OpenFOAM® Two-Day Course
February 21-22, 2017

Instructed by Dr. Chris Sideroff, Applied CCM, Inc

Course Description

This 2-day training in OpenFOAM is designed to enable CFD users to start using OpenFOAM for practical computations. The course consists of a series of lectures that provide a general understanding of OpenFOAM topics followed by hands-on work. Along with the hands-on examples that show the "how", the lectures include discussion of the "why" to enable participants to independently use OpenFOAM in their daily work. No knowledge of the OpenFOAM library is assumed. Basic Linux commands and their relationship to hands-on examples are covered.

Day 1

- Overview of basic Linux commands and editing tools
- OpenFOAM: An overview of a library for scientific computing
- Hands-on example: Lid driven cavity
- Review of the Lid Driven Cavity: A closer look
- Hands-on example: Importing a Fluent case and setting it up to the run

Day 2

- Overview of the Finite Volume Method (FVM)
- Hands-on Example: Dam break
- Review of the Dam Break: Field initialization, post-processing, field probes
- Physical Models: Turbulence and wall functions
- Hands-on Example: Backward facing step
- Discretization and Linear solver setup guide
- Hands-on Example: Case setup

Note: The above course outline is a guide only and every attempt will be made to adjust the course content to suit the needs of attendees were possible.

A hard copy of the training notes will be provided together with a USB stick with a working copy of OpenFOAM and files from the course. For hands-on examples, attendees are required to bring their own laptop (PC). If attendees cannot bring their own laptop indicate so in the registration notes as one can be provided.

About Applied CCM

Applied CCM, Inc was founded in 2015 by Dr. Chris Sideroff to provide support, development and training for new and existing users to the field of computational continuum mechanics (OpenFOAM and Pointwise). Find out more about Applied CCM at: http://www.appliedccm.ca
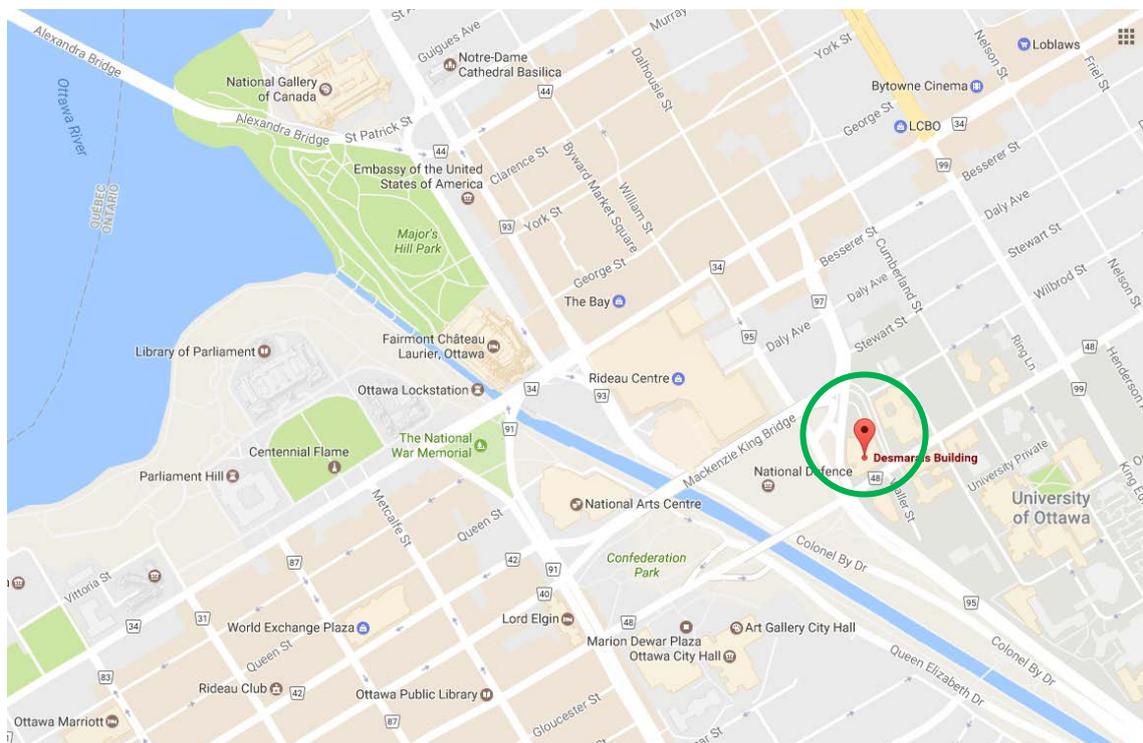
This offering is not endorsed by ESI-Group, the owner of the OPENFOAM® trade mark.

Price and Registration details:

- Industry: $1250 + GST per person
- Academic: $825 + GST per person
- Student: $600 + GST per person
- Coffee breaks are included.

Location:

University of Ottawa
Desmarais Building
55 Laurier East
Ottawa, Ontario K1N 6N5

More information about these courses may be found at
http://www.appliedccm.ca/training

Registrations may be done via online registration at http://www.appliedccm.ca/training,
by e-mail to Chris Sideroff (c.sideroff@appliedccm.ca), or by phone (613) 276-7472