



## 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:</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:</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>	
	S. Jackson, A. Madni	A Practical Framework for the Creation of Resilient Enterprises and Other Systems
	J. Hayes	The role of storytelling in safety performance improvement
	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?
	J. F. Gifun	The Highly Reliable Disaster Resistant Organization: A Quantitative Hierarchical Approach
	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



Antibes Juan-Les-Pins, France October 28-30 2008

3rd Symposium  
on Resilience Engineering

# Resilience Engineering

R. Nilchiani, A. Mostashari	Measuring Resilience of Multi-modal Regional Transportation Networks
J. Lundberg, B. Johansson, C. Rollenhagen	An Accident Investigation Maturity Scale for Resilience Engineering Evaluations
P. Le Bot, H. Pesme, P. Meyer.	Extension of the MERMOS HRA method for fire PSA
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 Extended discussion period

18:30 – **Symposium reception**

## Wednesday October 29

### Session 3: Resilience in transportation systems

#### Session chair:

08:30 – 09:00	E. Beauchamp-Akatova	Supporting decisions on change: Balancing safety issues with operational and commercial decisions in an airline company
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	K. Steele, J. Pariès	Characterisation of the variation in Safety Beliefs across the European Aviation Industry
11:30 – 12:30	Extended discussion period	

12:30 – 14:00 Lunch

### Session 4: Resilience in medicine

#### Session chair:

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>	



Centre de recherche sur les Risques et les Crises



Antibes Juan-Les-Pins, France October 28-30 2008

3rd Symposium  
on Resilience Engineering

# Resilience Engineering

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. Sleire	Agility and resilience in offshore operations
V. G. Krymsky	Human Factor and System Resilience Achieving a Balance of Operator's Abilities and Task Demands
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.
J. Toyoda, K. Sakamoto, T. Chida	Resilience in Maintenance Management of Electric Power System
G. Morel, D. Tazi	Resilience & the Need to Study the Decision-Making Process in Nominal and Deteriorated Situations: the example of the sea fishing industry and maintenance subcontracting
K. Petersen	Societal Resilience and Societal Safety
K. Cardiff	Is Safety Quality? Is Quality Safety?
J. van den Top	How safety and quality of service are influenced by operational process control

17:00 – 18:00 Extended discussion period

20:00 – **Symposium gala dinner**

## Thursday October 30

### Session 5: Resilience and complexity

### Session chair:

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	M. May	Michael Complexity of Resilient Power Distribution Networks
09:30 – 10:00	S. Antonsen	Safety, Culture and the failure of foresight
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	



Centre de recherche sur les Risques et les Crises

彈

Antibes Juan-Les-Pins, France October 28-30 2008

3rd Symposium  
on Resilience Engineering

## Resilience Engineering

	<b>Session 6: Resilience measurements</b>	<b>Session chair:</b>
14:00 – 14:30	A. Pasquini, S. Pozzi, L. Save	Monitoring Resilience. A socio-technical perspective on incident reporting
14:30 – 15:00	R. Woltjer	Resilience Assessment Based on Models of Functional Resonance
15:00 – 15:30	I. Herrera	Leading indicators applied to maintenance in the framework of resilience engineering: A conceptual approach.
15:30 – 16:00	Coffee break	
16:00 – 16:30	J. Wreathall	Developing Models for Measuring Resilience
16:30 – 17:30	Final discussion; adjourn	