



JUNE 18-22
PORTOROŽ
SLOVENIA



University of Ljubljana
Faculty of *Electrical Engineering*

**Welcome
to 27th International
European Safety and Reliability Conference
ESREL 2017
Portorož, Slovenia**





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SLOVENIA versus Europe

2 million people versus 743 millions

47 km of (Adriatic) coast versus more than 66000 km

1 ESREL conference versus 26 previous ESREL conferences

Slovenia is ranked as 145th in the World by population

Slovenia is small. The best things come in small packages.





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Number of the last Winter Olympic Games 2014 Medals versus Population

Rank	Country	Medals	Population	Population per Medal
1	Norway	26	5,005,700	192,526
2	Slovenia	8	2,057,540	257,192
3	Austria	17	8,452,835	497,225





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Worldwide Campaign Save the Children Issued the END OF CHILDHOOD INDEX

<https://campaigns.savethechildren.net>

Index scores reflect the average level of performance across a set of eight indicators related to child health, food, education, labor, marriage, childbirth and violence.

World Top Countries where childhood is the least threatened

1 Slovenia

1 Norway

3 Finland

4 Netherlands

4 Sweden





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Alphabet of ESREL 2017

A, B, C,...Z of ESREL 2017

A...Aven (Terje), conference general co-chair, ESRA Chairman

B...Briš (Radim), technical program chair

C...Čepin (Marko), conference general chair

...

Z... Zio (Enrico), steering committee chair





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ESREL 2017 Introduction

- The annual European Safety and Reliability Conference
ESREL is an international conference under the auspices of the European Safety and Reliability Association (ESRA).
- ESREL 2017 is an opportunity for researchers and practitioners, academics and engineers to meet, exchange ideas and gain insights from each other.





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Terje Aven

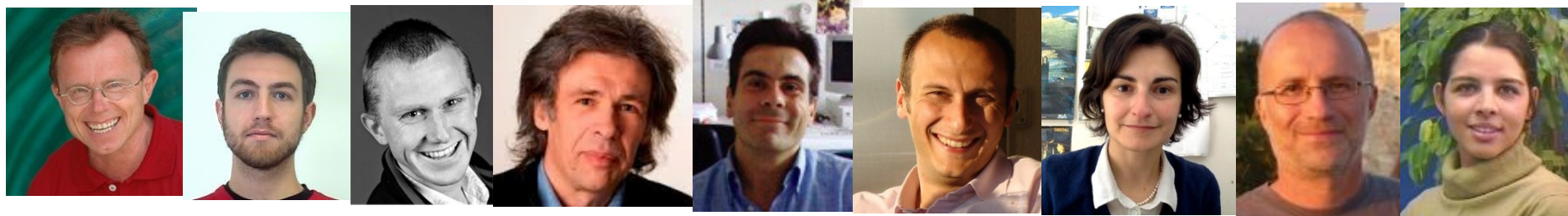
Conference General Co-Chair

ESRA Chairman

European Safety and Reliability Association

(esrahomepage.eu)

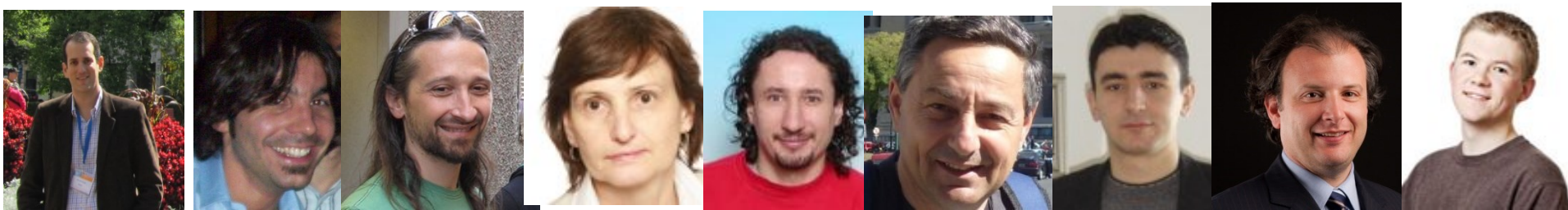




Stig Johnsen Nicola Paltrinieri Eirik B. Abrahamsen Terje Aven Enrico Zio Luca Podofillini Chiara Leva Christophe Béranger Mitra Fouladirad



John Andrews Nicolae Brinzei Piero Baraldi Ivonne Herrera Eric Rigaud Marko Cepin Henrik Hassel Lesley Walls David Valis



Marcelo Hazin Nicola Pedroni Edoardo Patelli Jana Markova Martin Krejsa Gregory Levitin Serkan Eryilmaz Emanuele Borgonovo Roger Flage



Darren Prescott Valerio Cozzani Gabriele Landucci Nima Khakzad Raphael Steenberg Giovanni Sansavini Michalis Christou Mahmood Shafiee



Elena Zaitseva



Ralf Mock



Olga Fink



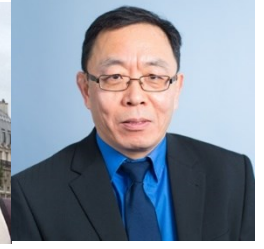
Bob Huisman



Benoit lung



François Peres



Jin Wang



Ingrid B. Utne



Mario Brito



Pieter van Gelder



Bas Kolen



Sebastian Martorell



Francesco Di Maio



Ben Ale



Reniers Genserik



Sissel H. Jore



Zdenek VINTR

ESRA Technical Committees

Methodologies
Accident and Incident modeling
Economic Analysis in Risk Management
Foundational Issues in Risk Assessment and Management
Human Factors and Human Reliability
Maintenance Modeling and Applications
Mathematical Methods in Reliability and Safety
Prognostics and System Health Management
Resilience Engineering
Risk Assessment
Risk Management
Simulation for Safety and Reliability Analysis
Structural Reliability
System Reliability
Uncertainty analysis

Application areas - Technological Sectors
Aeronautics and Aerospace
Chemical and Process Industry
Civil Engineering
Critical Infrastructures
Energy
Information Technology and Telecommunications
Land Transportation
Manufacturing
Maritime and Offshore technology
Natural Hazards
Nuclear Industry
Occupational Safety
Security

Summary of TC Chair responsibilities:

(esrahomepage.no)

1. Support the ESREL conference by leading the paper reviewing process for topics of the TC
2. Organize at least one special session or roundtable in a topic relevant for the TC every second year at the ESREL conference
3. Organize at least one specific seminar/webinar/etc in a topic relevant for the TC every second year
4. Provide at least one article to the ESRA website/newsletter per year
5. Ensure updated website for TC
6. Together with the ESRA administration keep track of members/interested persons of the TC. Inform these persons with relevant news
7. Communicate with the ESRA Chairmen on relevant issues



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ESRA

esrahomepage.eu





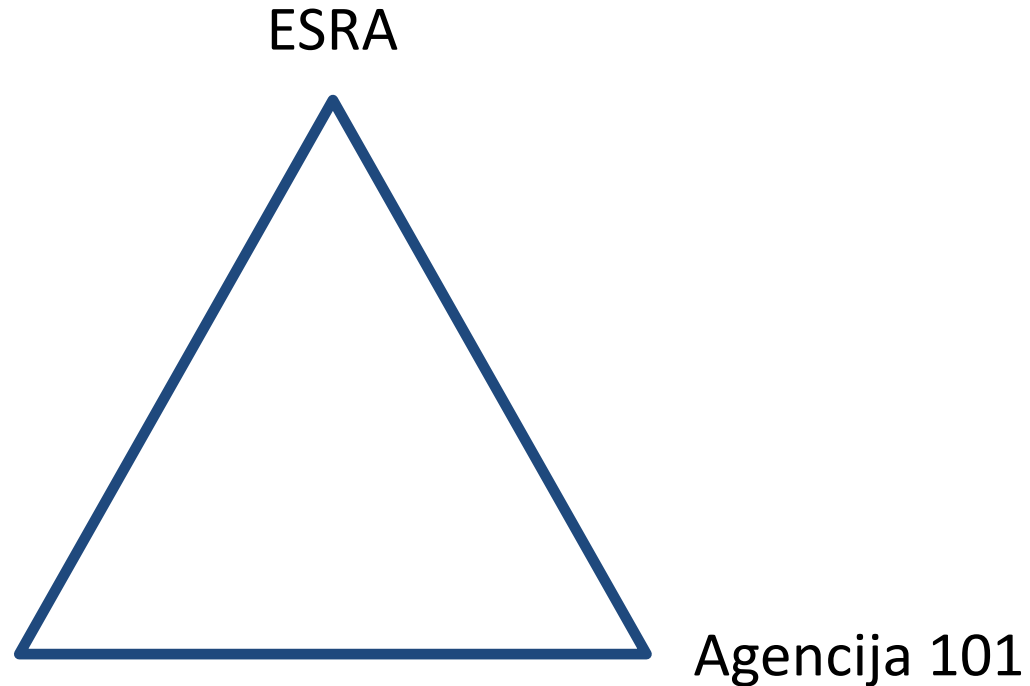
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Organisation

Faculty of Electrical Engineering
University of Ljubljana
founded 1919





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Prof. dr. Igor Papič

Dean

Faculty of Electrical Engineering, University of Ljubljana

Elected Rector of University of Ljubljana

(on duty from autumn 2017)





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Conference Program

ESREL 2017 Proceedings:

Safety & Reliability, Theory and Applications

Paper book of abstracts and electronic media
with full papers





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Conference program

- Daily opening - invited plenary lecture (5)
- 10 parallel sessions (3 or 4 or 5 or 6 papers per session), including software workshops, including panel discussion,
- preESREL workshop (Sunday)
- ESRA Assembly (for members only)
- Meeting of ESRA TC on Maintenance Modelling and Applications
- Walk to Piran in groups of other ESRA TC
- Plenary session





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Conference – food and drink

- Welcome reception
- Morning coffee breaks,
- Afternoon coffee breaks
- Lunches
- Dinner





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ACKNOWLEDGMENT

Terje Aven, Radim Briš, Enrico Zio – management help,

27 ESRA TC Chairs and Co-Chairs, Technical Program Committee (122 members) – reviews

Krzysztof Kołowrocki, Qamar Mahboob, Coen van Gulijk, Arturo González, Emmanuel Raimond, Andrej Prošek - special sessions

Bob Huisman, Pierre Dersin for panel discussion, Willy Røed and Roger Flage - pre ESREL workshop

Andrej Stritar, Stephan Hirschberg, Enrique López Droguett and Antoine Rauzy – invited lectures

Dino Zupančič, Maša Pogorevc, Leon Škrilec, Tamara Korat, Samo Gašperič – for organisation

YOU ALL – for papers and presentations





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Sponsors

SILVER SPONSOR HBM PRENSCIA



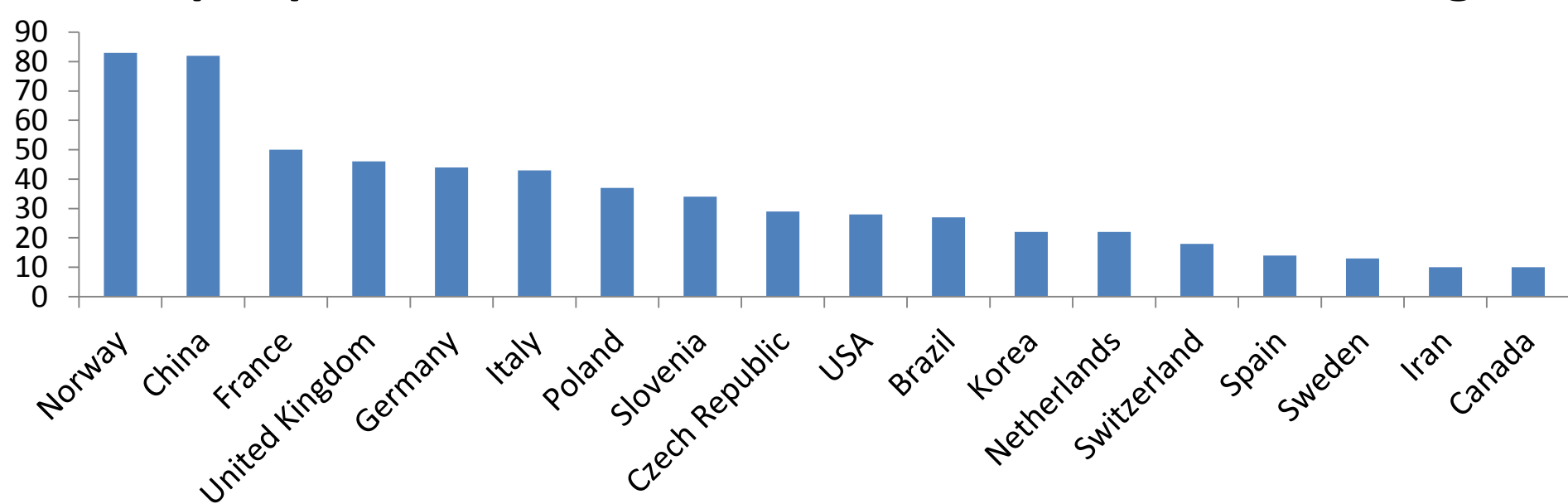


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600 people interested in ESREL from 49 countries – login



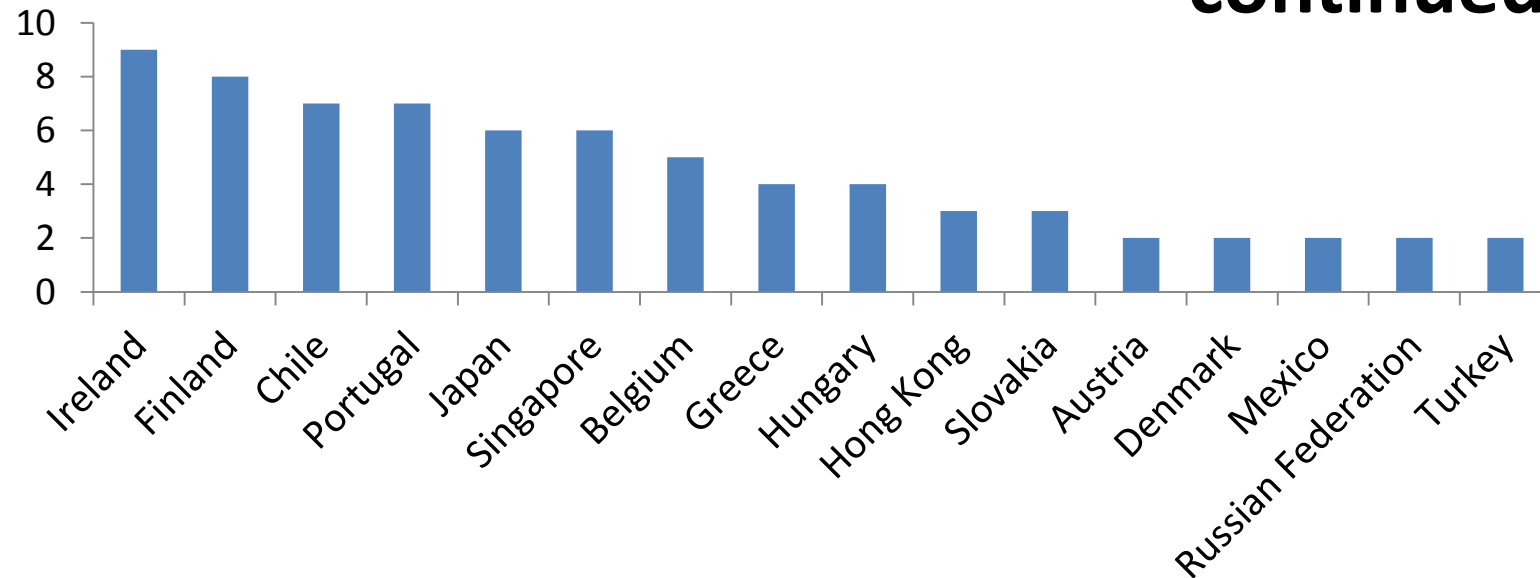


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People interested in ESREL by countries continued



Algeria
Australia
Bulgaria
Cyprus
Estonia
India
Indonesia
Israel
Latvia
Lithuania
Macedonia
Pakistan
Romania
South Africa
Ukraine





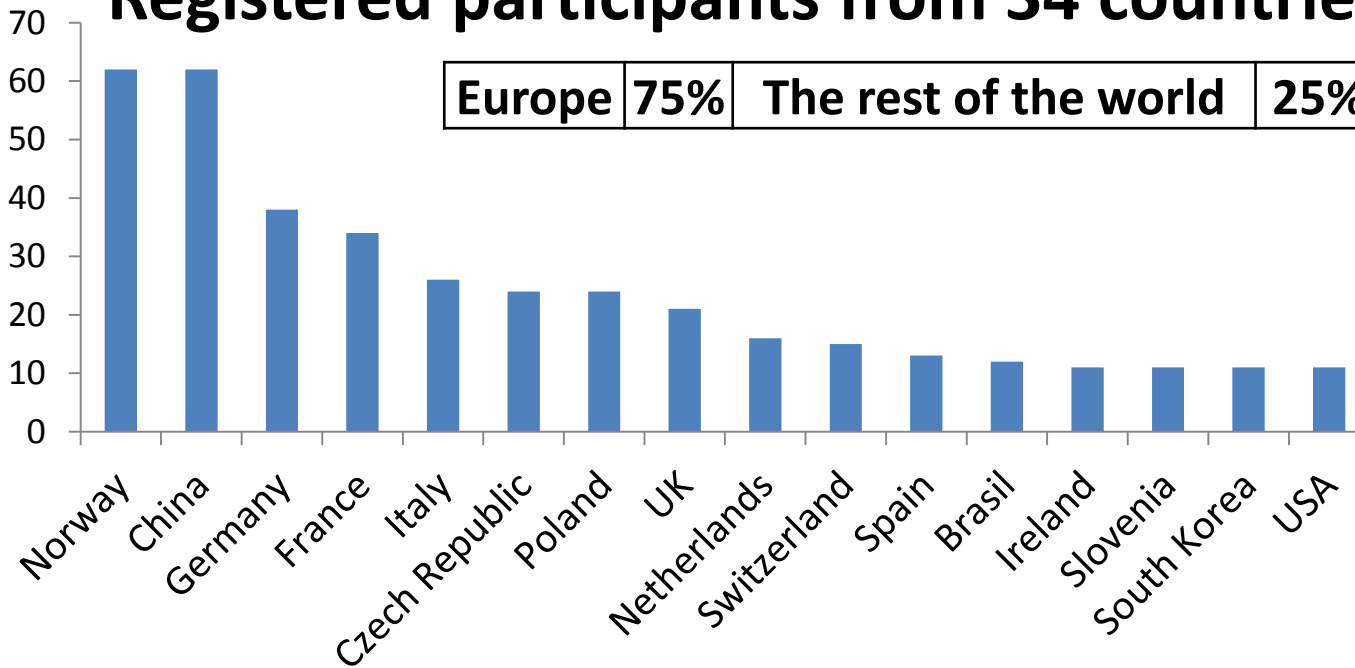
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Finland	7
Japan	7
Sweden	7
Portugal	6
Russia	6
Hungary	4
Belgia	3
Chile	3
Denmark	3
Singapore	3
Canada	2
Austria	1
Bulgaria	1
Estonia	1
Greece	1
Lithuania	1
Mexico	1
Slovakia	1

Registered participants from 34 countries





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Images of risk – 22 contributions

Participant and Author	Group	Participant and Author	Group
Heinrich Mödden	Industry	Jennifer E. Lynette	PhD student
Aleš Filip	Academia	Nursedad Yildirim Yurusen, Maik Reder	PhD student
Rui Du	Academia	Alessandro Mancuso	PhD student
Terje Aven	Academia	Christian H. A. Kuran	PhD student
Sónia H. Marques	Academia	Roberto Rocchetta	PhD student
Inga Zutautaitė	Academia	Per Gustafson	PhD student
Claudia Morsut	Academia	Goran Stanković	PhD student
Behnaz Hosseinnia	Academia	Dhruv Pandya	PhD student
Alexey Leksin	Academia	Martin Hromada	n/a
Claudia Vivalda	Academia	Yana Kritskaya	Not ESREL participant
Jiří J. Urbánek and Jiří F. Urbánek	Academia+PhD student	Biloborodova Tetiana	Not ESREL participant





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Papers and presentations

- Data about 701 professionals was inserted into the conference system
- More than 640 abstracts have been submitted.
- followed by more than 480 papers
- The TPC (122 members) reviewed papers –
at least 2 committee members reviewed each paper
- 455 papers have been approved





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ESRA EVENTS

- Monday, June 19, 17:20-18:00, Meeting of the Technical Committee on Maintenance Modelling and Applications, Emerald 1
- Monday, June 19, 19:00-20:00, Walk to Piran in groups (grouped by 27 ESRA Technical Committees, led by ESRA TC Chairs) – 1.5 km in one direction, meeting point: Grand Hotel Bernardin Reception (only in the case of good weather – no rain)
- Tuesday, June 20, 17:30-19:00, ESRA General Assembly Meeting (for members only), Emerald 1





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SOCIAL EVENTS

- Monday, June 19, 19:00-21:00, ESREL 2017 - Welcome reception (Grand Hotel Bernardin), Floor 11
- Wednesday, June 21, 20:00-23:00, Conference Gala Dinner (Grand Hotel Bernardin – Floor 10)
- The number of places at social events is limited (included in registration). Please contact the registration desk for later ticket availability before Monday.
- Please inform the registration desk about your dietary requirements for Gala dinner before Tuesday noon.
- Dress code: casual





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CONFERENCE APP

- Download the Guidebook App free for IOS and Android devices from the Apple App Store or Google Play Store
- Download our very own ESREL2017 Guidebook
- Note that the first download may take a little time, but later updates will be fast
- A web version is also available and can be accessed via the guidebook site guidebook.com





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GUIDELINES FOR PRESENTERS AND SESSION CHAIRS

- Each presentation - 15 minutes, + 5 minutes for discussion
- Session chairs - keep exactly to the timetable
- Presenters - upload - presentation – 10 min before their session
- Presenters - meet the Session Chair 10 min before the session
Provide short written biographical statements to the Session Chair
- Session Chairs - the responsibility to introduce the speakers, lead the discussions, and ensure that the session schedule is observed
- 20-minute total time allocation for each presenter





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INTERNET ACCESS

Login: ESREL, Password: ESREL2017

REGISTRATION DESK (wear the badge)

- Sunday 18th June: 16:00 – 19:00
- Monday - 19th June 8:00 – 15:40
- Tuesday - 20th June, 8:50 – 15:40
- Wednesday - 21st June: 8:50 – 15:40
- Thursday 22nd June: 8:50 – 11:30





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SPONSORS EXHIBITION

at Floor 11 next to the conference reception

CONFERENCE GUIDES

- Registration Desk

ESREL 2017 STAFF

- A guide will be available in each room for contributed presentations and also generally available to help
- Guides will be identifiable by their ESREL2017 t-shirts





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Conference rooms

Floor 11

- 7 rooms: Emerald 1, Emerald 2, Mediteranea 1, Mediteranea 2, Adria 1, Adria 2, Pharos

Floor 12

- 3 rooms: Europa (A+B), Europa C, Europa D





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Candidates for best papers

Email to Marko Čepin
marko.cepin@fe.uni-lj.si
conference@esrel2017.org





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ACCOMPANYING PERSON PROGRAM - WHAT TO DO AFTER THE CONFERENCE

- POSTOJNA CAVE
- PREDJAMA CASTLE
- LIPICA
- PIRAN, THE DREAM CITY
- UNESCO THE ŠKOCJAN CAVES - WORLD HERITAGE
- THE SALT PANS IN SLOVENIA NOWADAYS
- BECHES OF BERNARDIN, PORTOROŽ (...+Sand Beach), PIRAN...





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Thank you for your attention

We wish you a pleasant stay and many fruitfull discussions during the ESREL 2017 conference





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WHAT TO DO AFTER THE CONFERENCE



Postojna Cave – Walk and Train



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WHAT TO DO AFTER THE CONFERENCE



Postojna Cave



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WHAT TO DO AFTER THE CONFERENCE



Proteus – human fish - can survive without food for years



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