

## **ECCOMAS Advanced Course**

### **Mathematical Theory of Finite Elements**

Lecturer: **Prof. Leszek Demkowicz**

Institute for Computational Engineering and Science (ICES)

The University of Texas at Austin

Venue:

**Institute of Fundamental Technological Research**

**Polish Academy of Sciences**

**Pawinskiego 5B, 02-106 Warsaw, Poland**

Dates: **24-28 June, 2018**

**Organizers:**

Polish Association for Computational Mechanics

Institute of Fundamental Technological Research, Polish Academy of Sciences

**Objectives:** Review of mathematical theory of the finite element method

**Target group:** PhD students, young scientists and all researchers who would like to know and understand mathematical fundamentals of the finite element method

**Scientific/technical areas covered:** variational formulations of the finite element method, fundamentals of Galerkin and conforming Finite Element (FE) methods, inf-sup stability condition, fundamentals of the Discontinuous Petrov-Galerkin (DPG) method, application to diffusion-convection-reaction problem

**Number of participants expected:** 20

**Participation fee**

Early payment (before 31 March 2019)      900 PLN

Regular payment (after 31 March 2019)      1000 PLN

**Estimated budget for the event:** 19 000 PLN