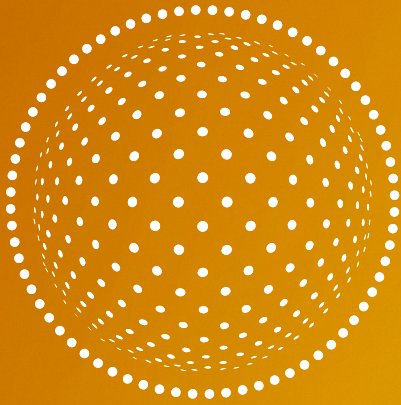


science for security



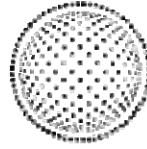
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## PROGRAMME

INTERNATIONAL  
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HOFBURG, VIENNA, AUSTRIA

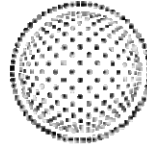




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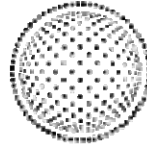
Wednesday, 10 June	<b>DAY 1</b>
	<b>THEME: CTBT VERIFICATION TODAY</b>
9:30- 11:00	<b>Opening Ceremony</b> Choir
	<b>Message from the United Nations Secretary-General</b> <b>His Excellency Mr Ban Ki-moon</b>
	<b>Address</b> <b>His Excellency Dr Michael Spindelegger</b> Federal Minister for European and International Affairs, Austria
	<b>Introductory Address</b> <b>Mr Tibor Tóth</b> Executive Secretary Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization
	<b>Introductory Remarks</b> <b>Dr Ola Dahlman</b> Chairperson International Scientific Studies
11:00- 11:30	<i>Coffee Break</i>
11:30- 12:30	<b>Atmospheric Nuclear Explosions</b> Panellists:  <b>Dr Elisabeth Blanc</b> Commissariat à l'énergie atomique, France  <b>Dr Lars Ceranna</b> Federal Institute for Geosciences and Natural Resources, Germany  <b>Mr Peter Chen</b> World Meteorological Organization  <b>Dr Thierry Heritier</b> Commissariat à l'énergie atomique, France



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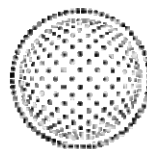
Wednesday, 10 June	<b>DAY 1 (Continued)</b>
11:30- 12:30 (cont.)	<p><b>Dr Wolfgang Jans</b> Federal Armed Forces Research Institute for Underwater Acoustics and Marine Geophysics, Germany</p> <p><b>Prof. Arno Siebes</b> University of Utrecht, Netherlands</p> <p><b>Prof. Peter Suhadolc</b> Secretary General International Association of Seismology and Physics of the Earth's Interior</p> <p><b>Prof. Wolfgang Weiss</b> Bundesamt für Strahlenschutz, Germany</p> <p><b>Moderators:</b></p> <p><b>Prof. Raymond Jeanloz</b> Professor of Astronomy, Earth and Planetary Science, University of California, Berkeley, United States of America</p> <p><b>Ms Susan Watts</b> Science Editor, Newsnight, British Broadcasting Corporation, United Kingdom</p>
12:30- 14:00	<p style="text-align: center;"><i>Lunch Break</i></p>
14:00- 15:00	<p><b>Underwater Nuclear Explosions</b> Panellists:</p> <p><b>Dr Elisabeth Blanc</b> Commissariat à l'énergie atomique, France</p> <p><b>Prof. Hilmar Bungum</b> NORSAR, Norway</p> <p><b>Dr Wolfgang Jans</b> Federal Armed Forces Research Institute for Underwater Acoustics and Marine Geophysics, Germany</p> <p><b>Prof. Nicholas Kyriakopoulos</b> The George Washington University, United States of America</p> <p><b>Dr Harry Miley</b> Pacific Northwest National Laboratory, United States of America</p>



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Wednesday, 10 June	<b>DAY 1 (Continued)</b>
14:00- 15:00 (cont.)	<p><b>Prof. Kiyoshi Suyehiro</b> Integrated Ocean Drilling Program Management International</p> <p><b>Dr Sheila Vaidya</b> Lawrence Livermore National Laboratory, United States of America</p> <p><b>Moderators:</b></p> <p><b>Prof. Raymond Jeanloz</b></p> <p><b>Ms Susan Watts</b></p>
15:00- 16:00	<p><b>Underground Nuclear Explosions</b> Panellists:</p> <p><b>Dr Lars Ceranna</b> Federal Institute for Geosciences and Natural Resources, Germany</p> <p><b>Mr Richard Hogue</b> Meteorological Service of Canada, Environment Canada</p> <p><b>Prof. Nicholas Kyriakopoulos</b> The George Washington University, United States of America</p> <p><b>Dr Anders Ringbom</b> Swedish Defence Research Agency</p> <p><b>Prof. Kiyoshi Suyehiro</b> Integrated Ocean Drilling Program Management International</p> <p><b>Prof. Lynn Sykes</b> Higgins Professor Emeritus Lamont-Doherty Earth Observatory, Columbia University, United States of America</p> <p><b>Dr Sheila Vaidya</b> Lawrence Livermore National Laboratory, United States of America</p> <p><b>Moderators:</b></p> <p><b>Prof. Raymond Jeanloz</b></p> <p><b>Ms Susan Watts</b></p>
16:00- 16:30	<p><i>Coffee Break</i></p>



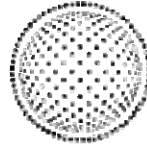
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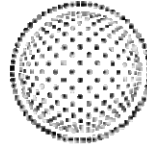
Wednesday, 10 June	<b>DAY 1 (Continued)</b>
16:30- 17:30	<p><b>On-Site Inspection</b> Panellists:</p> <p><b>Dr Massimo Chiappini</b> Istituto Nazionale di Geofisica e Vulcanologia, Italy</p> <p><b>Mr Mohammad Hassan Daryaei</b> Allameh Tabatabai University, Islamic Republic of Iran</p> <p><b>Dr Edward Ifft</b> Georgetown University, United States of America</p> <p><b>Dr Zhenfu Li</b> Northwest Institute of Nuclear Technology, China</p> <p><b>Dr Harry Miley</b> Pacific Northwest National Laboratory, United States of America</p> <p><b>Dr John Walker</b> Foreign and Commonwealth Office, United Kingdom</p> <p><b>Dr Jay Zucca</b> Lawrence Livermore National Laboratory, United States of America</p> <p><b>Moderators:</b></p> <p><b>Mr Richard Starr</b> Former Ambassador of Australia for Arms Control and Disarmament</p> <p><b>Mr Robert Frye</b> Managing Director, Whistling Communications LLC, United States of America</p>
17:30- 18:30	<p><b>Readiness and Capability of the CTBT Verification Regime</b> Panellists:</p> <p><b>Dr Yves Caristan</b> Director, Centre d'études nucléaires de Saclay, Commissariat à l'énergie atomique, France</p> <p><b>Mr Gideon Frank</b> Vice Chair Israel Atomic Energy Commission</p>



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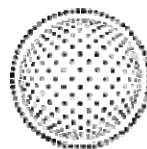
Wednesday, 10 June	<b>DAY 1 (Continued)</b>
17:30- 18:30 (cont.)	<p><b>Mr Kinji Koyama</b> Adjunct Research Fellow Center for the Promotion of Disarmament and Non-Proliferation, Japan</p> <p><b>Dr Zhenfu Li</b> Northwest Institute of Nuclear Technology, China</p> <p><b>Mr Richard Starr</b> Former Ambassador of Australia for Arms Control and Disarmament</p> <p><b>Dr Bryan Wells</b> Head of Strategic Technologies Ministry of Defence, United Kingdom</p> <p><b>Moderators:</b></p> <p><b>Dr Ola Dahlman</b> Chairperson International Scientific Studies</p> <p><b>Ms Keiko Iizuka</b> Deputy Political Editor Yomiuri Shimbun, Japan (Visiting Fellow, The Brookings Institution, United States of America)</p>



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Thursday, 11 June	<b>DAY 2</b>
<b>THEME: SCIENCE AND THE CTBT</b>	
09:00- 09:30	<p><b>SEISMOLOGY</b></p> <p><b>Key Lecture: CTBTO Contribution to the Global Earthquake Data Collection – A View from the International Seismological Centre</b> <b>Dr Dmitry A. Storchak</b> International Seismological Centre</p> <p><b>Introduced by: Prof. Zhongliang Wu</b> China Earthquake Administration</p> <p><b>Key Lecture: On Seismic Monitoring for Nuclear Explosions</b> <b>Prof. Paul G. Richards</b> Mellon Professor of the Natural Sciences, Emeritus Lamont-Doherty Earth Observatory, Columbia University, United States of America</p> <p><b>Introduced by: Prof. Barbara Romanowicz</b> University of California, Berkeley, United States of America</p>
09:30- 10:00	<p><b>HYDROACOUSTICS</b></p> <p><b>Key Lecture: Long-Range Ocean Acoustic Propagation, T-Phases, Earthquakes and Hydroacoustic Networks</b> <b>Dr Ralph A. Stephen</b> Senior Scientist Woods Hole Oceanographic Institution, United States of America</p> <p><b>Introduced by: Prof. Kiyoshi Suyehiro</b> Integrated Ocean Drilling Program Management International</p>
10:00- 10:30	<p><b>DATA MINING AND DATA EXPLOITATION</b></p> <p><b>Key Lecture: Detection, Classification, and Association, Not Necessarily in That Order</b> <b>Prof. Stuart Russell</b> Chair of Computer Science University of California, Berkeley, United States of America</p> <p><b>Introduced by: Dr Sheila Vaidya</b> Lawrence Livermore National Laboratory, United States of America</p>

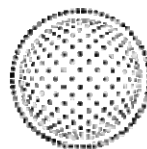


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Thursday, 11 June	DAY 2 (Continued)
10:30- 11:00	<b>SYSTEM PERFORMANCE</b>  <b>Key Lecture: System Performance of the International Monitoring System – Use It or Lose It</b> <b>Dr Ralph Alewine</b> President Seimetrics International Corporation, United States of America  <b>Introduced by: Prof. Nicholas Kyriakopoulos</b> The George Washington University, United States of America
11:00- 11:15	<i>Coffee Break</i>
11:15- 13:00	<b>Tour of Posters</b> (Seismology, Hydroacoustics, Data Mining and Data Exploitation and System Performance)
13:00- 14:30	<i>Lunch Break</i>
14:30- 15:00	<b>INFRASOUND</b>  <b>Key Lecture: Infrasound Technology for Verification and Beyond</b> <b>Dr Alexis Le Pichon</b> Senior Scientist Commissariat à l'énergie atomique, France  <b>Introduced by: Dr Lars Ceranna</b> Federal Institute for Geosciences and Natural Resources, Germany
15:00- 15:30	<b>ON-SITE INSPECTION</b>  <b>Key Lecture: On-Site Inspections: Past Lessons – Future Challenges</b> <b>Dr Demetrius Perricos</b> Former Acting Executive Chairman United Nations Monitoring, Verification and Inspection Commission  <b>Introduced by: Dr Massimo Chiappini</b> Istituto Nazionale di Geofisica e Vulcanologia, Italy

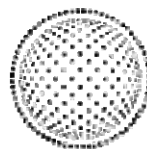




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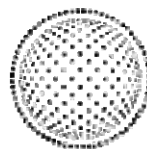
Thursday, 11 June	<b>DAY 2 (Continued)</b>
15:30- 16:00	<b>RADIONUCLIDE</b>  <b>Key Lecture: The Future of Monitoring Radionuclides for the CTBT Verification Regime</b> <b>Prof. David Hafemeister</b> Center for International Security and Cooperation, Stanford University, United States of America  <b>Introduced by: Dr Harry Miley</b> Pacific Northwest National Laboratory, United States of America
16:00- 16:15	<i>Coffee Break</i>
16:15- 16:45	<b>ATMOSPHERIC TRANSPORT MODELLING</b>  <b>Key Lecture: Recent Developments in Atmospheric Transport Modelling and Source Identification</b> <b>Dr Andreas Stohl</b> Senior Scientist Norwegian Institute for Air Research  <b>Introduced by: Mr Richard Hogue</b> Meteorological Service of Canada, Environment Canada
16:45- 17:15	<b>IMPLICATIONS OF SCIENTIFIC DEVELOPMENTS ON THE CTBT</b> Panellists:  <b>Mr Federico Guendel</b> Director, International Monitoring System Division, Provisional Technical Secretariat, CTBTO Preparatory Commission  <b>Mr Boris Kvok</b> Director, On-Site Inspection Division, Provisional Technical Secretariat, CTBTO Preparatory Commission  <b>Mr Lassina Zerbo</b> Director, International Data Centre Division, Provisional Technical Secretariat, CTBTO Preparatory Commission
17:15- 18:30	<b>Tour of Posters</b> (Infrasound, On-Site Inspection, Radionuclide and Atmospheric Transport Modelling)
18:30- 20:00	<b>Reception hosted by His Excellency Dr Michael Spindelegger, Federal Minister for European and International Affairs, Austria</b>



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Friday, 12 June	DAY 3
	<b>THEME: DIALOGUE FOR THE FUTURE</b>
09:00- 10:00	<p><b>Reflections on Poster Sessions</b> Panellists:</p> <p><b>Dr Elisabeth Blanc</b> Commissariat à l'énergie atomique, France</p> <p><b>Dr Massimo Chiappini</b> Istituto Nazionale di Geofisica e Vulcanologia, Italy</p> <p><b>Dr Thierry Heritier</b> Commissariat à l'énergie atomique, France</p> <p><b>Mr Richard Hogue</b> Meteorological Service of Canada, Environment Canada</p> <p><b>Dr Wolfgang Jans</b> Federal Armed Forces Research Institute for Underwater Acoustics and Marine Geophysics, Germany</p> <p><b>Prof. Barbara Romanowicz</b> University of California, Berkeley, United States of America</p> <p><b>Prof. Arno Siebes</b> University of Utrecht, Netherlands</p> <p><b>Prof. Wolfgang Weiss</b> Bundesamt für Strahlenschutz, Germany</p> <p><b>Moderator:</b></p> <p><b>Mr Horst Rademaker</b> Science Correspondent, Frankfurter Allgemeine Zeitung, Germany</p>
10:00- 10:45	<p><b>Capacity Building</b></p> <p><b>Presentations by:</b></p> <p><b>Dr Ana-María Cetto</b> Deputy Director General for Technical Cooperation International Atomic Energy Agency</p> <p><b>Dr Sergio Barrientos</b> Universidad de Chile, Chile</p>



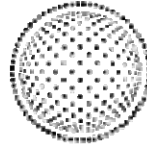
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Friday, 12 June	DAY 3 (Continued)
10:00- 10:45 (cont.)	<p><b>Dr Gerhard Graham</b> Executive Manager Council for Geoscience, South Africa</p> <p><b>Dr Mazlan Othman</b> <b>Dr Hans J. Haubold</b> United Nations Office for Outer Space Affairs</p> <p><b>Dr Hugo Yepes</b> Director Instituto Geofisico, Escuela Politecnica Nacional, Ecuador</p>
10:45- 11:00	<i>Coffee Break</i>
11:00- 12:00	<p><b>Science for Security</b></p> <p><b>Presentation by:</b> <b>Academician Evgeny N. Avrorin</b> Russian Academy of Sciences Scientific Director Emeritus Russian Federal Nuclear Center All-Russian Scientific Research Institute of Technical Physics, Russian Federation</p> <p><b>Presentation by:</b> <b>Prof. Raymond Jeanloz</b> US National Academy of Sciences Department of Astronomy and Earth and Planetary Sciences, University of California, Berkeley, United States of America</p>
12:00- 13:30	<p><b>Dialogue for the Future</b> Panellists:</p> <p><b>Mr Tibor Tóth</b> Executive Secretary Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization</p> <p><b>Academician Evgeny N. Avrorin</b> Russian Academy of Sciences Scientific Director Emeritus Russian Federal Nuclear Center All-Russian Scientific Research Institute of Technical Physics, Russian Federation</p>



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Friday, 12 June	<b>DAY 3 (Continued)</b>
12:00- 13:30 (cont.)	<p><b>Prof. Raymond Jeanloz</b> U.S National Academy of Sciences Department of Astronomy, Earth and Planetary Science, University of California, Berkeley, United States of America</p> <p><b>Dr Harsh K Gupta</b> Vice-President International Union of Geodesy and Geophysics</p> <p><b>Dr Hein Haak</b> Director Department of Climate and Seismology Royal Netherlands Meteorological Institute</p> <p><b>Moderator:</b></p> <p><b>Mr Robert Frye</b> Managing Director, Whistling Communications LLC, United States of America</p>

**END OF CONFERENCE**