

52<sup>nd</sup> ESReDA Seminar On  
**Critical Infrastructures: Enhancing Preparedness & Resilience for the  
security of citizens and services supply continuity**

30-31 May 2017, Lithuanian Energy Institute & Vytautas Magnus University,  
Kaunas, Lithuania



## Announcement and Call for papers

### Scope of the seminar

Critical Infrastructures Preparedness and Resilience (CIP&R) is a major societal security issue in modern society. Critical Infrastructures (CIs) provide vital services to modern societies. Some CIs' disruptions may endanger the security of the citizen, the safety of the strategic assets and even the governance continuity.

The critical role that CIs play in the security of modern societies is a direct effect of the ever-increasing spread out of the information technology (IT) in every smallest task in man's daily-life. The continuous progress in the IT fields pushes modern systems and infrastructures to be more and more: intelligent, distributed and proactive. That increases the productivity, the prosperity and the living standards of the modern societies. But, it increases the complexity of the systems and the infrastructures, as well. The more complex a system is, the more vulnerable it will be and the more numerous the threats that can impact on its operability. The loss of operability of critical infrastructures may result in major crises in modern societies.

To counterbalance the increasing vulnerability of the systems, engineers, designers and operators should enhance the system preparedness and resilience facing different threats. Much interest is currently paid to the Modelling, Simulation & Analysis (SM&A) of the CI in order to enhance the CIs' preparedness & resilience.

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 52<sup>nd</sup> Seminar on the following thematic: "*Critical Infrastructures: Enhancing Preparedness & Resilience for the security of citizens and services supply continuity*".

The 52<sup>nd</sup> ESReDA seminar will be held on May 30-31, 2017, hosted by the Lithuanian Energy Institute and Vytautas Magnus University, Kaunas, Lithuania.

## Topics

- Threats identifications & specifications
- CIs disruptions MS&A
- CI's vulnerability MS&A
- CIs' dependencies and interdependency MS&A
- Data and Databases
- Emergency and crises management models & tools
- IT inferences on CIs preparedness & resilience
- Standards & Ontology in the domain of CI protection (CIP)

## Domains

### Critical Infrastructures Sectors

- Air-transport & airports
- Electrical power generation & supply
- Gas & Oil production, storage & transport
- ICT networks
- Massive data storage & servers
- Maritime transport & ports
- Medical & health care
- Process industry
- Railway transportation
- Supply chain process
- Water supply and water works

### Threats

- Extreme weather conditions
- Natural threats
  - Earthquake
  - Flood
  - Forest fire
  - Landslide
  - Torrential rain
  - Tsunami
  - Volcanic eruptions
- Industrial & technological accidents
- Financial & stock market perturbation
- Wastes disposal

## Chairman of the Seminar

- ESReDA President
- Head of LEI or Representative

## Technical Programme Committee (TPC)

Alzbutas Robertas	(Lithuanian Energy Institute, Lithuania)
Andrews John	(University of Nottingham, United Kingdom)
Augutis Juozas	(Vytautas Magnus University, Lithuania)
Avizienis Algirdas A.	(University of California, Los Angeles, USA)
Berg Heinz-Peter	(Federal Office for Radiation Protection (BfS), Germany)
Chateaufort Alaa	(Polytech Clermont-Ferrand Blaise Pascal University, France)
Dechy Nicolas	(IRSN, France)
Demichela Micaela	(Politecnico di Torino, Italy)
Dundulis Gintautas	(Lithuanian Energy Institute, Lithuania)
Eid Mohamed	(CEA, France)
Estel Lionel	(Institut National de Sciences Appliquées - INSA, France)
Ferreira Luís	(Universidade do Porto, Portugal)
Flourentzou Nikolas	(University of Cyprus – UCY, Cyprus)
Kolowrocki Krzysztof	(Gdynia Maritime University, Poland)
Kopustinskas Vytis	(JRC Ispra, Italy)
Kortner Henrik	(SAFETEC, Norway)
Kyriakides Elias	(University of Cyprus - UCY, Cyprus)
Lannoy André	(Institut de Maîtrise des Risques - IMdR, France)
Messias Ricardo	(Electricity of Portugal - EDP, Portugal)
Młyńczak Marek	(Wroclow University of Technology, Poland)
Nikitakos Nikitas	(University of the Aegean, Greece)
Nowakowski Tomasz	(Wroclow University of Technology, Poland)
Pestana Maria	(Electricity of Portugal - EDP, Portugal)
Piegdon Izabela	(Rzeszow University of Technology, Poland)
Pietrucha Katarzyna	(Rzeszow University of Technology, Poland)
Popov Perter	(City University of London, United Kingdom)
Raza Mohammad	(GENERAL ELECTRIC (Switzerland) GmbH, Switzerland)
Rosato Vittorio	(ENEA, Italy)

Setola Roberto	(Università CAMPUS Bio-Medico di Roma, Italy)
Sfetsos Thanasis	(N.C.S.R. DEMOKRITOS, Greece)
Skorupka Dariusz	(Military Academy of Land Forces, Poland)
Smal Tomasz	(Military Academy of Land Forces, Poland)
Sola Antonio	(INGEMAN, Spain)
Soszyńska-Budny Joanna	(Gdynia Maritime University, Poland)
Stoop John	(Kindunos, Netherlands)
Sýkora Miroslav	(Technical University in Prague, Czech Republic)
Tchórzewska-Cieślak Barbara	(Rzeszow University of Technology, Poland)
Theocharidou Marianthi	(JRC Ispra, Italy)
Urbonas Rolandas	(Lithuanian Energy Institute, Lithuania)
Ušpuras Eugenijus	(Lithuanian Energy Institute, Lithuania)
Werbińska-Wojciechowska Sylwia	(Wroclaw University of Science and Technology, Poland)
Zio Enrico	(Politecnico di Milano, Italy)
Žutautaitė Inga	(Lithuanian Energy Institute, Lithuania)

### Local Organization Committee (LOC)

For practical local information relative to the venue, please, contact:

Linas Martišauskas ([linas.martisauskas@lei.lt](mailto:linas.martisauskas@lei.lt)) with Inga Žutautaitė ([inga.zutautaitė@lei.lt](mailto:inga.zutautaitė@lei.lt)) and Ričardas Krikštolaitis ([ricardas.krikstolaitis@lei.lt](mailto:ricardas.krikstolaitis@lei.lt)) in Cc.

### Relevant dates

- Draft of paper: **February 19<sup>th</sup>, 2017**
- Authors notification: March 3<sup>rd</sup>, 2017
- Camera-ready papers: March 31<sup>st</sup>, 2017
- Date of seminar: May 30<sup>th</sup>-31<sup>st</sup>, 2017
- ESReDA project group's meetings: May 29<sup>th</sup>, 2017
- ESReDA Board of Directors meetings: May 29<sup>th</sup>, 2017
- ESReDA General Assembly: May 30<sup>th</sup>, 2017
- ESReDA gala dinner: May 30<sup>th</sup>, 2017

### Instructions to Authors

The seminar language is English. Proposals of contributions (draft-papers) should be no longer than 12 pages in Microsoft Word format following the instructions to authors that are available on ESReDA site: <http://www.esreda.org/event/52nd-esreda-seminar/>

A draft paper is not an abstract and should clearly contain:

- The tentative title,
- The name of the principal author,
- The objectives of the paper,
- The used methodology ,
- The findings (hopefully excepted),
- A part of the used bibliography.

Proposals should be sent to Inga Žutautaitė ([inga.zutautaitė@lei.lt](mailto:inga.zutautaitė@lei.lt)) and Mohamed Eid ([mohamed.eid@cea.fr](mailto:mohamed.eid@cea.fr)).

### Registration and Seminar Fee

A registration form and the practical information package will be made available on the ESReDA website. Fees, according to ESReDA's rules, are:

- Speakers: one speaker per accepted paper is exempted.
- ESReDA Effective Members: 3 participants/member are taken in charge by the Seminar.
- Reduced fees: 150€/participant (Lithuanian research institutes, academia and governmental bodies)
- Others: 300€/participant
- Accompanied persons for Gala dinner: 25€/acc. person

To be paid by bank transfer to ESReDA account:

Holder : ESReDA  
Bank : BNP Paribas Fortis Bank, Boulevard Jamar 1 D, 1060 Bruxelles, Belgique  
IBAN : BE69 0012 3728 1678  
BIC : GEBABEBB  
Subject : Registration into the 52<sup>nd</sup> ESReDA Seminar

### **Lithuanian Energy Institute – LEI**

The Lithuanian Energy Institute was established in 1956. LEI is a technical research centre dealing with energy related research in renewable energy (wind, biomass), smart grids, analysis of security of energy supply, energy efficiency (modelling and consulting), simulation of complex energy systems, energy planning (municipal, regional, country, international level), nuclear safety and radioactive waste management, structural integrity assessment of components and structures, thermal physics and fluid mechanics, combustion engineering, hydrogen storage, plasma research, material research (accredited laboratory), metrology (accredited and notified laboratory), hydrology studies (modelling of hydrodynamic and sediment processes).

[www.lei.lt](http://www.lei.lt)

### **Vytautas Magnus University – VMU**

Vytautas Magnus University was established in 1922 and re-established in 1989 in Kaunas, Lithuania. It is one of the most liberal and modern universities in Lithuania and recognized worldwide – ranked among top 800 universities by QS World University Rankings and U-Multirank Ranking. At present, there are 10 faculties at VMU: Arts, Catholic Theology, Economics and Management, Humanities, Informatics, Law, Natural Sciences, Political Sciences and Diplomacy, Social Sciences, Music Academy, over 7,500 students of 50 nationalities and over 480 members of academic staff.

Vytautas Magnus University is the city's hub of academic, scientific and cultural activities, distinguished by its liberal education system (Artes Liberales), humanist spirit, cultivation of creativity and opportunities for wider, more universal enlightenment.

[www.vdu.lt/en/](http://www.vdu.lt/en/)

### **ESReDA**

ESReDA membership is open to organisations, privates or governmental institutes, industry researchers and consultants, who are active in the field of Safety and Reliability.

Membership fees are currently 1000 EURO for organisations and 500 EURO for universities and individual members. Special sponsoring or associate membership is also available.

For more information on ESReDA, contact:

ESReDA General Secretary: Inga Žutautaitė ([inga.zutautaitė@lei.lt](mailto:inga.zutautaitė@lei.lt))

ESReDA address: European Safety, Reliability & Data Association, an International Non-Profit Scientific Association under the Belgium law (June 27, 1921, Title III). Headquarter: ESReDA, rue Gachard 88 Bte 14, B-1050 Bruxelles, Belgium, Siret:E00005802.

Any interested party is welcome to contribute to ESReDA project groups.

<http://www.esreda.org>

### **ESReDA Project Group on CI-P&R**

The project group “CI-PR/MS&A-Data” is working on a comprehensive technical document on the existing Data and models that have been developed and are used in the fields of the CIP. Establishing a comprehensive state-of-the-art may hopefully lead to identifying lacks and measures to complete lacking data or lacking organisation to acquire data. These data are a critical input to all Modelling, Simulation and Analysis activities.

The technical document will be published with a EUR Tech-Doc reference number, by the end of 2018.

It will be published with the names of all the co-authors. The contribution to the technical document is open to all Experts in CIP with no restriction of being an ESReDA member.

The technical document will be available on ESReDA site for free download.

### **Seminars Proceedings**

Selected papers of the 52<sup>nd</sup> ESReDA seminars will be published in a journal of the Lithuanian Academy of Sciences ENERGETIKA (Power Engineering) indexed in EBSCO, INSPEC, Index Copernicus and SCOPUS.



## Venue

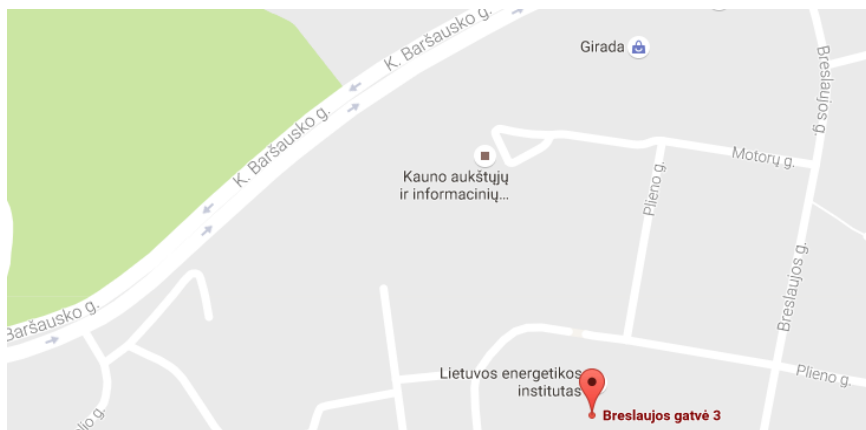
### 52<sup>nd</sup> ESReDA Seminar (30-31 May, 2017)

Vytauto Didžiojo universitetas / Vytautas Magnus University (VMU)  
S. Daukanto g. 28 (Small Hall, 2<sup>nd</sup> floor)



### BoD & Project Group Meetings (29 May, 2017)

Lietuvos energetikos institutas / Lithuanian Energy Institute (LEI)  
Breslaujos g. 3 (Small Hall, 2<sup>nd</sup> floor, room 202)



## Transportation

### Airport information

Vilnius airport – <http://www.vilnius-airport.lt/en/>

Kaunas airport – <https://www.kaunas-airport.lt/index.php?lang=en>

### Timetables and tickets for Vilnius <-> Kaunas travel

**By Train** – <https://www.traukiniobilietas.lt/portal/en>

#### **Airport – Vilnius (Vilnius railway station) – Kaunas (with 1 change in Vilnius railway station)**

There is a special train “*Airport-Vilnius*” running regularly from Airport. The train shuttles 16 times a day (service is available from 6 a.m. till 10 p.m.), it takes 7 minutes to arrive to the railway station from the airport. The ticket costs EUR 0.70 (cash only). It can be purchased on-line, in the train and at the railway station. Next to the airport passenger terminal, there is a railway stop, stairs and an elevator for passengers as well as lighting and passenger safety surveillance camera. There is a footway leading from the railway stop to the airport terminal for passengers; the footway has an installed gallery (it is illuminated during the dark time of the day).

*Vilnius-Kaunas* (Kaunas railway station): tickets for train “*Vilnius-Kaunas*” can be purchased on-line, in the train (additional costs of 1.5€, cash only) and at the railway station.

**By Bus** – <http://www.autobusubilietai.lt/index.php?cl=start&lang=0>

**Airport – Vilnius (Vilnius bus station) – Kaunas (with 1 change in Vilnius bus station)**

*Airport-Vilnius* (Vilnius Bus Station): the company *Toks* transports passengers from Vilnius airport to the bus station and back by minibuses. Single ticket costs EUR 1 (cash only). Bus stop is installed next to the airport terminal, near arrival hall C ([timetable](#))

*Airport-Vilnius* (Vilnius bus station): Public buses run from Vilnius airport to Vilnius bus station: No. 1 and No. 2 (final stop is Vilnius bus station “Stotis”), No. 88.

*Vilnius-Kaunas* (Kaunas bus station): tickets for bus “*Vilnius-Kaunas*” can be purchased on-line, in the bus (cash only) and at the bus station.

### **By Taxi-cab**

Vilnius Taxi: +370 52 444444, +370 52 611111, +370 52 310310

Kaunas Taxi: +370 682 02020, +370 682 66664, +370 650 33554

**Car rental** – <http://www.vilnius-airport.lt/en/planning-a-trip/car-rental/>

## **Accommodation**

### **List of hotels in Kaunas**

Kaunas \*\*\*\* (recommended)

Laisvės al. 79, 44297 Kaunas

Site: <http://www.kaunashotel.lt/>

Prices: 60-80€ per night

Park Inn by Radisson Kaunas \*\*\*\* (recommended)

K. Donelaičio g. 27, 44240 Kaunas

Site: <http://www.parkinn.lt/hotel-kaunas>

Prices: 70-90€ per night

Europa Royale Kaunas \*\*\*\*

Miško g. 11, 44321 Kaunas

Site: [http://www.groupeuropa.com/europa\\_royale/kaunas\\_hotel/](http://www.groupeuropa.com/europa_royale/kaunas_hotel/)

Prices: 60-85€ per night

Daugirdas Old City Hotel \*\*\*\*

T. Daugirdo g. 4, 44279 Kaunas

Site: <http://www.daugirdas.lt/en/>

Prices: 55-70€ per night

Amberton Cozy \*\*\*\*

V.Kuzmos g. 8, 44280 Kaunas

Site: <http://ambertonhotels.com/en/kaunas/>

Prices: 50-70€ per night

BEST WESTERN Santakos Hotel \*\*\*\*

J. Gruodžio g. 21, 44293 Kaunas

Site: <http://santakahotel.eu/EN/Kaunas>

Prices: 55-70€ per night

Ibis Kaunas Centre \*\*\*

Vytauto prospektas 28, 44328 Kaunas

Site: <http://www.ibis.com/gb/hotel-8622-ibis-kaunas-centre/index.shtml>

Prices: 40-60€ per night

## **City & Practical Information**

Kaunas city info web page: <http://www.kaunastic.lt/index.php/en/>

