



## Tentative Symposium Programme

### Tuesday October 28

08:30 – 09:00	Welcome, introduction	Erik Hollnagel, Eric Rigaud
	<b>Session 1: Modelling resilience</b>	<b>Session chair: Andrew Hale</b>
09:00 – 09:30	N. McDonald	Challenges facing Resilience Engineering as a theoretical and practical project
09:30 – 10:00	J. C. Le Coze, K. Pettersen	Is resilience engineering realist or constructivist?
10:00 – 10:30	Coffee break	
	<b>Session 1 (continued)</b>	
10:30 – 11:00	L. Cuvelier, P. Falzon	Methodological issues in the quest of resilience factors
11:00 – 11:30	G. A. Sundström, E. Hollnagel	Modeling Risk in Financial Services Systems: A Functional Risk Modeling Perspective
11:30 – 12:30	Extended discussion period	
12:30 – 14:00	Lunch	
	<b>Session 2: Resilience in practice</b>	<b>Session chair: Nick McDonald</b>
14:00 – 14:30	J. Bergström, K. Petersen, N. Dahlström	Securing organizational resilience in escalating situations Development of skills for crisis and disaster management
14:30 – 15:00	W. S. Costa, R. J. Lucente, M. Voshell, M. Branlat, J. O. Gomes, M. S. R. Borges, L. B. de Macedo	Resilience and Brittleness in a Nuclear Emergency Response Simulation
15:00 – 15:30	A. Komatsubara	Encouraging people to do resilience
15:30 – 16:00	Coffee break	
16:00 – 17:00	<b>Visual presentations – I</b>	<b>Session Chair: Jean Paries</b>
	B. Lay	Improving Resilience by “Pinging” to Determine Risk Profile changes during Maintenance Work
	C. Lalouette	Enhancing inter-organizational resilience by loose coupling concept and complexity paradigm
	B. Sherwood Jones, J. Earthy	Implementing Resilience Engineering; How does it integrate with existing corporate management and regulatory requirements?
	K. Cardiff	Is Safety Quality? Is Quality Safety?
	R: B. Duffey	The Quantification of Resilience: Learning Environments and Managing Risk
	M. F. Costella, T. A. Saurin, L. B. de Macedo Guimarães	A method for assessing health and safety management systems from a resilience engineering perspective
	B. Johansson, M. Lindgren	A quick and dirty evaluation of resilience enhancing properties in safety critical systems
	R. Stolker, D. M. Karydas, J. L., Rouvroye, P. van Gestel, S. Roset, A. E. Ratelband	A comprehensive approach to assess organizational resilience
17:00 – 18:00	<b>Extended discussion period</b>	<b>Session Chair: Gunilla Sundstrom</b>



18:30 –

**Symposium reception**

## Wednesday October 29

### Session 3: Resilience in transportation systems

**Session chair: Arthur Dijkstra**

09:00 – 09:30	P. Ferreira, T. Clarke, J. Wilson, S. Sharples B. Ryan	Resilience in rail engineering work
09:30 – 10:00	S. Dekker, J. Stoop	The ERTMS railway signalling system; deals on wheels? An inquiry into the safety architecture of high speed train safety
10:00 – 10:30		
10:30 – 11:00	S. Malakis, T. Kontogiannis	Cognitive Strategies in Emergency and Abnormal Situations Training : Implications for Resilience in Air Traffic Control
11:00 – 11:30	P. Cabon, R. Mollard, F. Debouck, L. Chaudron, J. Y. Grau & S. Deharvengt	From Flight Time Limitations to Fatigue Risk Management Systems
11:30 – 12:30	Extended discussion period	
12:30 – 14:00	Lunch	
	<b>Session 4: Resilience in medicine</b>	<b>Session chair: John Wreathall</b>
14:00 – 14:30	A. S. Nyssen	Coordination in Hospitals : organized or emergent process? Towards the idea of Resilience as the agents', groups', systems' capacity to project themselves into future.
14:30 – 15:00	F. Bracco, R. Gianatti, L. Pisano	Cognitive resilience in Emergency Room operations, a theoretical framework
15:00 – 15:30	R. L. Wears, S. J. Perry	A systems dynamics representation of resilience
15:30 – 16:00	Coffee break	
16:00 – 17:00	<b>Visual presentations – II:</b>	<b>Session Chair: Steve Epstein</b>
	M. Hildebrandt	Resilience and the Training of Nuclear Operators – A View from the Shop Floor
	R. L. Wears, S. J. Perry, J. Spillane	When worlds collide: Interactions between inpatient and outpatient medication administration systems
	M. Índio dos Reis	Identifying Resilience in Emergency Response Stories
	P. Victor	Resilience and brittleness in the Brazilian air traffic system: FRAM in a mid-air collision
	J. C. Le Coze	BP Texas City accident: weak signals or sheer power?
	A. M. Wahl, T. Brurok, H. Steire	Agility and resilience in offshore operations
	B. B. Tjørhom, K. Aase	The art of balance: A study of conflicting goals in a change intensive system
	J. M. Jacques	Evolution of complex systems before, during and after crisis.



17:00 – 18:00 **Extended discussion period**      **Session Chair: Gudela Grote**  
20:00 – **Symposium gala dinner**

## Thursday October 30

### Session 5: Resilience and complexity

Session chair: Rene Amalberti

08:30 – 09:00	T. O. Grøtan, F. Størseth, M. H. Rø, A. B. Skjerve	Resilience, Adaptation and Improvisation – increasing resilience by organising for successful improvisation
09:00 – 09:30	R. Woltjer	Resilience Assessment Based on Models of Functional Resonance
09:30 – 10:00	K. Steele, J. Pariès	Characterisation of the variation in Safety Beliefs across the European Aviation Industry
10:00 – 10:30	Coffee break	
10:30 – 11:00	J. Vogt, J. Leonhardt	HF-AM: Human Factors Active Management with the Balanced Scorecard Strategy Map
11:00 – 11:30	E. Cagno, O. Grande, P. Trucco	Towards an integrated vulnerability and resilience analysis for underground infrastructures
11:30 – 12:30	Extended discussion period	
12:30 – 14:00	Lunch	
	<b>Session 6: Resilience measurements</b>	<b>Session chair: Ron Westrum</b>
14:00 – 14:30	A. Pasquini, S. Pozzi, L. Save	Monitoring Resilience. A socio-technical perspective on incident reporting
14:30 – 15:00	I. Herrera	Leading indicators applied to maintenance in the framework of resilience engineering: A conceptual approach.
15:00 – 15:30	J. Wreathall	Developing Models for Measuring Resilience
15:30 – 16:00	Coffee break	
16:00 – 17:00	Final discussion; adjourn	