier, Jean Marc Gu erin, Olivier Hyvernaud
- T1-P20. Infrasound studies of some local and regional events detected by I33MG
Fanomezana Randrianarinosy, Gerard Rambolamanana
- T1-P21. Acoustic observations of stratospheric solar tides: Examples from the eruption of Eyjafjallaj okull, Iceland, April-May 2010
David Green, Julien Vergoz, Robin Matoza, Alexis Le Pichon
- T1-P22. Adaptively parameterized surface wave tomography: Methodology and a global model of the upper mantle
Lapo Boschi, Julia Schaefer, Eduard Kissling
- T1-P23. Unexpected high seismic activity observing near the Ulaanbaatar area, capital city of Mongolia: Improved relocation by using array-based earthquake location technique
Ulziibat Munkhuu
- T1-P24. Vp/Vs ratio and seismic activity at active structure of Ulaanbaatar area, the capital city of Mongolia
Demberel Sodnomsambu
- T1-P25. Investigating body wave energy in ambient seismic noise
Maira Pyle, Keith Koper
- T1-P26. Characterization of the Carancas meteor fall from infrasound signals
C. Millet, C. P. Haynes Millet

Theme 1. The earth as a complex system (cont.)

- T1-P27. The OGS local virtual seismic network in South-Central Europe as an array: exploiting depth phases to locate upper mantle discontinuities
George Helffrich, Damiano Pesaresi, Takashi Tonegawa
- T1-P28. Observations of atmospheric radionuclide cycles: The benefit for global paleoclimate studies
Christoph Elsässer et al.
- T1-P29. Effect of anisotropic inhomogeneities in the atmosphere on long-range sound propagation from explosions
Elena Golikova, Igor Chunchuzov, Sergey Kulichkov, Oleg Popov
- T1-P30. Comparison of recurrence curves from the IDC and ISC catalogs
Ivan Kitov, Dmitry Bobrov, John Coyne, Robert Pearce
- T1-P31. Inverse modelling of the 2010 Eyjafjallajökull eruption and comparison with infrasound signals
Petra Seibert et al.
- T1-P32. Using the International Monitoring System infrasound network to study large-scale atmospheric waves
Julien Marty, Francis Dalaudier
- T1-P33. Remote monitoring of volcanic eruptions using the International Monitoring System infrasound network
Amy Dabrowa, David Green, Jeremy Phillips, Alison Rust
- T1-P34. Infrasound propagation in the atmosphere
Dmitriy Golikov
- T1-P35. Explosion of crater lake in the "Cameroon line" area: seismic contribution
Parfait Noel Eloumala Onana
- T1-P36. Computation of pressure change in the sea from acoustic and tsunami waves excited by a sub-oceanic earthquake with a finite-difference scheme for seismic waves
Hiroshi Takenaka, Toshihiro Kuramoto, Takeshi Nakamura, Taro Okamoto, Genti Toyokuni
- T1-P37. Environmental impact of the nuclear tests in Argentina
Eduardo Quintana
- T1-P38. Evaluating $^{238}\text{U}/^{235}\text{U}$ in U-bearing accessory minerals
Joe Hiess et al.
- T1-P39. Time series analysis of the seismic events worldwide
Jun-Hee Lee, John Coyne
- T1-P40. Phase velocity and attenuation parameters in the Iranian Plateau
Reza Rezaei, Ali Safepour
- T1-P41. Do triggered earthquake patterns depend on trigger faulting style?
Mohammad Tahir, Jean Robert Grasso
- T1-P42. The physics of tsunamis: basics understanding and its disastrous effects
D. Shanker
- T1-P43. Assessment of tsunami damage using remote sensing and GIS and expected benefits of disaster early warning systems to tsunami vulnerable areas
Oscar Kithsiri Dissanayake Mudiyansele Don
- T1-P44. Seismic monitoring in Azerbaijan in aspects of seismic hazard assessment
Gulam Babayev, Fakhraddin Gadirov
- T1-P45. The ARISE project
Elisabeth Blanc et al.
- T1-P46. A report of natural background radiation hazard in southern Tamil Nadu, India and its effect on habitat and environment
Daya Shanker, H. N. Singh, V. N. Neelakandan, A. Kumar
- T1-P47. Forecast of the earthquakes' aftershocks in the common operations of seismic risk reduction
Farshed Karimov

Theme 2. Understanding the nuclear explosion source

- T2-P1. Application of geophysical methods while revealing UNE signatures at Semipalatinsk Test Site (for OSI purposes)
Andrey Belyashov, Victor Shaitorov, Mikhail Yefremov
- T2-P2. A near-regional verification analysis of North Korean nuclear tests
Kin-Yip Chun
- T2-P3. Contribution of isotopes production facilities and nuclear power plants to Xe-133 worldwide atmospheric background
Pascal Achim, Gilbert Le Petit
- T2-P4. Study on underground vacancy detection based on vertical gravity gradient measurements
Qingbin Wang, Dong Jiang, Yin Chen, Dongming Zhao
- T2-P5. Spectral ratios of regional phases recorded at the Dongbei Seismic Network for the North Korean explosions in 2006 and 2009
Hans Israelsson, Kin-Yip Chun
- T2-P6. CTBT related activities of Turkish National Data Center
Nurcan Meral Ozel et al.
- T2-P7. Features of geomagnetic anomalies
Dmitry A. Sagaradze, Natalia V. Rachkova
- T2-P8. Discrimination of natural earthquakes and artificial explosions in 2010, North Korea
Yun Kyung Park, Sung Tae Nam, Young Woong Kim
- T2-P9. Tritium in the air as an indicator of nuclear testing venues
Sergey Lukashenko, Oxana Lyakhova
- T2-P10. Design based approach to OSI sampling strategy
Antonietta Rizzo, Paolo Bartolomei
- T2-P11. Nuclear test fall-out determination by plutonium isotopic composition
Dalis Baltrunas, Andrius Puzas, Ruta Druteikiene, Vidmantas Remeikis
- T2-P12. Finding and identifying radioactive material by airborne search for OSI deployment
Theo Köble et al.
- T2-P13. The use of explosion aftershock probabilities for on-site inspection planning, deployment, and reporting
Sean Ford, Peter Labak, Gideon Leonard, Albert Smith, Jerry Sweeney
- T2-P14. Analysis and modeling of shear waves generated by explosions at the San Andreas Fault Observatory at depth
Justin L. Rubinstein, Fred Pollitz, William L. Ellsworth
- T2-P15. Emerging science for nuclear test monitoring
Joanna Ingraham, Justin McIntyre
- T2-P16. On-site inspection strategy for subsurface detection of noble gases from an underground nuclear test
Charles R. Carrigan, Yunwei Sun, Gardar Johannesson
- T2-P17. Analysis into the evolution of radionuclide inventory with time for some scenarios of nuclide migration into the atmosphere after a nuclear test
Andrey Ustselemov
- T2-P18. Proficiency test program for CTBT radionuclide laboratories: An update
Emerenciana Duran, Kirill Khrustalev, Matthias Auer
- T2-P19. Proposal for an information-led search logic during an on-site inspection
George W. Tuckwell, Luis R. Gaya-Piqué
- T2-P20. Barkhan (Baluchistan) earthquakes of June 26 and July 12, 1999: Source process from teleseismic body waves
Mohammad Tahir, Tariq Mahmood Taiq
- T2-P21. Exploitation of the IMS and other data for a comprehensive, advanced analysis of the North Korean nuclear tests
Benjamin Kohl, John R. Murphy, Jeffry Stevens, Theron J. Bennett
- T2-P22. Stable coda estimates from P and S codas at regional and near-teleseismic distances
Kevin Mayeda
- T2-P23. Unstructured grid simulation of the atmospheric pressure-driven subsurface xenon-tracer transport
Robert Annewandter, Karen Schmid

Theme 3. Advances in sensors, networks and observational technologies (cont.)

- T3-P1. Characterization of 2010 Mentawai earthquake based on source mechanism analysis by using regional and CTBT monitoring station
Sugeng Pribadi, Nanang T. Puspito, Hendar Gunawan
- T3-P2. Analysis of the first arrival of P-wave of Ina-TEWS and CTBT stations to support earthquake early warning
Hendar Gunawan, Gunawan Ibrahim, Sugeng Pribadi
- T3-P3. Detection of tsunami and T-phase by the Dense Oceanfloor Network System for Earthquakes and Tsunamis DONET
Seiji Tsuboi et al.
- T3-P4. A technique to determine the self-noise of seismic sensors for performance screening
Horst Rademacher, Darren Hart, Cansun Guralp
- T3-P5. Seismic noise analysis at some broadband stations of Egyptian National Seismological Network
Abd El-Aziz Khairy Abd El-Aal
- T3-P6. Improvement of the equipment for measurements of atmospheric xenon radionuclides
Sergei Pakhomov, Yuri Dubasov
- T3-P7. Using the Garni IMS auxiliary station records in operation of the next-generation real-time seismic intensity display system in Armenia
Valery Arzumanyan
- T3-P8. Seismic networking in the south Pacific region
Faatali Malaefatu Leavasa, Lameko Talia
- T3-P9. Developing a block diagram for the earthquake warning device
Konstantin Kislov, Valentin Gravirov
- T3-P10. New tiltmeter developed in Institute of Physics of the Earth of the Russian Academy of Sciences
Sergey Matcievsky, Igor Vasilev, Valentin Gravirov
- T3-P11. Superbroadband seismometer for seismomonitoring networks and a tsunami notification service
Sergey Matcievsky, Valentin Gravirov, Konstantin Kislov
- T3-P12. Modelling global seismic network detection threshold
Mark Prior, David Brown
- T3-P13. Equipment testing for IMS waveform technologies
Yuri Starovoit, Patrick Grenard, Georgios Haralabus, Darren Hart, Peter Melichar
- T3-P14. The IDC seismic, hydroacoustic and infrasound global low and high noise models
David Brown, Lars Ceranna, Pierrick Mialle, Mark Prior, Ronan Le Bras
- T3-P15. Long term - real time background noise monitoring around BR235
Nurcan Meral Ozel et al.
- T3-P16. Bayesian waveform inversion for moment tensors of local earthquakes in the Pannonian basin
Zoltán Wéber
- T3-P17. Romanian infrasound structure: design and data processing
Constantin Ionescu, Daniela Ghica
- T3-P18. Analysis of the background noise at the auxiliary seismic station Muntele Rosu
Daniela Ghica, Bogdan Grecu, Constantin Ionescu, Mihaela Popa
- T3-P19. The GSN data quality initiative
Kent Anderson
- T3-P20. Transportable Xenon Laboratory
Timothy Stewart, Robert Thompson, Harry Miley
- T3-P21. Towards an effective on-site inspection – A geophysical view
Kristof L. Kakas, Tibor Guthy, Endre Hegedűs
- T3-P22. Ionospheric detection of the recent North Korean underground nuclear test
Jihye Park, Dorota A. Grejner-Brzezinska, Yu (Jade) Morton, Ralph R.B. von Frese, Luis R. Gaya-Piqué
- T3-P23. Infrasound monitoring of explosive eruptions at Shinmoe volcano in Japan
Hee-Il Lee, Il-Young Che
- T3-P24. Development of the IMS facilities, experimental seismic and infrasound observation in Ukraine
Igor Kachalin, Aleksander Liashchuk
- T3-P25. Real time seismic monitoring in South-Central Europe: data sharing, cooperation and improvements of the OGS NI Seismic Network
Damiano Pesaresi, Nikolaus Horn, Pier Luigi Bragato, Giorgio Duri
- T3-P26. The “Hellenic Unified Seismological Network-HUSN”: its implication in the accurate monitoring of the seismicity in the broader area of Aegean Sea
Dimitrios Papanastassiou, Christos Evangelidis, Kostantinos Makropoulos
- T3-P27. Studies of vibrations from wind turbines in the vicinity of the Eskdalemuir (AS104) IMS station
Sam Toon, Rachel Westwood, Peter Styles

Theme 3. Advances in sensors, networks, and observational technologies (cont.)

- T3-P28. Re-analysis of noble gas samples from IMS stations at laboratories – a review of the results since 2007
Herbert Gohla
- T3-P29. Development of a cosmic veto device to improve detection limits of CTBT detectors
Jonathan Burnett, Ashley Davies
- T3-P30. SAUNA - Equipment for low level measurement of radioactive xenon
Helena Berglund
- T3-P31. Integrating infrasonic arrays into the Utah Regional Seismic Network
Relu Burlacu, Kristine L. Pankow, Keith Koper, Brian W. Stump, Chris Hayward
- T3-P32. Gamma radiation survey techniques for on-site inspection
Xiaoyuan Han, Mingyan Jia, Huibin Li, Tiancheng Feng
- T3-P33. Analysis of network QA/QC and Level 5 samples at certified laboratories
Dongmei Han
- T3-P34. Mobile radiation measurements for on-site inspections
Mika Nikkinen, Markku Kettunen
- T3-P35. AXS: A xenon sampler aiming at long-time stability
Shan Wu, Zhanying Chen, Changyun Zhang
- T3-P36. Possible improvements of the detection capability of the CTBT monitoring system using active Compton suppression techniques
Mika Nikkinen et al.
- T3-P37. Operation of the International Monitoring System network
Timothy Daly, Staff IDC/Operations Section
- T3-P38. Design challenges for a noble gas sampler
Gregory Feucht
- T3-P39. A new vision on data acquisition and processing
Ali Safepour, Reza Rezaei
- T3-P40. Socorro Island's IMS T-stations record the modification of the strain field due to the passage of tsunamis
Alexander Poplavskiy, Ronan Le Bras
- T3-P41. Can OSI use off the shelf techniques?
Mordechai Melamud, Luis R. Gaya-Piqué
- T3-P42. Miniature optical seismic sensors for monitoring applications
Caesar Garcia
- T3-P43. Technology foresight for the Provisional Technical Secretariat of the CTBTO
Patrick Grenard, Philippe Steeghs
- T3-P44. GCI-II: How CTBT data is transmitted around the globe
James Crichton
- T3-P45. Coseismic tectonomagnetic signals as a tool for seismic risk reduction
Farshed Karimov
- T3-P46. Development of CZT pixel detectors
Michael Fiederle
- T3-P47. Earthworm: A powerful and open-source real-time earthquake and infrasound monitoring software tool
Sidney Hellman, Paul Friberg, Ilya Dricker, Stefan Lisowski
- T3-P48. Exploring the potential of satellite imagery for CTBT verification
Gopaldaswamy, Irmgard Niemeyer
- T3-P49. IS42: A new IMS certified infrasound station in the Graciosa Island, Azores, Portugal
Nicolau Wallenstein et al.

Theme 4. Advances in computing, processing and visualization for verification applications

- T4-P1. Network performance of the CTBT monitoring regime
Jerry Carter et al.
- T4-P2. A system for automatic detection of seismic phases in high noise conditions
Valentin Gravurov, Konstantin Kislov
- T4-P3. Comparison of regional seismic phases interpretation in REB and KazNDC bulletins
Zlata Sinyova, Natalya Mikhailova
- T4-P4. Focal depth estimation through polarization analysis of the Pn coda
Eystein S. Husebye, Tatiana Matveeva
- T4-P5. Evaluating OSI aftershock monitoring efficiency
Mikhail Rozhkov, Alexander Kushnir, Alexander Varypaev
- T4-P6. Automatic clustering of seismic events in an on-site inspection scenario
Benjamin Sick, Manfred Joswig
- T4-P7. Large earthquakes' secondary phenomena and their space-ground geodata assessment
Farshed Karimov, Mirzo Saidov
- T4-P8. Fuzzy ARTMAP: A neural network for fast stable incremental learning and seismic event discrimination
El Hassan Ait Laasri, Es-Saïd Akhouayri, Driss Agliz, Abderrahman Atmani
- T4-P9. Application of detection probabilities in the IDC Global Phase Association Process
Tormod Kvaerna, Frode Ringdal, Jeffrey Given
- T4-P10. Radioxenon analysis methods and atmospheric transport modelling to distinguish civilian from nuclear explosion signals
Michael Schoeppner
- T4-P11. Listening to the SEL: is the ear easier to train than the eye?
Heidi Anderson Kuzma, Emerson Arehart
- T4-P12. Explanation of the nature of coherent low-frequency signal sources recorded by the monitoring station network of the NNC RK
Alexandr Smirnov, Vitaliy Dubrovin, Láslo G. Evers, Steven J. Gibbons
- T4-P13. Assessing the improvement capabilities of a generative model 3C-station detector algorithm for the IMS
Carsten Riggelsen
- T4-P14. Real time cross correlation estimated program and its application to processing seismic data
Es-Saïd Akhouayri, El Hassan Ait Laasri, Driss Agliz, Abderrahman Atmani
- T4-P15. Advances in kernel-based classification of IMS hydroacoustic signals
Matthias Tuma, Christian Igel, Mark Prior
- T4-P16. Stockwell transform fingerprints of earthquake waveforms
Matthew J. Yedlin, Yochai Ben Horin
- T4-P17. Travel time corrections via local regression
Christopher Lin, Stuart Russell
- T4-P18. Challenges of infrasound analysis in IDC operations
Paulina Bittner et al.
- T4-P19. Signal-based Bayesian monitoring
Stuart Russell, Nimar Arora, Stephen Myers, Erik Sudderth
- T4-P20. Threshold based algorithms for iron buried objects detection using magnetic field mapping
Abdelhalim Zaoui, Saïd Mitt, Amar Mesloub
- T4-P21. Categorization of infrasound detections
Pierre Gaillard, Julien Vergoz, Alexis Le Pichon
- T4-P22. Metrics to determine the effectiveness of computer learning and data mining algorithms developed to aid automatic processing at the International Data Centre (IDC)
Heidi Anderson Kuzma, Ronan J. Le Bras
- T4-P23. Case study of adding an F-trace algorithm to Geotool
Vera Miljanovic, Jeffrey Given, David Bowers
- T4-P24. Analysis of the representativeness of backward atmospheric transport modelling at different resolutions at the Takasaki RN38 IMS station
Delia Arnold, David Pino, Arturo Vargas, Petra Seibert
- T4-P25. Contribution to the study of seismic background noise application to the region of Agadir
Abderrahman Atmani, Es-saïd Akhouayri, Driss Agliz, El Hassan Ait Laasri
- T4-P26. Performance of an atmospheric source location algorithm at CTBTO
Monika Krysta, John Coyne
- T4-P27. Investigating coupled wave interaction between the atmosphere and near-surface
Wayne N. Edwards, Peter G. Brown, Phil A. Bland, David McCormack

Theme 4. Advances in computing, processing and visualization for verification applications (cont.)

- T4-P28. Modelling trace species transport and scavenging in deep convective cloud using a general circulation
Philippe Heinrich, Romain Pilon
- T4-P29. Removing periodic noise: Improved procedures
Felix Gorschlüter, Jürgen Altmann
- T4-P30. An alternative approach to waveform event definition criteria
Robert Pearce, Ivan Kitov, John Coyne
- T4-P31. REB events recorded with all waveform technologies
Peder Johansson, Pierrick Mialle
- T4-P32. A novel technique for phase classification and association based on integral and local features of seismograms
Chengliu Zhang et al.
- T4-P33. Monitoring underground nuclear tests by multi-spectral satellite imagery: Sensitive bands and detecting method
Weidong Yan, Hui Bian, Xinlu Ma
- T4-P34. The study of seismic event screening methods of IDC SEL3
Wei Tang, Junmin Liu, Haijun Wang, Xiaoming Wang
- T4-P35. Introducing noble gas data into IDC operations
Mika Nikkinen et al.
- T4-P36. Methods for monitoring analyst performance
Robert Pearce, Spiro Spiliopoulos
- T4-P37. A regional investigation into the event location threshold using stations of the IMS
Spiro Spiliopoulos, Robert G. Pearce, MDA Analysts
- T4-P38. Mitigation of IDC waveform analysts' increasing workload
Robert Pearce, Ivan Kitov
- T4-P39. Testing and integration of infrasound threshold monitoring software in the CTBTO operational environment
Alexis Le Pichon et al.
- T4-P40. Validation process of the detector response for noble gas systems
Abdelhakim Gheddou, Kirill Khrustalev, Elisabeth Wieslander
- T4-P41. Xe release calculation from BNPP
Mohammad Javad Safari, Mohammad Sabzian
- T4-P42. Towards an automatic waveform correlation detector system
Megan Slinkard
- T4-P42. NET-VISA model and inference improvements
Nimar Arora, Stuart Russell, Paul Kidwell, Erik Sudderth

Theme 5. Creating knowledge through partnerships, training and information/communication technology

- T5-P1. More and more data formats, is it a plus?
Walid Mohammad
- T5-P2. The construction and development of the radionuclide station (RN42) at Tanah Rata
Alawiah Musa et al.
- T5-P3. The recently acquired broadband and strong motion sensors network in Ghana and the access to CTBTO's data and products will help Ghana to update its National Seismic Hazard Assessment for a sustainable infrastructural development
Nicholas Opoku
- T5-P4. The CTBTO link to the International Seismological Centre
István Bondár, Dmitry Storchak, Ben Dando, James Harris
- T5-P5. Datasets for monitoring research at the International Seismological Centre
István Bondár, Dmitry Storchak, James Harris, Ben Dando
- T5-P6. New ground truth events in Central Asia
Natalya Mikhailova, Zlata Sinyova
- T5-P7. International Training Center in support of the CTBTO
Natalya Mikhailova, Nadezhda Belyashova, Johannes Schweitzer, Svein Mykkeltveit
- T5-P8. Building capacity to sustain disaster management and preparedness through civil applications of CTBTO's global verification regime
Simon Leonard, Clement Mdoe, Alex Muhulo, Mlwilo Nolasco
- T5-P9. Experiences gained by NDC Austria during the NDC Preparedness Exercise 2010
Ulrike Mitterbauer, Gerhard Wotawa
- T5-P10. Knowledge exchange and cooperation between National Data Centers (NDC)
Lotfi Khemiri, Mohamed Kallel, Atef Blel, Ulrike Mitterbauer, Gerhard Wotawa
- T5-P11. The new digital seismic network KRNET: Perspectives and capacity development
Anna Berezina, Jan Fyen, Kanatbek Abdrakhmatov, Johannes Schweitzer
- T5-P12. The Republic of Mali's participation in the CTBT verification regime
Emmanuel Thera
- T5-P13. CTBTO capacity building follow-up visits in Africa
Misrak Fisseha, John Coyne, Belkacem Djermouni, Gadi Turyomurugyendo, Lassina Zerbo
- T5-P14. The "Global Seismological Observation" training course
Tatsuhiko Hara
- T5-P15. Advances in data distribution systems, high-level product generation, and the measurement of data quality metrics at the IRIS Data Management Center
Timothy Keith Ahern
- T5-P16. Database of digitized historical seismograms for nuclear tests monitoring tasks
Inna Sokolova, Iraida Aleschenko, Abylay Uzbekov
- T5-P17. Identification of industrial blasts in seismic bulletins for Kazakhstan Territory
Inna Sokolova, Natalya Mikhailova, Alexander Velikanov, Irina Aristova
- T5-P18. Creating a seismic network and knowledge through collaborations, training in Zimbabwe
Kwangwari Marimira
- T5-P19. IMS sustainment for an operational, reliable and credible IMS - a close coordinated and joint effort achievable goal
Natalie Brely, MFS Section Staff
- T5-P20. IMS sustainment – Modeling and logistic support analysis – from theory to reality sustainment
Natalie Brely, Jean-Pierre Gautier, MFS/LS Unit Staff
- T5-P21. ORFEUS: Facilitating seismological observatory cooperation and open data access
Torild van Eck, Reinoud Sleeman, Gert-Jan van den Hazel, Alessandro Spinuso, Luca Trani
- T5-P22. Cooperative seismology between Michigan State University in the USA, and Russia
Kevin Mackey, Kazuya Fujita, Larissa Gounbina, Sergei Shibaev
- T5-P23. Processing results from the infrasound campaign in the Eastern Mediterranean
Pierrick Mialle, David Brown, Jeffrey Given, Paulina Bittner, John Coyne
- T5-P24. Regional infrasound observations from the Sayarim 2011 experiment
Jelle Assink et al.

Theme 5. Creating knowledge through partnerships, training and information/communication technology (cont.)

- T5-P25. Potentials of using radionuclide monitoring derived-data for scientific research
Fe dela Cruz, Teofilo Y. Garcia, Ana Elena L. Conjares, Adelina Bulos
- T5-P26. Regional cooperation in science and technology capacity building for IMS and CTBT verification regime
Isaiah Tumwikirize Tumwikirize
- T5-P27. Using infrasound data of Nairobi Station (IS32) to study Bubuda landslide in eastern Uganda
Isaiah Tumwikirize Tumwikirize
- T5-P28. Government initiatives and international cooperation in seismology providing knowledge and training in Namibia
Bufelo Lushetile, Dave Hutchins
- T5-P29. National earthquake monitoring and tsunami early warning system in Thailand
Sumalee Prachuab
- T5-P30. Science, technology and values in the context of global threats
Graham Parkes
- T5-P31. Large-scale explosion sources at Sayarim, Israel, for infrasound calibration of the International Monitoring System
Yefim Gitterman, Jeffrey Given, John Coyne, Lassina Zerbo, Rami Hofstetter
- T5-P32. Problematics of the remote consequences of influence of amazing factors of the nuclear weapon on direct participants of military-nuclear actions
Vladimir Bencianov
- T5-P33. Partnership in multidisciplinary research in earth and polar sciences: the contribution of the European Science Foundation
Paola Campus, Roberto Azzolini

Tohoku and Fukushima

- JS-P1. Pressure signals on IMS hydrophones at Wake Island due to the M9.0 event on March 11th 2011 off the coast of Japan
Mark Prior, David Salzberg
- JS-P2. Assessment of release scenarios for the Fukushima Dai-ichi Nuclear Power Plant accident
Rick Tinker, Blake Orr, Marcus Grzechnik, Stephen Solomon, David Jepsen
- JS-P3. Source modeling earthquake as tsunami generation in Japan (East of Pacific Plate)
Wiko Setyonegoro
- JS-P4. Experimental check of work on an adaptive algorithm for detection of onset times of low amplitude seismic phases based on time series analysis with use of Japan earthquakes data records in March 2011
Valentin Gravrov, Konstantin Kislov, Tatiana Ovchinnikova
- JS-P5. The International Data Centre analysis of the aftershock sequence following the March 11, 2011 earthquake off the coast of Japan
Spiro Spiliopoulos, IDC Waveform Analysts
- JS-P6. Bulgarian experience with Fukushima event in March 2011
Rositza Kamenova-Totzeva, Victor Badulin
- JS-P7. Infrasound signals excited by upheaval and subsidence of ocean surface during the tsunami genesis related to 11 March event
Nobuo Arai, Takahiko Murayama, Makiko Iwakuni, Mami Nogami
- JS-P8. Detection of aerosol radionuclides in the United States following the Fukushima nuclear accident
Harry Miley et al.
- JS-P9. Some measures to face potential impacts of Fukushima nuclear accident in Burkina Faso
Desire Marie Alexis Belemsaga

I. Scientific Concluding Session (Grosser Redoutensaal)

Perspective of the scientific community, the policy makers and the CTBTO Provisional Technical Secretariat

1. PAUL G. RICHARDS

Mellon Professor of the Natural Sciences (Emeritus), Columbia University
Lamont-Doherty Earth Observatory, United States of America

2. JAY ZUCCA

Programme Director for Nonproliferation
Global Security Principal Directorate
Lawrence Livermore National Laboratory, United States of America
and Task Leader for Technology Refreshment
Working Group B of the CTBTO Preparatory Commission

3. LASSINA ZERBO

Director
International Data Centre (IDC) Division, Provisional Technical Secretariat of the CTBTO Preparatory Commission
and Project Executive for the CTBT: S&T2011 Conference

II. Closing Ceremony (Dachfoyer)

4. Awarding of Prizes

- Science for Diplomats Award
- Best Oral Presentation
- Best Poster Presentation
- Best Young Scientist

5. Closing Remarks (to be determined)

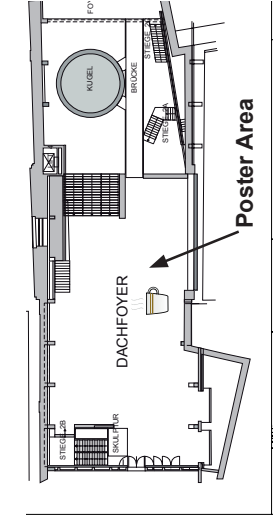
6. Closing Remarks

HE Mr Tibor TÓTH
Executive Secretary
Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization

7. Reception

HOFBURG FLOOR PLAN

ROOFTOP FOYER (DACHFOYER)



ROOFTOP FOYER

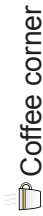
- 1 Poster area
- 2 Globe (Kugel)

FIRST FLOOR

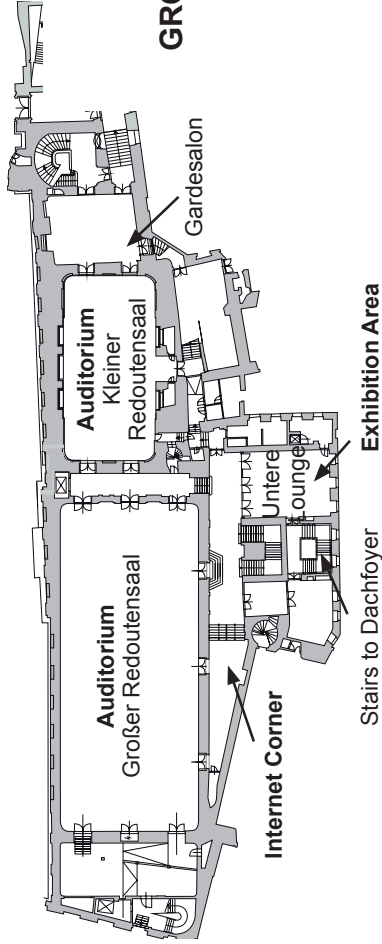
- 3 Poster area • Mittlere Lounge

MEZZANINE

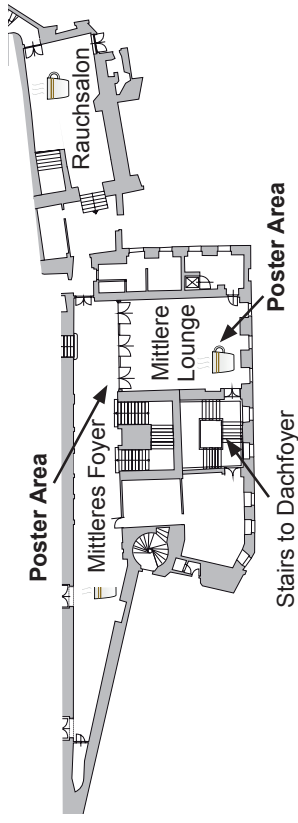
- 4 Auditorium • Großer Redoutensaal
- 5 Auditorium • Kleiner Redoutensaal
- 6 Exhibition area • Untere Lounge
- 7 Gardesalon



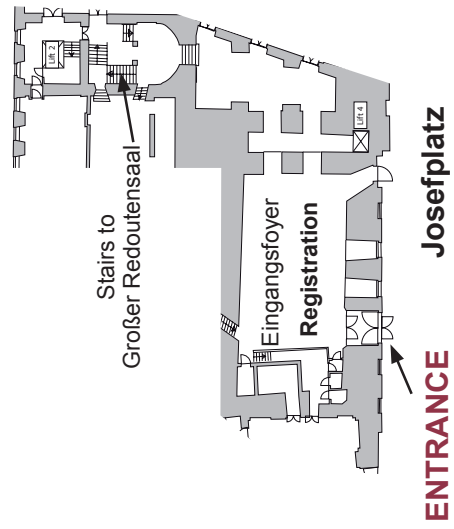
MEZZANINE (MEZZANIN)



FIRST FLOOR (ERSTER STOCK)



GROUND FLOOR (ERDGESCHOSS)



ENTRANCE

Josefplatz