





October 29-30, 2015, Clos Chapelle-aux-Champs, B-1200, Brussels, Belgium

PRELIMINARY PROGRAM

28/10/2015: ESReDA PRIVATE MEETINGS

09:00-17:00	ESReDA Project Group Meetings
14:00-17:00	ESReDA Board of Directors Meeting
20:30-23:00	TPC private dinner

29/10/2015: 1ST DAY

08:15 - 09:00	Registration
09:00 - 09:30	Welcome & Opening

Session S1a: Human and Organisational factors Chaired by:

9.30 – 9.50 Methods, Techniques and Tools to Understand Human Error in Industrial Activities: a review

José Sobral, Edgar Serrano - ISEL – Instituto Superior de Engenharia de Lisboa, Lisboa, Portugal

Luis Ferreira - FEUP – Universidade do Porto Faculdade de Engenharia, 4200-465 Porto, Portugal

9.50 – 10.10 Human Reliability Assessment – A critical review of the current status tracing a roadmap for further development.

Costanza Ciarapica Alunni - School of Psychology, Trinity College of Dublin (TCD), Ireland et al.

10.10 - 10.30 Developing methods for human reliability analysis for novel domains: experiences and perspectives

Luca Podofillini, Dhruv Pandya, Vinh Dang.

10:30 -10:50 Coffee Break







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Session S1b: Human and Organisational factors Chaired by:

10.50 - 11.10 Application of HEART (Human Error Assessment & Reduction Technique) methodology to assess the human risk factor – nuclear power plant context

PICAND Sébastien - ALSTOM Power SA, Levallois-Perret, France

11.10 – 11.30 Improving Safety through gaming: A serious game's application for risky professions

Evanthia Giagloglou, Ivan Macuzic - University of Kragujevac, Kragujevac, Srbija Panagiotis Antoniou, Panagiotis Bamidis - Aristotle University, Thessaloniki, Greece

11.30-11.50 **Predicting the Optimal Testing Strategy for Maintenance Procedures** Yang Zhang, Sean Reed and John Andrews - Centre for risk and Reliability Engineering, University of Nottingham Magnus Karlberg, Faste Laboratory - Lulea University of Technology

11.50 - 12.10 **Title to be defined** Trotta V., Cencetti S. et al. – HSE, FCA s.p.a., Turin, Italy

12.10 - 12.30 **Title to be defined** Demichela et Al.

12:30 -14:00 Lunch

Session S2: Safety and HOF management for maintenance Chaired by:

14:00 - 14:20 Assessment of safety management of maintenance outages : a human and organisational factors approach

Dechy N., Thellier S., Rousseau J-M., Pansier J., Jeffroy F. - Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France

14.20 - 14.40 Reducing the human factor in servicing of equipment at the enterprises that use WCM

Kushch S. - FCA Srbija doo Kragujevac, Srbija, Demichela M., Milosevic M. - Dipartimento di Scienza Applicata e Tecnologia Politecnico di Torino, Italia







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14.40 - 15.00 Advanced model for safety oriented man-workplace system management in automotive industry

Alberto Petruni, Ivan Mačužić - Faculty of Engineering, University of Kragujevac, Srbija Nikolić Saša - Environment, Health & Safety, FCA Srbija doo Kragujevac, Srbija

15.00 - 15.20 The Development of a Maintenance Process Performance Model and Modelling Language

Yang Zhang, Sean Reed and John Andrews - Centre for risk and Reliability Engineering, University of Nottingham

Magnus Karlberg, Faste Laboratory - Lulea University of Technology

15.20 – 15.40 Supporting Maintenance Decision with Empirical Models Based on Fleet-Wide Data

Sameer Al-Dahidi, Francesco Di Maio, Piero Baraldi, Enrico Zio - Energy Department, Politecnico di Milano, Italy

15:40 - 16:00 Coffee Break

Session S3: PHM and maintenance Chaired by:

16.00 – 16.20 Early fault detection and diagnosis in bearings for improved reliability and safety in packaging materials industry

Dragoljub Gajić, Jovan Gligorijević, Aleksandar Brković, Željko Đurović - Tetra Pak Production d.o.o., Serbia

16.20 – 16.40 Initial spare parts assortment decision making: a structured approach for rolling stock maintenance

A.J.J. Braaksma, L.A.M van Dongen, A. Martinetti, J. Ziggers - Universiteit Twente.

16.40 – 17.00 Towards the Integration of Human Reliability Analysis and Maintenance Prognostics within the Biopharmaceutical Industry

Darren McDonnell, Garret E. O'Donnell, Nora Balfe - Trinity College Dublin, Ireland Piero Baraldi, Ivan Bani - Energy Department, Politecnico di Milano, Italy

17.00 – 17.20 Maintenance in a passenger transportation company in Poland and in the Republic of South Africa

Marta Nowakowska, General Tadeusz Kosciuszko - Military Academy of Land Forces, Wrocław, Poland

Agnieszka Tubis - Wrocław University of Technology, Wrocław, Poland







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17.20 – 17.40 Validating the calculated Performance of Dutch Storm Surge Barriers and other Infrastructures by Process and Organizational Assessment

G.R. Kleijn van Willigen, Rijkswaterstaat H. van Meerveld, TNO

17.40 – 18.00 Sensitivity analysis of a time-to-crack-initiation corrosion model for a carbonated reinforced concrete.

Bejarano Pablo, de Larrard Thomas, Casaux-Ginestet Géraldine, Duprat Frederic - LMDC, UPS – INSA Toulouse, France

18:00 - 19:00 Supervisory Board InnHF Project

20:00 - 23:30 Seminar Gala Dinner (location to be defined)

28/10/2015: 2ND DAY

Session S4: Measurements, observation and data treatment

Chaired by:

9.00 – 9.20 Ergonomics of pushing and pulling: a training cart prototype

Evanthia Giagloglou, Ivan Macuzic, Milan Radenkovic, Marko Milosevic and Branislav Jeremic - University of Kragujevac, Kragujevac, Srbija

9.20 – 9.40 Avoiding Human Error through Easy Readable Spectra provided by Zhao Atlas Marks Distribution for Monitoring Rolling-Element Bearings

Christos Tsiafis, Evanthia Giagloglou, Petar Todorovic, - Department for Production Engineering, Faculty of Engineering, University of Kragujevac, Serbia

Christos Skeberis, Zaharias Zaharis, Ioannis Tsiafis, Thomas Xenos - Aristotle University of Thessaloniki, Greece

9.40 – 10.00 Neuroergonomics Studies of Monotonous and Repetitive Operations on Manual Assembly Tasks

Pavle Mijović, Ivan Mačužić, Ivan Gligorijević, Petar Todorović and Branislav Jeremić -Department for production engineering, Faculty of Engineering, University of Kragujevac, Serbia

Vanja Ković, Miloš Milovanović, Miroslav Minović - University of Belgrade, Serbia Maarten De Vos - Department of Engineering, Institute of Biomedical Engineering, University of Oxford, UK







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10.00 – 10.20 Behavioural yoga for pilots: Enabling good airmanship as a resilience strategy for civil flight operations

Frederik Mohrmann - National Aerospace Laboratory, Amsterdam, The Netherlands, John Stoop - Kindunos Consultancy, Gorinchem, The Netherland

10:20 -10:40 Coffee Break

Session S5: Lessons learned and use of the information gained Chaired by:

10.40 - 11.00 **Title to be defined** Patrucco et al., Poltecnico di Torino, Italy

11.00 - 11.20 **Title to be defined** Safer

11.20 - 11.40 **Title to be defined** Rota G - SIAD, Bergamo, Italy

11.40 - 12.00 **Title to be defined** Douglas

12.00 - 12.20 **Title to be defined** Farzad

12:30 -14:00 Lunch

Session S6 : Methods and application for HOF and risk assessment

12.00 - 14.20 Structured risk analysis for equipment subject to pressure equipment directive on distillation column example including human and organizational factors

Marko Djapan, Micaela Demichela, Dept. Applied Science and Technique, Politecnico di Torino, Italy

R. L. B. Raoni - Universidade Federal do Rio de Janeiro, Brasil

14.20 - 14.40 Integration of Human and Organizational Factor into ATEX (Explosive Atmosphere) Risk Assessment: The ATEX-HOF Methodology and Its Application

Jie Geng, Salvina Murè, Gianfranco Camuncoli - ARIA s.r.l., Torino, Italia Micaela Demichela, Baldissone Gabriele - Dipartimento di Scienza Applicata e Tecnologia Politecnico di Torino, Italia







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14.20 - 14.40 **Introduction of the human factor into the risk analysis** J.R. González Dan, Josep Arnaldos, R.M. Darbra - Chemical Engineering Department. Universitat Politècnica de Catalunya-BarcelonaTech, Barcelona, Catalonia, Spain.

14.40 - 15.00 New approach in the Food Safety Risk Management, involving Human Factor

Shirani M., Demichela M. - Dipartimento di Scienza Applicata e Tecnologia Politecnico di Torino, Italia

15.00 – 15.20 Integration of Human and Organizational Factors with Quantitative Risk Assessment based on Accident Investigation

Mehmood Ahmad, Marco Pontiggia, D'Appolonia S.p.A., San Donato M.se, Milan, Italy Micaela Demichela, Dipartimento di Scienza Applicata e Tecnologia Politecnico di Torino, Italia

Maria Chiara Leva, Trinity College Dublin, Ireland

15.30 - 16:00 Closure & announcement of the 50th ESReDA seminar