

Europa	Fennia 2	Fennia 1	Nordia	Nautica	Press room
--------	----------	----------	--------	---------	------------

09:00-10:30
Opening and plenary
Mo1

Opening
PL-Mo1
Plenary

10:30-11:00

COFFEE BREAK

11:00-12:20
Parallel sessions
Mo2

PRA NPP	PRA NPP	HUMAN ORG	UNCERTAINTY	MAINTENANCE	MATHEMATICS
16AS-Mo2	16BS-Mo2	27-Mo2	03-Mo2	01-Mo2	02-Mo2
Deterministic-probabilistic safety assessment	Passive systems - design	Cognition, context and HRA	Sensitivity analysis	Advances in maintenance modeling 1	Analysis of networked systems

12:20-13:50

LUNCH BREAK

13:50-15:10
Parallel sessions
Mo3

PRA NPP	PRA NPP	HUMAN ORG	UNCERTAINTY	MAINTENANCE	INDUSTRIAL
16A-Mo3	16BS-Mo3	27-Mo3	03-Mo3	01S-Mo3	20-Mo3
Modeling and data analysis	NRC HRA data	Human factors engineering	Uncertainty analysis 1	Maintenance of transportation systems	Safety management and safety performance

15:10-15:40

COFFEE BREAK

15:40-17:00
Parallel sessions
Mo4

PRA NPP	PRA NPP	HUMAN ORG	EPISTEMIC	MAINTENANCE	RISK GENERIC
16A-Mo4	16BS-Mo4	27-Mo4	29-Mo4	01S-Mo4	11-Mo4
PRA development - overview	Passive systems - innovative reactor concepts	Key issues in HRA development	Dana Kelly memorial: Epistemic uncertainties 1	Covariate-driven maintenance	Risk assessment 1

17:00-17:30

FRUIT BREAK

17:30-18:30
Parallel sessions
Mo5

PRA NPP	PRA NPP	HUMAN ORG	EPISTEMIC	MAINTENANCE	INDUSTRIAL
16A-Mo5	16BS-Mo5	27-Mo5	29-Mo5	01S-Mo5	20-Mo5
Dynamic PRA	Passive systems - advanced reactors	HRA in team and organization level	Epistemic uncertainties 2	Asset management and maintenance	Industrial analysis approaches and cases 1

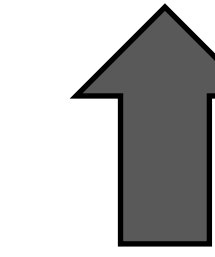
19:00-21:00

Welcome Reception at Marina Congress Center

Baltica	Marine room	Eliel (hotel)	Selim (hotel)	Kino K13
---------	-------------	---------------	---------------	----------

Session moved to

09-Tu5



COFFEE BREAK

INFRA	RISK MANAG	STRUCTURAL	STOCHASTIC	CIVIL FIRE
24-Mo2	17-Mo2	09-Mo2	08-Mo2	15-Mo2
Critical infrastructures 1	RI decision making in nuclear domain - applications	Reliability and concrete structures	Stochastic modeling - case studies	Fire safety

LUNCH BREAK

INFRA	RISK MANAG	STRUCTURAL	STOCHASTIC	OFFSHORE
24-Mo3	17-Mo3	09-Mo3	08-Mo3	23S-Mo3
Critical infrastructures 2	NPP - ageing issues	Structural reliability and degradation modeling 1	Fire risk modeling and simulation	Risk analysis methodologies in marine safety

COFFEE BREAK

INFRA	RISK MANAG	STRUCTURAL	ACCIDENT	PRA NPP
24-Mo4	17-Mo4	09-Mo4	14-Mo4	16C-Mo4
Water systems	Methodological approaches to support risk management	Structural reliability and degradation modeling 2	Risk assessment - consequence analysis	Codes and tools 1

FRUIT BREAK

DATA	RISK MANAG	OCCUPATIONAL	PRA NPP
06-Mo5	17-Mo5	04-Mo5	16C-Mo5
Statistical data analysis (non-nuclear)	Regulatory insights and experiences on RI approaches	Occupational risk modeling	Codes and tools 2

09:00-10:30
Opening and plenary
Mo1

10:30-11:00

11:00-12:20
Parallel sessions
Mo2

12:20-13:50

13:50-15:10
Parallel sessions
Mo3

15:10-15:40

15:40-17:00
Parallel sessions
Mo4

17:00-17:30

17:30-18:30
Parallel sessions
Mo5

19:00

Europaea	Fennia 2	Fennia 1	Nordia	Nautica	Press room
----------	----------	----------	--------	---------	------------

Baltica	Marine room	Eliel (hotel)	Selim (hotel)	Kino K13
---------	-------------	---------------	---------------	----------

08:30-09:30
Plenary session
Tu1

Plenary
PL-Tu1
Fukushima

08:30-09:30
Plenary session
Tu1

09:30-10:00
Parallel sessions
Tu2

COFFEE BREAK
PRA NPP
16S-Tu2
Fukushima accident 1

UNCERTAINTY	MAINTENANCE	INDUSTRIAL
03S-Tu2	01-Tu2	20-Tu2
Uncertainty analysis 2	Condition based maintenance	Reliability analysis

COFFEE BREAK

OFFSHORE	RISK MANAG	OCCUPATIONAL	RISK GENERIC	SECURITY
23-Tu2	17-Tu2	04-Tu2	11-Tu2	18-Tu2
Oil and gas risk assessment	RI inspection	Occupational risk	Risk management 1	Security methods and applications

09:30-10:00
Parallel sessions
Tu2

11:40-13:10
Parallel sessions
Tu3

COFFEE BREAK
PRA NPP
16-Tu3
Fukushima - panel discussion

CONFERENCE LUNCHEON

EPISTEMIC	MAINTENANCE	RISK GENERIC
29-Tu3	01-Tu3	11-Tu3
Model uncertainties and validation	Maintenance modeling and optimization of complex systems	Risk management 2

OFFSHORE	RISK MANAG	OCCUPATIONAL	RISK PERC	SECURITY
23-Tu3	17-Tu3	04-Tu3	12-Tu3	18-Tu3
Drilling risk assessment	PRA in risk management	Occupational risk assessment	Risk and reliability criteria	Security methods

11:40-13:10
Parallel sessions
Tu3

14:30-15:00
Parallel sessions
Tu4

COFFEE BREAK
PRA NPP
16A-Tu4
Data analysis

PRA NPP	PRA NPP	HUMAN ORG	UNCERTAINTY	MAINTENANCE	INDUSTRIAL
16B-Tu4	27-Tu4	03-Tu4	01-Tu4	20-Tu4	
HRA based on empirical study	Organizational learning and modeling	Uncertainty and sensitivity	Reliability centred maintenance	Automotive systems	

COFFEE BREAK

OFFSHORE	RISK MANAG	AVIATION	RISK GENERIC	PRA NPP
23-Tu4	17-Tu4	21S-Tu4	11-Tu4	16C-Tu4
Marine operations risks	Safety assessment, management and goals	Managing system changes in aviation - novel issues for PRA	Nuclear spent fuel safety	PRA Level 2 and 3

14:30-15:00
Parallel sessions
Tu4

16:20-16:40
Parallel sessions
Tu5

FRUIT BREAK
PRA NPP
16A-Tu5
RI applications

PRA NPP	PRA NPP	STRUCTURAL	DATA	MAINTENANCE	INDUSTRIAL
16B-Tu5	09-Tu5	06-Tu5	01-Tu5	20-Tu5	
New HRA methods 1	Reliability and concrete structures	Data collection and analysis (non-nuclear)	Preventive maintenance	Risk management	

FRUIT BREAK

OFFSHORE	MATHEMATICS	SIL	RISK GENERIC	PRA NPP
23-Tu5	02-Tu5	26-Tu5	11-Tu5	16C-Tu5
Marine transportation risk assessment	Bayesian analysis and simulation	SIL decision support	Risk assessment 2	PRA Level 2 related applications

16:20-16:40
Parallel sessions
Tu5

09-Mo2

Session moved from

Europaea	Fennia 2	Fennia 1	Nordia	Nautica	Press room
----------	----------	----------	--------	---------	------------

Baltica	Marine room	Eliel (hotel)	Selim (hotel)	Kino K13
---------	-------------	---------------	---------------	----------

08:30-09:30
Plenary session
We1

Plenary
PL-We1
1

08:30-09:30
Plenary session
We1

09:30-10:00
Parallel sessions
We2

COFFEE BREAK					
PRA NPP	PRA NPP	HUMAN ORG	OFFSHORE	MAINTENANCE	MATHEMATICS
16AS-We2	16BS-We2	27-We2	23-We2	01-We2	02-We2
Fukushima accident 2	Very long term storage of radioactive waste 1	Risk and safety behavior	Offshore risk management	Overview, discussions and new approaches	Dynamic analysis

09:30-10:00
Parallel sessions
We2

11:40-13:10
13:10-14:30
Parallel sessions
We3

LUNCH BREAK					
PRA NPP	PRA NPP	HUMAN ORG	MATHEMATICS	MAINTENANCE	INDUSTRIAL
16A-We3	16BS-We3	27-We3	02S-We3	01-We3	20-We3
New HRA methods 2	Very long term storage of radioactive waste 2	Safety culture in complex systems	Bayesian network applications 1	Modeling tools and software for maintenance analyses	RAMS 1

11:40-13:10
13:10-14:30
Parallel sessions
We3

14:30-15:00
15:00-16:40
Parallel sessions
We4

COFFEE BREAK					
PRA NPP	PRA NPP	HUMAN ORG	MATHEMATICS	MAINTENANCE	MATHEMATICS
16A-We4	16B-We4	27-We4	02AS-We4	01-We4	02B-We4
Shutdown and spent fuel analyses	Advances in fault tree and event tree methods	Safety culture and indicators	Bayesian network applications 2	Predictive maintenance	Reliability analysis

COFFEE BREAK				
EXTERNAL	RISK MGMT	STOCHASTIC	DSS	INDUSTRIAL
22-We2	17S-We2	08-We2	07-We2	20-We2
External hazards 1	Severe accident management guidance	Stochastic and numerical simulation for reliability and risk analysis	DSS case studies	Fires and explosions

11:40-13:10
13:10-14:30
Parallel sessions
We3

LUNCH BREAK				
EXTERNAL	SIL	SOFTWARE	AVIATION	STRUCTURAL
22-We3	26-We3	10-We3	21-We3	09-We3
Seismic risk - applications	SIL specific issues	I&C reliability models 1	Critical issues in aviation - safety performance 1	Structural reliability and degradation modeling 3

14:30-15:00
15:00-16:40
Parallel sessions
We4

COFFEE BREAK				
EXTERNAL	RISK PERC	TRANSPORT	AVIATION	INFRA
22-We4	12-We4	28-We4	21-We4	24S-We4
Seismic risk - methodology	Risk perception and communication	Railway safety	Aviation safety management	Vulnerability of critical infrastructures 1

Session moved from



INFRA
24S-We5
Vulnerability of critical infrastructures 2

19:00

Bus transfers for the Conference Dinner

19:00

Europaea	Fennia 2	Fennia 1	Nordia	Nautica	Press room
----------	----------	----------	--------	---------	------------

Baltica	Marine room	Eliel (hotel)	Selim (hotel)	Kino K13
---------	-------------	---------------	---------------	----------

08:30-09:30
Plenary session
Th1

Plenary
PL-Th1

08:30-09:30
Plenary session
Th1

09:30-10:00
Parallel sessions
Th2

PRA NPP	MAINTENANCE	HUMAN ORG	MATHEMATICS	INDUSTRIAL	SOFTWARE
16AS-Th2	01S-Th2	27-Th2	02-Th2	20-Th2	10-Th2
Fukushima accident 3	System health monitoring, fault diagnosis and prognosis	Organizational factors and safety	Markovian models	Learning from incidents	Software reliability assessment 1

09:30-10:00
Parallel sessions
Th2

11:40-13:10
Parallel sessions
Th3

PRA NPP	PRA NPP	HUMAN ORG	MATHEMATICS	INDUSTRIAL	SOFTWARE
16A-Th3	16B-Th3	27-Th3	02-Th3	20-Th3	10-Th3
Risk monitors	Comparison of HRA methods	Safety culture	Stochastic modeling in reliability	Risk assessment applications 1	Software reliability assessment 2

11:40-13:10
Parallel sessions
Th3

14:30-15:00
Parallel sessions
Th4

PRA NPP	PRA NPP	HUMAN ORG	MATHEMATICS	INDUSTRIAL	SOFTWARE
16A-Th4	16B-Th4	27-Th4	02-Th4	20-Th4	10-Th4
RI maintenance, testing and technical specifications	HRA applications 1	Key issues in safety management	Risk analysis	Risk assessment applications 2	Failure modes identification and classification

14:30-15:00
Parallel sessions
Th4

16:20-16:40
Parallel sessions
Th5

PRA NPP	PRA NPP	TRANSPORT	MATHEMATICS	INDUSTRIAL	SOFTWARE
16A-Th5	16B-Th5	28-Th5	02-Th5	20-Th5	10-Th5
PRA case studies	HRA applications 2	Modeling and applications - transportation	Probabilistic and statistical modeling and analysis	Industrial analysis approaches and cases 2	I&C reliability models 2

16:20-16:40
Parallel sessions
Th5

19:30-21:00

Helsinki City Reception at Helsinki City Hall

19:30-21:00

COFFEE BREAK

EXTERNAL	AVIATION
22-Th2	21-Th2
External hazards 2	Aerospace safety management

NON-PROB	PRA NPP
13-Th2	16B-Th2
Expert judgments	Fire methods and applications 1

LUNCH BREAK

PRA NPP	RISK PERC
16C-Th3	12-Th3
Other reactor types	Risk assessment - fundamental issues

ECONOMIC	PRA NPP
19-Th3	16D-Th3
Economic and financial issues	Fire methods and applications 2

COFFEE BREAK

HEALTH	AVIATION
25-Th4	21-Th4
Health care 1	Critical issues in aviation - safety performance 2

IMPORTANCE	PRA NPP
30-Th4	16C-Th4
Importance measures	Fire methods and applications 3

FRUIT BREAK

EXTERNAL	CRISIS	MAINTENANCE	INFRA	PRA NPP
22-Th5	31-Th5	01-Th5	24S-Th5	16C-Th5
Environmental impact assessments	Vulnerability and resilience analysis	Advances in maintenance modeling 2	Vulnerability of critical infrastructures 2	Data collection and analysis for fire PRA

Session moved to
24S-We5

Europa	Fennia 2	Fennia 1	Nordia	Nautica	Press room
--------	----------	----------	--------	---------	------------

Baltica	Marine room	ElieI (hotel)	Selim (hotel)	Kino K13
---------	-------------	---------------	---------------	----------

08:30-09:30
Plenary session
Fr1

Plenary
PL-Fr1

08:30-09:30
Plenary session
Fr1

09:30-10:00
Parallel sessions
Fr2

COFFEE BREAK					
PRA NPP	PRA NPP	PRA NPP	MATHEMATICS	NON-PROB	SOFTWARE
16AS-Fr2	16B-Fr2	16C-Fr2	02A-Fr2	13-Fr2	10S-Fr2
Fukushima and stress tests	HRA applications 3	CCF and dependences	Statistical failure analysis	Non-probabilistic analyses	Safety systems for real time applications 1

COFFEE BREAK				
EXTERNAL	RISK MANAG	SIL	INDUSTRIAL	MATHEMATICS
22-Fr2	17-Fr2	26-Fr2	20-Fr2	02BS-Fr2
Environmental impact and climate change	RI approaches for regulatory oversight	SIL - high-level considerations	RAMS 2	HRA and Bayesian analysis

09:30-10:00
Parallel sessions
Fr2

11:40-13:10
Parallel sessions
Fr3

LUNCH BREAK					
PRA NPP	PRA NPP	PRA NPP	MATHEMATICS	SOFTWARE	
16A-Fr3	16B-Fr3	16C-Fr3	02-Fr3	10S-Fr3	
Modeling power systems	HRA - panel discussion	NPP reliability data	Tools for RAMS assessment	Safety systems for real time applications 2	

LUNCH BREAK			
EXTERNAL	TRANSPORT	HEALTH	INDUSTRIAL
22-Fr3	28-Fr3	25-Fr3	20-Fr3
Flooding risks	Railway safety and reliability modeling	Health care 2	Risk assessment applications 3

11:40-13:10
Parallel sessions
Fr3

14:30-14:40
Closing session
Fr4

COFFEE BREAK	
Closing	
CL-Fr4	
Closing	

COFFEE BREAK			
--------------	--	--	--

14:30-14:40
Closing session
Fr4

15:30-16:00
16:00

STRAWBERRIES
Closing of the conference

15:30-16:00
16:00