

# Evolution Equations, Schmitten, October 10-15, 2010

Time	Monday		Tuesday		Wednesday	Thursday		Friday
08:50 h	<b>Conference Opening</b>							
09:00h - 09:40h	Herbert Amann		Charles Batty		Felix Otto	Nicolai Krylov		Alan McIntosh
09:50h - 10:30h	Michael Renardy		Michel Pierre		Ralph Chill Cornelia Kaiser Rico Zacher  Coffee Break  Roland Schnaubelt Markus Haase Peer Kunstmann	Yoshihiro Shibata		Edriss Titi
	Coffee Break		Coffee Break			Coffee Break		Coffee Break
11:00h - 11:40h	Pascal Auscher		Yoshikazu Giga			In memoriam Nigel Kalton		Jerome Goldstein
11:50h			Photo session					<b>Conference Closing</b>
12:00h	Lunch		Lunch		Lunch	Lunch		Lunch
	Room A	Room B	Room A	Room B	Social Event	Room A	Room B	
14:00h - 14:20h	Feireisl	Röckner	Da Prato	Mielke		Koch	Kozono	
14:25h - 14:45h	Fang	Pallara	Londen	Nečasová		Wittbold	Emmrich	
14:50h - 15:10h	Geissert	Veraar	Stannat	Racke		Mazón	König	
	Coffee Break		Coffee Break			Coffee Break		
15:40h - 16:00h	Triggiani	Robinson	Escher	Caselles		Hytönen	Lunardi	
16:05h - 16:25h	Heck	Metafune	M.-H. Giga	Guidotti		Desch	Dreher	
16:30h - 16:50h	Hishida	ter Elst	Schrohe	Behrndt		Haller	van Neerven	
	Coffee Break		Coffee Break			Coffee Break		
17:20h - 17:40h	Lasiecka	Rehberg	Crouzeix	Kyed		Latushkin	Abels	
17:45h - 18:05h	Lorenzi	Wood	Saal	Sawada		Farkas	Shimizu	
18:10h - 18:30h	Ruess	Daners	Denk	Yamazaki		Neubrandner	Simonett	
19:30h	Dinner		Dinner		Conference Dinner	Dinner		
20:30h – 21:30h			Poster session					



# Evolution Equations, Schmitten, October 10-15, 2010

Time	Monday	
08:50 h	Conference Opening	
09:00h - 09:40h	H. Amann <i>Parabolic transmission boundary value problem</i>	
09:50h - 10:30h	M. Renardy <i>Stability of advective systems and creeping flows of viscoelastic fluids</i>	
	Coffee Break	
11:00h - 11:40h	P. Auscher <i>Representations for solutions of second-order elliptic equations via generalized Cauchy-Riemann systems</i>	
12:00h	Lunch	
14:00h	Room A	Room B
14:00h - 14:20h	E. Feireisl <i>On suitable weak solutions to the compressible Navier-Stokes system</i>	M. Röckner <i>Uniqueness of Fokker-Planck equations on infinite dimensional spaces</i>
14:25h - 14:45h	D. Fang <i>Random data Cauchy theory for the incompressible three dimensional Navier-Stokes equations</i>	D. Pallara <i>Semigroups and geometric measure theory in Wiener spaces</i>
14:50h - 15:10h	M. Geissert <i>Weak Neumann implies Stokes</i>	M. Veraar <i>Stochastic maximal regularity</i>
	Coffee Break	
15:40h - 16:00h	R. Triggiani <i>Stabilization and backward uniqueness of parabolic-hyperbolic fluid structure interaction models</i>	D. Robinson <i>Markov uniqueness and <math>L^1</math>-uniqueness of degenerate elliptic operators</i>
16:05h - 16:25h	H. Heck <i>Stationary solutions of the Navier-Stokes equations in the exterior of a rotating obstacle</i>	G. Metafune <i>Elliptic operators with unbounded diffusion coefficients in <math>L^p</math> spaces</i>
16:30h - 16:50h	T. Hishida <i>2D flow around a rotating obstacle</i>	T. ter Elst <i>Partial Gaussian bounds for degenerate differential operators</i>
	Coffee Break	
17:20h - 17:40h	I. Lasiecka <i>Global attractors for 2-D Kirchoff-Boussinesque evolutions</i>	J. Rehberg <i>On parabolic equations with non-homogeneous Neumann boundary conditions</i>
17:45h - 18:05h	L. Lorenzi <i>Asymptotic behaviour in time periodic parabolic problems with unbounded coefficients</i>	I. Wood <i>Spectral theory via operator M-functions - forward and inverse problems</i>
18:10h - 18:30h	W. Ruess <i>Linearized stability for nonlinear evolution equations</i>	D. Daners <i>The Faber-Krahn inequality for Robin problems</i>
19:30h	Dinner	

# Evolution Equations, Schmitten, October 10-15, 2010

Time	Tuesday	
09:00h - 09:40h	<b>Ch. Batty</b> <i>Integral resolvent conditions</i>	
09:50h - 10:30h	<b>M. Pierre</b> <i>Global weak solutions for reaction-diffusion systems: a mixed <math>L^1</math> - <math>L^2</math> approach</i>	
	Coffee Break	
11:00h - 11:40h	<b>Y. Giga</b> <i>Blow-up arguments and the Navier-Stokes equations</i>	
11:50h	Fotoshooting	
12:00h	Lunch	
14:00h	Room A	Room B
14:00h - 14:20h	<b>G. Da Prato</b> <i>Elliptic equations in open subsets of infinite dimensional Hilbert spaces</i>	<b>A. Mielke</b> <i>Gradient structures for reaction-diffusion systems and semiconductor models with interface dynamics</i>
14:25h - 14:45h	<b>S.-O. Londen</b> <i>On some stochastic integral equations</i>	<b>S. Nečasová</b> <i>On a model in radiation hydrodynamics</i>
14:50h - 15:10h	<b>W. Stannat</b> <i>Stochastic Navier-Stokes-Coriolis equations</i>	<b>R. Racke</b> <i>Global solutions to hyperbolic Navier-Stokes equations</i>
	Coffee Break	
15:40h - 16:00h	<b>J. Escher</b> <i>On some geometric evolution equations in hydrodynamics</i>	<b>V. Caselles</b> <i>Regularity for solutions of the total variation denoising problem</i>
16:05h - 16:25h	<b>M. Giga</b> <i>Planar motion by anisotropic curvature derived from singular interfacial energy</i>	<b>P. Guidotti</b> <i>The use of nonlinear diffusions in image processing</i>
16:30h - 16:50h	<b>E. Schrohe</b> <i>A quasi-stationary Stefan Problem with surface tension</i>	<b>J. Behrndt</b> <i>Inverse problems of Calderón type</i>
	Coffee Break	
17:20h - 17:40h	<b>M. Crouzeix</b> <i>Functional calculus in an annulus</i>	<b>M. Kyed</b> <i>Steady-State Navier-Stokes Flows Past a Rotating Body: Leray Solutions are Physically Reasonable</i>
17:45h - 18:05h	<b>J. Saal</b> <i>Maximal regularity for cylindrical boundary value problems</i>	<b>O. Sawada</b> <i>Analysis of the free boundary value problem related to the spin-coating process</i>
18:10h - 18:30h	<b>R. Denk</b> <i>Maximal <math>L^p</math>-regularity for parabolic mixed-order systems</i>	<b>M. Yamazaki</b> <i>The unique existence and the stability of solutions of two-dimensional Navier-Stokes exterior problem with external force with symmetry</i>
19:30h	Dinner	
20:30h – 21:30h	Poster Session	

# Evolution Equations, Schmitten, October 10-15, 2010

Time	Wednesday
09:00h - 09:40h	<b>F. Otto</b> <i>Regularity theory for the moving contact line</i>
09:50h - 10:35h	<b>R. Chill</b> <i>Maximal regularity and the local inverse function theorem</i> <b>C. Kaiser</b> <i>Fourier multipliers, square functions, and the wavelet transform</i> <b>R. Zacher</b> <i>On convergence of solutions to equilibria for quasilinear parabolic problems</i>
	<b>Coffee Break</b>
11:00h - 11:45h	<b>R. Schnaubelt</b> <i><math>L^p</math> theory for tangentially degenerate operators</i> <b>M. Haase</b> <i>Some remarks on a decade of functional calculus</i> <b>P. Kunstmann</b> <i>On optimal <math>L^p</math>-<math>L^q</math>-estimates for parabolic boundary value problems</i>
12:00h – 13:30h	<b>Lunch</b>
14:00h	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <ul style="list-style-type: none"> <li>➤ bus tour to Bingen (with the famous "mouse tower") in the Rhine valley</li> <li>➤ Sightseeing boat trip on the river Rhine through the UNESCO World heritage "Upper Middle Rhine Valley"</li> <li>➤ Wine tasting in the local wine cellar Georg Breuer</li> </ul> </div> </div> <div style="text-align: center; margin-top: 20px;">  <h1 style="font-size: 100px; color: black; transform: rotate(-10deg); opacity: 0.5;">Social Event</h1> </div>
19:30h	<b>Conference Dinner at the Hotel Krone in Assmanshausen</b>

# Evolution Equations, Schmitten, October 10-15, 2010

Time	Thursday	
09:00h - 09:40h	N. Krylov <i>A few results on VMO spaces and linear and fully nonlinear elliptic and parabolic equations</i>	
09:50h - 10:30h	Y. Shibata <i>On the Stokes equations with first order boundary condition and its application to the Navier-Stokes equations</i>	
	Coffee Break	
11:00h - 11:40h	<i>In memoriam Nigel Kalton</i>	
12:00h	Lunch	
14:00h	Room A	Room B
14:00h - 14:20h	H. Koch <i>Parabolic equations with rough initial data</i>	H. Kozono <i>Global compensated compactness theorem for general differential operators of first order</i>
14:25h - 14:45h	P. Wittbold <i>Nonlinear parabolic equation with variable exponents and <math>L^1</math> data</i>	E. Emmrich <i>Doubly nonlinear evolution equations of second order: existence and fully discrete approximation</i>
14:50h - 15:10h	J. Mazón <i>Regularity results on the relativistic heat equation</i>	H. König <i>On the chain rule functional equation for differentiable functions</i>
	Coffee Break	
15:40h - 16:00h	T. Hytönen <i>Return to the treasure island of Bourgain</i>	A. Lunardi <i>Dirichlet problems for Ornstein-Uhlenbeck operators in Hilbert spaces</i>
16:05h - 16:25h	W. Desch <i>On a Paley-Littlewood inequality</i>	M. Dreher <i>Douglis-Nirenberg Systems and Analytic Semigroups</i>
16:30h - 16:50h	R. Haller <i>The square root of divergence form operators with mixed boundary conditions</i>	J. van Neerven <i>Identification of the domain in <math>L^p</math> of non-symmetric Ornstein-Uhlenbeck operators</i>
	Coffee Break	
17:20h - 17:40h	Y. Latushkin <i>The index formula and the spectral shift function for relatively trace class perturbations</i>	H. Abels <i>Diffuse interface models for two-phase flows with different densities</i>
17:45h - 18:05h	B. Farkas <i>Operator splitting for non-autonomous equations</i>	S. Shimizu <i>Local well-posedness of incompressible two-phase flow with phase transition</i>
18:10h - 18:30h	F. Neubrander <i>Approximation of semigroups and inversion of the Laplace transform</i>	G. Simonett <i>On the Rayleigh-Taylor instability for the two-phase Navier-Stokes equations</i>
19:30h	Dinner	

## Evolution Equations, Schmitten, October 10-15, 2010

Time	Friday
09:00h - 09:40h	<b>A. McIntosh</b> <i>Potential maps for de Rham complexes on Lipschitz domains</i>
09:50h - 10:30h	<b>E. Titi</b> <i>Global regularity for the three-dimensional primitive equations of atmospheric and oceanic dynamics</i>
	<b>Coffee Break</b>
11:00h - 11:40h	<b>J. Goldstein</b> <i>Instantaneous blowup and related nonexistence issues</i>
11:50h	<b>Conference Closing</b>
12:00h	<b>Lunch</b>
14:00h	<b>End of Evolution Equations 2010</b>