

August 28

**PRAGUE**  
**2020**  
August 24

# Control under Fluids

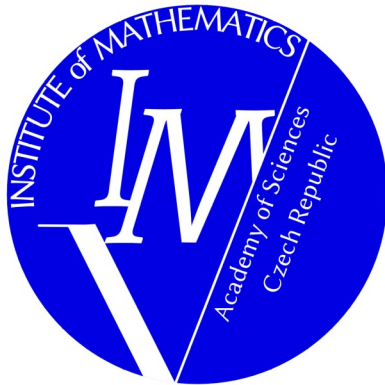
Summer School and Workshop

## MAIN LECTURERS:

*Roberto Triggiani - University of Memphis, USA*  
*Irena Lasiecka - University of Memphis, USA*  
*Andrei V. Fursikov - Moscow State University, Russia*  
*Matthias Möller - Delft University of Technology, Netherlands*  
*Marianna Braza - Institut de Mecanique des Fluides de Toulouse, France*

## MAIN TOPICS:

Partial differential equations and related control theory  
Nonlinear dynamical PDE systems  
Optimization theory, Extreme problems  
Optimal control problems  
Numerical analysis  
Stabilization and controllability  
Control problems in fluid mechanics



Academy of Sciences of the Czech Republic  
Institute of Mathematics



Czech Technical University in Prague  
Faculty of Mechanical Engineering



University of Pittsburgh  
Swanson School of Engineering

*In association with the Nečas Center for Mathematical Modeling*

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## Scope of the Event:

The problems of fluid flow control and optimization are becoming one of the fastest evolving and most important areas of fluid mechanics. The aim of this summer school is to present a comprehensive series of lectures on various aspects of fluid flow control and optimization and their role in mathematical analysis and numerical simulation of different types of flows. The summer school is organized as a multidisciplinary event with topics ranging from theoretical and numerical mathematics up to physics and applications. The emphasis will be on models related to topics originating in environmental, biomedical and industrial applications. The summer course is prepared for graduate students, young scientists, and other interested specialists. Besides of the course lectures, the program will include a one day workshop (on Wednesday, August 26) dedicated to short, more advanced lectures given by attending scientists.

## Course Location:

The whole course and workshop will be held at the Institute of Mathematics of the Academy of Sciences of Czech Republic.

*Institute of Mathematics, AS CR, Žitná 25, CZ - 115 67 Praha 1, Czech Republic*

## Registration Fees:

The registration fee covers course materials and refreshment during breaks. The accommodation and travel expenses are not covered.

	Early	Late	ERCOFTAC
Student fee (whole course & workshop)	280 €	300 €	210 €
Full regular fee (whole course & workshop)	360 €	380 €	270 €
Limited fee (workshop only)	180 €	200 €	135 €

ERCOFTAC members and participants coming from member institutions are eligible for discounted registration fee.

*For payment details and instructions please check the webpage and the registration confirmation email.  
For other forms of payment contact the organizers.*

*The early registration should be received before July 31, 2020.*

## Support for Students and Young Scientists:

Few grants will be available for students and young scientists. Please only ask for this support if you can not attend the summer school without it and you have no other funds to use. The grant will cover at least the registration fee. Those participants who will benefit from the support will be asked to present a poster showing their own scientific work. *A formal application, containing short CV, motivation letter and recommendation letter, should be received by organizers before June 30, 2020.*

*The grants and support for students and young scientists are provided by ERCOFTAC and by the Czech Academy of Sciences.*

**For detailed information contact the course organizers:**

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