Seminar | **Introduction to Fire Dynamics Simulator (FDS) and Smokeview**

October 26th and 27th 2018 | **OET-North Regional Section** (Porto, Portugal)
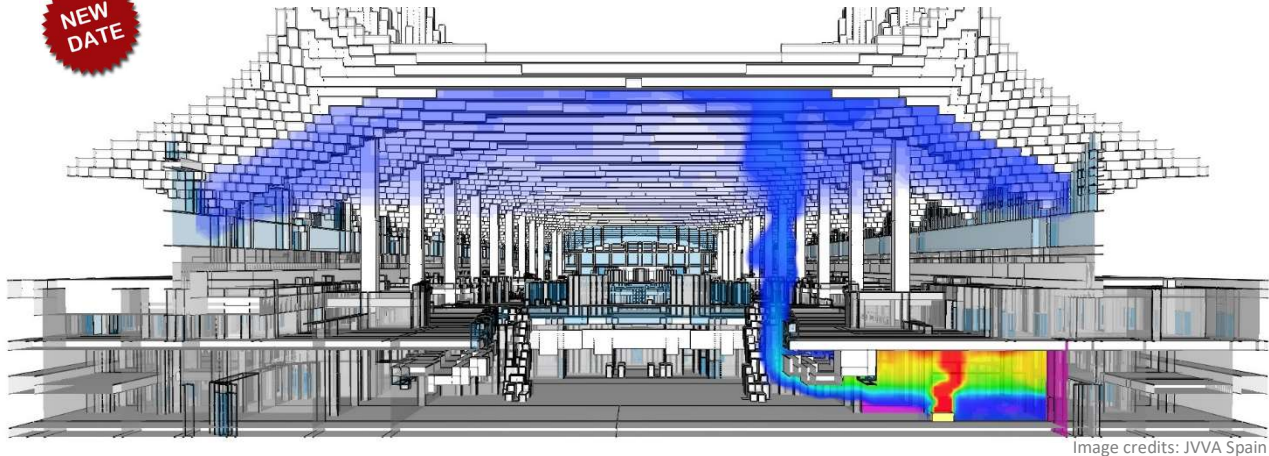
NEW DATE

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This 2-day seminar will provide practical hands-on introduction to **Fire Dynamics Simulator** (FDS) and **Smokeview** visualization. Each topic module includes a lecture and a workshop in which the student works example problems on their personal laptop computer. **The seminar and all the materials will be in English**.
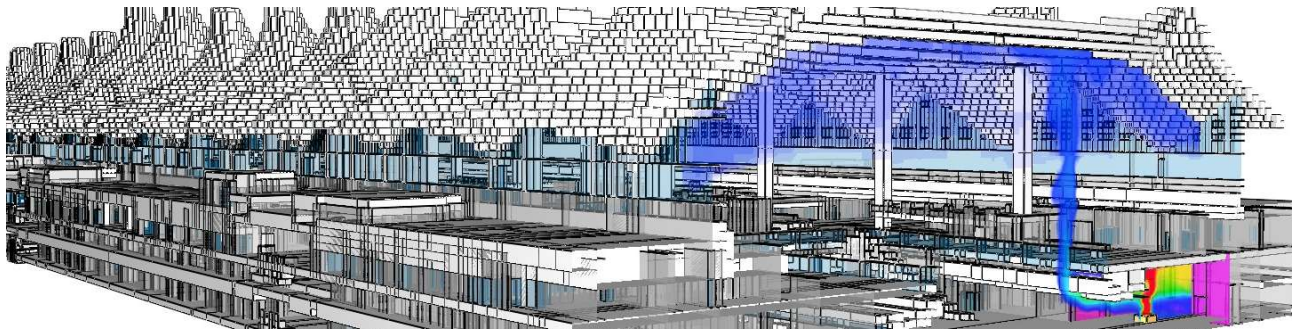
Contents__

- Pyrolysis and combustion.
- Boundary condition options, including: conduction, multiple layers, fixed temperature, extraction, supply, etc.
- Radiation.
- Smoke detectors and sprinklers.
- Implementing pre and post flashover fires.
- Smokeview techniques
- Using spreadsheets to develop FDS input files

Instructor__

Gabriele Vigne is a Fire Safety Engineer and Scientist, currently Director with JVVA in the Madrid office. He has worked on a wide range of multidisciplinary projects providing fire engineering solutions, including general fire strategy designs and computational fluid dynamics modelling, in commercial buildings, airports, underground infrastructures, rail and road tunnels, high rise and super high-rise buildings. Gabriele has been involved as Project Director and Project Manager in a variety of International multidisciplinary projects which predominantly involved Advanced Modelling of both Fire and Evacuation.

Gabriele held a Master degree in Mechanical Engineering and a Master of Advanced Studies in Fire Engineering. He has been attending University courses in the Lund University in the field of Fire Modelling and he is currently undertaking a PhD on computational methods for fire and smoke modelling at the University of Jaén (Spain) with the partnership of the Comillas University (ICAI) in Madrid and the Imperial College of London (UK). Gabriele's main experience is in Fluid Dynamics, Fire and Smoke modelling, Evacuation modelling and Tunnel Ventilation. He is the Spanish and Italian NIST international resource for FDS (Fire Dynamics Simulator) and Smokeview.

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Prerequisite__

Attendees should have an understanding of fire dynamics, heat transfer, and fluid dynamics theory to gather the greatest understanding possible from the seminar.

Requirements__

Attendees must bring a laptop computer with a minimum 2 GHz Pentium processor, 4 GB of RAM, and 10GB of free hard disk space. The computer should have a spreadsheet program for analysing data and Adobe Acrobat for reading the documentation. The attendees should also make sure that they have sufficient security privileges on their computers to allow the software to be installed during class.

Before coming to class, attendees should have download the most recent version of FDS and Smokeview and make sure the programs run on their computer. FDS and Smokeview are available from the NIST website www.bfrl.nist.gov. Follow the links for software, fire simulation software, and the NIST Fire Dynamics Simulator and Smokeview.

Schedule__

- Friday 26th | 10:00 am to 8:00 pm (lunch break from 1:00 pm to 2:00 pm)
- Saturday 27th | 9:00 am to 3:00 pm (lunch break from 12:00 am to 1:00 pm)

Venue__

The course will be held in OET - Ordem dos Engenheiros Técnicos - North Regional Section. See it on Google Maps in this link.

Registration__

Registration is made online in SFPE Portugal's site on http://www.sfpe.pt/introduction-to-fire-dynamics-simulator-fds-and-smokeview/ (or using the QR code below). Registration fees includes seminar material (sent by email), Certificate of Attendance and coffee break.

Registration fees__

SFPE Portugal full member or **SFPE International** members | 100 €

SFPE Portugal local member or **SFPE Spain** local member or **APSEI** member or **OET** member | 200 €

Members of Portuguese charter organizations (**OA**, **OE**) | 250 €

Others | 300 €

Organization

Partnership

Support