

## Call for Papers

### INTERNATIONAL CONGRESS AND EXHIBITION

### “NATURAL CATAclysms AND GLOBAL PROBLEMS OF THE MODERN CIVILIZATION”

### GEOCATACLYSM - 2011

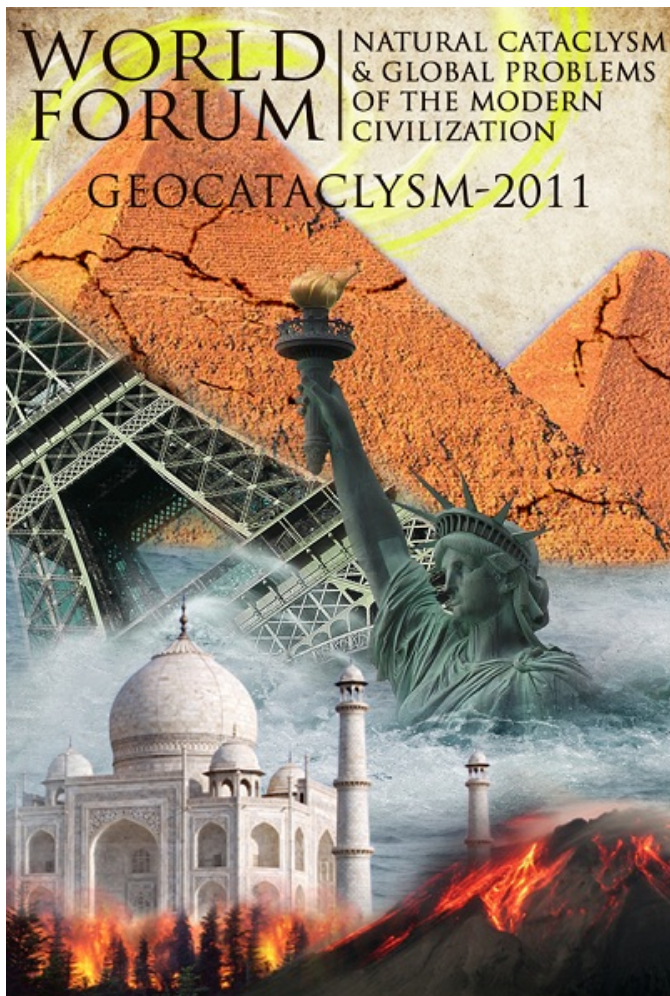
#### Background



During the last few years, scientists around the world have been witnessing alarming changes in the environment; these changes are of global significance for the entire planet. Global changes can now be observed throughout all of the Earth, including its core, mantle, lithosphere, hydrosphere, atmosphere, ionosphere, and magnetosphere.

According one of the world's largest insurance companies Swiss Re (Switzerland), economic damage from natural disasters in 2010 alone totaled \$ 222 billion, which is three times the economic losses for the year 2009 (\$ 63 billion). According to the report by the UN Economic Commission of for Latin America and the Caribbean (ECLAC/CEPAL), 2010 natural disasters have killed 300,000 people in Latin American countries, with material damage amounting to 49.4 billion dollars.

Based on data analysis for earthquakes, volcanic eruptions, tsunamis and other geological and geophysical processes, it demonstrates that the Earth's geodynamical activity has been continuously increasing over the last 100 years; the tendency has even significantly intensified during the recent decades. This is reflected in the number of fatalities and extent of economic damage caused by natural disasters. A similar situation can be observed in the atmospheric processes, a fact that has been repeatedly indicated in the UN IPCC (Intergovernmental Panel on Climate Change) reports. When combined, global environmental changes caused by anthropogenic and natural factors amplify the resulting negative effect on the progress of civilization.



*It has to be acknowledged that humankind is not prepared to enter the global natural cataclysms era, either technologically, economically, legally, or psychologically. A joint effort by scientists, international organizations and governments of different states under the aegis of the UN is needed in order to take effective measures to counter natural disasters and to minimize the casualties and damage they cause to humanity.*

*The International Congress will bring together representatives of all interested countries and organizations to convene an emergency forum and collectively discuss the most topical problems with the purpose to reduce casualties and damage caused by natural disasters. The ultimate goal of the Congress is to discuss and approve the "INTERNATIONAL EMERGENCY PROGRAM TO REDUCE RISKS AND NEGATIVE CONSEQUENCES OF NATURAL CATAclysms" developed jointly by the International Committee GEOCHANGE, WOSCO, GNFE and a group of international experts aimed to prepare a set of international laws on cooperation of the world community in disaster-stricken areas, prediction of natural disasters, earthquake engineering and other important issues. Following a Congress resolution, the program will be presented to the UN Secretary-General and sent to all countries' leaders and legislative bodies for consideration and appropriate action. There are some special sections of the Congress: the General Assembly of the International Committee GEOCHANGE on Global Environmental Change and the International Conference "Forecasting Earthquakes-2011". We can already state that the Congress is going to be attended by representatives of more than 100 countries, with prominent scientists, members of parliaments and governments of various countries, famous social activists and policymakers among them.*

### **Organizing Committee of Congress:**

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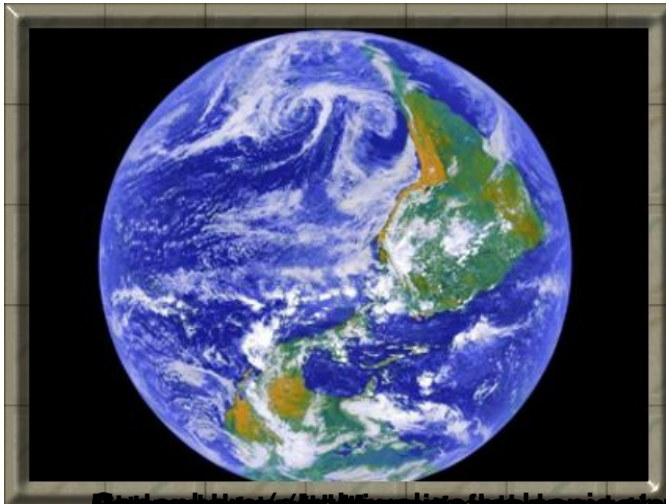
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## **Sections of congress**

### **SECTION 1**

**Earth Sciences:**



- **Earthquake (tectonics, plate tectonics, geodynamics, geophysics, geology, etc.)**

## SECTION 2

### Economy and finances:



- **Economic impact of natural cataclysms**
- **Insurance sector**
- **Banking sector**
- **International aid**
- **International law**
- **Statistics**
- **Other problems**

## SECTION 3

### Transport:





- **Disaster preparedness and management problems**

#### **SECTION 4**

**Health care:**



- **First aid**
- **Epidemics**
- **Rehabilitation**
- **Psychological and social aspects**
- **Management and coordination**
- **International law**
- **New technologies**
- **Other problems**

#### **SECTION 5**

**Emergency management:**



- Firefighting, rescue and coordination

## SECTION 6

### Construction:



- Earthquake engineering
- Quality control systems
- International standards
- New technologies
- Building materials
- Other problems

## SECTION 7

### Ecology and Environment:



- Evaluation of the impact of natural catastrophes

## SECTION 8

Communication systems and information technologies:



- Communication systems for management of emergency situations
- Communication systems for people in disaster zones
- Communication systems and international law
- Information technologies to be applied in emergency situations
- New technologies

## SECTION 9

International and national law:





- **International symposium on legal issues related to natural disasters**

#### **SPECIAL SECTIONS**

- **GENERAL ASSEMBLY OF INTERNATIONAL COMMITTEE ON ISSUES OF GLOBAL CHANGES OF THE GEOLOGICAL ENVIRONMENT GEOCHANGE;**
- **[INTERNATIONAL CONFERENCE AND EXHIBITION “EARTHQUAKE FORECASTING – 2011 \(EFC-2011\)”](#);**
- **TRAINING SEMINAR OF THE GLOBAL NETWORK FOR THE FORECASTING OF EARTHQUAKES**