

## Workshop on Fundamentals of Risk Analysis and Safety Assessment of Air Traffic Operations

Belgrade, 5-9 October 2009.

The Workshop is jointly organized by the *Division of Airports and Air Traffic Safety - Faculty of Transport and Traffic Engineering University of Belgrade* (FTTE-APATC), Serbia (<http://apatc.sf.bg.ac.rs>) and *Air Transport Safety Institute of National Aerospace Laboratory* (NLR-ATSI), Amsterdam, The Netherlands ([www.nlr-atsi.nl](http://www.nlr-atsi.nl)). The Workshop is supported by *EUROCONTROL*, Brussels, Belgium ([www.eurocontrol.int](http://www.eurocontrol.int)) and by the *Ministry of Science and Technological Development*, Republic of Serbia ([www.nauka.gov.rs](http://www.nauka.gov.rs)).

The workshop will provide fundamentals of risk analysis and safety assessment of air traffic operations. It is intended for senior year and graduate students having an interest in aviation safety, professionals as well as policy makers from the aviation industry. For successful participants certificate of attendance will be issued.

**Venue:** The workshop will be held at the University of Belgrade – Faculty of Traffic and Transport Engineering (Vojvode Stepe 305, Belgrade, Serbia)

### Lecturers:

- Henk Blom (NLR - ATSI), Principal Scientist
- Bart Klein-Obbink (NLR - ATSI), Senior Scientist
- Job Smeltink (NLR - ATSI), Senior Scientist
- Hendrik Korteweg (EUROCONTROL), Safety Regulation Expert
- Fedja Netjasov (FTTE - APATC), Teaching and Research Assistant

### Workshop registration fee:

- Regular fee: EUR 900
- Special fee - academics (e.g. professors, researchers, etc.): EUR 300
- Special fee - students: EUR 100

Information correct as of October 2, 2009.

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**Updates at:** <http://apatc.sf.bg.ac.rs>



## Programme

	<b>Monday</b> October 5, 2009	<b>Tuesday</b> October 6, 2009	<b>Wednesday</b> October 7, 2009	<b>Thursday</b> October 8, 2009	<b>Friday</b> October 9, 2009
<b>9:00 – 10:30</b>	<b>Registration of participants</b> <b>Welcome address</b>  <i>Fedja Netjasov (FTTE)</i>	<b>Stage 1: Scope the Assessment</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 4: Combine hazards</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 5: Sensitivity and Bias and Uncertainty Analysis</b>  <i>Henk Blom (NLR-ATSI)</i>	<b>ICAO and ESARR safety targets and requirements</b>  <i>Hendrik Korteweg (EUROCONTROL)</i>
<b>10:30 - 11:00</b>	<i>Coffee break</i>				
<b>11:00 – 12:30</b>	<b>Definition and Basic concepts of Risk and Safety</b>  <i>Fedja Netjasov (FTTE)</i>	<b>Stage 1: Scope the Assessment (examples)</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 3/4: Examples</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 5: Risk allocation vs. Risk assessment feedback to design</b>  <i>Henk Blom (NLR-ATSI)</i>	<b>Safety Scanning</b>  <i>Hendrik Korteweg (EUROCONTROL)</i>
<b>12:30 – 13:30</b>	<i>Lunch break</i>				
<b>13:30 – 15:00</b>	<b>Safety Assessment Methodologies (introduction)</b>  <i>Fedja Netjasov (FTTE)</i>	<b>Stage 2: Learning the nominal operation</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 5: Evaluate Risk: Quantitative methods of risk analysis</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 6: Identify potential mitigating measures</b>  <i>Henk Blom (NLR-ATSI)</i>	<b>Open discussion Conclusion Close-out</b>  <i>Henk Blom (NLR-ATSI) Hendrik Korteweg (EUROCONTROL) Fedja Netjasov (FTTE)</i>
<b>15:00 – 15:30</b>	<i>Coffee break</i>				
<b>15:30 – 17:00</b>	<b>Generic Safety Assessment process</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 3: Identify hazards</b>  <i>Bart Klein-Obbink (NLR-ATSI) Job Smeltink (NLR-ATSI)</i>	<b>Stage 5: Monte Carlo Simulation Modelling for Air Traffic management</b>  <i>Henk Blom (NLR-ATSI)</i>	<b>Stage 7: Safety monitoring and verification/ Safety Record and Statistics</b>  <i>Fedja Netjasov (FTTE)</i>	

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