

NEW!
DOCTORAL
SCHOOL

SPECIALIZED COURSE
**INTEGRATED SAFETY:
FROM IDEA TO PILOT
INSTALLATION**

.....
27 - 29 March 2023



essenscia and the essenscia Process Safety Academy launch a brand new Specialized Course '**Integrated Safety: from idea to pilot installation**'. This 3-day Doctoral School in collaboration with Ghent University offers PhD students, postdocs and professionals from the industry an integrated approach, from process safety at lab-scale towards pilot plant production at industrial-scale. For additional information concerning these topics please feel free to contact Mr. Geert Boogaerts, director Safety & Sustainability at essenscia (+32 476 906 663 | gboogaerts@essenscia.be)

Program

The essenscia Process Safety Academy aims, with this new Doctoral School, in collaboration with Ghent University, to provide professionals with safety concepts that are essential for their career development and the safety of their operations. The 3-day Specialized Course on 'Integrated Safety: from idea to pilot installation' focuses on chemical safety in laboratories and the scale-up of chemical experiments towards pilot plants and industrial-scale pilot installations for real-life production. The target audience includes PhD students, postdocs, process safety professionals, R&D specialists and those responsible for the safety of start-up activities and pilot installations. The lectures are taught by specialists in their discipline.

- ✓ The first day starts with a theoretical explanation of intrinsic chemical hazards and risks at lab-scale, including the relevant research aspects on the REACH regulation to ensure life cycle safety.
- ✓ The second day focuses on the reaction chemistry of two renowned pilot plants in the Flemish region, with a particular emphasis on the utmost important aspects on safety of pilot plants and their influences on the final upscaling.
- ✓ The third day treats road maps for chemical process innovation in an incubator towards real-life realisations.

The academic coordination will be supervised by Prof. Dr. ir. **Paul Van Steenberge** (Laboratory of Chemical Technology, EA11, UGent).

Governance board

The Governance Board is the industrial sounding board of the essenscia Process Safety Academy. The Board consists of business leaders and safety experts from international companies in the chemical and life sciences industry. This advisory board determines the strategic goals of the Process Safety Academy's programme and ensures that the workshops and training courses are optimally tailored to the current needs and requirements of the process industry. In addition, the Board monitors the funding and financial management of the Process Safety Academy.

Governance board and steering committee

- ✓ **MSc. Ivan Pelgrims**, President Process Safety Academy, Managing Director, Evonik
- ✓ **MSc. Koen Colpaert**, HSE Group Process Safety Manager, Borealis
- ✓ **MSc. Kris Deboutte**, Global SHE Manager, INEOS Phenol & INEOS Nitriles
- ✓ **MSc. Filip De Proft**, EHS Director, Johnson & Johnson Belgium
- ✓ **MSc. Benny Ghoos**, Senior Operations Support Manager, Johnson & Johnson
- ✓ **MSc. Nico Hertoghe**, Research & Engineering, ExxonMobil
- ✓ **Phd. MSc. Pol Hoorelbeke**, Vice President Safety, TotalEnergies
- ✓ **MSc. Marnix Mahieu**, Managing Director, Kronos
- ✓ **MSc Stephen McGrady**, EHS BL Director, GSK UK
- ✓ **MSc. Frank Quaeyhaegens**, Head of Technical Services, Covestro
- ✓ **MSc. Geert Vercruyse**, Process Safety Expert, BASF
- ✓ **MSc. Jan Weckx**, Antwerp Process Safety Lead, Bayer Agriculture

Subscription fee

Students: Free

Industry members: 800 euro

www.essenscia.be

The course is limited to 20 participants, both PhD students and postdocs to promote hands-on knowledge transfer, as professionals from the chemical and life sciences industry.

DAY TO DAY OVERVIEW OF THE PROGRAMME :

DAY 01

**MONDAY 27 MARCH 2023 | 08.00 – 17.00**

Safety in the R&D laboratory



Introduction

Geert Boogaerts, Director Safety & Sustainability, essenscia

Overview of the program and the importance of an integrated safety approach



Safety of chemical molecules

Wim Dermaut, R&D Manager Chemical Process Development, Agfa Materials

Integrated safety in a laboratory environment



Chemical product safety

Tine Cattoor, Director Product Policy, essenscia

Product safety & REACH applied in an R&D environment

Venue NH Gent Belfort Hotel, Hoogpoort 63, 9000 Gent

DAY 02

**TUESDAY 28 MARCH 2023 | 08.00 – 17.00**

Safety in pilot installations

In-depth explanation of the safety processes and specific safety features in existing pilot installations.

09.00 – 12.00Safety Processes and Process safety in an amine pilot plant,
Eastman Chemical Company**14.00 – 17.00**Safety Processes and Process safety
in the Bio Base Europe Pilot Plant for biobased manufacturing

The lectures will be given by both a young science graduate in the industry together with an expert.

Venue

Eastman Chemical Company, Pantserschipstraat 207, 9000 Gent
Bio Base Europe Pilot Plant, Rodenhuisenkaai 1, 9042 Gent

DAY 03

**WEDNESDAY 29 MARCH 2023 | 10.00 – 15.00**

From idea to industry: BlueChem incubator for sustainable chemistry



Innovation strategy of the chemical & life sciences industry

Tine Schaerlaekens, Director Innovation, essenscia

What's on the innovation agenda?

From idea to start-up at BlueChem
Incubator for sustainable chemistry
Company testimonial

Presentation and experience exchange with an actual start-up at Bluechem

Dr. ir. Hannes Gemoets | Dr. Koen Van Aken, Creaflow**Venue** Bluechem incubator, Olieweg 95, 2020 Antwerpen

WITH THE SUPPORT OF



SUBSCRIPTION FILE

The essenscia Process Safety Academy and the essenscia Chair Safety Engineering organize a 3 day Specialized Course on Integrated Safety: From Idea to Pilot Installation

PARTICIPANT

FIRST NAME

LAST NAME

EMAIL

COMPANY

FUNCTION

Member of Process Safety Academy

Member of essenscia

Student

THE INVOICE OF €800

THE TRAINING IS FREE OF CHARGE FOR STUDENTS (TOTAL REGISTRATION FEE, EXCL. VAT) CAN BE SENT TO

COMPANY

STREET AND NUMBER

POSTAL CODE AND CITY

V.A.T.

PURCHASE ORDER

SIGNATURE OF THE PARTICIPANT

To be sent by mail

to **Ms. Michèle Celis** (mcelis@essenscia.be)

For additional information please feel free to contact

Mr. Geert Boogaerts (+32 476 906 663 | gboogaerts@essenscia.be) or

Ms. Michèle Celis (mcelis@essenscia.be).



where chemistry meets life sciences



POWERED BY ESSENSCIA