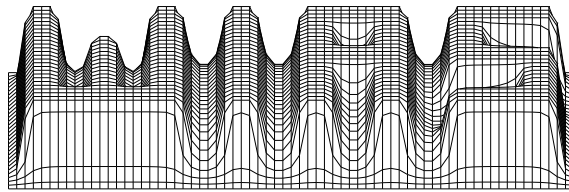


# 11. TMP

International Conference  
on  
**Recent Advances**  
in  
**Analytical and Numerical Treatment**  
of  
**Operator Equations**

in memory of Prof. Siegfried Prößdorf



Organized by

Department of Mathematics, Technical University of Chemnitz  
and  
Weierstrass-Institute for Applied Analysis and Stochastics, Berlin

March 25 - 28, 1999  
Hotel Wasserschloß Klaffenbach  
Chemnitz, Germany

## Obituary

Prof. Dr. rer. nat. habil. Siegfried Pröbldorf

**January 2, 1939 – July 19, 1998**

For me, as for many colleagues in Germany and abroad, the news of Siegfried Pröbldorf's death was so shocking as to be unfathomable. Only now, little by little, are its implications becoming clearer. We have lost one of the most prolific mathematicians that ever worked in the area of integral equations and their numerical analysis. It is not possible to fully describe his life and his scientific work in the few broad strokes to which I am restricted here. The course of his career was decidedly influenced by his undergraduate studies at the Department of Mathematics of Leningrad University from 1958 to 1963 and subsequent graduate work there from 1963 to 1966. Fichtenholz, Natanson, Smirnow, and other excellent mathematicians were his lecturers. In particular the influence of Professor Salomon Michlin on Siegfried Pröbldorf's work cannot be overestimated. In the 1960s various classes of convolution equations whose generating functions have zeros and thus violate normalization conditions became the object of intense study. Michlin steered Pröbldorf's interest towards this area, became his graduate mentor and remained his lifelong friend and collaborator. Upon his graduation in 1966, Pröbldorf accepted a position at the Institute of Mathematics at the Technical University Karl-Marx-Stadt (now Technical University of Chemnitz). It was my good fortune to become an Assistant in his group in 1967.

His extraordinary talents were demonstrated in his habilitation thesis in 1967 and finally in his advancement to tenure in 1969. In addition Professor Pröbldorf showed himself to be an exemplary teacher and organizer. He built up a flourishing research team and enthusiastically involved himself in teaching. Pröbldorf's lectures in analysis are well remembered to this day. They set the high standards that the Department of Mathematics of the Technical University of Chemnitz feels its duty to maintain.

In the late 1960s and early 1970s tensions arose in the Department of Mathematics due to contrary interpretations of the role of mathematics within the natural sciences and within society. Siegfried Pröbldorf, with characteristic determination and integrity, maintained the position that mathematics is indivisible and that its course of progress is determined by its own innate logic and dynamics. Nevertheless, he certainly did not deny the importance of external influences as stimulating and enriching. For example, he considered computer technology as being a means to raise the applicability of mathematical methods to completely new levels.

In the early 1970s, although the potential for conflict at the Department of Mathematics in Karl-Marx-Stadt kept increasing, Siegfried Pröbldorf's reputation outside of Karl-Marx-Stadt grew steadily. These developments lead him to seek a suitable position elsewhere. As I understand it, he received various offers from the then GDR Academy of Sciences and finally, in 1975, moved reluctantly to Berlin. Prior to that, in 1972-73, he was a guest professor at the Institute of Mathematics of the Academy of Sciences in Kishinev (Moldavia). This period of his life brought two important developments: For one, Pröbldorf wrote his first book, which was later quite well respected and widely distributed. The second is his acquaintance and developing friendship with Israel Gohberg, whose scientific work was for Pröbldorf's research group as significant as that of Salomon Michlin. Stimulated by Israel Gohberg's suggestions, in 1973-74 Siegfried Pröbldorf and I began working on our own problems in Numerical Analysis. The scope of these investigations grew steadily and influenced his entire scientific activities at the Weierstraß Institute in Berlin. In the mid 1970s he had his first contacts with Professors Meister and Wendland who at the time were still working in Darmstadt. They, too, in difficult

times, proved to be good friends and colleagues. Wolfgang Wendland suggested to Pröbldorf that he explore applications of spline approximations to boundary integral equations. Together with his coworkers in Berlin, he earned lasting honors for his work in this area, of which a representative example is the application of Mellin techniques in Numerical Analysis.

As I already mentioned, respect for Siegfried Pröbldorf's contributions grew with each passing year. His list of publications comprises 130 refereed papers and five books. He gave innumerable lectures at international conferences and other occasions and was on the editorial boards of four respected mathematical periodicals. He richly deserved the National Prize, which he won in 1980.

Siegfried Pröbldorf leaves behind a school in which not only his own students but also their progeny continues to work. The course that he laid is clear and leads to the future. Despite his personal importance as a scientist, he remained modest, tolerant, and supportive.

I recall with pleasure my many visits to Roswitha and Siegfried Pröbldorf, our discourses, and the sincere empathy shown by him for the manifold problems that we, his friends, colleagues and students, shared with him. His open and congenial manner, and his commitment, won him many friends.

His early death leaves an emptiness that, in my mind and heart, can never be filled.

We are reaping today that which Siegfried Pröbldorf sowed many years ago. His life and work tell us that this process needs continuous renewal. We honor him best when we follow these ideas.

Bernd Silbermann

Chemnitz, March 1999

**Thursday 25 March 1999**

*Room: Bürgersaal*

*Chairman: E. Meister*

8:30 - 8:55	Welcome: B. Silbermann, Technische Universität Chemnitz Opening Address: E. Lanckau, Technische Universität Chemnitz
9:00 - 9:55	I. Gohberg, Tel Aviv University <i>State space method in problems of Mathematical Analysis</i>
10:00 - 10:45	I. H. Sloan, The University of New South Wales <i>Local principles for the qualocation method</i>
coffee break	

*Chairman: I. H. Sloan*

11:05 - 11:50	S. Roch, Technische Universität Darmstadt <i>Fractality - a property which makes approximation processes uniform</i>
11:55 - 12:25	A. Böttcher, Technische Universität Chemnitz <i>The spectrum of the Cauchy singular integral operator</i>
lunch break	

*Parallel Sessions, Room: Bürgersaal*

*Chairman: I. Spitkovsky*

14:00 - 14:30	G. Heinig, Kuwait University <i>Superfast algorithms for Toeplitz and Toeplitz-plus-Hankel systems</i>
14:35 - 15:05	N. Vasilevski, National Polytechnic Institute, Mexico <i>Bergman-Toeplitz operators: a pseudodifferential approach</i>
15:10 - 15:40	Yu. Karlovich, Instituto Superior Técnico, Lisboa <i>Singular integral operators with finite groups of shifts and slowly oscillating data</i>
coffee break	

*Chairman: Yu. Karlovich*

16:00 - 16:30	V. S. Rabinovich, National Politechnic Institute, Mexico <i>Operators of potential type on curves with vorticity points</i>
16:35 - 17:05	R. Duduchava, A. Razmadze Mathematical Institute <i>Boundary integral equations on curves with cusps</i>
17:10 - 17:40	V. V. Kravchenko, National Polytechnic Institute, Mexico <i>On a new method for obtaining null-solutions of the Dirac operator</i>

*Parallel Sessions, Room: von Taube*

*Chairman: J. Elschner*

14:00 - 14:30	M. Feistauer, Charles University, Praha <i>On coupled procedures for viscous flow in exterior domains</i>
14:35 - 15:05	G. Gatica, Universidad de Concepcion <i>Solvability and Galerkin approximations of a class of nonlinear operator equations arising in variational problems with constraints</i>
15:10 - 15:40	P. E. Ricci, Università degli Studi di Roma "La Sapienza" <i>Iterative computation of eigenvalues of second kind Fredholm operators and applications</i>
coffee break	

*Chairman: L. Jentsch*

16:00 - 16:30	S. N. Chandler-Wilde, Brunel University <i>Solvability and numerical treatment of a class of integral equations on the real line</i>
16:35 - 17:05	G. Schmidt, WIAS Berlin <i>Analysis and numerics for diffractive gratings</i>
17:10 - 17:40	Dao-Qing Dai, Zhongshan University <i>Continuous solutions of a singular Vekua system</i>

**Friday 26 March 1999**

*Room: Bürgersaal*

*Chairman: R. Schneider*

9:00 - 9:55	W. Hackbusch, Max-Planck-Institut, Leipzig <i>Hierarchical matrices</i>
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*Parallel Sessions, Room: Bürgersaal*

*Chairman: W. Hackbusch*

10:00 - 10:30	F.-O. Speck, Instituto Superior Técnico, Lisboa <i>Regularity Properties and Generalized Inverses of Delta-related Operators</i>
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10:35 - 11:05	I. Spitkovsky, College of William and Mary, Williamsburg <i>On some convolution type equations</i>
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coffee break	
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11:25 - 11:55	J. Saranen, University of Oulu <i>Spline collocation for parabolic boundary integral equations</i>
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12:00 - 12:30	H. Brunner, Memorial University of Newfoundland <i>Collocation methods for Volterra integral equations with proportional delays</i>
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*Parallel Sessions, Room: von Taube*

*Chairman: R. Duduchava*

10:00 - 10:30	P. Oswald, Bell Labs, Murray Hill <i>Economical approximations for a model screen problem</i>
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10:35 - 11:05	V. Kozlov, Linköping University <i>Asymptotics of solutions to semi-linear equations near boundary singularities</i>
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coffee break	
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11:25 - 11:55	M. Efendiev, Freie Universität Berlin <i>Orientable and nonorientable Riemann-Hilbert problems and their related CW-structures</i>
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12:00 - 12:30	L. von Wolfersdorf, TU Bergakademie Freiberg <i>Potential flow past a porous circular cylinder</i>
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lunch break	
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*Memory Session, Room: Bürgersaal*

*Chairman: V. Maz'ya*

	J. Sprekels, WIAS Berlin <i>Siegfried Prößdorf - A short review of his scientific career</i>
14:00 - 16:00	B. Silbermann, Technische Universität Chemnitz <i>On some contributions of S. Prößdorf to the theory of singular operators of non-normal type</i>
	W. Wendland, Universität Stuttgart <i>Splines, finite elements, and integral equations</i>

coffee break	
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*Parallel Sessions, Room: Bürgersaal*

*Chairman: S. Roch*

16:30 - 17:00	V. B. Dybin, Rostov State University <i>The singular integral equations on <math>\mathbf{R}</math> with <math>C_B^\infty(\mathbf{R})</math>-coefficients</i>
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17:05 - 17:35	J. Elschner, WIAS Berlin <i>On the conical diffraction problem for optical gratings</i>
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17:40 - 18:10	S. Handrock-Meyer, Technische Universität Chemnitz <i>An inverse problem from 2D-groundwater modelling</i>
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*Parallel Sessions, Room: von Taube*

*Chairman: V. V. Kravchenko*

16:30 - 17:00	W. Spröbig, TU Bergakademie Freiberg <i>Hypercomplex methods for problems in fluid mechanics</i>
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17:05 - 17:35	K. Gürlebeck, Bauhaus-Universität Weimar <i>On some classes of hypercomplex Pi-operators</i>
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17:40 - 18:10	S. M. Grudsky, Rostov State University <i>Modelling oscillating functions by Blaschke products</i>
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**Saturday 27 March 1999**

*Room: Bürgersaal*

*Chairman: W. Wendland*

9:00 - 9:55	V. Maz'ya, Linköping University <i>Maximum principles for elliptic and parabolic systems</i>
10:00 - 10:45	G. C. Hsiao, University of Delaware <i>A domain integral equation method for the reconstruction of electromagnetic imaging</i>
coffee break	

*Chairman: G. C. Hsiao*

11:05 - 11:50	R. Kreißig, Technische Universität Chemnitz <i>Identifikation von Materialparametern durch Auswertung von Spannungs- und Verschiebungsfeldern</i>
11:55 - 12:25	G. Vainikko, Helsinki University of Technology <i>Fast solvers of the generalized airfoil equation</i>
lunch break	

*Parallel Sessions, Room: Bürgersaal*

*Chairman: H. Brunner*

14:00 - 14:30	C. Bourgeois, Technische Universität Chemnitz <i>Multiscale methods for the heat equation</i>
14:35 - 15:05	Salim Meddahi, Universidad de Oviedo <i>A new approach to quadratures for BEM-FEM formulations in 2-d</i>
15:10 - 15:40	N. Karapetiants, Rostov State University <i>Some classes of the multidimensional integral operators with homogeneous kernels</i>
coffee break	

*Chairmain: P. Junghanns*

16:00 - 16:30	G. Mastroianni, Università della Basilicata <i>Integral equations in some weighted Besov spaces</i>
16:35 - 17:05	G. Monegato, Politecnico di Torino <i>A singular integral equation formulation for the determination of the reaction force profile in circular plates</i>
17:10 - 17:40	I. G. Graham, University of Bath <i>Fast Integration in 3D Boundary Element Methods</i>

*Parallel Sessions, Room: Parkblick*

*Chairman: P. Oswald*

14:00 - 14:30	S. Sauter, Universität Leipzig <i>Variable order panel clustering</i>
14:35 - 15:05	K. Giebermann, Universität Bonn <i>A survey on compression methods for boundary element matrices</i>
15:10 - 15:40	B. Khoromskij, Universität Kiel <i>On a sparse <math>\mathcal{H}</math>-matrix approximation to nonlocal operators</i>
coffee break	

*Chairmain: W. Sprößig*

16:00 - 16:30	A.-M. Sändig, Universität Stuttgart <i>Local solvability and regularity results for a class of semilinear elliptic problems in nonsmooth domains</i>
16:35 - 17:05	J. Schult, Universität Kiel <i>Approximation and commutator properties of projections and applications to BEM</i>
17:10 - 17:40	T. Shaposhnikova, Linköping University <i>Maximal algebra in spaces of Sobolev multipliers</i>

**Sunday 28 March 1999**

*Room: Bürgersaal*

*Chairman: L. von Wolfersdorf*

10:00 - 10:45	A. Rathsfeld, WIAS Berlin <i>Wavelet collocation for integral equations</i>
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coffee break

*Chairman: R. Gorenflo*

11:05 - 11:50	M. Yamamoto, The University of Tokyo <i>Convergence rates of Tikhonov's regularization solutions</i>
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11:55 - 12:25	G. Bruckner, WIAS Berlin <i>Tikhonov regularization for a first kind integral equation with analytic kernel</i>
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lunch break

*Parallel Sessions, Room: Bürgersaal*

*Chairman: G. Vainikko*

14:00 - 14:30	U. Langer, Johannes Kepler Universität Linz <i>Scientific computing tools for 3D magnetic field problems</i>
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14:35 - 15:05	R. Gorenflo, Freie Universität Berlin <i>Difference schemes of random walk type for space-fractional diffusion equations</i>
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15:10 - 15:40	R. Plato, Technische Universität Berlin <i>Regularization of an inverse problem in groundwater filtration</i>
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*Parallel Sessions, Room: Parkblick*

*Chairman: A.-M. Sändig*

14:00 - 14:30	L. Jentsch, Technische Universität Chemnitz <i>On boundary integral equation methods in the thermoelasticity of anisotropic bodies</i>
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14:35 - 15:05	D. Natroshvili, Georgian Technical University <i>Uniqueness theorems for inverse fluid-structure interaction problems</i>
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15:10 - 15:40	H. Bremer, Johannes Kepler Universität Linz <i>Operator based motion equations</i>
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