

## Program for Thursday, September 23

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09.00–09.05	<b>Opening</b>
	<b>Session 1, Chair: Bernd Hofmann (Chemnitz, Germany)</b>
09.05–09.45	<b>Martin Hanke</b> (Mainz, Germany) <i>The regularizing Levenberg-Marquardt scheme</i>
09.45–10.15	<b>Elena Resmerita</b> (Linz, Austria) <i>Morozov principle for an augmented Lagrangian method for solving ill-posed problems</i>
10.15–10.45	<b>Masahiro Yamamoto</b> (Tokyo, Japan) <i>Inverse problems for Navier-Stokes equations</i>
10.45–11.05	<b>Coffee break</b>
	<b>Session 2, Chair: Thorsten Hohage (Göttingen, Germany)</b>
11.05–11.30	<b>Peter Mathé</b> (Berlin, Germany) <i>Regularization under general noise assumptions</i>
11.30–11.55	<b>Ulrich Tautenhahn</b> (Zittau, Germany) <i>On the interpolation method for deriving conditional stability estimates in ill-posed problems</i>
11.55–12.20	<b>Robert Plato</b> (Siegen, Germany) <i>The regularizing properties of the trapezoidal method for weakly singular Volterra integral equations of the first kind</i>
12.20–13.30	<b>Lunch break</b>
	<b>Session 3, Chair: Masahiro Yamamoto (Tokyo, Japan)</b>
13.30–13.55	<b>Herbert Egger</b> (Graz, Austria) <i>On model reduction and unique solvability for fluorescence diffuse optical tomography</i>
13.55–14.20	<b>Torsten Hein</b> (Chemnitz, Germany) <i>Iterative regularization of Landweber-type in Banach spaces</i>
14.20–14.45	<b>Marco A. Iglesias</b> (Cambridge, Massachusetts, USA) <i>Level-set techniques for facies identification in reservoir modeling</i>
14.45–15.10	<b>Tom Lahmer</b> (Weimar, Germany) <i>Design of Experiments for Ill-Posed Problems With Application to Water Dam Monitoring</i>
15.10–15.25	<b>Coffee break</b>
	<b>Session 4, Chair: Rudolf Gorenflo (Berlin, Germany)</b>
15.25–15.50	<b>Marcus Meyer</b> (Chemnitz, Germany) <i>Parameter identification in nonlinear elasticity – theory, results, and problems</i>
15.50–16.15	<b>Guanghai Hu</b> (Berlin, Germany) <i>Uniqueness in Inverse Scattering of Elastic Waves by Doubly Periodic Structures</i>
16.15–16.40	<b>Gerd Wachsmuth</b> (Chemnitz, Germany) <i>Regularization results for inverse problems with sparsity functional</i>
16.40–16.50	<b>Break</b>

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**Session 5, Chair: Peter Mathé (Berlin, Germany)**

- 16.50–17.15 **Bernd Hofmann** (Chemnitz, Germany)  
*Some new aspects of regularization in the context of variable Hilbert scales*
- 17.15–17.35 **Jens Flemming** (Chemnitz, Germany)  
*Variational inequalities versus source conditions in Hilbert spaces*
- 17.35–17.50 **Nadja Rückert** (Chemnitz, Germany)  
*Some studies on regularization of Poisson distributed data*
- 17.50–18.00 **Yuanyuan Shao** (Zittau/Chemnitz, Germany)  
*Generalized discrepancy principle for ill-posed problems with noisy data*
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- 18.15 **Excursion to ‘Rabensteiner Felsendome’ with conference dinner**  
departure 18.15 by bus at hotel ‘Chemnitzer Hof’
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## Program for Friday, September 24

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	<b>Session 1, Chair: Martin Hanke (Mainz, Germany)</b>
09.00–09.30	<b>Thorsten Hohage</b> (Göttingen, Germany) <i>Inverse problems in photonic imaging</i>
09.30–10.00	<b>Stefan Kindermann</b> (Linz, Austria) <i>On the convergence of heuristic parameter choice rules</i>
10.00–10.30	<b>Barbara Kaltenbacher</b> (Graz, Austria) <i>Regularization by Local Averaging Regression</i>
10.30–10.50	<b>Coffee break</b>
	<b>Session 2, Chair: Barbara Kaltenbacher (Graz, Austria)</b>
10.50–11.15	<b>Helmut Harbrecht</b> (Stuttgart, Germany) <i>An efficient numerical method for a shape identification problem arising from the heat equation</i>
11.15–11.40	<b>Christian Clason</b> (Graz, Austria) <i><math>L^1</math> data fitting for nonlinear inverse problems</i>
11.40–12.05	<b>Thorsten Raasch</b> (Mainz, Germany) <i>Optimal convergence rates of <math>\ell_1</math>-constrained Tikhonov regularization under compressibility assumptions</i>
12.05–13.15	<b>Lunch break</b>
	<b>Session 3, Chair: Herbert Egger (Graz, Austria)</b>
13.15–13.40	<b>Kamil S. Kazimierski</b> (Bremen, Germany) <i>On Engl's discrepancy principle</i>
13.40–14.05	<b>Anastasia Cornelio</b> (Modena, Italy) <i>Regularized Nonlinear Least Squares Methods for Hit Position Reconstruction in Small Gamma Cameras</i>
14.05–14.30	<b>Christine Böckmann</b> (Potsdam, Germany) <i>Levenberg-Marquardt Method under Logarithmic Source Condition</i>
14.30–14.40	<b>Coffee break</b>
	<b>Session 4, Chair: Elena Resmerita (Linz, Austria)</b>
14.40–15.00	<b>Narayan Puthanmadam Subramaniyam</b> (Tampere, Finland) <i>Regularization methods for inverse EEG problems</i>
15.00–15.20	<b>Ute Aßmann</b> (Duisburg, Germany) <i>Identification of an unknown parameter in the main part of an elliptic PDE</i>
15.20–15.40	<b>Nataliya Togobytska</b> (Berlin, Germany) <i>An inverse problem for laser-induced thermotherapy arising in tumor tissue imaging</i>
15.40–16.00	<b>Ralf Engbers</b> (Münster, Germany) <i>Nonlinear Inverse Problem of Myocardial Blood Flow Quantification</i>
16.00–16.05	<b>Break</b>
	<b>Session 5, Chair: Ulrich Tautenhahn (Zittau, Germany)</b>
16.05–16.25	<b>Elena Loli Piccolomini</b> (Bologna, Italy) <i>A feasible direction method for the solution of an inverse ill-posed problem</i>
16.25–16.45	<b>Matthias Schlottbom</b> (Aachen, Germany) <i>Analysis and regularization in diffuse optical tomography</i>
16.45–17.05	<b>Jahn Müller</b> (Münster, Germany) <i>Total Variation Regularization in 3D PET Reconstruction</i>

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