

TECHNICAL PROGRAMME

Wednesday November 8

Session 1: Industrial practices

Session chair: **Rene Amalberti**

08:30 – 09:00	Welcome, introduction	Erik Hollnagel, Franck Guarnieri
09:00 – 09:30	Westrum, R.	All coherence gone: New Orleans as a resilience failure
09:30 – 10:30	Morel, G.	Towards a new state of resilience of the socio-technical system of the sea fishing industry ?
10:00 – 10:30	Coffee break	
10:30 – 11:00	de Carvalho P.V.R.; dos Santos I. L.; Gomes J. O. & da Silva Borges, M. R.	The role of nuclear power plant operators' communications in providing resilience and stability in system operation
11:00 – 11:30	Le Coze, J. C. & Dupre, M.	How to prevent a Normal Accident in a High Reliable Organisation? The art of resilience, a case study in the chemical industry

11:30 – 12:30 Extended discussion period

12:30 – 14:00 Lunch

Session 2: Healthcare

Session chair: **Richard Cook**

14:00 – 14:30	Anders, S.; Woods, D. D.; Wear, R. L. & Perry, S. J.	Limits on adaptation: Modeling Resilience and Brittleness in Hospital Emergency Departments
14:30 – 15:00	Habraken, M. & van der Schaaf, T.	Missed or failed error recovery in medication errors
15:00 – 15:30	Wears, R. L. & Perry, S. J.	"Free fall" – a case study of resilience, its degradation, and recovery in an emergency department
15:30 – 16:00	Coffee break	
16:00 – 17:00	Visual presentations – I	

Andersen, S. & Johnsen, S. O.

Can remote operations of process facilities in the oil and gas industry become more resilient based on common experiences from other industries?

Grøtan, T. O. & Asbjørnslett, B. E.

Information Technology (IT) in Resilient Logistics

Beauchamp, E.

Model-based evaluation of resilience for networked aviation system

Blandford, A.; Back, J.; Curzon, P.; Li, S. & Rukšėnas, R.

Reasoning about human error by modelling cognition and interaction

Boissieres, I. & Marsden, E.

Resilience of a telecoms supervision and maintenance organization

Bourgeon, L.; Valot, C. & Navarro, C.

Do aircrews trained and working within a same organization develop similar adaptive strategies to cope with complex situations ?

Boy, G. & Bradshaw, J.

Perceived complexity versus internal complexity What happens when things go wrong?

Brizon, A. & Wybo, J. L.

Vigilance: a process contributing to the resilience of organisations

Le Coze, J. C. & Capo, S.

A conceptual and methodological comparison with the field of child resilience

McDonald, N. & Morrison, R.

Modelling operational systems

de Bruijne, M. & van Eeten, M.

Resilient restructuring? On the organization of resilience in institutionally fragmented critical infrastructures

17:00 – 18:00 Extended discussion period

Symposium reception

Thursday November 9

Session 3: Managing complex processes

Session chair: Gunilla Sundström

08:30 – 09:00	da Mata, T. F.; Santos, A. G.; Abech, M. P.; Gomes, J. O.; Huber, G. J. & Woods, D. D.	Goal conflicts in helicopter safety: Dilemmas across maintenance, pilots, and management
09:00 – 09:30	Zabourtis, N. & Wright, P.	Using complexity theories to reveal emerged patterns that erode the resilience of complex systems
09:30 – 10:00	Sträter, O.; Leonhardt, D.; Durrett, D. & Hartung, J.	Pitfalls in predefining the safety performance of the future Air Traffic Management system if using a non-resilient safety assessment approach
10:00 – 10:30	Coffee break	
10:30 – 11:00	Kanno, T. & Furuta, K.	Resilience of Emergency Response System
11:00 – 11:30	Oedewald, P. & Reiman, T.	Using subjective measures to monitor the systems' capability to manage complexity – evidence from the nuclear industry and health care
11:30 – 12:30	Extended discussion period	
12:30 – 14:00	Lunch	

Session 4: Methods and measurements

Session chair: Ron Westrum

14:00 – 14:30	Epstein, S.	Unexamined Events, PRA, and Resilience
14:30 – 15:00	Wreathall, J. & Woods, D. D.	Resilience Engineering: A Nascent Approach to Measurement
15:00 – 15:30	van der Schaaf T. W.	Looking for the strongest link in the chain: the PRISMA approach to Resilience Engineering
15:30 – 16:00	Coffee break	
16:00 – 17:00	Visual presentations – II	
	Herrera, I. A.; Tveiten, C. K. & Tinmannsvik, R. K.	Risk informed operations, a key element to control drifting in the safety space
	Karikawa, D.; Takahashi, M.; Ishibashi, A. & Kitamura, M.	Interactive Elaboration Method for Flight Deck Display based on Internal and External Knowledge Representations of Expert Pilots
	Cambon, J.; Guarnieri, F. & Groeneweg, J.	Towards a new tool for measuring Safety Management Systems performance
	Lundberg, J. & Johanssen, B.	A model of resilience to guide accident investigations
	Lützhöft, M.; Sherwood Jones, B.; Earthy, J. V. & Bergquist, C.	Making safety by tying the knot
	Chevreau, F.R.	Growing resilience engineering through safety culture: the example of process safety in pharmaceutical chemistry
	Perry, S. J.; Wears, R. L. & Anderson, B.	Extemporaneous adaptation to evolving complexity: A case study of resilience in healthcare
	Specht, M. & Poumadere, M.	Resilience, Safety management, Social structuralism and Systemic adaptation
	Steele, K.P & Paries, J.	A review of the processes for tailoring models for a priori safety and risk management within industry
	Tazi, D. & Amalberti, R.	Resilience of maintenance organization in a chemical industry
17:00 – 18:00	Extended discussion period	
	Symposium dinner	

Friday November 10

Session 5: Defence-in-depth

Session chair: John Wreathall

08:30 – 09:00	Mendonca, D. & Wallace, W. A.	Adaptive Capacity: Electric Power Restoration in New York City following the 11 September 2001 Attacks
09:00 – 09:30	Nathanael, D. & Marmaras, N.	The interplay between work practices and prescription: a key issue for organizational resilience
09:30 – 10:00	Komatsubara, A.	Human defense-in-depth is dependent on culture
10:00 – 10:30	Coffee break	

10:30 – 11:00	Sundström, G. A. & Hollnagel, E.	On The Art of Creating and Managing Policies: Facilitating the Emergence of Resilience
11:00 – 11:30	Grote, G.	Rules management as source for loose coupling in high-risk systems
11:30 – 12:30	Extended discussion period	
12:30 – 14:00	Lunch	
	Session 6: The way ahead	Session chair: David Woods
14:00 – 14:30	Wybo, J. L.; Jacques, J.-M. & Poumadere, M.	Using simulation of accidents to assess resilience' capacities of organizations
14:30 – 15:00	Sheridan, T. B.	Next Generation Air Transportation System: Human-Automation Interaction and Organizational Risks
15:00 – 15:30	Rigaud, E. & Guarnieri, F.	Proposition of a conceptual and a methodological modelling framework for resilience engineering
15:30 – 16:00	Coffee break	
16:00 – 16:30	Dijkstra, A.	Resilience and Safety Management System
16:30 – 17:00	Pavard, B.; Dugdale, J.; Narges, B. & Salembier, P.	The design of robust socio technical systems
17:00 – 18:00	Final discussion; adjourn	