Critical infrastructures protection represents an ever increasing concern in modern societies. The continuity of vital services supply is a necessary condition in order to maintain the political stability, the effectiveness of the governance, the economic flow of activities and the security of the citizen. The critical infrastructures are more and more: connected, interdependent and smart. They are simply more and more complex systems. This growing complexity rends the modern society highly competitive, productive and prosperous. However, it increases the vulnerability of the modern societies. Enhancing the critical infrastructures preparedness and resilience becomes then a major target for many actors in the modern society: academy, CIs’ operators, decision makers, crises managers and civil society. Preparedness and resilience of CIs are dependent on the nature of both: the CIs and the threat. Effective Modelling, Simulation and Analysis (MS&A) activities of the CIs preparedness and resilience can’t but consider both: the CIs and the threats.

The European Safety, Reliability and Data Association (ESReDA) as one of the most active EU-networks in the field has initiated a project group (CI-PR/MS&A-Data) on the “Critical Infrastructure/Modelling, Simulation and Analysis – Data”. The main focus of the project group is to report on the state of progress in MS&A of the CIs preparedness & resilience with a specific focus on the corresponding data availability and relevance.

In order to report on the most recent developments in the field of the CIs preparedness & resilience MS&A and the availability of the relevant data, ESReDA will hold its 48th Seminar on the following thematic: “Critical Infrastructures Preparedness: Status of Data for Resilience Modelling, Simulation and Analysis (MS&A)”. The 48th ESReDA seminar will be held on May 28-29, 2015, hosted by the Wroclaw University of Technology, Poland.
Topics:

- Threats characterisation & modelling
- Scenarios identification & analysis
- Cascade effect modelling & analysis
- CIs’ Dependencies/Interdependencies
- Resilience Modelling & Simulation
- CIs’ Dynamic Modelling
- Crisis modelling & management
- Decision Support Systems (DSS) for CIP
- Data collection & treatment
- Databases & Interfacing
- Governance and CIP issues
- EU R&D Programs

Domains:

**Critical Infrastructures & Services**
- Water supply
- Electrical power generation & supply
- Gas & Oil production & transport
- Railway transportation
- Air-transport & airports
- Maritime transport & ports
- ICT networks
- Massive data storage & servers
- Process industry
- Supply chain process

**Threats**
- Extreme weather conditions
- Volcanic eruptions
- Earthquakes
- Floods
- Landslide
- Forest fire
- Offshore oil spill
- Hazardous materials transport & storage
- Wastes disposal

Technical Program Committee:

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ESReDA Contact:

All enquiries can be forwarded to Maria Ouboukhalik (maria.ouboukhlik@insa-rouen.fr) and Mohamed Eid (mohamed.eid@cea).
Instructions for authors

The seminar language is English. Proposals of contributions (draft-papers) should be no longer than 12 pages in Words format following the instructions to authors that are available on ESReDA site:

http://www.esreda.org/

Proposals should be sent before February 27th, 2015, to Maria Ouboukhlik (maria.ouboukhlik@insa-rouen.fr) and Mohamed Eid (mohamed.eid@cea.fr).

Relevant Dates

- Deadline for draft-papers : February 27th, 2015
- Notification of authors : March 20th, 2015
- Submission of final-papers : April 24th, 2015
- The Seminar : May 28th – 29th, 2015

Related Events

- ESReDA Project Groups Meeting : May 27th, 2015 (private meetings)
- ESReDA Board of Directors : May 27th, 2015 (ESReDA private meeting)
- ESReDA General Assembly : May 28th, 2015 (17:30-19:00)
- Social evening : May 28th, 2015 (20:00-)

Registration & Fees

A registration form and information package for the venue will be available soon on the ESReDA website. Please notice that:

- Speakers: One speaker per accepted paper is exempted.
- ESReDA members: 3 participants/member are taken in charge by ESReDA.
- Participants : Fees are 300 € to be paid by bank transfer to ESReDA account:

  Holder : ESReDA – “48th Seminar”
  Bank : BNP-Paribas Fortis Bank, Boulevard Jamar 1D, 1060 Bruxelles, Belgique
  IBAN : BE69 0012 3728 1678
  BIC : GEBABEBB

Transportation, Accommodation & Practical Information

Detailed information about transportation, accommodation and other practical issues will be issued soon.

All arrangements regarding transportation and accommodation should be directly undertaken by the participants.

You can equally follow up on:

http://www.esreda.org/
Wrocław University of Technology

Wrocław University of Technology is an inheritor of the tangible property of the German Königliche Technische Hochschule Breslau and the intellectual and research traditions of the Lvov Polytechnic. The university has been functioning under the current name since 1945. It was established and organised by researchers from Lvov and Warsaw. Since the very beginning of its existence, it has been an important centre of technical education. Today, it belongs to the best technical universities in Poland – over 34 000 students study here under the guidance of 2 000 academic teachers, at the 12 faculties, as well as in the 3 regional branches. It rates high in the annual rankings of Polish universities.

The excellent geographical location, teaching and research backup, and the developing infrastructure are the key assets of Lower Silesia, which have convinced international corporations to make investments here. Recently, the region has seen some spectacular enterprises by the global potentates of advanced technology. Projects by such companies, as Volvo, Toyota, Volkswagen, Whirlpool, WABCO, Siemens, and LG Philips, with the latter attracting two other partners – 3M and Toshiba, have been implemented in the recent years in Lower Silesia.

Wrocław University of Technology was also the co-ordinator of the Lower Silesian Centre for Advanced Technologies. It was set up by a consortium of Wrocław universities and local companies. The activity of the Centre focuses on four areas: design, production, and application of advanced materials; computer science; renewable energy sources and life quality (clean technologies, biotechnology, pharmaceutics, health food production technologies).

http://www.portal.pwr.wroc.pl/

ESReDA Project Group on CI-PR/MS&A-Data

The ESReDA project group on “Critical Infrastructure-Preparedness and Resilience: Modelling, Simulation and Analysis – Data, CI-PR/MS&A-Data” was created in 2013. The project group is focusing on the identification of relevant data necessary to develop models and to perform effective simulation and analysis of the CIs resilience and preparedness. Data is considered in their wider sense, it could be: failure data of systems and components, occurrence likelihood data for threats, integrating or federating platforms, and tools for decision support systems regarding crisis management.

All ESReDa project groups are expert groups opened to experts in the concerned field whether they are members of ESReDa or not.

All ESReDa project groups should end up by publishing a collaborative technical document on the concerned subject within 3 years of activity. The document is registered as EU-document.

The ESReDA PG contact is Dr. Mohamed Eid (mohamed.eid@cea.fr).

http://www.esreda.org/