MAIN LECTURERS:
Matthias Hieber - Technische Universität Darmstadt, Germany
Didier Bresch - Université de Savoie, France
Giovanni Paolo Galdi - University of Pittsburgh, USA
Jiří Neustupa - Institute of Mathematics, ASCR Prague, Czech Republic
Yoshihiro Shibata - Waseda University, Japan
Milovan Perić - CoMeT - Continuum Mechanics Technologies GmbH, Germany
Miroslav Bulíček - Charles University, Prague, Czech Republic
Volker John - Weierstrass Institute, Berlin, Germany

MAIN TOPICS:
Pressure in incompressible and compressible flows
Role of pressure in regularity of Navier-Stokes eqn.
 Constitutive laws of viscous fluids
Pressure role in the equations of state
Numerical methods for pressure resolution
Shock related pressure effects
Physical background of pressure

In association with the Nečas Center for Mathematical Modeling

WWW: http://www.prague-sum.com E-mail: support@prague-sum.com
Scope of the Event:
The aim of the summer school is to present a comprehensive series of lectures on various aspects of problems related to pressure and its role in mathematical analysis and numerical simulation of various types of flows. It is organized as a multidisciplinary event with topics ranging from theoretical and numerical mathematics up to physics and applications. The emphasize 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 31) 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 Czech Academy of Sciences.
Institute of Mathematics, CAS, 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. A discount is offered for participants coming from the ERCOFTAC member institutions.

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<thead>
<tr>
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<th>Early</th>
<th>Late</th>
<th>ERCOFTAC</th>
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<tbody>
<tr>
<td>Student fee (whole course &amp; workshop)</td>
<td>280 €</td>
<td>300 €</td>
<td>200 €</td>
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<tr>
<td>Full regular fee (whole course &amp; workshop)</td>
<td>360 €</td>
<td>380 €</td>
<td>240 €</td>
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<tr>
<td>Limited fee (workshop only)</td>
<td>180 €</td>
<td>200 €</td>
<td>120 €</td>
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The early registration should be received before July 31, 2016.

Support for Students and Young Scientists:
Limited number of ERCOFTAC grants will be available for students and young scientists. Please only ask for this support if you cannot attend the summer school without it and you have no other funds to use. Depending on the number of applicants the exact amount of support will be announced after the application deadline. 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 July 31, 2016.

For detailed information contact the course organizers:

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For further details and actual information see: http://www.prague-sum.com  ver. 23.4.2016