

The Introduction to System Safety course is a five-day primer in system safety engineering. The course contains a mixture of lectures, discussions and small group exercises, supported by international examples. Whilst the course touches on broader issues in theorizing risk and managing safety within organisations, its main focus is to equip safety practitioners with the practical understanding necessary to engage with safety activities.

This course targets anyone, both novices and experts, involved in the development, testing and maintenance of a safety-related system:

- R & D engineers;
- Validation and Verification engineers;
- Maintenance engineers;
- R & D managers and Project leads;
- Quality engineers, etc.

#### Venue

The course takes place at the Crowne Plaza Hotel, located in Bruges, Belgium. More information on the hotel can be found at: https://www.ihg.com/crowneplaza/



#### **Contact**

Prof. Jeroen Boydens Jeroen.boydens@kuleuven.be

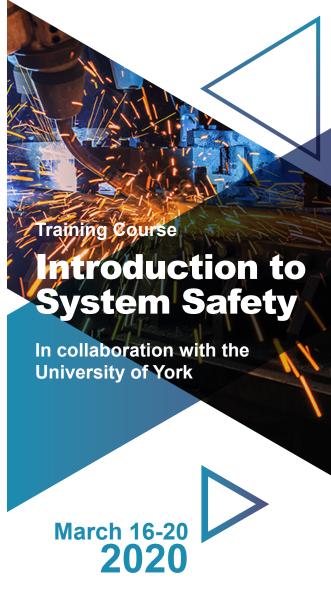
Prof. Davy Pissoort
Davy.pissoort@kuleuven.be











KU Leuven Bruges Campus Mechatronics Group (M-Group) Spoorwegstraat 12, 8200 Bruges (BE)

# Registrations To register for this course, please visit the Event's information page and follow the register link to the registration form. The main page can be found following this link: https://iiw.kuleuven.be/brugge/m-group/Events/ ssc2020 The number of participants is limited to 28. **Pricing**

The participation price for this course is € 4000.

This price also includes coffee breaks and lunch for each day of the course, as well as course dinner on Thursday.

Non-cumulative discounts are granted to:

- Two or more members from the same company [15% discount]
- Members of the User Group for the RESSIAR/ TransSIMS and E(E)WISE projects [10% discount].
- Participants from the SAS and Peter MSCA ITN projects [10% discount].

This course is eligible for a KMO Portefeuille, provided by VLAIO. More information on the KMO Portefeuille can be found at (in Dutch): http://www.kmo-portefeuille.be

### **Programme**

The course is organized in collaboration with the University of York and is based on material of their MSc of Science in Safety Critical Systems Engineering program. The course is structured according to the engineering lifecycle of a service or physical system, and covers:

- 1. Concepts and terminology for safety;
- 2. Overview of the engineering lifecycle from a safety perspective, including the role and intent of key safety activities;
- Hazard identification and setting of safety requirements;
- **4.** Techniques for safety analysis to support design, including:
  - Failure Modes and Effects Analysis (FMEA);
  - Functional Failure Analysis (FFA);
  - Hazard and Operability Studies (HAZOP);
  - Fault Tree Analysis (FTA).
  - Safety cases, including notations for recording arguments and evidence;
  - Specific issues in safety analysis, including, Human Factors, Software and Data Safety.

## **Organizers**



Prof. Davy Pissoort
Prof. Pissoort is the head of
the FMEC division (focusing
on Electrical and Electronic
Systems) of the Mechatronics
Group at the Dept. of
Electrical Engineering of KU
Leuven. His current research
focuses on electromagnetic
compatibility, hardware
dependability and functional
safety.



Prof. Jeroen Boydens
Prof. Boydens is the head
of the Software Coding
division of the Mechatronics
Group at the Dept. of
Computer Science of the
University of KU Leuven. His
current research focuses
on Software-implemented
Reliability in a context of
Functional Safety.

## Presenters



Dr Siyuan Ji
Dr Ji is a Lecturer in the
Department of Computer
Science at the University of
York. His research interests
include systems-engineering
methodologies, model-based
system safety and reliability
assessments, product line
engineering and constraintdriven design algorithms.



Dr Mark Nicholson
Dr Nicholson has over
20 years of experience in
developing and delivering
industrially relevant teaching,
both on award-bearing
(PGCERT, PGDIP, MSc)
programmes and noncredit bearing Continuing
Professional Development
courses for staff involved in
System Safety.