



2nd iNTeg-Risk Conference: New Technologies & Emerging Risks

Annual Topic: Dealing with multiple and interconnected emerging risks

June 15-16, 2010
Haus der Wirtschaft, Stuttgart, Germany
König-Karl-Halle, www.hausderwirtschaft.de

www.integrisk.eu-vri.eu

organized by EU-VRI (European Virtual Institute for Integrated Risk Management) in cooperation with ETPIS (European Technology Platform on Industrial Safety), EU-OSHA (European Agency for Safety and Health at Work), Steinbeis Advanced Risk Technologies and Steinbeis GmbH & Co. KG für Technologietransfer (StC)

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NOTE: The conference counts as a meeting project for ALL iNTeg-Risk project partners ("main beneficiaries", "Article 10 partner", "Subcontractors" and "IAB members") and their participation at the conference is stipulated by the Grant Agreement (Description of Work).

June 15, 2010

König-Karl-Halle

08:00 – 09:00 **Registration and getting together**
(Coffee & refreshments)

II.1. New Technologies & Emerging Risk'' – Plenary Session

09:00 – 10:30

Welcome & Introductory
(Chair: W. Gerhardt, BASF; O. Renn, EU-VRi; A. Jovanovic, EU-VRi)

II.1.1 Welcome - K. Tappeser, Permanent Secretary, Ministry of Science, Research and the Arts Baden-Württemberg, Germany (10')

II.1.2 Welcome - Standardized risk assessments reduce time of innovation processes - H. Trasch, President Steinbeis, Germany (5')

II.1.3 Welcome - Emerging risk management, a combination of technical expertise and risk governance - V. Laflèche, Director General, INERIS, France (10')

II.1.4 Welcome - C. Dumon, Consul General of France, Stuttgart, Germany (5')

II.1.5 Aspects of the Future Innovation Policy and the Industrial Safety Area - A. Boenke, European Commission DG Enterprise and Industry, Belgium (20')

II.1.6 Sustainability and life-cycle assessment in the policies of European Parliament and National Contract Points - P. Świątek, Project Management Jülich, Forschungszentrum Jülich GmbH (15')

II.1.7 WEF – GRR (World Economic Forum - Global Risk Report): Global risk landscape and implication on the industry - R. Schneider; Swiss Reinsurance Company, Switzerland (20')

Discussion (5')

10:30 – 11:00 **Coffee break**

11:00 – 12:30

Presenting iNTeg-Risk
(Chair: A. Boenke, European Commission; Ch. Huang, Beijing Normal University; V. Laflèche, INERIS)

II.1.8 Future Global shocks: are there prospects for progress on understanding propagation? - P.-A. Schieb, OECD, France (20')

II.1.9 EU perspectives on new industrial technologies and related innovation risk - A. Cipollaro, European Commission, Belgium (10')

II.1.10 Risk communication for emerging technologies - O. Renn, T. Assmuth, M. Hilden, University of Stuttgart; C. Benighaus, DIALOGIK, Germany (20')

II.1.11 iNTeg-Risk project: concept and first results - A. Jovanovic, EU-VRi, Germany (30')

Discussion (10')

12:30 – 14:00 **Lunch (buffet)**

II.2. New Technologies & Emerging Risk'' – Plenary Session (continued)

14:00 – 16:00

iNTeg-Risk, Industrial application aspects
(Chair: C. Duval, EDF; O. Salvi, EU-VRi; R. Schneider, Swiss Re)

II.2.1 Innovation as response to emerging risks – W. Gerhardt, BASF, Germany (20')

II.2.2 IRGC's approach to emerging risks – M.V. Florin, International Risk Governance Council, Switzerland (20')

II.2.3 Integrated Risk and Process Management - the key to identify emerging risks and compliance issues from a corporate point of view – U. Rothfuchs, DEKRA, Germany (20')

II.2.4 How to build efficient technological key performance indicators: A contribution to ensure a proper management of industrial safety - C. Duval, Y. Dien, EDF, France (20')

II.2.5 Voluntary certification for nanotechnologies - G. Klein, TÜV-SÜD, Germany (15')

II.2.6 Ensuring wide-scale exploitation of the iNTeg-Risk results: the modalities and added value of standardization - A. Pirlet, CEN - European Committee for Standardization, Belgium (15')

Discussion (10')

16:00 – 16:15 **Coffee break**

II.3. Sessions (parallel): iNTeg-Risk – first results

16:15 – 18:00	<p>Session 1 – Management Aspects of Emerging Risks (Chair: J. Lexow, BAM; E. Salzano, IRC-CNR; M. Ström, Swerea IVF)</p> <p>II.3.1 Tri-Level Decision Models for Interconnected Risk Analysis - J. Lu, G. Zhang, University of Technology, Australia; J. Montero, L. Garmendia, Complutense University, Spain (15')</p> <p>II.3.2 Emerging risk management needs early warning information – semantic web technology, applied to the internet, can generate it - L. Keller, Blue Ocean, Switzerland (15')</p> <p>II.3.3 A new methodology for NaTech (Natural-technological) risk assessment - M. Reimeringer, INERIS, France; E. Krausmann, JRC, Italy; V. Cozzani, R. Rota, CONPRICI, Italy; E. Salzano, IRC-CNR, Italy; I. Papazoglou, DEMOKRITOS, Greece (15')</p> <p>II.3.4 UML Modelling concepts of HAZOP to enhance the ability to identify emerging risks - M. Ström, Swerea IVF, Sweden; R. Koivisto, VTT, Finland; D. Andersson, Swerea IVF (15')</p> <p>II.3.5 On-line monitoring and assessment of emerging risk in conventional industrial plants –possible way to implement integrated risk management approach - G. Lenkey, P. Rózsahegyi, J. Németh, BZF, Hungary; A. Jovanovic, Steinbeis R-Tech, Germany (15')</p> <p>II.3.6 Risk based assessment of wind power generators and farms - E. Dias Lopes, A. Correia da Cruz, ISQ and ISEL Instituto de Soldadura e Qualidade, Portugal; J. Gonçalves, Instituto Superior de Engenharia de Lisboa, Portugal (15')</p> <p>Discussion (15')</p>
	<p>Session 2 – Technical & Engineering Aspects of Emerging Risks (Chair: I. Papazoglou, DEMOKRITOS; D. Pinchbeck, GERG; M. Zarea, GDF Suez)</p> <p>II.3.7 Start up of new process technology in the process industries: preparing for an extreme event - T. Lager, Grenoble Ecole de Management, France; N. Beesley, Loughborough University, England (15')</p> <p>II.3.8 Multi-attribute analysis of the severity of the consequences during urban gas pipeline risk assessment - Q. You, W. Zhu, K. Liu, Beijing Research Center of Urban Systems Engineering, China (15')</p> <p>II.3.9 First steps in developing an automated aerial surveillance approach - Murès Zaréa, Gael Pognonec, GDF SUEZ, France; Christina Schmidt, Tilo Schnur, Definiens, Germany; José Lana, Enagas, Spain; C. Böhm, GDS GmbH, Germany; Marco Buschmann, Mavionics, Germany; Chabane Mazri, INERIS, France; Eric Rigaud, Mines Paris Tech, France (15')</p> <p>II.3.10 Integrated risk assessment for onshore and offshore LNG terminals - O. Aneziris, I. Papazoglou, M. Konstantinidou, N.C.S.R. "DEMOKRITOS", Greece (15')</p> <p>II.3.11 On-Line monitoring and assessment of emerging risks in conventional industrial plants – possible way to implement integrated risk management approach and KPI's - M. Misita, Faculty of Mechanical Engineering, Serbia; P. Stanojevic, B. Orlic, NIS Petroleum Industry, Serbia; N. Tatalovic, EPS, TE-TO, Serbia; G. Lenkey, BZF-Bay Zoltan Foundation for Applied Research, Hungary (15')</p> <p>II.3.12 TR@IN-MD: A System aimed at intelligent transportation of dangerous goods by railway - A. Azarian, Institut Ligeron, France; V. Delcour, SNCF, France; J. M. Armani, CEA, France (15')</p> <p>Discussion (15')</p>
	<p>Session 3 – Human & Management Aspects of Emerging Risks (Chair: R. Flynn, Institute for Social, Cultural and Political Research; J. Thommesen, DTU; A. L. Vetere, JRC Ispra)</p> <p>II.3.13 Risk assessment of national and local eHealth platforms - O. Rienhoff, Universitätsmedizin Göttingen Georg-August-Universität, Germany (15')</p> <p>II.3.14 Human rights or humans looking for "rights" to protect themselves from advances and risks (unknown) of nanotechnologies - A. Stringhi Flores, W. Engelmann, Universidade do Vale do Rio dos Sinos, Brazil (15')</p> <p>II.3.15 Management system for achieving safety and prevention at work place - M. R. Vallerotonda, M. Mariani, R. Lauri, A. Nebbioso, A. Pirone, ISPESL, Italy (15')</p> <p>II.3.16 Subcontracting railway maintenance – challenges to safety - J. Thommesen, Technical University of Denmark, Denmark (15')</p> <p>II.3.17 Preliminary findings: emerging risks in the electricity sector – A. L. Vetere, JRC Ispra, Italy (10' Communication)</p> <p>II.3.18 Deliberation over new hydrogen energy technologies: evidence from two citizens' panels in the UK - R. Flynn, Institute for Social, Cultural and Political Research, United Kingdom (15')</p> <p>Discussion (15')</p>

<p>16:15 – 18:00</p>	<p>Session 4 – Governance & Regulation Aspects of Emerging Risk (Chair: L. Breedveld, 2B Consulenza Ambientale; A. Kozak, Office of Technical Inspection)</p> <p>II.3.19 Risk governance for emerging technologies – the state-of-the-art in iNTeg-Risk: results from a telephone survey - D. Scheer, ZIRN - University of Stuttgart, Germany (15')</p> <p>II.3.20 Outline of the iNTeg-Risk LCA guidelines – L. Breedveld, 2B Consulenza Ambientale, Italy (15')</p> <p>II.3.21 Managing new technology risk in safety critical systems – F. Matarese, D. Dell'Amura, SESM, Italy (15')</p> <p>II.3.22 Risk management in Polish process industry – practical approach; A. Kozak, Office of Technical Inspection, Poland (15')</p> <p>II.3.23 Semantic Safetypedia - Safety knowledge structured window to the World – E. Kon, EKON Modeling Software Systems Ltd., Israel; B. Debray, INERIS, France (15')</p> <p>II.3.24 ERRA D4 - Emerging risks related to hazardous substances, impact on public health and relations with REACH and GHS – P. Bos, RIVM, The Netherlands; M. Ruijten, CrisisTox Consult, The Netherlands; T. Santonen, Finnish Institute of Occupational Health, Finland; G. Cassel, Swedish Defence Research Agency, Sweden; M. Wood, Joint Research Centre, Italy; U. Gundert-Remy, Federal Institute for Risk Assessment, Germany; E. Nielsen, Danish Technical University, Denmark; S. Tissot, INERIS, France; D. Russell, Health Protection Agency, UK (10' Communication)</p> <p>II.3.25 Liaisons to national and EU authorities and transfer of research results – J. Lexow, U. Krause, BAM, Germany (10' Communication)</p> <p>Discussion (10')</p>
<p>16:15 – 18:00</p>	<p>Poster Session (Coordinator: M. Löscher)</p> <p>II.3.26 Development of CWAs in iNTeg-Risk project - H. Behrens, Alexandra Engelt, DIN German Institute for Standardization, Germany</p> <p>II.3.27 Using Bayesian networks for identification of KPIs - P. Friis Hansen, DNV - Det Norske Veritas AS, Norway</p> <p>II.3.28 Methodologies to assess the emerging risk associated with development and use of advanced materials (nano-materials and composites) J. Trębicki, K. Doliński - Institute of Fundamental Technological Research, Poland</p> <p>II.3.29 Nanomaterials, risk governance systems and technology roadmapping - A. Toikka, S. Heikkilä, University of Helsinki, Finland</p> <p>II.3.30 Analyses of key performance indicators in gas industry - H. Pačaiová, J. Sinay, A. Nagyová, J. Glatz, M. Balážiková, Technical University of Kosice, Slovakia</p> <p>II.3.31 The use of modern technology for post-emergency rescue activities - M. Boskovic, Faculty for Security Studies, Beograd, Serbia; M. Kljajic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia</p> <p>II.3.32 Multi-Level Protection of Materials for Vehicles by "Smart" Nanocontainers – Navid Ghavami, Aleksandar Jovanovic, Steinbeis Advanced Risk Technologies GmbH, Germany; Theo Hack, EADS Deutschland GmbH, Germany; Christian Simon, SINTEF Materials and Chemistry, Norway; Filipovic, Nenad, Research and Development Center for Bioengineering, Serbia; Fátima Montemor, Universidade Técnica de Lisboa, Portugal; Mikhail Zheludkevich University of Aveiro, Portugal</p> <p>II.3.33 Application of GPS system in the company "Dunav Insurance" to reduce risk of vehicles theft - V. Spasojević Brkić, A. Janković, V. Popović, University of Belgrade, Serbia; R. Guntrum, Steinbeis Advanced Risk Technologies, Germany</p> <p>II.3.34 Towards a checklist for identification of a typical event scenarios - N. Paltrinieri, N. Dechy, E. Salzano, M J. Wardman, Health and Safety Laboratory, United Kingdom</p> <p>II.3.35 Methodological framework and assessment of conventional risks related to White Biotechnology - A.L. Roes, Utrecht University, Netherlands</p> <p>II.3.36 The specific challenges for an integrated risk assessment of Carbon Capture and Storage (CCS) - R. Farret, J. Hebrard, P. Gombert, INERIS, France, M. Wardman, J. L. Saw, T. Holmes, HSL, United Kingdom</p> <p>II.3.37 Introduction to text mining with relevance to emerging risks in chemistry and nanotechnology - M.J. Embrechts, Dept. Industrial and Systems Engineering, Rensselaer Polytechnic Institute, USA</p>
<p>18:30 – 21:00 Conference Dinner</p>	

June 16, 2010

II.4. "New Technologies & Emerging Risk" – Plenary Session

09:00 – 10:30	iNTeg-Risk Results vs. Other Relevant Projects I: Assessment (Chair: U. Krause, BAM; K. Øien, SINTEF; J. Potthoff, Bayer)
	II.4.1 Approaches for a generic methodology for storage of hazardous energy carriers and waste products - U. Krause, C. Knaust, I. Vela, BAM, Germany; P. Lerena, Swiss Institute for the Promotion of Safety and Security, Switzerland; P. Auerkari, VTT, Finland (20')
	II.4.2 Consequence analysis for LNG regasification plants emerging risks - R. Rota, M. Pontiggia, M. Derudi, V. Busini, Maurizio Masi, R. Bubbico, S. Benucci, G. Uguccioni, Politecnico di Milano, Italy (15')
	II.4.3 A new approach for emerging risk assessment and communication in the European Distributed Energy Resources Sector (DER) - J. M. López de Ipiña, Fundación LEIA, Spain; A. Moreno, Iberdrola SA, Spain; J. Goitia, L. Azpiazu, Iberdrola Distribution Electra SA, Spain (20')
	II.4.4 Identification of reference accident scenarios for LNG regasification terminals - V. Cozzani, S. Benucci, G. Uguccioni, E. Salzano, G. Landucci, A. Tugnoli, G. Antonioni, S. Bonvicini; CONPRICI University of Bologna, Italy (20')
	Discussion (10')

10:30 – 11:00 Coffee break

11:00 – 12:30	iNTeg-Risk Results vs. Other Relevant Projects II: Impacts (Chair: R. Farret, INERIS; A. Kishimoto, AIST; R. Rota, Politecnico di Milano)
	II.4.5 A desktop-based assessment of the risks related to the combustion of polymer nanocomposites in a municipal solid waste incineration plant - A.L. Roes, Utrecht University, Netherlands (20')
	II.4.6 Holistic Asset Life Cycle Management - Identification and mitigation of operational risks during design and maintenance of processing plants - J. Potthoff, H. Cznotka, Bayer Technology Services GmbH, Germany (15')
	II.4.7 Emerging risk of autoignition and fire in underground coal storage - J. Sipilä, Helsinki Energy, Finland; P. Auerkari, A. M. Heikkilä, VTT Technical Research Centre of Finland; U. Krause, BAM, Germany (15')
	II.4.8 Remote operation in environmentally sensitive areas, development of early warning indicators - K. Øien, SINTEF Technology and Society, Norway (15')
	II.4.9 iNTeg-Risk ERR A5: Safety and security of underground hubs with interconnected transportation services and shopping centers - M. Wietek, VSH Hagerbach Test Gallery Ltd, Switzerland; H. Ingason, SP Technical Research Institute of Sweden, Sweden; F. Leismann, Studiengesellschaft für unterirdische Verkehrsanlagen e. V., Germany; F. Fouillen, INERIS, France (15')
	Discussion (15')

12:30 – 14:00 Lunch (buffet)

II.5. "New Technologies & Emerging Risk" – Plenary Session (continued)

14:00 – 15:00	<p>iNTeg-Risk Results vs. Other Relevant Projects III: Issues (Chair: U. Haug, Steinbeis; V. Cozzani, CONPRICI; J. M. López de Ipiña, LEIA)</p> <p>II.4.10 EU Projects in the Financial Statements and Annual Reports of the Participating Partners, and Specific Tax-related Issues - G. Schröder, Ebner, Stolz & Partner, Germany (15')</p> <p>II.4.11 Redefining safety in the era of risk trade-off and sustainability - A. Kishimoto, National Institute of Advanced Industrial Science and Technology, Japan (15')</p> <p>II.4.12 Integration of the time dimension in the risk assessment of Carbon Capture and Storage (CCS) - R. Farret, J. Hebrard, P. Gombert, INERIS, France, M. Wardman, J. L. Saw, T. Holmes, HSL, United Kingdom (15')</p> <p>II.4.13 The increased importance of corporate responsibility for today's risk and reputation management – L. Caduff, Ernst & Young AG, Switzerland (15')</p>
15:15 – 15:30	<p>Panel discussion:</p> <p>What has iNTeg-Risk reached in its first year? Expectations met? Where should it be in June 2011? In June 2013?</p> <p>Moderation: J. Meulenbrugge, TNO, A. Jovanovic, EU-VRI;</p> <p>Panelists:</p> <ul style="list-style-type: none">● L. Caduff, Ernst & Young Ltd, Germany● V. Cozzani, CONPRICI, Italy● B. Debray, INERIS, France● Eduardo Manuel Dias Lopes, ISQ● C. Duval, EDF, France● G. Lenkey, BZF, Hungary● J. M. López de Ipiña, LEIA, Spain● R. Schneider, Swiss Re, Switzerland● Piotr Świątek, FZ Jülich, Germany● M. Zarea, GDF Suez, France
15:30	End of the Conference

Note: for the IAB Meeting and General Assembly - please see the "Accompanying Events" Agenda