WHO SHOULD ATTEND
- AHJs
- Fire Investigators
- Fire Engineers
- Fire Safety System designers
- Smoke Management System designers
- Risk Management Consultants
- Insurance Assessors and Loss Adjusters
- Building Surveyors

WORKSHOP BENEFITS
- Small class size gives you more one-on-one time with the instructor
- Hands-on application lets you learn from experience
- Current, relevant information keeps you up-to-date with industry knowledge
- Participants can pursue their FDS learning after the workshop through a supervised project with the instructor
- A 90-day license for the software is provided

FDS/PyroSim Workshop
The 2-day workshop is an introduction to FDS and PyroSim. It gives the big picture and is suitable for managers, AHJs (who don't want to learn how make their own models) and beginning modellers. (The beginning modellers should then continue with the 1-day workshop, which is an introduction to the details of the distance education course and the price also includes the distance education course.)

Day 1
- Introduction to FDS and Smokeview
- Hardware and Software Requirements
- Elements of Building a Model
- Hands-on Construction of a Simple Model Using PyroSim (The simulation will run overnight on the participant's laptop.)

Day 2
- Using Smokeview to View the Results of a Simple Model
- Data Collection
- Reactions
- Fires
- Materials
- Surfaces
- Sprinklers and Suppression
- Performance-Based Design, with Examples
- Forensic Reconstructions, with Examples
- Evaluating FDS Reports
- Strengths and Weaknesses of FDS
- Resources

FDS/PyroSim Distance Education Course
If you're taking the 2-day FDS and PyroSim Workshop and want to build your own models then you should consider this second workshop. This 1-day introduction to the distance course is offered immediately following the 2-day FDS and PyroSim Workshop.

This class provides you the opportunity to work at your own pace and to create a realistic model. You will select a building to model from your own engineering practice and apply each concept to the model, as it is learned. You will then proceed at your own pace through the distance course, with support provided by email and/or web discussions.
- 1-day workshop that continues as a distance education course
- Designed for beginning modellers as a continuation of the 2-day FDS and PyroSim Workshop.
- Laptop required
ADVANCED FDS/PYROSIM WORKSHOP

The advanced workshop will examine common practical problems encountered by fire protection engineers in creating and running FDS models efficiently. (It will not deal with research-level topics such as complex reactions, multi-layered materials or other subjects of primary interest to the research community.) This workshop is still being developed. A tentative list of topics is shown below. We welcome suggestions for additional topics.

Day 1
- Cell sensitivity studies
- Optimizing multiple meshes
- Trouble-shooting numerical instabilities
- Building models from CAD drawings
- Building models from REVIT drawings
- Accessing the FDS repository

Day 2
- Liquid fuels
- Extra species
- How point measurements are averaged over a cell
- Smokeview tours
- Smokeview movies
- Assorted Smokeview tricks
- Using PyroSim efficiently

PATHFINDER WORKSHOP

Day 1
- Introduction to Pathfinder
- Simple Example
- Geometry Creation Tools
- Import Files
- Occupants, Profiles and Behaviors
- Distributions
- Simulation Parameters
- 3D Visualization
- Data files and 2D Plotting

Day 2
- Continued Hands-On Modelling.

REQUIREMENTS

This is a hands-on workshop, and participants must bring their own laptop computer.

INSTRUCTOR

David McGill was a full-time professor in the School of Fire Protection Engineering Technology at Seneca College in Toronto Canada. He designed and developed fire and evacuation modelling courses for full-time students in the Fire Protection Technology Program.

In 2000, he created the first online support forum for FDS, which ran until NIST created their own forum. Dave is a frequent contributor to the FDS Discussion Group. He is included in the Acknowledgement section of both the FDS and Smokeview manuals. He has been offering a distance education course on FDS since 2003 that has been taken by an international audience of fire protection engineers. He has delivered 2-day workshops on FDS in Australia, Canada, Ireland, New Zealand, USA, and Venezuela. Thunderhead Engineering is excited to be working with Dave to offer this international workshop series.

WORKSHOP DATES AND FEES

Pathfinder Workshop
$1,000 USD
April 18-19, 2016

FDS and PyroSim Workshop
$1,000 USD
April 20-21, 2016

FDS/PyroSim Distance Education Course
$1,400 USD
April 22, 2016

Advanced FDS and PyroSim Workshop
$1,000 USD
April 25-26, 2016

REGISTRATION

Space is limited to 20 participants in each workshop. Please register online at www.thunderheadeng.com/training/ by October 1, 2015 to reserve your place. If you have any questions or want to be notified of any updates, then please contact us at training@thunderheadeng.com