

## Workshop Program

### Thursday, September 25

8:55-9:00	<b>Opening/Welcome</b>
9:00-9:55	<b>IP1</b> Giuseppe Buttazzo, <i>Optimal Dirichlet Regions for Some Elliptic Problems.</i>
9:55-10:50	<b>IP2</b> Antoine Henrot, <i>What is the Optimal Shape of a Pipe?</i>
10:50-11:20	<b>Coffee Break</b>
11:20-12:15	<b>IP3</b> Michel Pierre, <i>About Shape Optimization with Convexity Constraint.</i>
12:15-12:45	<b>CT1</b> Gunther Peichl, <i>A Variational Approach to Shape Derivatives.</i>
12:45-14:15	<b>Lunch Break</b>
14:15-15:10	<b>IP4</b> John A. Burns, <i>Design, Control and Optimization of Energy Efficient Buildings - A Challenge for Computational Science and Engineering.</i>
15:10-16:05	<b>IP5</b> Ronald Hoppe, <i>Adaptive Multilevel Barrier Methods for Shape Optimization Problems.</i>
16:05-16:30	<b>Coffee Break</b>
16:30-17:25	<b>IP6</b> Mathias Stolpe, <i>On the Development of the Branch and Cut Method in the PLATO-N Project.</i>
17:25-17:55	<b>CT2</b> Raino Mäkinen, <i>On Sparse Forward Mode Automatic Differentiation with Applications to Shape Optimization.</i>
17:55-18:25	<b>CT3</b> Stephan Schmidt, <i>Non-Parametric Shape Optimization in CFD.</i>

### Friday, September 26

8:45-9:40	<b>IP7</b> Günter Leugering, <i>Topology Optimization for 3-D Elastic Networks.</i>
9:40-10:35	<b>IP8</b> Andre Novotny, <i>Topological Derivative in Multi-Scale Linear Elasticity Models.</i>
10:35-11:00	<b>Coffee Break</b>
11:00-11:55	<b>IP9</b> Jean-Paul Zolésio, <i>Shape Variational Formulation for Euler Flow with Free Interface.</i>
11:55-12:25	<b>CT4</b> Karsten Eppler, <i>On the Well-Posedness of Free Boundary Value Problems.</i>
12:25-14:00	<b>Lunch Break</b>
14:00-14:55	<b>IP10</b> Michael Y. Wang, <i>Recent Advances in Level Set Methods for Topology Optimization of Structures.</i>
14:55-15:50	<b>IP11</b> Antoni Zochowski, <i>On the Applications of the Steklov-Poincaré Operator.</i>
15:50-16:15	<b>Coffee Break</b>
16:15-16:45	<b>CT5</b> Nikos Kaminakis, <i>Design of Multi-Purpose Compliant Mechanisms Using Topology Optimization and Evolutionary Algorithms.</i>
16:45-17:15	<b>CT6</b> Stefanie Elgeti, <i>Numerical Shape Optimization of Extrusion Dies - A New Field of Application.</i>
17:15-17:45	<b>CT7</b> Wolfgang Ring, <i>Level-Set Based Mumford-Shah Models for the Solution of Geometrical Inverse Problems.</i>
17:45-18:15	<b>CT8</b> Claudia Schillings, <i>Robust Shape Optimization in CFD.</i>

**Saturday, September 27**

<b>8:45-9:40</b>	<b>IP12</b> Martin Burger, <i>Convex and Nonconvex Relaxation Approaches.</i>
<b>9:40-10:35</b>	<b>IP13</b> John Barrett, <i>Parametric Approximation of Geometric Evolution Equations.</i>
<b>10:35-11:00</b>	<b>Coffee Break</b>
<b>11:00-11:55</b>	<b>IP14</b> Charlie Elliott, <i>Computational Surface PDEs.</i>
<b>11:55-12:25</b>	<b>CT9</b> Vanessa Styles, <i>Partial Differential Equations on Evolving Diffuse Interfaces.</i>
<b>12:25-14:00</b>	<b>Lunch Break</b>
<b>14:00-14:55</b>	<b>IP15</b> Jaroslav Haslinger, <i>Shape Optimization in Bernoulli Free Boundary Problems.</i>
<b>14:55-15:50</b>	<b>IP16</b> Serguei A. Nazarov, <i>Control on the Propagation of Waves: Creating Gaps in the Continuous Spectra of Periodic Waveguides.</i>
<b>15:50-16:15</b>	<b>Coffee Break</b>
<b>16:15-16:45</b>	<b>CT10</b> Victor A. Kovtunenکو, <i>Shape Optimization Problems for Cracks with Contact and Kink.</i>
<b>16:45-17:15</b>	<b>CT11</b> Andrzej Nowakowski, <i>Shape Optimization of Control Problems Described by Wave Equations.</i>
<b>17:15-17:20</b>	<b>Closing</b>