

Program for Thursday, September 18

09.00–09.05	Introduction
	Session 1, Chair: Bernd Hofmann (Chemnitz, Germany)
09.05–09.50	Opening lecture Andrew Stuart (Warwick, Great Britain) <i>Well-posed Bayesian geometric inverse problems</i>
09.50–10.15	Peter Mathé (Berlin, Germany) <i>Merging regularization theory into Bayesian inverse problems</i>
10.15–10.40	Elena Resmerita (Klagenfurt, Austria) <i>An entropic Landweber-type method for linear ill-posed problems</i>
10.40–11.00	Coffee break
	Session 2, Chair: Sergei V. Pereverzyev (Linz, Austria)
11.00–11.25	Christian Clason (Essen, Germany) <i>Stochastic inverse problems with impulsive noise</i>
11.25–11.50	Markus Grasmair (Trondheim, Norway) <i>Bregman distance, source conditions, and variational inequalities in Tikhonov regularisation</i>
11.50–12.15	Volker Michel (Siegen, Germany) <i>The regularized (orthogonal) functional matching pursuit - a best basis algorithm for inverse problems in geomathematics and medical imaging</i>
12.15–13.15	Lunch break
	Session 3, Chair: Elena Resmerita (Klagenfurt, Austria)
13.15–13.40	Masahiro Yamamoto (Tokyo, Japan) <i>Inverse problems of moving sources in wave equation</i>
13.40–14.05	Teresa Reginska (Warsaw, Poland) <i>Solution-functional and data-functional regularization strategies for determining the laser beam quality parameters</i>
14.05–14.30	Frank Werner (Göttingen, Germany) <i>Statistical inverse problems in fluorescence microscopy</i>
14.30–14.55	Richard Kowar (Innsbruck, Austria) <i>On time reversal in photoacoustic tomography for tissue similar to water</i>
14.55–15.15	Coffee break
	Session 4, Chair: Arnd Rösch (Essen, Germany)
15.15–15.40	Matthias Schlottbom (Münster, Germany) <i>Identification of nonlinear heat conduction laws in heat transfer problems</i>
15.40–16.05	Christian Gerhards (Siegen, Germany) <i>Combining downward continuation and local approximation on different spheres by optimized kernels</i>
16.05–16.30	Ismael Rodrigo Bleyer (Helsinki, Finland) <i>Digital speech: an application of the dbl-RTLS method for solving GIF problem</i>
16.30–16.45	Steven Bürger (Chemnitz, Germany) <i>An autoconvolution problem connected with SD-SPIDER</i>
17.00–21.30	Excursion to Wasserschloss Klaffenbach and conference dinner departure 17.05 by bus from hotel ‘Chemnitzer Hof’

Program for Friday, September 19

The first morning session is dedicated to the 60th anniversary of PD Dr. Peter Mathé.

09.00–09.10	Bernd Hofmann (Chemnitz, Germany) <i>Laudation</i>
	Session 5, Chair: Jens Flemming (Chemnitz, Germany)
09.10–09.35	Sergei V. Pereverzyev (Linz, Austria) <i>Aggregation of regularized approximations</i>
09.35–10.00	Markus Hegland (Canberra, Australia) <i>Weighted function spaces for highdimensional approximation and multiparameter regularisation</i>
10.00–10.25	Stephan W. Anzengruber (Chemnitz, Germany) <i>A NURBS-based gradient method for sparse angle tomography</i>
10.25–10.45	Coffee break
	Session 6, Chair: Peter Mathé (Berlin, Germany)
10.45–11.10	Stefanie Hollborn (Mainz, Germany) <i>Backscatter data in electric impedance tomography</i>
11.10–11.35	Tapio Helin (Helsinki, Finland) <i>Inverse scattering in half-space with random boundary conditions</i>
11.35–12.00	Jan-Frederik Pietschmann (Darmstadt, Germany) <i>Identification of chemotaxis models with volume filling</i>
12.00–12.25	Sergiy Pereverzyev Jr. (Innsbruck, Austria) <i>Multi-penalty regularization for detecting relevant variables</i>
12.25–13.20	Lunch break
	Session 7, Chair: Markus Hegland (Canberra, Australia)
13.20–13.35	Hanne Kekkonen (Helsinki, Finland) <i>White noise paradox in Bayesian inverse problems</i>
13.35–13.50	Srivilliputtur Subbiah Nanthakumar (Weimar, Germany) <i>Inverse problem of multiple inclusions detection in piezoelectric structures using XFEM and Level sets</i>
13.50–14.05	Fabio Margotti (Karlsruhe, Germany) <i>Inexact newton regularization methods in Banach spaces</i>
14.05–14.20	Robert Winkler (Karlsruhe, Germany) <i>Adaptive sensitivity-based regularization for Newton-type inversion in electrical impedancetomography</i>
14.20–14.35	Sarah Orzowski (Siegen, Germany) <i>Regularized joint inversion of EEG and MEG data by a best basis algorithm</i>
14.35–14.45	Coffee break
	Session 8, Chair: Stephan W. Anzengruber (Chemnitz, Germany)
14.45–15.00	Zenith Purisha (Helsinki, Finland) <i>Recovering shape of 2D pipe with corrosion and attenuation coefficient with limited data</i>
15.00–15.15	Pavlo Tkachenko (Linz, Austria) <i>Multi-parameter regularization of ill-posed spherical pseudo-differential equations in C-space</i>
15.15–15.30	Daniela Saxenhuber (Linz, Austria) <i>Atmospheric tomography for ELT adaptive optics</i>
15.30–15.45	Daniel Gerth (Linz, Austria) <i>The method of the approximate inverse for atmospheric tomography</i>