Provisional Program
Monday 26th June
Young Talents and Workshops’ day
(University campus)

08:30 – 09:00 Young talents & Workshops’ participants Reception

Young Talent Day Participants: Changwon Son, Daniel Eisenberg, Lauren R. McBurnett, Justyna Tasic, Riccardo Patriarca, Linda de Vries, Raphaëla Schnittker, Marlon Soliman, Mia McLanders, & Joop Havinga.

09:00 – 10:30 Young talents program & Workshop

  Workshop 1: One best method, does it exist? NO!
  Ruud Plomb, Jurriaan Cals

  Workshop 2 – Part. I: Small Details – Big Difference: Can Resilience Development Change the Future of Aviation?
  Gunnar Steinhardt, Marc Frank

10:30 – 11:00 Coffee Break

11:00 – 12:30 Young talents program & Workshop

  Workshop 2 – Part. II: Small Details – Big Difference: Can Resilience Development Change the Future of Aviation?
  Gunnar Steinhardt, Marc Frank

  Workshop 3: How can safety professionals improve the resilience of their organisations?
  David Provan, Sidney Dekker, Andrew Rae

12:30 – 13:30 Lunch

13:30 – 15:30 Young talents program & Workshop

  Workshop 4 – Part I: Operationalizing resilience through resilience management guidelines.
  Matthieu Branlat, Ivonne Herrera, Luca Save, Sabina Giorgi, Luca Rosi, Valentina Cedrini

  Workshop 5: Workshop and demo training for operational resilience capabilities, a world to win!
  Johan van der Vorm, Kees van der Blom, John van Schie, Tor Olav Grotan, Dolf Van der Beek, Dianka Zuiderwijk, Jean Paries, Christiaan Poll

15:30 – 16:00 Coffee Break

16:00 – 17:30 Young talents program & Workshop

  Workshop 4 – Part. II: Operationalizing resilience through resilience management guidelines.
  Matthieu Branlat, Ivonne Herrera, Luca Save, Sabina Giorgi, Luca Rosi, Valentina Cedrini

19:00 – 21:00 Curtius' Brewery Visit & Tasting
Symposium Day 1 - Tuesday 27th June

(Hotel ‘Les Comtes de Méan’)

08:00 – 09:00 Start Registration & Welcome Coffee

09:00 – 09:30 Welcome Speech by Anne-Sophie Nyssen & Jean Paries

9:30 – 10:00 Young Talent and Workshops’ Day Debriefing

10:00 – 10:45 Keynotes

Presentation by E. Hollnagel

"From Resilience Engineering to the Engineering of Resilient Systems"

Presentation by S. Dekker

"Micro-experimenting with Safety Differently"

10:45 – 11:15 Coffee Break

11:15 – 12:45 Parallel Sessions

Session 1 – Critical Infrastructure, Resilience & Governance (Ballroom)

Chairman: Pedro Ferreira

1. Sustained adaptability: The transaction level.
   Jan Maarten Schraagen

2. Critical infrastructure resilience: Bridging the gap between measuring and governance.
   Hanneke Duijhoven

3. A Capabilities Approach towards Prioritization of Critical Infrastructure Resilience.
   Susan Clark, Thomas Seager

4. Resilience and Governance in Complex Temporary Organizations.
   Dianka Zuiderwijk, Peter Groenewegen, F. Kees Boersma

5. Organizing Processes of Resilient Organizations.
   Margaret Hinrichs, Daniel Eisenberg, Thomas Seager

6. From air to ground – Resilient strategies and innovation across critical infrastructures.
   Ivonne Herrera, Beth Lay, Karen Cardiff

Session 2 – Health Care Systems (Gretry-Nagelmackers Room)

Chairman: Anne Sophie Nyssen

   Mary Patterson, Ellen Deutsch, Rolin Fairbanks, Robert Wears

2. What is a step in the right direction? The tradeoff between improving ideas and improving systems.
   Michael Rayo, Rollin Fairbanks
3. **Emergency Medical Services: When Fatigue Becomes The Norm.**
   Pierre Bérastégui, Mathieu Jaspar, Anne-Sophie Nyssen, Alexandre Ghuysen

4. **Work-as-done to inform protocol development in the emergency department.**
   Katherine Forsyth, Rachelen Varghese, Nibras El-Sherif, Hunter Hawthorne, Renaldo Blocker

5. **Adaptation and implementation of the resilience Assessment grid in an urban emergency department.**
   Garth Hunte

6. **The concept of resilience in surgical operations – from handling disturbances to coping with complexity, uncertainty and contradictions.**
   Mikael Wahlström

12:45 – 13:45 Lunch

13:45 – 15:15 Parallel Sessions

**Session 3 – “Disaster” Anticipation, Response & Recovery (Ballroom)**

Chairman: Patricia Longstaff

1. **Supporting resilience management through guidelines: Specifying the nature of the guidelines, development process and essential components.**
   Matthieu Branlat, Rogier Woltjer, Luca Save, Odeya Cohen, Ivonne Herrera

2. **Contribution of local government to disaster resilience: toward an assessment method.**
   Eric Rigaud

3. **Improving urban infrastructures resilience using conceptual models: Application of the “Behind the Barriers” model to the flooding of rail transport system.**
   Michael Gonzvo, Bruno Barroca

4. **Resilience at scale in mass casualty response(I): The Formosa fun coast fire, June 2015.**
   Sheuwen Chuang, David Ting, Richard I. Cook

5. **Unreasonable expectations? Examining the use of public tolerance levels as critical infrastructure resilience targets.**
   Laura Petersen, Laure Fallou, Paul Reilly, Elisa Serafinelli

6. **Situated and participatory development of a collaborative technology to improve the resilient performance of disaster risks management.**
   Ricardo Carvalho, Paulo Carvalho, Ademir Silva Junior, Alyson Souza, Pitágoras Bindé

**Session 4 – Resilience in Power Systems (Gretry-Nagelmackers Room)**

Chairman: John Allspaw

1. **Sociotechnical Networks for Power Grid Resilience: South Korean Case Study.**
   Daniel Eisenberg, Jeryang Park, Thomas Seager

2. **Resilient power plant operations through a self-evaluation method.**
   Mikael Wahlström, Timo Kuula, Laura Seppänen

3. **Modelling organizational learning from successes in the nuclear industry.**
   Kaupo Viitanen, Christer Axelsson, Ann Britt Skjerve, Hanna Koskinen, Rossella Bisio, Marja Liinasuo
4. Supplementation of the risk analysis of fire in the main transformers of the Itaipu binacional hydroelectric power plant with resilience engineering elements.  
   Juliano Portela, Lia Guimarães

5. Resilience activation and liminality during the Fukushima Dai Ichi nuclear power plant accident.  
   Cécile Geoffroy, Eric Rigaud, Franck Guarnieri

15:15 – 15:45 Coffee Break

15:30 – 16:30 Poster Session

16:30 – 18:00 Special Session

Poised to deploy: Creating pathways for sustaining adaptability of computer-based systems. Richard Cook

   This special session will notably include:

      Davaadorj Nyambayar, Koshijima Ichiro

18:00 – 19:30 Welcome Cocktail
Symposium Day 2 - Wednesday 28th June

(Hotel ‘Les Comtes de Méan’)

8:30 – 10:00 Parallel Sessions

Session 5 – Assessing Resilience (Ballroom)

Chairman: John Stoop

1. FRAM to assess performance variability in everyday work: Functional resonance in the railway domain.
   Riccardo Patriarca, Giulio Di Gravio, Francesco Costantino, Massimo Tronci

2. Can artefacts be analysed as an agent by itself – Yes or No: what does Hutchins ‘how does a cockpit remember its speeds’ tell us.
   Anthony Smoker, Arie Adriaensen, Riccardo Patriarca, Johan bBgstrom

3. Tracking the emergence of resilience: The role of complexity.
   Tarcisio Saurin, Guillermima Penaloza, Marlon Soliman, Carlos Formoso

4. A stamp based task and organizational analysis to improve aircraft ground handling safety.
   Mario Pierobon, Graham Braithwaite, & Jim Nixon

5. Methods and Analytical Frameworks for exploring adaptive capacity.
   Anthony Smoker, Matthieu Branlat, Ivonne Herrera, Rogier Woljter, Billy Josefsson

   Eric Rigaud

Session 6 – Organizing Team Resilience (Grotry-Nagelmackers Room)

Chairman: Robert Jan de Boer

1. Safe Mooring Operations: A functional approach to routine work?
   Nippin Anand

2. From resilience to routines and back: Investigating the evolution of work adaptations.
   Jop Havinga, Sidney Dekker, Andrew Rae

3. Improving team resilience by supporting mindful cooperation awareness.
   Christian Kunz, Nina Saric, Katrin Fischer, Toni Wäfler

4. Opportunities for synergies between Resilience and a positive Work Organisation.
   Gerard Zwetsloot

5. Innovation resilience behaviour in team work.
   Peter Oeij

6. Preparing to be unprepared: Training for resilience.
   David Passenier, Daan Pool, Amy Rankin, Alexei Sharponskykh

10:00 – 10:30 Coffee Break

10:30 – 12:00 Special Session
Applying engineering methods for resilient design.

*Stefan Hiermaier, Benjamin Scharte, Ivo Häring, Alexander Stolz, Daniel Hiller*

*With the participation of John Stoop.*

**12:00 – 13:00 Lunch**

**13:00 – 13:45 Joint Keynote**

Joint presentation by D. Woods & D. Alderson

*“Moving Forward in Resilience Engineering: Fundamentals, Barriers, and Progress.”*

**13:45 – 14:45 Parallel Sessions**

**Session 7 – Training Resilience (Ballroom)**

Chairman: **Gunnar Steinhardt**

1. **Recruitment, selection, and training of new workers based on resilience skills: A study with grid electricians.**
   *Alexandre Alves, Tarcisio Saurin, Marcelo Costella*

2. **Simulation games for developing complex systems thinking skills and strengthening adaptive capacity.**
   *Lauren McBurnett, Margaret Hinrichs, Susan Spierre Clark, Thomas Seager*

3. **Using simulation games to assess the resilience of critical infrastructures in the payment system.**
   *Joeri Van Laere, Björn Johansson, Peter Berggren*

4. **Serious games: An efficient tool for the learning about city resilience.**
   *Marta Iturriza, Leire Labaka, Jose Mari Sarriegi*

**Session 8 – Infrastructure, Safety & Resilience (Gretry-Nagelmackers Room)**

Chairman: **Jan Maarten Schraagen**

1. **The embrace of risks. How to make sense of 'resilience' for public and industrial safety?**
   *Juul Gooren*

2. **Creating foresight and resilience in emergency care through real-time operational 'vital signs' and predictive analytics.**
   *Garth Hunte*

3. **Focusing on success: A safety-II approach on operational maneuvers in the Itaipu binacional hydropower plant.**
   *Juliano Portela, Lia Guimarães*

**14:45 – 15:15 Coffee Break**

**15:15 – 16:00 Invited Critic to Resilience - R. Amalberti**

*“Problems and promises of resilience: why safety needs to rethink its love/hate relationship with adaptation.”*
16:00 – 17:00 Session 9 – Resilience Engineering, Definition, Moddeling & Methods
(Ballroom)

Chairman: Richard Cook

1. Towards an operationalizeable definition of resilience.
   Samuel Huber, Thomas Kuhn

2. Agent-based modelling and mental simulation for resilience engineering.
   Sybert Stroeve, Mariken Everdij

   Mariken Everdij, Sybert Stroeve

4. Experiences and lessons from developing RE Methodologies.
   Anthony Smoker, Matthieu Branlat, Fredrik London, Lars Danielson, Rogier Woltjer, Billy Josefsson

16:00 – 17:00 Special Industry Debriefing Session (Gretry-Nagelmackers Room)

Organizer: John Van Schie

Chairman: Sidney Dekker

17:00 – 18:30 REA General Assembly Meeting

19:30 Gala Dinner
Symposium Day 3 - Thursday 29th June
(Hotel ‘Les Comtes de Méan’)

9:00 – 10:00 Joint Keynote

Presentation by J. Paries & G. Grote

“Safety management styles and uncertainty management: Implications for leadership.”

10:00 – 10:30 Coffee Break

10:30 – 12:00 Parallel Sessions

Session 10 – Resilience in Aeronautics and Space Systems (Ballroom)
Chairman: Ivonne Herrera

1. Prevalence of resilient skills in general aviation crews.
   Arjun Rao, Shawn Pruchnicki, Seth Young

2. Conceptual and computational modelling of coordination mechanisms in air traffic management.
   Mannat Kaur, Alexei Sharponskykh

3. Abnormal and emergency situations in aviation: Improving the QRH to support resilience.
   Guido cesar Carim junior, Tarcisio Saurin, Eder Henriqson

4. Resilient decision making in the cockpit: Does it work?
   Frederik Mohrmann, Joris Field, John Stoop

5. Flexible procedures to deal with complex unexpected events in the cockpit.
   Joris Field, Amy Rankin, Rogier Woltjer, Frederik Mohrmann, Edzard Boland, Jeroen van Rooij

6. Using the rag to assess international space station organizational resilience.
   Christopher Nemeth, Beth Lay

Session 11 – Capacity for resilience in jazz improvisation (Gretry-Nagelmackers Room)
Steve Houben & Quentin Liégeois

12:00 – 12:30 Closure Speech

12:30 – 13:30 Lunch

14:00 – 16:00 REA Council Meeting
1. Resilience management guidelines and operationalization applied to urban transport Environment  
   Ferreira Pedro & Paolo Nesi

2. Exploring efficacy of adaptive safety practice for social sustainability in construction supply chain management.  
   O'Loughlin Maeve

3. A Decision Support Framework for Improving Cross-border Area Resilience to Disasters.  
   Eric Rigaud

4. Developing aviation organisations’ agile response.  
   Rogier Woltjer, Björn Johansson, Peter Svenmarck, & Per-Anders Oskarsson

5. Beneficial interruptions in the emergency department.  
   Katherine Forsyth, Rachelen Varghese, Nibros El-Sherif, Hunter Hawthorne, & Renaldo Blocker

6. Building an “adaptative safety culture” in a nuclear construction project – Insights to safety practitioners.  
   Kaupo Viitanen, & Teemu Reiman

   Amy Rankin, René Lindner, Maider Sainz, Simon Rosenqvist, Magnus Bång, & Henrik Eriksson

   Justyna Tasic

9. Staff members’ chats in a refresh room as a way of knowledge sharing for maintaining the resilience of socio-technical systems.  
   Hidenori Fujino, Motoki Urayama, Takayoshi Kitamura, Hirotake Ishii, & Hiroshi Shimoda

10. Some implications of bone's biological features for systemic resilience.  
    Richard Cook

11. Voluntary safety leader at the sharp-end: From controlled safety to creative safety at an expressway maintenance site.  
    Masayoshi Shigemori, Remi Ohshima, & Shigeru Haga

12. Simulated exercises in emergency response – A ressource to reconcile WAI and WAD.  
    Paulo Carvalho, Jose Orlando Gomes, Angela Righi, Gilbert Huber, & Caio Lemos

13. Boxing and dancing - The challenges of enforcement in global shipping.  
    Nippin Anand

14. Resilient capabilities in single pilot and crewed flight operations.  
    Shawn Pruchnicki, Arjun Rao, Seth Young

15. Assessing resilience through investigating adaptive capacity  
    Anthony Smoker, Matthieu Branlat, Ivonne Herrera, Rogier Woltjer, & Billy Josefsson
   Marlon Soliman

17. The gap between Work-as-Imagined and Work-as-Done as an indication for safety.  
   Steffen Kaspers

   Mengchu Song, Akio Gofuku

   Son Changwon