Seismology without boundaries

PROGRAM

European Seismological Commission
33rd General Assembly
19–24 August 2012

Young seismologist training course
25–30 August 2012

MOSCOW, OBNINSK, RUSSIA
Dear colleagues,
Dear guests,
Ladies and gentlemen!

On behalf of the Organizing Committee of the thirty-third General Assembly of the European Seismological Commission I am delighted to welcome you in Moscow in the Plenary Hall of the Presidium of the Russian Academy of Sciences, instinct with the spirit of scientific thought, vivid discussions and bright discoveries.

Earthquakes do not recognize state boundaries. Strong earthquakes do not bring damage solely to the countries whose territories they choose. They affect the economy of a whole region and sometimes the world itself. This is why we have chosen the words "Seismology without boundaries" as the motto for the ESC General Assembly of the European Seismological Commission 2012. Moscow’s unique geographical location both in Europe and Asia has given an opportunity to scientists not only from Europe but also from other continents of the planet to participate in the Assembly which has significantly increased its representativity.

Russia is a country with a rich seismic history. One of the strongest earthquakes in the world, the Kamchatka earthquake of November 4, 1952, Mw=9.0, took place on Russian territory. Over 25% of Russian area belongs to earthquake zones where seismic quakes of intensity 7 and higher are possible. This territory is home to thousands of cities, towns and villages, large hydro- and heat power stations, nuclear energy objects and facilities of high ecological risk. Thus the problems of seismology are quite relevant for our country.

It is not for the first time that our country is hosting the ESC General Assembly. Two preceding General Assemblies were held in the USSR, in Leningrad (1968) and in Moscow (1984). Twenty eight years have passed since the latest one. During this time the country has undergone drastic political, social and economic changes. Russian seismologists have managed to make a considerable contribution to maintaining and developing the system of seismic observations in Russia, as well as to understanding of physics of the seismic process and prediction of strong earthquakes.

The year 2012 is the 60th anniversary of ESC. We also celebrate the 150th anniversary of academician Boris B. Golitsyn, one of the founders of Russian and global seismology, theorist and inventor of electrodynamic seismograph.

Moscow is the city of numerous world-scale cultural values. The Northern capital of Russia, Saint-Petersburg, is situated only within 600 km from Moscow. The Moscow region also embraces the Golden Ring of Russia – ancient Russian cities Sergiev Posad, Pereslavl-Zalessky, Rostov, Suzdal, Vladimir etc. with picturesque architectural monuments whose museums preserve an enormous number of historic artifacts.

Welcome to Russia!
Welcome to Moscow!

With kind regards,
Alexey Zavyalov
Organizing Committee Chairman
**COMMITTEES**

**ESC Executive Committee**
Steinunn Jakobsdottir, Iceland – ESC President
Alexey Zavyalov, Russia – ESC Vice-President
Jochen Zschau, Germany – ESC Past President
Michel Cara, France – Past Vice President
Marina Garcia Fernandez, Spain – ESC General Secretary
Ina Cecic, Slovenia – Assistant Secretary
Pierre-Yves Bard, France – ESC Executive Committee member
Constantin Ionescu, Romania – ESC Executive Committee member
Stefano Solarino, Italy – ESC Executive Committee member
Peter Suhadolc, Italy – IASPEI Secretary General
Kazuro Hirahara, Japan – ASC President
Adila Ansai, Turkey – EAEE General Secretary
Remy Boszu, France – EMSC
Berner Dost, Netherland – ORFEUS

**Local Organizing Committee**
Dr. Sci. Alexey Zavyalov, ESC Vice-President, Head of Laboratory, IPE RAS, – chairman of LOC;
Prof. Nikolay Laverov, Vice-President of the Russian Academy of Sciences – co-chairman of LOC;
Prof. Victor Orlov, President of the Russian Geological Society, Chairman of the Council of the Federation Committee on Natural Resources and Environmental Protection – co-chairman of LOC;
Prof. Vitaly Adushkin, Institute of Dynamics of Geospheres RAS;
Prof. Mikhail Epov, Director of Institute of Oil Geology and Geophysics, Siberian Branch RAS;
Prof. Alexander Gliko, Academician-secretary of the Earth Sciences Department RAS,
Director of Institute of Physics of the Earth RAS;
Prof. Eugene Gordeev, Director of Institute of Volcanology and Seismology, Far East Branch RAS;
Prof. Alexey Gvishiani, Director of Geophysical Center RAS, Chairman of National Geophysical Committee RAS;
Prof. Boris Levin, Director of Institute of Sea Geology and Geophysics, Far East Branch RAS;
Prof. Alexey Malovichko, Director of Geophysical Survey RAS;
Prof. Nikolay Makhotov, Deputy Academician-Secretary of the Department of Energy, Engineering Industry, Mechanics and Control Processes RAS;
Prof. Gennady Sobolev, Chairman of Scientific Council on Problems of Seismology RAS, IPE RAS;
Prof. Alexander Soloviev, Director of International Institute of Earthquakes Prediction Theory and Mathematical Geophysics RAS;
Dr. Sci. Victor Seleznev, Director of Siberian Branch of Geophysical Survey RAS;
Mrs. Nataliya Usova, “MONOMAX Congresses and Incentives” Ltd

**ESCV2012 Program Committee**
Prof. Gennady Sobolev, Russia – Program Committee Chairman
Dr. Vladislam Smirnov, Russia – Scientific Secretary of Program Committee
Dr. Nina Frolova, Russia
Prof. Alexey Gvishiani, Russia
Prof. Alexey Malovichko, Russia
Prof. Eugeny Rogozhin, Russia
Prof. Alexander Soloviev, Russia
Dr. Stefano Solarino, Italy
Prof. Ruben Tatevosyan, Russia
Prof. Sergey Turuntaev, Russia
Prof. Lev Vinnik, Russia

**GENERAL INFORMATION**

**Registration and Information Desk**
The registration desk will be located on the 1st floor. The information desk will be located on the 2nd floor.

- **Sunday, 19 August**
  - From 1.30 p.m. to 07.00 p.m.
- **Monday, 20 August**
  - From 07.30 a.m. to 09.00 p.m.
- **Tuesday, 21 August**
  - From 08.00 a.m. to 06.30 p.m.
- **Wednesday, 22 August**
  - From 08.00 a.m. to 06.30 p.m.
- **Thursday, 23 August**
  - From 08.00 a.m. to 08.00 p.m.
- **Friday, 24 August**
  - From 08.00 a.m. to 06.00 p.m.

**Secretariat Office**
The Secretariat Office will be located in Room 117 (1th Floor)

**Hotels and tours desks**
Any queries regarding the hotel accommodation and tours should be directed to Monomax Congresses&Incentives LLC who will be managing the hotels and tours desk in the registration area located on the 1st floor throughout the meeting.

**Language**
English is the official language of the meeting.

**Simultaneous Translation**
Simultaneous Translation is not provided.

**Legal disclaimer**
By using the participant’s badge, you accept the following terms of use, which are applicable: Privacy Personal Data (specifically name, address, company or institute, e-mail, telephone number, fax number) provided to GA ESC 2012 by the participant by e-mail and/or using the contact form and/or registration form will be:
- shown partly on the participant’s badge;
- treated by GA ESC in a confidential manner with the Russian Privacy Law.

Assembly name badge must be worn at all times while the participants are in the GA ESC. This badge will serve as your admission to all scientific sessions, the exhibition and any other functions included in your registration fee.

**Privacy policy**

**Badge Color Category**
- **RED** – Participant
- **VINOUS** – Organizing Committee
- **GREEN** – Press
- **ORANGE** – Exhibitor
- **LIGHT GREEN** – Accompanying person
- **BLUE** – Technical Secretariat

**Slide Preview**
Slide preview facilities will be available in the slide preview in Business center, which is located on the 3rd floor (please, follow the signs) and works from 08.00 a.m. to 08:00 p.m. Presenters are kindly requested to submit their slides on a portable the day before the presentation.

**slide preview facilities**

**NOTE**!! When you make a PowerPoint file for your presentation, please be sure that all graphics are embedded in the presentation file. Fonts should be standard fonts such as Times New Roman, Arial or Courier. If non-standard fonts must be used, they should be embedded in the presentation files.

Also, please, set up the slide size for “On-screen show”

"If any animations or sounds are included in the presentation file, please contact the Technical Secretariat in advance by e-mail (esc2012@onlinereg.ru)"

“**All presentations files will be removed from the PC at the conclusion of each session**"
For Presentation

Requirements

Poster

Equipment

Time Allowance

For Presentation

The time allocated for each presentation 15 minutes (12 minutes presentation, 3 minutes for discussion).

Careful time keeping is important for the smooth running of the session. Please make sure not to overrun your allocated time.

Session halls are provided with one Windows laptop computer on which Microsoft PowerPoint is installed (OS: Windows XP, English version; Software: Microsoft PowerPoint 2007) and an LCD (Liquid Crystal Display) projector with resolution no less then 1024X768 dpi.

NOTE!!! You are requested to bring the data of your presentation on a CD-ROM or a USB memory stick, or your own laptop computer and give it to the technical specialist in the Business Center not the Session Halls.

Macintosh will be in the Business Center. Please, do not bring your own PC.

You are requested to bring the data of your presentation on a CD-ROM or a USB memory stick to the slide preview PC in the Business Center (the 3rd floor) and upload it the day before your presentation. Only CD-ROM in Windows format or USB memory stick is acceptable.

The name of the file should be labeled with your name.

Your presentation should be prepared in the Microsoft PowerPoint 2003 or 2007.

The Technical secretariat will supply you with a poster board and scotch. Posters should be displayed on the boards using scotch that will be available at the Poster Presentation Desk. No other adhesive method is permitted on the boards.

All posters will be displayed on 2nd Floor Hall on the venue.

Recommended size poster: format A0, vertical, width 90cm x height 120cm

Poster Number: A5 size (Provided by the Technical secretariat). You can find where you should set-up and removing your own poster.

Set-up and removal times of posters are as follows:

   Set up: 06:00 – 09:00 a.m. Removal: 06:30 – 07:30 p.m.
   Set up: 06:00 – 09:00 a.m. Removal: 06:30 – 07:30 p.m.
3. August 22 (Wed.): Poster Session-3: ES-1, EP-4, EFP-1, SP-1, NIS-1, SHR-10
   Set up: 06:00 – 09:00 a.m. Removal: 06:30 – 07:30 p.m.
   Set up: 08:00 – 09:00 a.m. Removal August 24 (Fri.): 02:00 – 03:00 p.m.

Any posters remaining after 07:30 p.m. will be removed and disposed of by the Technical secretariat.

The Technical secretariat will not be responsible for loss of the poster after removal time.

Venue: 3rd Floor Hall

Working hours:

Monday, 20 August From 08.00 a.m. to 07.00 p.m.
Tuesday, 21 August From 08.00 a.m. to 07.00 p.m.
Wednesday, 22 August From 08.00 a.m. to 07.00 p.m.
Thursday, 23 August From 08.00 a.m. to 07.00 p.m.
Friday, 24 August From 08.00 a.m. to 05.00 p.m.

Wi-Fi is available on the 3rd floor of the venue.

Certificates of Attendance

Certificates of Attendance will be given to each participant on Registration Desk during the Assembly.

Information Desk

Any programme changes or urgent information from the Organizing Committee and Technical Secretariat and private messages will be posted on the Information Desk located on the 3rd floor.

If you should have any questions concerning the hotel accommodation, travel/tours, please visit the Registration Desk.

Social Programme

Ice Breaking Reception
- Saturday, 19 August 2012 from 05.00 p.m. to 07.00 p.m. on 2nd Floor Venue Gala Concert
- Monday, 20 August 2012 from 07.00 p.m. to 08:30 p.m. in Plenary Hall on the 3rd floor Gala Dinner
- Thursday, 23 August 2012 at 08:00 p.m. in the Grand Banquet hall of Restaurant «Sputnik» (Leningky prosp., 38)

Closing Remarks
- Friday, 24 August 2012 from 05.00 p.m. to 06:00 p.m. in Plenary Hall on the 3rd floor

Optional tours & Excursions

Other Meetings

ESC Executive Committee
Sunday, August 19, 2012
14:00 – 15:30 VIP zone
For ESC Executive Committee members

ESC Executive Committee & Local Organizing Committee
Sunday, August 19, 2012
15:30 – 17:00 VIP zone
For ESC Executive Committee and Local Organizing Committee members

EMSC Executive Council
Tuesday, August 21, 2012
13:00 – 14:30 VIP zone
For EMSC Executive Council members

EMSC General Assembly
Wednesday, August 22, 2012
17:30 – 20:00 Green Hall
For EMSC members

ESC Council
Thursday, August 23, 2012
17:30 – 20:00 Green Hall
For ESC Executive Committee, Resolution Committee, Nomination Committee and Title members

Electricity

Electric appliance in Russia work with 220 volts, AC. 50 Hz and plugs conform to the European system of round pins with two holes

Insurance & Liability

ESC does not accept liability for individual medical, travel or personal insurance, and participants are strongly advised to take out their own personal insurance policies in their country or region. Participants in all excursions, tours etc. is a present risk.

Questions

In case you have any questions, please visit the Information or Registration desk.

Accompany

Phone: +7 (495) 726 51 35
Mob. phone: +7 (909) 888 15 58
E-mail: esc2012@onlinereg.ru

Venue: 3rd Floor Hall

Working hours:

Monday, 20 August From 08.00 a.m. to 07.00 p.m.
Tuesday, 21 August From 08.00 a.m. to 07.00 p.m.
Wednesday, 22 August From 08.00 a.m. to 07.00 p.m.
Thursday, 23 August From 08.00 a.m. to 07.00 p.m.
Friday, 24 August From 08.00 a.m. to 05.00 p.m.

Wi-Fi is available on the 3rd floor of the venue.

Certificates of Attendance

Certificates of Attendance will be given to each participant on Registration Desk during the Assembly.
The new building of the Presidium of the Russian Academy of Sciences on the Sparrow Hills
Address: 32 A, Leninsky avenue, Moscow, Russia

General information
The new building of the Presidium of the Russian Academy of Sciences, located on the bank of the Moskva River, has become one of the major architectural Moscow landmarks. Popularly, the RAS headquarter is called “the golden brains” for a typical ornate composition on the roof of the 25-storey building: the geometrical design of glass and anodized aluminum with embossed bronze crown. The erection of the building was conducted in 1970s-80s by the architect J.P. Platnov, who later became the chief architect of the Russian Academy of Sciences. The main building of RAS is one of the city’s architectural dominant and easily visible from the Moscow center and the Sparrow Hills.

Location
The new building of the Presidium of RAS is located near Leninsky Prospekt metro station (Russian: Ленинский проспект) of the Kaluzhsko-Rizhskaya Line (orange color on the metro map). Leninsky Prospekt has two entrances, interlinked with subways on the east side of the avenue for which it was named and with exists also to both sides of the Yuri Gagarin Square. The venue is in 5-10 minutes walking distance from the metro station.

How to get to the Venue from the metro station
1. Exit the Leninsky Prospekt metro station (first car from the center)
2. Turn left
3. Go straight to the underpass
4. Go straight to the building of the Presidium of RAS

General Assembly
European Seismological Commission
33-rd General Assembly

European Seismological Commission
33-rd General Assembly

GA ESC 2012, 19-24 August – Moscow, Russia

GA ESC 2012, 19-24 August – Moscow, Russia
# PLAN of ESC2012 Scientific Sessions

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<td>SHR-8</td>
<td>Seismic Hazard Assessment of Large Hydraulic Schemes</td>
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<td>SHR-9</td>
<td>Earthquake Loss Estimations in Emergency Mode</td>
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<td>SHR-10</td>
<td>Recent Catastrophic Tsunamis: Impacts and Lessons</td>
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<td>SHR-11</td>
<td>Exogenic Processes Induced by Seismic Activity</td>
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<td>SHR-12</td>
<td>Instrumental Seismic Intensity Scales</td>
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<td>RSE</td>
<td>Recent Significant Earthquakes</td>
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<td>RSE-1</td>
<td>Damaging Earthquakes in Recent Times – Significant Findings and Future Directions</td>
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<td>RSE-2</td>
<td>Major Earthquakes in Northern Eurasia for the Last Decade</td>
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<td>EO</td>
<td>Seismology, Social Sciences, Education and Outreach</td>
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<tr>
<td>EO-1</td>
<td>Communicating about Earthquakes – New Challenges in a Sensitised Society. Initiatives, Experiences and Dissemination projects</td>
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<td>EO-2</td>
<td>How Can We Better Use Scientific Information in Disaster Risk Reduction, Preparedness and Response?</td>
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<td>EO-3</td>
<td>Seismology in Schools</td>
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## Time Table 33rd General Assembly of the European Seismological Commission

### 19 August 2012, Sunday

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Details</th>
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<tbody>
<tr>
<td>14:00-18:30</td>
<td>On-Site Registration</td>
<td>Registration Area – 1st Floor Hall</td>
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<tr>
<td></td>
<td>Hall VIP Zone</td>
<td>ESC Executive Committee (For ESC Executive Committee members)</td>
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<td></td>
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<td>ESC Executive Committee &amp; Local Organizing Committee (For ESC Executive Committee and Local Organizing Committee members)</td>
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<tr>
<td>14:00-15:30</td>
<td>Hall</td>
<td>ESCO Executive Committee</td>
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<tr>
<td>15:30-17:00</td>
<td>WINTER GARDEN</td>
<td>Ice Breaking Reception (Winter Garden)</td>
</tr>
<tr>
<td>17:30-19:00</td>
<td>Hall VIP Zone</td>
<td>Stellar in the Development Evaluation, and Practical Application of Earthquake Forecast/ Prediction Models (EPF-3)</td>
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### 20 August 2012, Monday

<table>
<thead>
<tr>
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<td>08:00-18:30</td>
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<td>Lecture Hall</td>
<td>Opening Plenary &amp; Opening Ceremony</td>
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<tr>
<td>09:45-10:30</td>
<td>KEY LECTURE</td>
<td>New Frontiers in the Development Evaluation, and Practical Application of Earthquake Forecast/ Prediction Models (EPF-3)</td>
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<tr>
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<td>Major Earthquakes in Northern Eurasia for the Last Decade (RSE-2)</td>
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<td>11:45:12:00</td>
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<td>Lunch</td>
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<td>Seismological Observation and Interpretation (DAP-1) &amp; Seismological Observatories and Research Infrastructures: Towards a European Plate Observatory (DAP-4)</td>
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<tr>
<td>14:30-16:00</td>
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<td>Complexity of Earthquake Physics, Rupture Processes, and the Scientific Prediction (EP-2)</td>
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<td>Seismic Wave Scattering and Heterogeneity of the Earth’s Interior (EBS-2)</td>
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<td>Seismic Hazard and Risk Estimates: Are the Assumptions and Methods Sound? (SHR-5)</td>
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<td>Using Strong Motion Observations for Rapid Earthquake Assessment (DAP-5)</td>
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<tr>
<td>16:00-16:15</td>
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<td>Coffee Break</td>
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<td>19:00-20:30</td>
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<td>Gala Concert</td>
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| 21 August 2012, Tuesday

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<td>Deep Structure, Evolution and Dynamics of Eurasia (ES-4)</td>
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<td>Artificial Intelligence and Pattern Recognition in Geophysical Data Analysis (AI-1)</td>
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### 22 August 2012, Wednesday

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<td>10:00-11:15</td>
<td>Seismicity and Geodynamics (EP-4)</td>
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<td>Induced Seismicity (SP-1)</td>
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<td>Seismic Tomography and the Earth Structure (ES-1)</td>
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<td>Recent Catastrophic Tsunamis Impacts and Lessons (SHR-10)</td>
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<td>Interdisciplinary Approach to Earthquake Forecasts’ Prediction (EFP-1) in Chinese</td>
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<td>11:15-11:30</td>
<td>Coffee Break</td>
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<td>11:30-13:00</td>
<td>Seismicity and Geodynamics (EP-4)</td>
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<td>New Results from Macroseismic Intensities; the Pros and Cons of Internet-Based Data and of the So-called “Instrumental Intensity” (NIS-1)</td>
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<td>17:30-18:30</td>
<td>Poster Session-3: ES-1, EP-4, EFP-1, SP-1, NS-1, SHR-10</td>
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<td>18:30-20:00</td>
<td>EMSC General Assembly (For EMSC members)</td>
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### 23 August 2012, Thursday

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<td>10:00-11:15</td>
<td>Seismicity and Geodynamics (EP-4)</td>
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<td>Fluid-Induced Seismicity and Aftershocks (SP-2)</td>
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<td>Earthquake Loss Estimations in Emergency Mode (SHR-8)</td>
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<td>Seismological and Structural Studies in the Polar Regions (ES-3 + DAP-7)</td>
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<td>Improving Seismic Networks Performances: from Site Selection to Data Integration (DAP-2) &amp; Data Exchange Formats and Data Access Services for Seismology: Recent Developments (DAP-3)</td>
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<td>11:15-11:30</td>
<td>Coffee Break</td>
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<tr>
<td>11:30-13:00</td>
<td>Non-Double Couple Focal Mechanisms – Indicators of Non-shear Sources Vs. Artifacts of Inversion: Methods, Models and Case Studies of Natural and Induced Seismicity (EP-6 + SP-3)</td>
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<td>16:00-16:15</td>
<td>Coffee Break</td>
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<td>18:30-20:00</td>
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<tr>
<td>20:00</td>
<td>Gala Dinner (Hotel Sputnik, Leninsky prospect, bld.38). Admission by tickets</td>
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<td>24 August 2012, Friday</td>
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<tr>
<td>08:00-09:45</td>
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PROGRAM 33rd General Assembly of the European Seismological Commission

08:00-18:30 On-Site Registration
Registration Area – 1st Floor Hall

08:45-09:30 Opening Plenary & Opening Ceremony

09:45-10:30 Key Lecture

Impacts of 2011 Great Tohoku Earthquake on the Seismology and Hazard Assessments
Kosun Yamaoka (Japan)

10:45-11:00

Major Earthquakes in Northern Eurasia for the Last Decade (RSE-2)
A. Mignan, V. Kossobokov

Complexity of Earthquake Physics, Rupture Processes, and the Scientific Prediction (EP-2)
G. Purcata, A. Zavyalov, G. Papadopoulos, V. Karakostas, M. Wyss, V. Kossobokov

Seismic Hazard and Risk Estimates: are the Assumptions and Methods Sound? (SHR-5)
J. Clinton, S. Akkar

Using Strong Motion Observations for Rapid Earthquake Assessment (DAP-5)

11:00-11:15

Spatio-temporal relations between nearest earthquakes and forecasting of strong events (EFPS-03)
V.G. Kossobokov, E.A. Rogozhin, V.A. Ogdakhonov

Seismotectonics of Major Earthquakes Zones on the Far East Region of Russia (RSE-2)

The Variations of Low-Frequency Seismic Noise in Connection with Large Earthquakes (EP-2)
G.A. Sobolev, D.G. Sobolev, V.G. Kossobokov, A.K. Nekrasova

Fetal Errors of the Global Seismic Hazard Assessment (SHR-5)
C. Cauzzi, J. Clinton, P. Kaestli

The Nera Na3 Rapid Raw Strong-Motion Database, an Overview (DAP-5)
L. Luzi, R. Puglia, F. Pacor, A.A. Siel, S. Akkar

11:15-11:30

Shakansky Seismoscience Zone in the East of the European Plate (RSE-2)
A.V. Ogadzhonov

The Magnitude Scale Problem for Major and Great Complex Earthquakes (EP-2)
P. Karacan, M. Wyss, A. Nekrasova, V. Kossobokov

Recent Developments on Iranian Earthquake Model and Some Examples of the Model Application (EP-3)
G.A. Papadopoulos, B. Di Fiore, G.A. Papadopoulos, B. Di Fiore, G. Minadakis

Long-Term Earthquake Forecast for the Kurile-Kamchatka Arc Based on Regularities of Seismic Gaps and Seismic Cycles Developments and Application of Forecasts in 1965-2012 (EP-2)
S.A. Fedotov, A.V. Solomatkin, S.D. Chernyshev

On Bayesian Procedure for Maximum Earthquake Magnitude Estimation (SHR-3)
A. Kijko

11:30-11:45

Improving preseismic seismology pattern recognition by better assessing the completeness magnitude (EP-3)
A. Mignan

The Skovorodino, 2011 Earthquake: Field Observations and First Results (RSE-2)
V.V. Bykova, S.S. Anfeyev, R.E. Tatalisman, A.G. Mikhin, I.D. Nikolaev

Repeat Times of Large Subduction Earthquakes in the Heliscetic Arc (EP-2)
G.A. Papadopoulos, E. Daskalaki, M. Ezz, A. Kijko, C. Siettos

Discussion

Abu Dhabi Strong Motion Network, Use (DAPS-03)
M. C. Jeffree, D.A. Shokh, M. Franke, M. Gardine, Z. M. Milutinovic, J. Almasooq, A. Almazam, A. Megahed

11:45-12:00 Coffee Break

12:00-12:15

Monitoring of Chuya (Gorny Altay, 2003 September 27, M15-7.3) Earthquake Propagation Process (RSE-2)

Renewal Models and Coulomb Stress Changes in the Corinth Gulf, Greece, Fault System (EP-2)
R. Console, G. Falcone, V. Karakostas, M. Mouru, E. Papadimitriou, D. Rhodes

General New Quantile Approach: Application to the Seismic Risk Assessment (SHR-5)
V.F. Piscareno, M.V. Rodkin

Correlation of Intensity Measures with Obtained Damage (DAP-5)
A. Yakut, H. Yilmaz

12:15-12:30

Combining precursory patterns and probabilistic forecast models using differential probability gains (EP-3)
P.N. Shabbal, C. Natune, J.D. Zecher, M. Holzschneider

Microseismic Effect of Earthquakes from Kamchatka Subduction Zone (RSE-2)

Technophysical Model of a Continental Seismic Zone: the Concept, Technophysical of Seismic Processes and Testing (EP-2)
S.I. Sherman

Implications of Considering Finite Fault/Rupture Properties in Seismic Hazard and Risk Assessment (SHR-5)
M.B. Sorensen, D.H. Lang

Diagganglad Data and Display Centers for Seismic Hazard Monitoring: Abu Dhabi Emirate, Use, a Case Study (DAP-5)
A. Almazam, A. Megahed, A. Almazam, A. Megahed

12:30-12:45

Space-time prediction/forecast problem: difficulties of statistical analysis (EP-3)
G.M. Malobikh, L.L. Romashkova

Microseismic Effect and Aftereffect Process of M6.6 Earthquake on 27.12.2011 in Southeastern Serbia (RSE-2)
V.I. German, S.V. Balnov, V.G. Oseev

Hand rock embrittlement with depth (EP-2)
B.G. Teskov

How We Can and Cannot Utilize the PSHA Maps? (SHR-5)
V. Sokolov

Conclusion

Structural Health Monitoring of Unique Structures in Abu Dhabi Emirate (DAP-5)
Detection of Seismic Velocity
Short-Period Source Model
Changes Associated

Research infrastructure
Scenario Earthquake
Within EPOS
for Estimation of Seismic
and Recipe of Predicting Strong
Along the Aleutian
Oki Earthquake, NE Japan,
(DAP1+4: O8)

Loadings in Moscow: Parameters
16:30-16:45
Subduction Zone
Thrust Earthquakes
(EP2: O16)

Application of insar in Subsidence
Formulation of the Spac Method
Interferometry Unveils P-Wave
Attenuation Parameters Obtained
as a Manifestation of the Return
Driven by Tectonic Stress Field

16:45-17:00

Exampled on the Northern
Caucasus Region)

Networking Near Fault
Observatories in Europe

17:00-17:15

E.A. Rogozhin, S.L. Yunga
E.A. Ivanov, G.S. Kushnir,
V.I. Melnikova, N.A. Gilyova,
S.S. Arefyev, V.V. Bykova,
A.I. Seredkina

S.V. Baranov, D.V. Chebrov
M. Raeesi, K. Atakan
E.V. Leskova, A.V. Fateyev
V. Palinkas
A. Moshou, G. Kaviris, I. Kassaras,
P. Papadimitriou, V. Kapetanidis,
K. Chousianitis, A. Agalos,
A. Arefyev, V.V. Bykova,
I. Kassaras, K. Makropoulos

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K. Vachek, J. Jansky, V. Plicka,
G. Ameri, F. Gallovic, J. Zahradnik,
K. Mosef, S. Pilejka, A. Askari,
e. Sosok, M. Pakzad

A. Iglesias, G.B. Vera-Padilla,
M.S. Chauhan, J. Havskov,
P. Bernard, D. Faeh, C. Zulfikar
D. Legrand

A. A. Malovichko, I.P. Gabsatarova
A.A. Gusev, O.V. Pavlenko
K.I. Irikura
H. Nakahara, R. Hino
A.F. Emanov, A.A. Emanov,
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RSE-1: P003 FIELD INVESTIGATION ON THE NEAR-FAULT DAMAGING EFFECTS OF 2008 YUTIAN MS=7.4 EARTHQUAKE IN XINJIANG, CHINA J. Shen, J. Chen, H. Song, G. Wu, W. Fang, X. Xu, X. Tan
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RSE-1: P008 GROUNDWATER LEVEL and TEMPERATURE CHANGES IN NORTHEAST CHINA in RESPONSE to THE 2011 M 9.0 TOHOKU EARTHQUAKE, JAPAN C.G. Liu, G.C. Wang, Z.Y. Li, H.J. Chen
RSE-2: P014 SOURCE ZONE PROPERTIES of THE LARGE EARTHQUAKE of 2008 IN SOUTH BAikal V.I. Melnikova, N.A. Gilyova, S.S. Arefyev, V.V. Bykova, A.I. Seredkina
RSE-2: P015 MODELING and FORECASTING AFTERSHOCK SEQUENCES of KAMCHATKA EARTHQUAKES S.V. Baranov, D.V. Chebrov


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EFP3: P019
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EFP3: P021
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SEISMIC HAZARD ZONING OF UZBEKISTAN
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SHR2: P060
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T.U. Artikov, R.S. Ibragimov

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LIKELIHOOD OF A LARGE EARTHQUAKE IN IZMIR, AEGEAN REGION OF TURKEY
O. Polat, P. Sindirgi, O. Akdemir

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SEISMIC HAZARD UPON THE ZAGROS-MAKRAN TRANSITION ZONE (IRAN) BY PROBABILISTIC HAZARD ASSESSMENT METHOD
M. Rahmani, M.R. Gheitanchi
SHR2: P063 1D GROUND MOTION SIMULATIONS ON SOFT SOILS INCLUDING FINITE FAULT EFFECTS
L. Moratto, M. Santulin, A. Sarao, D. Slejko

SHR2: P064 SEISMIC ZONATION OF THE EASTERN BALTIC SEA REGION BASED ON STRUCTURAL ANALYSIS OF GEOPHYSICAL DATA
B.A. Assinovskaya, M.K. Ovsov

SHR2: P065 THE DEEP STRUCTURE OF THE NATURAL DISASTER REGIONS IN THE EURASIA-PACIFIC TRANSITION ZONE
A.G. Rodnikov, N.A. Sergeyeva, L.P. Zabarinskaya

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SHR2: P069 SEISMIC HAZARD OF KOHKILOYE AND BOYERAHMAD
N. Sepehr, F. Saeeda, N. Soodmand

SHR5: Seismic Hazard and Risk Estimates: are the Assumptions and Methods Sound?
SHR5: P071 INVESTIGATION IN FREQUENCY DISTRIBUTION OF EARTHQUAKE INTEROCCURRENCE TIMES
N. Tahemia

SHR5: P072 EVALUATION OF AREA’S SEISMIC FACILITIES ON THE BASIS OF SOILS’ DURABILITY
Kh. Z. Rasulov, I.A. Kazakov, M. Babadjanov

SHR5: P073 A COMPARISON OF SEISMIC HAZARD MAPS FOR THE TERRITORY OF ITALY
A.K. Nekrasova

ES2: Seismic Wave Scattering and Heterogeneity of the Earth’s Interior
ES2: P079 NOVEL EVALUATION OF THE SCATTERING MODELS IN THE CRUST USING DENSE ARRAYS
L.A. Dominguez, P. Davis, D. Hollis

ES2: P080 HIGH-FREQUENCY SCATTERING FROM DEEP EARTH
A. Aguilar, K. Bataille

ES2: P081 MODELING 6C-SEISMOGRAM ENVELOPES USING RADIATIVE TRANSFER THEORY – ESTIMATION OF CRUSTAL SCATTERING PARAMETERS
P. Gaebler, C. Sens-Schoenfelder, M. Korn

ES2: P082 DEPTH-DEPENDENT Q-MODELS FOR THE CRUST IN THE VRANCEA REGION AND SURROUNDINGS BY HIGH FREQUENCY WAVEFORM MODELLING
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ES2: P083 CRUSTAL VELOCITY STRUCTURE FOR DIFFERENT PROFILES IN ROMANIA AS REVEALED BY INVERSION OF SURFACE WAVES DISPERSION
F. Borleanu, B. Greuc, M. Popa, M. Radulian

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DAP5: Using Strong Motion Observations for Rapid Earthquake Assessment
DAP5: P095 STRONG MOTION STATION INVENTORY IN EUROPE
S. Godey, L. Frobert, R. Bosau, J. Clinton, R. Steeman, S. Akkar, P. Guegen, L. Luzi

DAP5: P096 DISTRIBUTING AND USING FRENCH ACCELEROMETRY DATA THROUGH THE RESIF DATACENTER – A SCIENTIFIC CASE: THE MARCH 2012 EARTHQUAKE IN SAINT-PAUL SUR UBAYE (FRANCE)
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M. Massa, S. Lovati, G. Franceschina, P. Augliera

DAP5: P098 HIGH-RESOLUTION, LOW POWER, INTEGRATED AFTERSHOCK SYSTEM
L. Zimakov, P. Passmore

DAP5: P099 AN EARTHQUAKE EARLY WARNING SYSTEM FOR BORDER AREA ROMANIA-BULGARIA
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DAP5: P100 HARDWARE FOR RAPID SEISMIC EVENT NOTIFICATION SYSTEM
L. Zimakov, P. Passmore, P. Davidson, T. Drake

DAP5: P101 LOCAL SITE EFFECT EVALUATIONS FROM STRONG-MOTION NETWORK IN THE CITY OF IZMIR
E. Gok, O. Polat, U. Ceken, A. Tuncel, Z. Akcig

DAP5: P102 INVESTIGATING POSSIBILITIES OF THE SOURCE SCANNING ALGORITHM TO LOCATE EARTHQUAKES – SYNTHETIC TESTS AND APPLICATIONS TO M5.3 EFPAILO 2010, GREECE, AND M7.1 VAN 2011, TURKEY
J. Jansky, V. Plicka, J. Zahradnik

DAP5: P103 SEISMIC RATE IN CENTRAL ALBORZ
N. Soodmand1, A. Beitollahi2

DAP5: P104 THE EFFECTS OF FAULTS ON THE DISTRIBUTION OF STRONG GROUND MOTION
21 August 2012, Tuesday

08:00-18:30 On-site Registration
- Registration Area – 1st Floor Hall

09:00-09:45 KEY LECTURE

Second Nicholas N. Ambraseys Award Lecture
Recent Evolution and Challenges in the SHA of the Po Plain Region, Northern Italy
Ezio Faccio (Italy)

Lecture Hall
- PLenary

Session
- Seismological Observation and Interpretation (DAP-1) & Seismological Observatories and Research Infrastructures: Towards a European Plate Observatory (DAP-4)

Conveners
- D.A. Storchak, T. van Eck, R. Bossu, T. van Eck, M. Mandea, A. Melovich, V. Karakostas

09:00-10:15
- Recent Developments in Probabilistic Seismic Hazard and Risk Assessment: Applications, Improvements, Shortcomings and Perspectives (SHR-1)
- Complexity of Earthquake Physics, Rupture Processes, and the Scientific Prediction (EP-2)
- Recent Developments and Interpretation (DAP-1) & Seismological Observatories
- Seismic Wave Scattering and Heterogeneity of the Earth’s Interior (ES-2)

10:00-10:15
- D. Albarello, V.D. Amico, M. Garcia-Fernandez, G. Zonno

10:15-10:30
- Estimation of Macroseismic Scenarios in European Countries (SHR1: O2)
- R. Rotondi, R. Sigbjornsson, E. Vatini, C. Brambilla

10:30-10:45
- On the Possibility of Application of Electrodynamic Fields for Seismic Hazard Assessment in Terms of Macroseismic Intensity (SHR1: O3)
- A. Kijko, A. Smit

10:45-11:00
- Low-Frequency Seismic Wave Propagation in the “Reference Earth Model”: Possibility of Non-Reflected Propagation (ES2: O15)
- E. Pelinovsky, E. Pasternak, A. Dymkin, B. Gurevich

11:00-11:15
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

11:15-12:30 Coffee Break

Lecture Hall
- RED
- BLUE
- GREEN
- BEIGE
- CORNER

Session
- Seismological Observation and Interpretation (DAP-5) & Seismological Observatories and Research Infrastructures: Towards a European Plate Observatory (DAP-4)

Conveners
- D.A. Storchak, T. van Eck, R. Bossu, T. van Eck, M. Mandea, A. Melovich, V. Karakostas

08:30-09:45
- Recent Developments in Probabilistic Seismic Hazard and Risk Assessment (SHR-1: O1)
- J. Weessen, S. Pantan, M. Pagan, C. Tuzolin, D. Guidi

09:00-10:15
- G. Purcaru, A. Zavyalov, G. Papadopoulos, V. Karakostas

10:00-10:15
- The New SASHA Code: Generalized Probabilistic Seismic Hazard Assessment in Terms of Macroseismic Intensity (SHR1: O1)
- D. Albarello, V.D. Amico, R. Rotondi, M. Garcia-Fernandez, G. Zonno

10:15-10:30
- The Nature of Instabilities in Blocked Media and Seismological Law of Gutenberg-Richter in the ionosphere based on the Possibility of Application of Electrodynamic Fields for Seismic Hazard Assessment in Terms of Macroseismic Intensity (SHR1: O3)
- A. Kijko, A. Smit

10:30-10:45
- Asymptotic Full Waveform Inversion with Applications to Quas Vertical Fault Imaging (SHR1: O22)
- N.T. Tarasov, N.V. Tarasova

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Session
- Seismological Observation and Interpretation (DAP-5) & Seismological Observatories and Research Infrastructures: Towards a European Plate Observatory (DAP-4)

Conveners
- D.A. Storchak, T. van Eck, R. Bossu, T. van Eck, M. Mandea, A. Melovich, V. Karakostas

11:30-11:45
- New Method for Early Detection of Incoming Earthquakes Based on Single-Layer Flat-Col-Collision Absolutes-Position Sensors: Other Areas for Specific Application of Such Position Sensors (DAP-1: O17)
- S.G. Gevorgyan, S.T. Muradyan, V.S. Gevorgyan, L.P. Taron

11:45-12:00
- A Community-Based Probabilistic Seismic Hazard Assessment for the Euro-Mediterranean Region: An Overview (SHR1: O7)
- J. Weessen, L. Danciu, D. Giardini

12:00-13:30 Lunch Break

13:30-14:45
- Perspectives of Building a Collaborative Global Earthquake Hazard Model: Issues in Uncertainty, Heterogeneity and Regional Continuity (SHR1: O5)
- G.A. Weatherhill, D. Monalli, M. Pagan

14:45-15:00
- Strong Triggered Earthquakes in The Kuyun-Warla Region and Seismicity Patterns (EP3: O1)
- R.K. Chauth, V. Sminov, A. Ponomarev, D. Srinivasan

15:00-15:15
- S Receiver Functions: Method and Results (EP3: O2)
- P. Kolinsky, A. Lyubushin, S.A. Stroganov

15:15-15:30
- On the Possibility of Application of Electrodynamic Fields for Seismic Hazard Assessment in Terms of Macroseismic Intensity (SHR1: O3)
- A. Kijko, A. Smit

15:30-15:45
- Asymptotic Full Waveform Inversion with Applications to Quas Vertical Fault Imaging (SHR1: O22)
- N.T. Tarasov, N.V. Tarasova

15:45-16:00
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

16:00-16:15
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

16:15-16:30
- Low-Frequency Seismic Wave Propagation in the “Reference Earth Model”: Possibility of Non-Reflected Propagation (ES2: O15)
- E. Pelinovsky, E. Pasternak, A. Dymkin, B. Gurevich

16:30-16:45
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

16:45-17:00
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- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

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- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

18:00-18:15
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

18:15-18:30
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

18:30-18:45
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

18:45-19:00
- The State of Stress in the Lithosphere of Mongolia Estimated by Seismic Moments of Earthquakes (ES2: O16)
- S. Sodnomsambuu, N.T. Tarasov, N.V. Tarasova

19:00-21:00 Dinner
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<td>Real-Time Automatic Monitoring System (SHR1: O19)</td>
<td>B.M. Shubik</td>
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<td>12:15-12:30</td>
<td>Teleseismic MultiChannel System for Geophysical Cable (DAP1+4: O21)</td>
<td>F.I. Ionica, P. Borzoni, M. Potapov, V. Smimov, A. Galiev, A. Gvishiani, M. Mandea, A. Shevchenko</td>
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<td>12:30-12:45</td>
<td>Long Period Background Noise Reduction in Broadband Seismic Network of Iran (DAP1+4: O21)</td>
<td>F. Roostae, A. Ghobadi, A. A. Soloviev, R. V. Sidorov, A. A. Soloviev, R. V. Sidorov</td>
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<td>12:45-13:00</td>
<td>A Fast Algorithm for Receiver Function Analysis Based on Limited Minimization (DAP1+4: O22)</td>
<td>F. Roostae, A. Ghobadi, A. A. Soloviev, R. V. Sidorov, A. A. Soloviev, R. V. Sidorov</td>
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3:00-3:15 | Seismological Observation and Interpretation (DAP-5) & Seismological Observatories and Research Infrastructures: Towards a European Plate Observatory (DAP-4) | D. A. Storchak, L. Otkhinov, A. Malolevsko, A. A. Soloviev, R. V. Sidorov, A. A. Soloviev, R. V. Sidorov |


3:30-3:45 | Space and Time Distribution of Foci and Source-Mechanisms of West-Bohemia/Vogtland Earthquakes as a Tool for Insight into Their Triggering Mechanisms and Driving Forces (SHR-1) | V. Smimov, M. H. Brune, P. Shebalin, L. Vinnik, C. Seiberlich, I. Koulakov, E. Kozlovskaya, A. Gvishiani, M. Mandea |


4:40-4:55 | Acoustic Emission Dynamics Due to Fluid Triggering from Laboratory Experiments (EP-3) | A. Ponomarev, G. Sobolev, A. A. Soloviev, R. V. Sidorov, A. A. Soloviev, R. V. Sidorov |

5:00-5:15 | A New Seismic Swarm Dynamic Model of Natural and Laboratory Modelling (EP3: O8) | M. Potapov, V. Smimov, A. Ponomarev, B. Bormann |

5:15-5:30 | A Shear-Wave Velocity Model of the European Upper Mantle from Automated Inversion of Seismic Shear and Surface Waveforms (SHR-1) | V. Smimov, A. A. Soloviev, R. V. Sidorov, A. A. Soloviev, R. V. Sidorov |


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<td>15:30-15:45</td>
<td>Seismological Observation and Interpretation (DAP-1) &amp; Seismological Observatories and Research Infrastructures: Towards a European Plate Observatory (DAP-6)</td>
<td>Lecture Hall</td>
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<tr>
<td>15:45-16:00</td>
<td>Recent Developments in Probabilistic Seismic Hazard and Seismic Risk Assessment: Applications, Improvements, Shortcomings and Perspectives (SHR-1)</td>
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<td>16:00-16:15</td>
<td>Coffee Break</td>
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<td>16:15-16:30</td>
<td>Modelling of Ground-Motion Distribution in Probabilistic Seismic Hazard Assessment and Loss Estimation (SHR-1)</td>
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<td>16:30-16:45</td>
<td>An Assessment of the Microseismicity of the Izmır Metropolitan Area from Local Strong-Motion Network (Izmit) (DAP-4)</td>
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<td>16:45-17:00</td>
<td>Calculation of Crustal Deformation in Northern Part of the Iran (NIS-3)</td>
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<td>17:00-17:15</td>
<td>The New Iaspis Standards for Determining Magnitudes from Digital Data and their Relation to Classical Magnitudes (EP-3)</td>
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<tr>
<td>17:30-18:30</td>
<td>Poster Session-2: ES-4, EP-3, DAP-1-4, AI-1, NIS-4, SHR-1</td>
<td>Hall</td>
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**Lecture Hall Seismological Observation and Interpretation (DAP-1)**

- A Stochastic Earthquake Rupture Forecast Combining Smoothed Seismicity and Smoothed Moment-Weighted Fault Contribution for Europe (SHR-1: O16)
- S. Hierer, J. Woessner, J.D. Zehnder, S. Wiemer, D.D. Jackson, R. Basili

- L.R. Botvina

- Influence of Shear Mode on B-Value Estimated at Testing Steel Specimens (EP-3: O12)
- M.R. Tytor, E. Orfina, A.P. Soldatenkov

**Lecture Hall Recent Developments in Probabilistic Seismic Hazard and Seismic Risk Assessment: Applications, Improvements, Shortcomings and Perspectives (SHR-1)**

- Effect of Surface Average Shear-Wave Velocity on the Vertical-to-Horizontal Ratio of the Ground Motion: Comparing Rock and Soft Sediment Sites (SHR-1: O17)
- V. Poggi, B. Edwards, D. Fah

- Influence of Shear Mode on B-Value Estimated at Testing Steel Specimens (EP-3: O12)
- M.R. Tytor, E. Orfina, A.P. Soldatenkov

**Lecture Hall Modelling of Ground-Motion Distribution in Probabilistic Seismic Hazard Assessment and Loss Estimation (SHR-1)**

- Modeling of Ground-Motion Distribution in Probabilistic Seismic Hazard Assessment and Loss Estimation (SHR-1: O19)
- V. Sokolov, F. Wenzel

- Bayesian Analysis of the Modified Omori Law (SHR-1: O18)
- M.H. Holzchneider, C. Narteau, P. Shabalin, Z. Peng, D. Schorlemmer

- A stochastic Earthquake Rupture Forecast Combining Smoothed Seismicity and Smoothed Moment-Weighted Fault Contribution for Europe (SHR-1: O16)
- S. Hierer, J. Woessner, J.D. Zehnder, S. Wiemer, D.D. Jackson, R. Basili

- L.R. Botvina

- Influence of Shear Mode on B-Value Estimated at Testing Steel Specimens (EP-3: O12)
- M.R. Tytor, E. Orfina, A.P. Soldatenkov

**Lecture Hall An Assessment of the Microseismicity of the Izmır Metropolitan Area from Local Strong-Motion Network (Izmit) (DAP-4)**

- An Assessment of the Microseismicity of the Izmır Metropolitan Area from Local Strong-Motion Network (Izmit) (DAP-4: O35)
- E. Gok, O. Polat, M. Kesencioglu, Z. Akdig

- Calculation of Crustal Deformation in Northern Part of the Iran (NIS-3: O15)
- M. Mostafaezadeh, S. Ashkour Motlagh

- PSHA: Analysis Based on a Stochastic Grime for the South-East of Iran (SHR-1: O20)
- S. Drouet, C. Martin

- Extraction and Research of Seismic Flow Cluster Component (EP-3: O15)
- A.B. Denerdays, G.M. Gilis, G.A. Sokolov

- Lithospheric Structure Below Tadjik From Receiver Functions (ES4: O14)
- R. Kind, P. Kumar, W. Zhao, J. Medich

- Paleoseismic Deformations in Southern Part of the Ispak-Kul Lake Depression, Northern Ten Shen (NIS-4: O31)

- P. Borrmann, J.W. Dawe, J.S. Salud, S. Wendt

- A Comparison of NGA Ground Motion Prediction Equations to Strong Motion Data of Taiwan (SHR-1: O21)

- Correct Method for Calculation of Recurrence Function for Earthquake Magnitudes (EP-3: O16)
- V.M. Kazantsev

- Temperature Inversion Beneath Tadjik Explains Etnic Distribution of Earthquake Depths (ES4: O12)
- C.-Y. Wang, W.-P. Chen, L.-P. Wang

- Aneseismic geological Study at Ruins of Ancient Rehovot-Be-Negev and Saadon, Southern Israel (NIS-4: O4)
- A.M. Korjenkov, E. Mazor

- P. Borrmann, K. Fujita, K. Mackley

- Site Specific Design Earthquake Characteristics (SHR-1: O22)
- A. Ansari, G. Tomoch, A. Kusyfus, B. Cenner

- Mantle Processes Beneath Collisional Areas of Eurasia Based on Regional Tomography Models (ES4: O13)
- Y. Koleskov, I.V. Zabelina

- An Experience of the Peak Ground Velocities Evaluation from the Paleoseismic Local Rock Disruptions (Within the East-Southern Part of the Fennoscandia Shield) (NIS-4: O5)
- A.A. Nikonorov, M.V. Rodkin, S.V. Shnever
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DAP1+4: P002  SEISMIC MONITORING IN THE BALTIC REGION WITH USE OF BAVSEN VIRTUAL NETWORK  
V.G. Nikulin

DAP1+4: P003  GEOPHYSICAL OBSERVATORY OF MOSCOW UNIVERSITY ‘ALEKSANDROVKA’(KALUGA REGION, RUSSIA)  

DAP1+4: P004  KOERI SEISMIC NETWORK AND EARTHQUAKE PROCESSING SYSTEM  
M. Yilmazer, D. Kalafat, K. Kekovlai, M.D. Samut, A. Kosenoglu, S.A. Poyraz

DAP1+4: P005  VERCE: VIRTUAL EARTHQUAKE AND SEISMOLOGY RESEARCH COMMUNITY E-SCIENCE ENVIRONMENT IN EUROPE  
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M. Nemati, B. Oveis

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V.M. Pavlov, I.R. Abubakirov

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V.M. Pavlov

DAP1+4: P009  CROSS-CORRELATION OF AMBIENT NOISE: EXAMPLE FROM IZMIR METROPOLITAN CITY, TURKEY  
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M.A. Khritova, N.A. Gilyova

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DAP1+4: P013  USING REAL-TIME PROTOCOL TO TRANSMIT SEISMIC DATA OVER CELLULAR AND SATELLITE CHANNELS  
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N.N. Mikhailova, N.N. Poleshko

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A. Carvalho, M. Bezzeghoud, J.F. Borges, B. Caldeira

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DAP1+4: P032  AUTOMATIC PROCESSING OF SEISMIC DATA IN THE TSUNAMI WARNING SYSTEM IN FAR EAST RUSSIA: TRADITIONAL METHODS AND NEW APPROACHES
D.V. Chebrov, V.N. Chebrov, A.A. Gusev

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DAP1+4: P034  STUDY THE DEPENDENCE OF TWO EARTHQUAKE EVENTS IN 20.DEC.2010, MN=6.5, AND 27.JAN.2011, RIGAN AREA
F. Saeeda, A. Beitoiali

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L.M. Munirova

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Y. Cano, Y. Ben-Horin, J. Guilbert

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M.V. Rodkin, V.I. Kafan

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G. Sottiti, D.M. Palladino, B. Giaccio, P. Messina

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V.A. Saltkyov

EP3: P048  MODELING SPATIO-TEMPORAL VARIATIONS OF SEISMICITY IN THE SAN JACINTO FAULT ZONE, CALIFORNIA
G. Zoeller, Y. Ben-Zion

EP3: P049  THE MODEL OF INTERACTING DISLOCATIONS
A.S. Cherepansev

EP3: P050  ROCK FRICTION EXPERIMENTS UNDER MECHANICAL, ELECTRICAL, AND FLUID INJECTION TRIGGERING OF SLIP
V.A. Novikov, V.A. Okunev, V.N. Klyuchkin, E.D. Lazarev

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G. Adelfio, M. Chiotti, A. D Alessandro, D. Luzio

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E.V. Ivanova

AI1: P060  METHODS OF ANALYSIS AND INTERPRETATION OF IONOSPHERIC CRITICAL FREQUENCY FOF2 DATA BASED ON WAVELET TRANSFORM AND NEURAL NETWORKS COMBINATION
O.V. Mandrikova, Yu.A. Polozov, T.L. Zaiiaev

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O.V. Novikov, A.A. Soloviev, A.I. Gorshkov

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NIS4: P062  CHARACTERISTICS OF THE ANCIENT SEISMIC EVENTS OCCURRED ALONG THE TALAS-FERGANA FAULT, WESTERN TIEN SHAN
S.V. Abdieva, A.M. Korjenkov, D. Rust, A. Tibaldi

NIS4: P063  PALEOSTRESSES AND PALEOSEISMIC DISLOCATIONS IN THE EARTH CRUST OF CENTRAL ASIA: EVIDENCE FROM THE PAMIRS, SOUTHWESTERN TIBET, AND NORTH VIETNAM
T.P. Belousov, Sh.A. Mukhamediev

NIS4: P064  APPLICATION OF THE ENVIRONMENTAL SEISMIC INTENSITY SCALE (ESI 2007) TO THE KRN MOUNTAINS 1998 MW5.6 EARTHQUAKE (NW SLOVENIA)
A. Gocar

NIS4: P065  NUMERICAL MODELS OF PALEOSTRUCTURES AND AN ESTIMATION OF VOLUMES OF PALEOEARTHQUAKES
L.A. Khamidov, J.Z. Fakhridinov, Z. Shukurov, H.L. Khamidov

NIS4: P066  ABOUT PALEOSEISMIC DISLOCATIONS CHATKAL-KURAMA REGION, WESTERN TIEN-SHAN
M.T. Usmanova, D. Rust, A.M. Korjenkov, A. Tibaldi

NIS4: P067  HOLOCENE ACTIVE FAULTING AND PALEOSEISMIC IDENTIFICATION OF THE HUOSHAN PIEDMONT FAULT ZONE IN CENTRAL SHANXI GRABEN SYSTEM, CHINA
Y. Xu, H. He, X. Shen

SHR-1: Recent Developments in Probabilistic Seismic Hazard and Seismic Risk Assessment: Applications, Improvements, Shortcomings and Perspectives

SHR1: P068  AN EXPERIENCE OF THE DEVELOPMENT OF SEISMIC ZONATION MAPS IN DETERMINISTIC AND PROBABILISTIC FORM ON AN EXAMPLE OF THE EAST KAZAKHSTAN DISTRICT
T. Abakanov, A.N. Lee, A.B. Sadykova, N.V. Silacheva

SHR1: P069  HOW NUMBER AND POSITION OF SENSORS AFFECT TO THE F-K DISPERSION CURVE CALCULATION: APPLICATION TO TRIANGULAR ARRAYS
SHR1: P070  THE EUROPEAN PROJECT UPSTRAT-MAFA  
G. Zonno, R. Rotondi, C.S. Oliveira,  
A. Carvalho, M. Garcia-Fernandez,  
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SHR1: P071  COMPARISON OF TWO METHODS FOR ESTIMATION  
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A.A. Krylov, S.A. Kovachev,  
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RESULTS AND PROBLEMS  
A. Ischuk, C. Lindholm,  
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SHR1: P073  SEISMIC HAZARD ASSESSMENT OF THE SOUTH STREAM  
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A.I. Ivashchenko, S.A. Kovachev,  
L.I. Lokinovskiy, S.G. Mironyuk

SHR1: P074  THE (SMALL BUT GROWING) OPENQUAKE COMMUNITY:  
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L. Danciu, D. Monelli, G. Weatherill,  
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SHR1: P075  ASSESSING EARTHQUAKE SOURCE MODELS UNDER  
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H. Cruz, M. Mai, E. Prudencio

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M.P. Shahvar, M. Zare

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A. Susilo

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in THE WEST-NORTHERN CONTINENTAL MARGINS  
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N.I. Pavlenkova, S.N. Kashubin,  
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H. Silverinnen, E. Kozlovskaya,  
E. Kisling, G. Kosarev,  
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M. Polkowski, M. Grad

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M. Grad, O.B. Gintov, D.N. Gryn,  
A. Grench, E. Hegedus, T. Janik,  
K.V. Kolyomyets, K. Komminaho,  
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AND THE PANNONIAN SEGMENT  
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ES4: P084  SEISMIC EVIDENCES OF A DIFFUSED STEP FAULT ZONE  
AT THE NORTHERN EDGE OF THE CALABRIAN SUBDUCTION  
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C. Totaro, B. Orecchio, D. Presti

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G.A. Pavlenkova, T.P. Yegorova,  
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R.A. Scoomo, C. Weidtle, S. Lebedev,  
L. Cristiano, T. Meier

ES4: P087  THE FIRST RESULTS ON CRUSTAL AND UPPER MANTLE  
VELOCITY STRUCTURE FROM RECEIVER FUNCTIONS – KLM  
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PLATE  
N.V. Vaganova, N.Yu. Afonin

ES4: P088  CRUSTAL ANOMALIES OF ELECTRICAL CONDUCTIVITY  
in NORTHERN EURASIA  
P.Yu. Pushkarev, N.S. Golubtsova

ES4: P089  SPECIFIC PATTERNS IN SEISMICITY AND LITHOSPHERE  
STRUCTURE AROUND VRANCEA SOURCE: NEW INSIGHTS  
IN THE CONTINENTAL COLLISION GEODYNAMICS  
M. Popa, M. Radulian, B. Zaharia

ES4: P090  CRUSTAL THICKNESS IN THE GIBRALTAR ARC  
AND SURROUNDING AREAS BY P-RECEIVER FUNCTIONS  
ANALYSIS  
F. Mancilla, D. Stich, J. Morales,  
R. Martin, J. Diaz, A. Paez,  
D. Cordoba, J.A. Pulgar, P. Ibarna,  
M. Harnafi, F. Gonzalez-Lodeiro

ES4: P091  THE NORTH ANATOLIAN FAULT AND LITHOSPHERIC DYNAMICS  
OF EASTERN MEDITERRANEAN: A SEISMIC SURFACE-WAVE  
STUDY  
E. Neenan, A.J. Schaeffer,  
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ES4: P092  TRANSREGIONAL STRUCTURE OF CENTRAL ASIA  
I.P. Sidorova

ES4: P093  HENDLIAN FAULT IDENTIFICATION AND REVIEW OF ITS  
MECHANISM  
e.g.M. Montazeri

ES4: P094  LITHOSPHERIC STRUCTURE IN THE BAikal-CENTRAL  
MONGOLIA REGION FROM INTEGRATED GEOPHYSICAL-  
PETROLOGICAL INVERSION OF SURFACE-WAVE DATA  
AND TOPOGRAPHIC ELEVATION  
A.S. Saltinov, A.S. Efimov,  
V.M. Soltovoyev

ES4: P095  THE EARTH’S CRUST DEEP STRUCTURE OF EASTERN  
EURASIA ON EVIDENCE DERIVED FROM DEEP SEISMIC  
SOUNDING  
How-Wei Chen, Hsiao-Lan Wang,  
John Y. Duan, L. Zhu

ES4: P096  LATERAL VARIATION OF MOHO IN TAIWAN AND SLAB  
STRUCTURE FEATURES REVEALED BY CCP STACKING  
OF RECEIVER FUNCTIONS AND VELOCITY PROFILING  
L.B. Slivina, S.L. Senykov

ES4: P097  RELATIONSHIP OF THE EVOLUTION OF VOLCANIC  
ACTIVITY WITH DYNAMICS OF THE VELOCITY FIELD UNDER  
VOLCANOES, KAMCHATKA  
Yu.A. Kugaenko, V.A. Saltikov,  
A.V. Gorbatikov, M.Yu. Stepanova

ES4: P098  DEEP MODEL OF THE UZON-GEYSER VOLCANIC-TECTONIC  
DEPRESSION (KAMCHATKA) BASED ON MICROSEISMIC  
SURVEY AND INSAR DATA  
Yu.A. Kugaenko, V.A. Saltikov,  
A.V. Gorbatikov, M.Yu. Stepanova

ES4: P099  CRUSTAL STRUCTURE STUDY IN ACTIVE VOLCANIC REGION  
BY LOW-FREQUENCY MICROSEISMIC SURVEY (AREA  
OF LARGE TOLBACHIC FISSURE ERUPTION 1975-1976,  
KAMCHATKA)  
A.T. Ismail-Zadeh, L. Matenco,  
M. Radulian, S. Cleoghein,  
G.F. Panza

ES4: P100  GEODYNAMICS, INTERMEDIATE-DEPTH SEISMICITY  
AND SEISMIC HAZARD IN THE SOUTH-EASTERN CARPATHIANS  
R. Sigbjornsson, V.A. Saltikov,  
A.V. Gorbatikov, M.Yu. Stepanova

ESR1: P077  THE EUROPEAN Seismic Project – NORTHERN  
EUROPE (NPREG-1)  
I.K. Shishov, L. Czuba,  
M. Grad, O.B. Gintov

ESR1: P078  THE EUROPEAN Seismic Project – SOUTH-EASTERN  
EUROPE (SPEDE)  
A.V. Salnikov, A.S. Efimov,  
J. Fullea, S. Lebedev, M.R. Agius,  
A.G. Jones, J.C. Afonso

ESR1: P079  THE EUROPEAN Seismic Project – WESTERN  
EUROPE (PREG-1)  
N. Slivina, S. Senyk

ESR1: P080  THE EUROPEAN Seismic Project – EASTERN  
EUROPE (EPE-1)  
R. Martin, M.Yu. Stepanova,  
B. Zaharia
22 August 2012, Wednesday

**Lecture Hall**

**09:00-09:45**

**KEY LECTURE**

**Surface Wave Tomography for Upper Mantle Studies Methods and Results**

Tatiana B. Yanovskaya (Russia)

**Session Seismicity and Geodynamics (EP-4)**

**Conveners**

A. Ganeev, S. Tsyvryn, B. Assionvkaya, V. Mikhailov

**TOPICS**

- Induced Seismicity (SP-4)
- Seismic Tomography and the Earth Structure (ES-4)
- Recent Catastrophic Tsunamis Impacts and Lessons (SHR-10)
- Interdisciplinary Approach to Earthquake Forecasts Prediction (EPF-5)

**TOPICS**

- Continuous GPS Velocity Profiles and Baseline Rate Changes in Central and Western Greece
  - Comparison with Geodetic Data (EP-4: O1)
  - A. Ganeev, K. Chousianitis, M. Papadopoulos, P. Argyriou, G. Daskalakis, K. Makropoulos

**TOPICS**

- Source Characterization of Induced Seismicity (SP-3)
- Ambient Noise Surface Wave Tomography at the Aegean Region (ES-1: O2)
- T.B. Yanovskaya, U. Achauer, S.A. Tikhotsky, C. Thuder

**TOPICS**

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- M. Zchar, R. Rubin, A. Salamon

**NIS2: P046**
Combination of Non-instrumental, Geological and Instrumental Data Analysis of Seismic Event in Region of Small Seismic Activity in Case of Seismic Event Near Jarocin (Poland)
- G. Lizurek, B. Plestewicz, P. Wieczak, J. Wszynowski, J. Trojanowski

**NIS2: P047**
Large and Moderate Historical Earthquakes of 15th and 16th Centuries in Romania Reconsidered
- M. Rogozea, M. Radulian, M. Popa, N. Mandrescu

**NIS2: P048**
The Most Important Historical Earthquakes in Romania Occurred From XVIII Century to XIX Century
- M. Rogozea, M. Radulian, G. Marmureanu, D. Toma

**NIS2: P049**
The Hellenic Macroseismic Database for Historical Earthquakes of the University of Athens
- V. Kouskoukia, K. Taisidis, M. Locati, G. Sakkas, K. Malripoulos, M. Stucchi

**NIS-3: Geology and Seismology for Seismotectonic Studies**

**NIS3: P050**
Geological Contribution to Seismic Zonation in Greece
- R. Caputo, S. Pavlides, S. Sboras, Th. Tsapanos, E. Kalogirou

**NIS3: P051**
Relative Reactivation Potential Analysis – A Simple Robust Tool for Seismotectonic Studies in Regions of Low Seismic Activity (Examples from the Bohemian Massif, Czech Republic)
- J. Havir

**NIS3: P052**
A New Model of Active Tectonics for the Montenegro Territory
- Lj. Vucic, B. Glavatovic

**NIS3: P053**
Morphologic Evidence of the Active Tectonics in Shanxi Rift System, China
- L. Chen, X. Shen

**NIS3: P054**
About Modern Tectonics Movements in Connection Seismicity in Central Kyzykum Region (Western Uzbekistan)
- U.A. Khafizov, M.T. Usmanova

**NIS3: P055**
On Alpine Tectonic-Magmatic-Metallogenic Peculiarities in West Baluchestan and Tajikistan
- A. Romanko, V. Prokofiev, N.A. Imanverdyyev, A. Savichev, S. Stepanov


**EO1+2+3: P056**
Delivering the Message on Geological Hazards in the Eastern Caribbean
- J.L. Latchman, S. Edwards

**EO1+2+3: P057**
Understanding the Public Desire for Information to Improve Earthquake Services
- R. Bossu, S. Lefebvre, F. Roussel, G. Mazer-Roux

**EO1+2+3: P058**
The Development of an Educational System for a Long Term Training on Seismic and Volcanic Risk

**EO1+2+3: P059**
A Bibliography of IRIS-Related Publications, 2000-2011
- B. Muco

**EO1+2+3: P060**
Making Sense of Uncertainty in Seismic Risk Dissemination
- E.K.M. So, T. Innocent

**SP2: Fluid-Induced Seismicity and Aftershocks**

**SP2: P061**
Are the Earthquakes of Central Virginia Influenced by Underground Water Fed by Precipitation?
- B. Muco

**SP2: P062**
Natural and Triggered Seismicity in the Vicinity of the Beni Haroun Dam, Algeria
- F. Semmane, A.K. Yelles, I. Abacha, A. Amrani

**SP2: P063**
Permeability of the Lithosphere – Experimental Measurements and Insight from the Earthquake Regime
- M.V. Rodkin, A.V. Zharkov

**SP2: P064**
Research on Relationship Between Mud Volcano in Northern Iran and Seismic Activity
- X. Gao, H. Wang, T. Zhang

**SP2: P065**
Evidence of Approximately Hourly Hidden Periodicity of the Earthquakes Occurrence
- A.V. Guglielmi, O.D. Zotov

**SP2: P066**
Plastic Deformation Discontinuity and Ioffe-Ehrenfest Effect in the Earth Crust
- K.M. Mizroev, A.V. Nikolaev, A.A. Lukk, S.L. Yunga

**SHR-3: Subcrustal Earthquakes: Hazard and Risk Mitigation & SHR-4: Hazard and Risk for Megacities**

**SHR3+4: P067**
Estimation of Earthquake Source Parameter in the Kachchh Seismic Zone Gujarat, India, From Strong-Motion Network Data Using the Levenberg-Marquardt Nonlinear Inversion Technique
- M. Kumar

**SHR3+4: P068**
Spatial and Temporal Variations of Cumulative Seismic Moment in Vrancea Zone and Theirs Application to Seismic Hazard Estimates
- V.N. Ginsari

**SHR3+4: P069**
Wave Propagation Properties and Site Amplification in Major Sedimentary Basins in Istanbul City
- S. Yelkeniz, M. Aktar

**SHR3+4: P070**
Analytical Assessment of Damage Induced by Vrancea Subcrustal Earthquakes: Validation for Some Relevant Pre-1960 Reinforced Concrete Structure Typologies in Romania
- I.G. Craifaleanu

**SHR3+4: P071**
Seismic Hazards in Megacities: Monitoring Methods for High-Rise and Historical Buildings
- N.K. Kapustin, G.N. Antonovskaya, V.A. Glotov

**SHR3+4: P072**
Earthquake Loss Estimation at Urban Level: Case Study for Dushanbe City
Plenary Session

24 August 2012, Friday
On-Site Registration
Registration Area – 1st Floor Hall

Lecture Hall

09:00-09:45

KEY LECTURE
Compiling the Earthquake History of Europe
Massimiliano Scuderi (Italy)

Lecture Hall

RED BLUE GREEN BEIGE CORNER

Session

Hamomising the Earthquake History of Europe (NIS-2)
Earthquake Precursors and Forecast (EFP-2)
Seismic Hazard Assessment of Large Hydraulic Schemes (SHR-8)
Communication about Earthquakes – New Challenges in a Sensitised Society.

Lecture Hall

V. Kouskouma, P. Moustakiem, I. Revida
D. Shanker, E.E. Papadimitriou
A. Bugaevsky, M. Wiesel, A. Strom, H.B. Havenith
S. Solatino, F. Haslinger, M.B. Sorensen, S. Sargent, E. So, T. Blake, P. Denton, A. Saaron-Somente

Conveners

10:00-10:15

Does Combination of Microseismic and Paleoseismic Data Ensure Comprehensive Solution?
(NIS-2: O1)

R.E. Tatevossian, N.G. Mokrushina, J.J. Agtelemen, T.N. Tatevossian

Application of Modified M6 Algorithm on Major Earthquakes of Iran (EFP-2: O1)

M. Mojab, H. Memarian, M. Zane

Assessment of the Recurrent Seismic Effects on the Critical Facilities Affected by Strong Earthquake (SHR-8: O4)

O. Kozlov, A. Strom

10:15-10:30

Re-Estimating the Epicenter of the 1927 Jericho Earthquake Using Spatial Distribution of Intensity Data
(NIS-2: O2)

M. Zohar, S. Marco

Analysis of Syrian Seismicity in Terms of Variations of Gutenberg’s Rotor Parameters and Seismic Rate Changes (EFP-2: O12)

R.A. Ahmad

Earthquake and Landslide Hazards Affecting HPP Cascades in Kyrgyzstan and Tajikistan (SHR-8: O5)

H.B. Havenith, K. Abdrakhmatov, A. Ischuk, A. Strom

11:00-11:15

New Earthquake Parameters for the Four Strongest Historical Earthquakes in Tyrol – Research Results in the Frame of the Interreg IV Project HAREIA-Historical and Recent Earthquakes in Italy and Austria
(NIS-2: O3)

C. Hammers, W.A. Lenhardt

Earthquake Clusters Recognition Using Data Mining Techniques with Example in South-West Arbor (EFP-2: O13)

M. Altmehrekzeh, L. Mainshadnia

The Seismic Investigations of the Seismic Region of the Kambarata HPS-2 (SHR-8: O6)

M. Shuyfer, M.P. Kamchybekov, E.S. Argal, K.A. Yegebersdyeva, Y. Kamchybekov

11:15-11:30 Coffee Break

Lecture Hall

RED BLUE GREEN BEIGE CORNER

Session

Hamomising the Earthquake History of Europe (NIS-2)
Earthquake Precursors and Forecast (EFP-2)
Instrumental Seismic Intensity Scales (SHR-12)
Communication about Earthquakes – New Challenges in a Sensitised Society.

Lecture Hall

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Conveners

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11:00-11:15

Sparse Historical Earthquake Data and Related Uncertainties (NIS-2: O5)

R.E. Tatevossian, P. Maenttanimi, T.N. Tatevossian

Predators and Forecasting of Earthquakes on the Territory of the Republic of Armenia (EFP-2: O15)

H.M. Petrosyan

About Seismic Hazard of Toktogul Hydroelectrical Station in the Central Asia (SHR-8: O8)

M.T. Usmanova, D. Rust, A.M. Korjenkov, A. Tibaldi

Method Meets Application: on the Use of Earthquake Scenarios in Disaster Preparedness and Response (EO 1+2+3: O4)

S. Sargent, M.B. Sorensen

11:15-11:30 Coffee Break
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:30-11:45</td>
<td>Maximum Seismic Intensities in Iberia in the 1300-2011 Record (NIS 2: O6)</td>
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<td><em>M.J. Jimenez, J. Batillo, A. Beltran, P. Teves-Costa, M. Garcia-Fernandez, M. Matias</em></td>
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<td>Radioastronomy Method or Outline the Precursors of Major and Perceptible Earthquakes (EFP 2: O6)</td>
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<td><em>D. Shanker, E.E. Papadimitriou</em></td>
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<td>Comparison of Three Techniques for Estimation of Instrumental Intensity (SHR12: O1)</td>
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<td><em>F. Aptikiev, H. Sandi</em></td>
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<td>Risk Communication in the Context of the Global Earthquake Model (EO 1+2+3: O5)</td>
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<td><em>F. Halinger, R. Pinho, N. Katzer, M. Pagani, H. Crowley, C. Burton</em></td>
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<td>Is it Possible to Control Seismic Processes? (EP7: O6)</td>
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<td><em>V.S. Seleznév, A.A. Brykin, A.V. Lisitskin</em></td>
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<tr>
<td>11:45-12:00</td>
<td>Comparison of Three Techniques for Estimation of Instrumental Intensity (SHR12: O3)</td>
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<td><em>E. So, T. Blake, P. Denton, A. Sauron-Sornette</em></td>
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<td>12:00-12:15</td>
<td>Seismograms Recorded in Schools: Education Tools or Scientific Data? (EO 1+2+3: O6)</td>
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<td><em>S. Solatino</em></td>
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<td>12:15-12:30</td>
<td>Earthquake Induced Temperature Changes in Borehole Yun – 1 (Kurenshe Island) (EPF 2: O9)</td>
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<td><em>A.K. Sharma, R.N. Haridas</em></td>
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<td>New Mathematical Method to Make Online Shakesnap of Ground Motion from Records of Seismic Stations (SHR12: O3)</td>
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<td><em>O. Mayyas</em></td>
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<td>12:30-12:45</td>
<td>The Development and Growth of the Dias Seismology in Schools Outreach Programme Since 2008 (EO 1+2+3: O8)</td>
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<td><em>P. Denton</em></td>
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<td>The Hellenic School Seismology Network (EO 1+2+3: O9)</td>
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<td>Registration of Free Earth's Oscillations with a Global Scintillation En-Detectors (DAP 6: O1)</td>
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<td>Some Problems of Experimental Investigations with Powerful Seismic Vibrators (EP7: O8)</td>
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<td><em>V.V. Kovalevsky, B.M. Glinsky, M.S. Khainestov</em></td>
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<td>13:00-14:30</td>
<td>Harmonisation of European Earthquakes: the European-Mediterranean Earthquake Catalogue (SMEE) (NIS 2: O6)</td>
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<td><em>S. Vlaidides, V. Trifonov, R. Caputo, L. Stochi</em></td>
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<td>Study of Infrasonic Precursors to Earthquake (EFP 2: O30)</td>
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<td><em>J. Lv, Y.C. Yang, L.K. Zhang</em></td>
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<td>Towards a More Comprehensive Approach to the Concept of Seismic Intensity (SHR12: O3)</td>
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<td>The Early Age of Systematic Scientific Earthquake Observation in Switzerland, 1875-1900 (NIS 2: O8)</td>
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<td><em>R. Grollmund</em></td>
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<td>Study of the Interaction of Geomagnetic Field and Atmospheric Pressure with Biological Rhythm of the Heart in Hypertensive Patients Living in Yerevan (EPF 2: O11)</td>
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<td><em>A. Torkov, R. Gyulbudagyan, S. Kocharyan, H. Petroyan, M. Aptikiev</em></td>
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<td>12:45-13:00</td>
<td>Active Seismic Monitoring Using High-Power Moveable 40-100-Tons Vibration Sources – Results of Research in Altay-Sayan Region of Russia (EP7: O7)</td>
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<td><em>V.M. Seleznev, V.S. Seleznév, A.F. Emnov, V.N. Kashaun, S.A. Elagin, A.V. Lisitskin</em></td>
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<td>Earthquakes in the Hellenic Arc and Trench System (NIS 2: O9)</td>
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<tr>
<td>13:00-14:30</td>
<td>Discussion</td>
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<td>The Ecology Problems and Possibilities to Manage Them: the Need to Create a Global Geophysical Monitoring System (DAP 6: O2)</td>
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<td><em>I.G. Kerimov, S.I. Kerimov</em></td>
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</tbody>
</table>

**Lecture Hall**

**RED**

- Geology and Seismology for Seismotectonic Studies (NIS 3: NIS 3)
- Operational Issues in Seismic Hazard Forecast Prediction (EFP 5: EFP 5)
- HV Method in Theory and Practice (SHR 6: SHR 6)
- Temporal Variations of EM Response Functions as Indicator of Geodynamic Processes and an Earthquake Forecast Prediction (EFP 4: EFP 4)

**BLUE**

- Seismotectonic Base of Seismic Hazard Assessment of Russia (NIS 3: O1)
- On Operational Earthquake Forecast Prediction (EFP: O5)
- Combing Horizontal Ambient Vibration Components for HV Spectral Ratio Estimate (SHR: O1)
- Dynamic Response of Ambiant Vibrations (SHR: O1)

**GREEN**

- Seismological Studies in Ukraine (NIS 3: O3)
- Topography of the Longmen Shan in the Eastern Tibetan Plateau and its Insights into the Earthquake-Induced Hazards (NIS 3: O3)
- Operational Evaluation of Earthquake Prediction Lessons Learned from Greece (EFP: O2)

**BEIGE**

- Seismological Studies in Ukraine (NIS 3: O3)
- Topography of the Longmen Shan in the Eastern Tibetan Plateau and its Insights into the Earthquake-Induced Hazards (NIS 3: O3)
- Operational Evaluation of Earthquake Prediction Lessons Learned from Greece (EFP: O2)

**CORNER**

- Seismoacoustic Phenomena – Observations and Interactions (DAP 6: O1)
- Seismological Studies in Ukraine (NIS 3: O3)
- Topography of the Longmen Shan in the Eastern Tibetan Plateau and its Insights into the Earthquake-Induced Hazards (NIS 3: O3)
- Operational Evaluation of Earthquake Prediction Lessons Learned from Greece (EFP: O2)
**European Seismological Commission**

**33-rd General Assembly**

**European Seismological Commission**

**GA ESC 2012, 19-24 August – Moscow, Russia**

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<tr>
<th>Time</th>
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<tr>
<td>15:00-15:15</td>
<td>Results And Lessons from 9 Years of the Experiment of Precursors (RTP) (EFP4: О3)</td>
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<tr>
<td>15:15-15:30</td>
<td>Ground Penetrating Radar Imaging of Active Faults in the Alpine – Adriatic Region – Slovenia (EFP5: О3)</td>
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<tr>
<td>15:30-15:45</td>
<td>Seismic Monitoring of North Tehran Active Fault and its Ground Sources (EFP5: О4)</td>
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<tr>
<td>15:45-15:55</td>
<td>New Deterministic Seismic Hazard Assessment and Earthquakes Recurrence Analysis (EFP5: О5)</td>
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<tr>
<td>16:15-16:30</td>
<td>Use of Response Functions for Monitoring of Geodynamical Sources (EFP5: О7)</td>
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<tr>
<td>16:30-17:00</td>
<td>Coffee Break (PLANT)</td>
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YOUNG SEISMOLOGISTS TRAINING COURSE

Dates
August 25 — Arrival to Obninsk.
August 30 — Departure to Moscow.

General information
The ESC has always put a great emphasis on the training of Young Scientists. The free-of-charge Training Course it offers to selected applicants in the days following its General Assembly is proof of this commitment.

The ESC2012 Training Course will take place from August 25 to August 30, 2012 at headquarter of Geophysical Survey RAS in Obninsk City (100 km from Moscow). It will be dedicated to some aspects of seismic monitoring and seismic data analysis and led by the Geophysical Survey RAS. The YSTC will be coordinated by Prof. Alexey Malovichko, Director of Geophysical Survey RAS.

The program YSTC scheduled lectures, seminars and workshops. For the participants will be organized by a cultural program.

The ESC2012 LOC will provide to the selected applicants
- The Training Course teaching — Obninsk City at headquarter of Geophysical Survey RAS
- The accommodation in appropriative hotels of the Obninsk from August 25 to August 30, 2012.
- Meals during the Training Course.
- Transportation from Moscow to Obninsk and back.

Place of Venue — Obninsk, Russia
Obninsk is a city in Kaluga Oblast, Russia, located 100 kilometers from Moscow. Obninsk is one of the major Russian science cities. In 2000, it was awarded the status of the First Science City of Russia. The first nuclear power plant in the world for the large-scale production of electricity opened here in 1954, and it also doubled as a training base for the crew of the Soviet Union's first nuclear submarine.

Now the city is home to twelve scientific research institutes. Their main activities are nuclear power engineering, radiation technology, medical radiology, and meteorology. Obninsk is famous for its meteorological tower which was built to study spreading of radiation from the nuclear station. The Geophysical Survey of RAS (GS RAS), is also situated here.
### August 28, 2012

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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>11:30-12:00</td>
<td>Coffee break</td>
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<tr>
<td>12:00-13:30</td>
<td>Topic 2. Fundamentals of data mining of the statistical properties of scalar time series and sequences of events (Prof. Alexey Lyubushin)</td>
<td>Conference Hall of Geophysical Survey of RAS</td>
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<td>14:00-15:00</td>
<td>Launch</td>
<td>Dinning Room at City House of Scientists, Obninsk</td>
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<tr>
<td>17:15-18:30</td>
<td>Topic 2. Fundamentals of data mining of the statistical properties of scalar time series and sequences of events (Prof. Alexey Lyubushin)</td>
<td>Conference Hall of Geophysical Survey of RAS</td>
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<tr>
<td>18:45</td>
<td>Transfer to Hotel</td>
<td>CIAS, Obninsk</td>
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<tr>
<td>19:00-20:00</td>
<td>Dinner</td>
<td>CIAS, Obninsk</td>
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<tr>
<td>08:00-09:00</td>
<td>Breakfast in Hotel</td>
<td>CIAS, Obninsk</td>
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<td>09:30-10:00</td>
<td>Transfer to GS of RAS</td>
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<td>10:00-11:30</td>
<td>Topic 3. Seismology in mines (Dr. Dmitry Malovichko, Dr. Aleksander Mendecki, Dr. Ruslan Dyagilev)</td>
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<td>Conference Hall of Geophysical Survey of RAS</td>
</tr>
<tr>
<td>17:00-17:15</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>17:15-18:30</td>
<td>Topic 3. Seismology in mines (Dr. Dmitry Malovichko, Dr. Aleksander Mendecki, Dr. Ruslan Dyagilev)</td>
<td>Conference Hall of Geophysical Survey of RAS</td>
</tr>
<tr>
<td>18:45</td>
<td>Transfer to Hotel</td>
<td>CIAS, Obninsk</td>
</tr>
<tr>
<td>19:00-20:00</td>
<td>Dinner</td>
<td>CIAS, Obninsk</td>
</tr>
</tbody>
</table>

### August 30, 2012

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00-09:00</td>
<td>Breakfast in Hotel</td>
<td>CIAS, Obninsk</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>Transfer to GS RAS</td>
<td></td>
</tr>
<tr>
<td>10:00-13:00</td>
<td>YSTC Closing Plenary</td>
<td>Conference Hall of Geophysical Survey of RAS</td>
</tr>
<tr>
<td>14:00-15:00</td>
<td>Launch</td>
<td>Dinning Room at City House of Scientists, Obninsk</td>
</tr>
<tr>
<td>15:00-19:00</td>
<td>Excursion</td>
<td></td>
</tr>
<tr>
<td>19:00-20:00</td>
<td>Dinner</td>
<td>Restaurant “Izba”, Borovsk City</td>
</tr>
</tbody>
</table>

### EXHIBITION

**National Institute of Geophysics, Geodesy and Geography – Bulgarian Academy of Sciences**

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Tel. 979 3320 – Deputy director: Dr. D. Solakov

Tel. 971 3005; 979 3322 – Secretary: Dipl. eng. J. Rizova

E-mail: office@geophys.bas.bg

Tel. 971 3167; 979 3321 – Chief accountant: A. Stoïnova

National Institute of Geophysics, Geodesy and Geography – Bulgarian Academy of Sciences or NIGGG – BAS. NIGGG – BAS carrying out fundamental and applied research in 5 fields of science: Seismology, Geophysics, Geodesy, Geography and Seismic engineering. The Institute has 5 operative services: Seismological network, Geomagnetic service, Ionospheric service, Strong motion network and GPS network. The Institute is the unique institute in Bulgaria which delivers express earthquake information to the government and society. The NIGGG – BAS takes an active part in the international scientific co-operation.

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www: www.itz.ru

IPE is one of the most prominent centers of global and national geophysics. The Institute, founded in 1928, is one of the oldest scientific institutions of the Russian Academy of Sciences. It performs a wide range of fundamental and applied research of physics of the Earth.
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www: r-sensors.ru

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Seismological Society of America (SSA)
Address: 400 Evelyn Avenue, Suite 201, Albany, California 94706
Tel.: 510-525-5474
Fax: 510-525-7204
E-mail: info@seismosoc.org
www.seismosoc.org

The Seismological Society of America (SSA) is a scientific society devoted to the advancement of seismology and its applications in understanding and mitigating earthquake hazards, in imaging the structure of the earth, and in contributing to international security and well-being.
Meeting point: 19:00: August 22, 2012

Bus tour around Moscow

<table>
<thead>
<tr>
<th>Price</th>
<th>Duration</th>
<th>Start time</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4200 RUR</td>
<td>5 hours</td>
<td>10:00 a.m.</td>
<td>August 19 and 21, 2012</td>
</tr>
</tbody>
</table>

The Moscow Kremlin is a symbol of the Russian State, one of the greatest architectural complexes in the world, a treasure house of magnificent relics and monuments of art. We are pleased to invite you to visit the Moscow Kremlin also known as the Russian Government, which is a historic fortified complex in the very heart of Moscow, overlooking the Moskva River (to the south), Saint Basil’s Cathedral and Red Square (to the east) and the Alexander Garden (to the west). Moscow Kremlin is the most recognizable of all Russian sights and includes numerous palaces and cathedrals, and the famous red brick wall with 20 Kremlin towers. The complex serves as the official residence of the President of Russia.

Earth history museum

<table>
<thead>
<tr>
<th>Price</th>
<th>Duration</th>
<th>Start time</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2200 RUR</td>
<td>2 hours</td>
<td>11:00 a.m.</td>
<td>August 23, 2012</td>
</tr>
</tbody>
</table>

The Earth History Museum is the oldest museum in Moscow. It had been founded with the help of donations from the Demidovs (famous Russian magnates) in 1755 on the basis of the idea proposed by Michael Lomonosov. It is a scientific and educational centre of RAS in the field of the Earth’s sciences.

The museum offers a vast variety of collections gathered from all over the world during two and a half centuries. It continues Vernadsky’s doctrine on the unity of living and non-living matter, the relationship between the Earth and the cosmos, transformation of the biosphere into the noosphere (a sphere of the human mind) and human responsibility for the Earth’s environment.

Memorial Museum of Astronautics

<table>
<thead>
<tr>
<th>Price</th>
<th>Duration</th>
<th>Start time</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>25000 RUR</td>
<td>2 hours</td>
<td>10:00 a.m.</td>
<td>August 25-26, 2012</td>
</tr>
</tbody>
</table>

The Memorial Museum of Astronautics is dedicated to space exploration. It is located inside the Monument to the Conquerors of Space in the northeast of Moscow. The museum contains a vast variety of space-related exhibits and models which explore the history of flight, astronomy, space exploration, space technology and space in the arts. According to the Russian tourist board, the museum’s collection holds approximately 85,000 different items, and receives approximately 300,000 visitors per year.

Pre Assembly tour to St. Petersburg

<table>
<thead>
<tr>
<th>Price</th>
<th>Duration</th>
<th>Start time</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3900 RUR</td>
<td>3 days</td>
<td>11:00 a.m.</td>
<td>August 16-18, 2012</td>
</tr>
</tbody>
</table>

The Golden Ring post Assembly tour

<table>
<thead>
<tr>
<th>Price</th>
<th>Duration</th>
<th>Start time</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>20000 RUR</td>
<td>2 days</td>
<td>10:00 a.m.</td>
<td>August 25-26, 2012</td>
</tr>
</tbody>
</table>

The Golden Ring (Russian: Золотое кольцо) is a ring of cities north-east of Moscow, the capital of Russia. They formerly comprised the region known as Zalesye. These ancient towns, which also played a significant role in the formation of the Russian Orthodox Church, preserve the memory of the most important and significant events in Russian history. The towns have been called “open air museums” and feature unique monuments of Russian architecture of the 12th–18th centuries, including kremlins, monasteries, cathedrals, and churches. These towns are among the most picturesque in Russia and prominently feature Russia’s famous onion domes.
We would like to invite you to take part in the «3D-Visualization of the Seismological Data on a Virtual Globe» – an exciting excursion prepared by the Center for Virtual History of Science and Technology of the Vavilov’s Institute of the History of Natural sciences and Technology of RAS in cooperation with the Geophysical Service of RAS. The tour will feature different types of seismic data based on semi-transparent virtual globe: catalogs of seismic events, subduction zones, seismic tomography data, etc. All data are shown in stereoscopic 3D-regime below the surface of the Earth. Display parameters can be adjusted in real time according to the wishes of the audience. Also, participants will be offered a 5-minute viewing stereo film “Giant Geyser - The Valley of Geysers. Kronotsky Nature Reserve, Kamchatka.”

Venue: Presidium of the Russian Academy of Sciences
Dates:
August 20, 13:00; August 20, 14:00
August 21, 13:00; August 21, 14:00
August 22, 13:00; August 22, 14:00
August 23, 13:00; August 23, 14:00
You can book a ticket at your Personal page or Onsite for the most convenient time.
Duration: 15-20 minutes
Meeting point: Registration desk
Price: "FREE"
EUROPEAN SEISMOLOGICAL COMMISSION
33-rd GENERAL ASSEMBLY
August 20-24, Moscow, Russia

Seismology without boundaries

TAMARA ZAVALNAYA soprano
ALEXANDRA BASHILOVA soprano
LUCIA ITALYANSKAYA mezzo-soprano
MAXIM YAKIMOV tenor
KONSTANTIN IVANOV baritone
ANDREW KOKOSHKIN bass
JULIANA KISLITSYNA violin
KONSTANTIN VENYVTSEV flute
MAXIM ZOLOTARENKO cello
IGOR BOGUN clarinet
MARIA BATOVA piano
NATALIA MITROFANOVA comments & text
ALEXANDRA KAMENSKIH comments & installation
MAYA VINO PAL installation
ALEXANDER DERIBIN bass
IGNAT MATYUKHOV drums
OLEG MITROFANOV concept, installation & text

S. Rachmaninoff, "Elegy" for piano
M. Glinka. Aria of Lyudmila with the violin from the opera "Ruslan and Lyudmila"
P. Tchaikovsky, lyrics by V. Zhukovsky. Duet of Lisa and Polina from the opera "The Queen of Spades"
S. Rachmaninoff. "Belituyu - ramyanityu" mini-mono-opera with puppets
S. Rachmaninoff, lyrics by F. Tyutchev. "Everything was taken from me..."
Russian folk song "The Night"
S. Rachmaninoff, lyrics by V. Merezhkovsky. "Charmed by a rose, the nightingale..."
P. Tchaikovsky: Variation and Waltz of the Big Trio "In memory of the Great Artist"
Japanese folk song "Summer Fields" (in Japanese)
N. Rimsky-Korsakov, lyrics by A. Pushkin. "Come into our home..."
S. Taneyev: Quartet "Come into our home..." from the opera "Chestrela"
P. Tchaikovsky: Melody and Waltz-Scherzo for Violin and Piano
M. Rechikov, lyrics by A. Bobrovnikov. "Spanish Serenade"
W-A. Mozart. Papageno & Papagena Duet from "The Magic Flute" (in German)
M. Rimsky-Korsakov, lyrics by A. Ostrovsky. The third song of Let from the opera "The Snow Maiden"
P. Tchaikovsky, lyrics by A. Pushkin. Gremin’s aria from the opera "Eugene Onegin"
M. Glinka, lyrics by N. Kuoklin. "The Doubt"
Russian folk song, "Along the Piterianska"
P. Tchaikovsky, lyrics by I. Sunkov. "The Dawn"

Concert duration: 1 hour 10 minutes, without entr’acte

GALA DINNER

Date & Time: 20:00, August 23, 2012
Venue: Grand Banquet hall of Restaurant “Sputnik”
Address: 38, Leninsky Prospect, Moscow, Russia
Price per person:
1700 RUR — for registered participants
3700 RUR — for unregistered accompanying persons

Invitation

On behalf of the Organizing Committee of the 33rd General Assembly of the European Seismological Commission we have the honor to invite all participants of the Assembly to attend the Gala Dinner.
Participants are offered to spend a delightfull evening enjoying mouthwatering meal and drinks, discussing the results of the Assembly with their colleagues as well as getting new professional acquaintances in a friendly informal atmosphere of the gala-dinner.
We will be sincerely glad to see you on a Gala Dinner!