

**Colloquia, Keynote, Plenary and Special Invited Lectures
of George C. Hsiao**
(Since 1975)

- (1) Singular perturbations for difference equations, National Science Foundation Regional Research Conference on “New Direction in Singular Perturbations: Theory and Applications,” Flagstaff, Arizona, June 23–27, 1975.
- (2) Solutions of boundary value problems by integral equations of the first kind, Mathematisches Institut I, Freie Universität Berlin, December 4, 1975.
- (3) A finite element method for some integral equations of the first kind, Mathematisches Institut, Köln–Lindenthal Universität, January 16, 1976.
- (4) Solutions of boundary value problems by integral equations of the first kind, Angewandte Mathematik, Johan Wolfgang Goethe Universität Frankfurt/Main, February 13, 1976.
- (5) A finite element method for a class of singular integral equations of the first kind, Oberwolfach Conference on Mathematische Probleme der Geodäsie, Mathematisches Forschungsinstitut, Oberwolfach, March 21–27, 1976.
- (6) Singular perturbation problems for a class of singular partial differential equations, International Conference on Ordinary and Partial Differential Equations, University of Dundee, Scotland, March 30 – April 2, 1976.
- (7) A Neumann series representation for solutions to the exterior boundary-value problems of elasticity, International Conference on Function-Theoretic Methods for Partial Differential Equations, Darmstadt, West Germany, April 12–15, 1976.
- (8) Boundary value problems for quasilinear elliptic equations, Fachbereich Mathematik, Technische Hochschule Darmstadt, May 6, 1976.
- (9) On a class of singular partial differential equations with a small parameter, Fachbereich Mathematik, Technische Universität Berlin, May 14, 1976.
- (10) A finite element method for a class of singular integral equation of the first kind, Lehrstuhl für Numerische and Angewandte Mathematik, Universität Göttingen, May 18, 1976.
- (11) Finite element approximation for a class of singular integral equations of the first kind, Mathematisches Institut der Universität München, June 10, 1976.

- (12) Solutions of boundary value problems by the integral equations of the first kind, Department of Mathematics, Vanderbilt University, December 1, 1977.
- (13) A singularly perturbed Cauchy problem, International Conference on Ordinary and Partial Differential Equations, University of Dundee, Dundee, Scotland, March 29–31, 1978.
- (14) Solutions to the difference equations of singular perturbation problems, Conference on the Numerical Analysis of Singular Perturbation Problems, University of Nijmegen, Nijmegen, The Netherlands, May 30 – June 2, 1978.
- (15) Singular perturbations for a class of Hyperbolic equations, Conference on Constructive Approaches to Mathematical Models (A Symposium in Honor of R. J. Duffin), Carnegie–Mellon University, Pittsburgh, July 10–14, 1978.
- (16) Finite–element approximations of integral equations with logarithmic kernels, Special Session on Integral Equations with Emphasis on Fredholm and Hamerstein Equations, Amer. Math. Soc., Biloxi, Mississippi, January 23–28, 1979.
- (17) An introduction to differential equations with a small parameter – Prandtl’s model, Mathematischen Seminar, Institut für Mathematik I, Freie Universität Berlin, June 18, 1979.
- (18) Numerical solutions of differential equations with a small parameter, Mathematischen Seminar, Institut für Mathematik III, Freie Universität Berlin, June 21, 1979.
- (19) Slow viscous flows past cylinders, The Danish Center for Applied Mathematics and Mechanics, The Technical University of Denmark, Lyngby, Denmark, June 25, 1979.
- (20) Hyperbolic equations with a small parameter, Institut für Mathematik I, Freie Universität Berlin, July 9, 1979.
- (21) Hyperbolic equations with a small parameter, Istituto Matematico, Università Degli Studi, Firenze, Italy, July 26, 1979.
- (22) Nonlinear boundary value problems for elliptic systems in the plane, Mathematical Institute of the Polish Academy of Sciences, Warsaw, Poland, August 20, 1979.
- (23) On slow viscous flows past cylinders, American Society of Civil Engineers 3rd Engineering Mechanics Division Specialty Conference, Austin, Texas, U.S.A., September 17–19, 1979.
- (24) A remark on boundary layers in ill–posed problems, International Symposium on Ill–posed Problems: Theory and Practice, Newark, Delaware, U.S.A., October 2–6, 1979.

- (25) A numerical treatment of differential equations with a small parameter, Institut für Numerische und Angewandte Mathematik, Universität Göttingen, November 27, 1979.
- (26) A nonlinear boundary value problem of an elliptic system in the plane, Darmstadt, Fachbereich Mathematik, Technische Hochschule, November 29, 1979.
- (27) Solution of boundary value problems by integral equations of the first kind, Institut für Mathematik Johannes Kepler Universität Linz, Linz, Österreich, December 12, 1979.
- (28) A Galerkin–collocation method for integral equations with logarithmic kernels, Institut für Numerische Mathematik, Technische Hochschule Wien, Wien, Österreich, December 14, 1979.
- (29) Remarks on some integral equations of the first kind, Mathematischen Seminar, Institut für Mathematik III, Freie Universität Berlin, January 24, 1980.
- (30) On Galerkin methods for parabolic equations with a small parameter, Angewandte Mathematik, Johann Wolfgang Goethe Universität Frankfurt/Main, January 25, 1980.
- (31) Integral representations of solutions for two–dimensional viscous flow problems, Oberwolfach Conference on Integral Equations Methods in Engineering, Oberwolfach, Germany, December 7–13, 1980.
- (32) Eine Anwendung von Integral – gleichungen erster Art, Fachbereich Mathematik, Technical University Berlin, December 19, 1980.
- (33) Nonlinear boundary value problems for a semilinear elliptic system in the plane, Special session on “Elliptic Systems in the Plane,” Amer. Math. Soc. 1980 Annual Meeting, San Francisco, CA, January 7–11, 1981.
- (34) Super–approximation for boundary integral methods, IMACS International Symposium on Computer Methods for Partial Differential Equations, Lehigh University, Bethlehem, PA, June 30 – July 2, 1981.
- (35) Singular perturbations for the two–dimensional viscous flow problem, Oberwolfach Conference on Singuläre Störungs–theorie mit Anwendung, Oberwolfach August 17–22, 1981.
- (36) On the solution of boundary value problems by the method of integral equations, Fachbereich Mathematik, Freie Universität Berlin, August 25, 1981.
- (37) A numerical treatment of integral equations of the first kind, Department of Mathematics, Carnegie–Mellon University, September 1, 1981.

- (38) Be aware of small terms, Sigma Xi, University of Delaware, February 25, 1982.
- (39) Finite element methods for boundary integral equations arising in elasticity and fluid mechanics, International Conference on Finite Element methods, Shanghai, China, August 2–6, 1982.
- (40) On the stability for a class of integral equations, Department of Mathematics, Fudan University, Shanghai, China, August 9, 1982.
- (41) On the two-dimensional Navier–Stokes equations, Department of Mathematics, Fudan University, Shanghai, China, August 9, 1982.
- (42) On the stability for a class of integral equations, Computing Center Academia, Sinica, Beijing, China, August 19, 1982.
- (43) Numerical treatment for a parabolic equation with a small parameter, Institute of Mathematics, Academia, Sinica, Beijing, China, August 20, 1982.
- (44) The finite element method for a class of improperly posed integral equations, Oberwolfach Conference on “Improperly Posed Problems and Their Numerical Treatment,” Oberwolfach, September 26 – October 2, 1982.
- (45) On the numerical stability for a class of integral equations, Stichting Mathematisch Centrum, Amsterdam, April 24, 1983.
- (46) The Galerkin method for boundary integral equations arising in elasticity and fluid mechanics, Department of Mathematics & Informatics, Delft University of Technology, Delft, The Netherlands, April 26, 1983.
- (47) On the stability of a class of integral equations of the first kind, Institut für Numerische und Angewandte Mathematik, Universität Göttingen, May 3, 1983.
- (48) On slow viscous flows past cylinders, Università Degli Studi, Istituto Matematico, “Ulisse Dini,” Florence, Italy, May 9, 1983.
- (49) On a class of integral equations of the first kind arising in elasticity and fluid mechanics, Istituto Matematico, “Guido Castelnuovo,” Università di Roma, Italy, May 11, 1983.
- (50) A boundary element method for a class of integral equations arising in elasticity and fluid mechanics, Dipartimento di Matematica, Università Degli Studi di Trento, Italy, May 13, 1983.
- (51) On a class of boundary integral equations arising in mechanics, Fachbereich Mathematik, Technische Hochschule Darmstadt, May 26, 1983.

- (52) An integral equation approach to exterior boundary value problems for the Navier–Stokes equations, Mathematics Institute, Universität Augsburg, June 7, 1983.
- (53) The Galerkin–method for boundary integral equations arising in elasticity and fluid mechanics, Fachbereich Mathematik, Technische Universität Berlin, June 10, 1983.
- (54) A modified boundary integral equation method for linearized Navier–Stokes equations, Fachbereich Mathematik, Freie Universität Berlin, June 16, 1983.
- (55) A boundary element method for fundamental problems in elasticity and fluid mechanics, The 8 Tagung über Probleme und Methoden der Mathematischen Physik, Technische Hochschule Karl–Marx–Stadt, Karl–Marx–Stadt, DDR, June 20–24, 1983.
- (56) On the asymptotic solution of the Navier–Stokes equations for small Reynolds numbers, Fachbereich Mathematik, Universität Karlsruhe, June 28, 1983.
- (57) Solution of boundary value problems by boundary integral equations of the first kind, Fachbereich Mathematik, Universität Essen, June 29, 1983.
- (58) On the exterior boundary value problem for two–dimensional Navier–Stokes equations, Institut für Angewandte Mathematik, Der Universität Erlangen–Nürnberg, June 30, 1983.
- (59) Singular perturbations for the two–dimensional slow viscous flow problem, Die Hochschullehrer der Mechanik, Technische Hochschule Darmstadt, July 6, 1983.
- (60) An integral equation approach to a class of boundary value problems in mechanics, Mathematisches Institut, der Universität zu Köln, July 15, 1983.
- (61) Finite element methods for boundary integral equations arising in elasticity and fluid mechanics, 20th Annual Meeting of Society of Engineering Science, Newark, Delaware, August 22–24, 1983.
- (62) An integral equation formulation for a boundary–value problem of elasticity in the domain exterior to an arc, Oberwolfach Conference on Singularities and Constructive Methods for their Treatment, Oberwolfach, Germany, November 20–26, 1983.
- (63) A boundary element method for fundamental problems in elasticity and fluid mechanics, Numerical Analysis Seminar, University of Maryland, College Park, Maryland, February 16, 1984.

- (64) An optimal design problem in ship hydrodynamics, European Boundary Element Seminar, Darmstadt, Germany, November 1–3, 1984.
- (65) A singular perturbation problem on a microcomputer. ARO Workshop on “Microcomputers in Large Scale Scientific Computation,” University of Delaware, Newark, Delaware, May 20–22, 1985.
- (66) A modified Galerkin scheme for elliptic equations with natural boundary conditions, special session on “Numerical Methods for Partial Differential Equations and Applications,” 11th IMACS World Congress, Oslo, Norway, August 5–9, 1985.
- (67) A boundary integral method for fundamental problems in elasticity and fluid mechanics, Fachbereich Mathematik, Freie Universität Berlin, Germany, January 23, 1986.
- (68) Boundary element methods for problems in mechanics, Department of Civil and Environmental Engineering, Vanderbilt University, Nashville, Tennessee, June 9, 1986.
- (69) Boundary element methods for a class of exterior singular perturbation problems, the 4th International Conference on Boundary and Interior Layers: Computational and Asymptotic Methods, Academy of Sciences of the USSR, Novosibirsk, USSR, July 7–11, 1986.
- (70) The coupling of BEM and FEM for exterior boundary value problems, the International Conference on Boundary Element Methods in Engineering, Tsinghua University, Beijing, China, October 14–17, 1986.
- (71) Some applications of boundary integral equations of the first kind, Department of Mathematics, Peking University, Beijing, China, October, 16, 1986.
- (72) Boundary element methods for exterior problems in elasticity and fluid mechanics, The 6th Conference on The Mathematics of Finite Elements and Applications, MAFELAP 1987, Brunel University, Uxbridge, U.K., April 28–May 1, 1987.
- (73) On the stability of integral equations of the first kind, Karl–Weierstrass–Institut für Mathematik, Berlin, Akademie der Wissenschaften der DDR, August 24–29, 1987.
- (74) On the stability of boundary element methods for integral equations of the first kind, The 9th International Conference on Boundary Element Methods in Engineering, Universität Stuttgart, Stuttgart, West Germany, September 1–4, 1987.
- (75) Mathematical foundations for boundary element methods, (a series of four lectures), Acoustics Division, Code 5130, Naval Research Laboratory, Washington, D.C., September 24, October 1, 8 and 18, 1987.

- (76) On a boundary integral equation for the two-dimensional floating body problem, SIAM Minisymposium on Ship Wave and Floating Body Problems, Denver, Colorado, October 12–15, 1987.
- (77) On boundary integral equations of the first kind, China–U.S. Seminar on Boundary Integral and Finite Element Methods in Physics and Engineering, Xi'an Jiaotong University, China, December 27, 1987 – January 1, 1988.
- (78) (a) On variational formulations of boundary value problems for fluid–solid interactions; (b) Exterior boundary value problems in elastodynamics, International Union of Theoretical and Applied Mechanics(IUTAM) Symposium on Elastic Wave Propagation, Galway, Ireland, March 20–25, 1988.
- (79) Boundary element methods for a class of exterior boundary–value problems in acoustic, elastodynamics and fluid dynamics, Computational Mechanics '88 : Theory and Applications, Atlanta, GA., April 10–14, 1988.
- (80) The boundary element methods for the Navier–Stokes equations with small Reynolds numbers, NSF–CBMS Regional Conference on Mathematical Foundations of Boundary Element Method, University of Kentucky, Lexington, May 9–13, 1988.
- (81) The coupling of FEM and BEM– a brief review, The 10 th International Conference on Boundary Element Methods in Engineering, Southampton University, Southampton, England, September 6–9, 1988.
- (82) The coupling of boundary and finite element methods, Colloquium, Theoretical and Applied Mechanics, Cornell University, Ithaca, New York, November 16, 1988.
- (83) The boundary element method for a contact problem, Oberwolfach Conference on Praktische Behandlung von Integralgleichungen, Randelementmethoden und singulären Gleichungen, Mathematisches Forschungsinstitut Oberwolfach, West Germany, December 4–10, 1988.
- (84) The coupling of boundary element and finite element methods, a plenary lecture, GAMM–TAGUNG 1989, Karlsruhe, Germany, March 28–31, 1989.
- (85) The mathematical foundations of the boundary element methods with applications to fluid dynamics, (a series of six lectures), Dipartimento di Meccanica e Aeronautica, Università Degli Studi Di Roma, “La Sapienza”, Rome, Italy, June 13–July 7, 1989.
- (86) On the coupling of boundary element and finite element methods, Dipartimento di Matematica, Istituto “Guido Castelnuovo”, Università Degli Studi Di Roma, “La Sapienza”, Rome, Italy, July 5, 1989.

- (87) On the coupling of boundary element and finite element methods for a class of exterior singular perturbation problems, SIAM minisymposium on “Singular Perturbation Theory”, San Diego, CA., July 17–21, 1989. 1989.
- (88) On variational formulations of boundary value problems for fluid-structure interactions, *Centenial Colloquium Series*, College of Engineering, Georgia Institute of Technology, Atlanta, Georgia, February 1, 1990.
- (89) On the boundary element method for the contact and Signorini problems, Institut für Zuverlässig-keit und Schadenskunde, Universität Karlsruhe, Karlsruhe, Germany, June 12, 1990.
- (90) Some recent developments on the coupling of finite element and boundary element methods, International Conference on Numerical Methods in Applied Science and Industry, Torino, Italy, June 18–21, 1990.
- (91) On the quasi-symmetric formulation of boundary value problems in elasticity – a coupling procedure without hypersingular integral operator, DFG Forschergrupe, Im Rahmen des Teilprojekts 6: Integralgleichungen und ihre Näherungsverfahren bei Riss-und Kontaktproblemen der Elastomechanik, Technische Hochschule Darmstadt, Germany, July 10, 1990.
- (92) A quasi-symmetric coupling procedure with application to elasticity, Institut für Angewandte Mathematik, Universität Hannover, Germany, July 12, 1990.
- (93) Some recent developments on the coupling of boundary element and finite element methods, Karl-Weierstrass-Institut für Mathematik der Akademie der Wissenschaften der DDR, July 26, 1990.
- (94) Variational formulations of boundary value problems in fluid/structure interaction, Mathematisches Institut A, Im Rahmen des DFG-Schwerpunktes “Randelementmethoden,” Universität Stuttgart, Germany, July 19, 1990.
- (95) Application of boundary element methods to problems of the Signorini type in elasticity, University of Oulu, Oulu, Finland, August 21, 1990.
- (96) A generalization of the Arnold-Wendland lemma to collocation methods for boundary integral equations in \mathbb{R}^3 , DFG Programm des 2. Schwerpunkt-Kolloquiums “Randelementmethoden”, Universität Stuttgart, Germany, September 1, 1990.
- (97) Solution of boundary value problems by integral equations of the first kind – an update, Symposium of International Association for Boundary Element Methods, Università de Roma “La Sapienza,” Rome, Italy, October 15, 1990.

- (98) Fundamental problems in mechanics by boundary integral equations of the first kind, Department of Mathematics, Texas A&M University, College Station, Texas, December 6, 1990.
- (99) Recent advances in the combined method of boundary and finite elements, ICIAM 91 Mini-symposium on Boundary Element Methods, Washington, D.C., July 8–12, 1991.
- (100) Domain decomposition via boundary element methods, Special Session on Coupling of Finite Element and Integral Equation Methods in Mechanics, First U.S. National Congress on Computational Mechanics, Chicago, Ill., July 21–24, 1991.
- (101) Application of boundary element methods to problems of the Signorini type in elasticity, Special Session on Boundary Integral and Boundary Element Methods, First U.S. National Congress on Computational Mechanics, Chicago, Ill., July 21–24, 1991.
- (102) Domain decomposition via boundary element methods, The Summer Conference on Domain Decomposition, Zentrum für Praktische Mathematik, Lambrecht, Germany, September 2–6, 1991.
- (103) Some recent developments on the coupling of boundary and finite element methods, Colloquium, Department of Mathematics, University of Maryland, Baltimore County, October 25, 1991.
- (104) The coupling of the boundary element and finite element methods—a survey, (a series of four lectures), Laboratory of Applied Mathematical Physics, The Technical University of Denmark, Lyngby, Denmark, January 28–31, 1992.
- (105) Domain decomposition via boundary element methods, Numerical Analysis Seminar, Department of Mathematics, Institute for Physical Science and Technology and UMIACS, University of Maryland at College Park, Maryland, February 20, 1992.
- (106) Boundary element methods in low frequency acoustics, Keynote lecture, Deutsche Gesellschaft für Luft-und Raumfahrt e.V./American Institute of Aeronautics and Astronautics, DGLR/AIAA 14th Aeroacoustics Conference, Aachen, Federal Republic of Germany, May 11–14, 1992.
- (107) An efficient iterative method for an acoustic equation, DGLR/AIAA 14th Aeroacoustics Conference, Aachen, Federal Republic of Germany, May 11–14, 1992.
- (108) Boundary element methods in acoustics, Institute für Angewandte Analysis und Stochastik, Berlin, FRG, MAY 15, 1992.
- (109) Boundary integral formulations for plate problems, Minisymposium, SIAM 40th Anniversary Meeting, Los Angeles, Ca., July 20–24, 1992.

- (110) On the progeny of Fichera's boundary integral method, International Symposium " Problemi Attuadli Dell'analisi e Della Fisica Matematica" dedicato a Gaetano Fichera nel suo 70° compleanno, Taormina, Italy, October 16, 1992.
- (111) Domain decomposition via boundary element methods, Plenary lecture at " International Congress on Numerical Methods in Engineering and Applied Sciences " , Concepción, Chile, November 16–20, 1992.
- (112) Applications of boundary integral methods to fundamental problems in mechanics, Mathematisches Kolloquium für Analysis, Universität Stuttgart, Stuttgart, FRG, January 18, 1993.
- (113) Applications of boundary integral methods to fundamental problems in non-linear mechanics, Department of Mathematics, Fudan University, Shanghai, China, June 3, 1993.
- (114) On the combined methods of boundary elements and finite elements, Shanghai University, Shanghai, China, June 5, 1993.
- (115) Applications of boundary integral methods to fundamental problems in non-linear mechanics, Department of Mathematics and Institute of mathematics, Peking University, China, June 9, 1993.
- (116) Domain decomposition via boundary element methods, Department of Mathematics, Beijing Normal University, Beijing, China, June 11, 1993.
- (117) Recent developments in the combined methods of boundary elements and finite elements (a series of four lectures), Yan-Tai university, China, June 14–22, 1993.
- (118) Applications of the combined methods of boundary elements and finite elements to fundamental problems in mechanics (a series of five lectures), Graduierten Kolleg, Universität Stuttgart, Stuttgart, Germany, July 8–12, 1993.
- (119) Error analysis in numerical solution of acoustic integral equations, Special Session on Computational Methods for Structure Acoustics, Second US National Congress on Computational Mechanics, Washington, D. C. August 16–18, 1993.
- (120) On the boundary-field equation methods for fluid-structure interactions, 10th Congress on Problems and Methods in Mathematical Physics, Technische Universität Chemnitz-Zwickau, Chemnitz, Germany, September 13–16, 1993.
- (121) Error estimation for structural acoustics, ONR Review meeting, Austin, Texas, January 24–27, 1994.

- (122) Boundary-field equation methods for fluid-structure interaction, Euromech 316: Advanced Techniques in Structural Acoustics, University of Manchester, Manchester, England, April 11–14, 1994.
- (123) Boundary-field equation methods for fluid-structure interaction, Plenary lecture at “Numerical Modelling in Continuum Mechanics”, Prag, Czech Republic, August 22-25, 1994.
- (124) An integral equation method in inverse obstacle scattering of elastic waves, 6 Kolloquium des DFG-Schwerpunkts “Randelementmethoden”, Schmallingenberg, Germany, September 27- October 1, 1994.
- (125) A hybrid coupled finite-boundary element method for boundary-value problems in elasticity, Mathematisches Forschungsinstitut, Oberwolfach, Germany, October 2-8, 1994.
- (126) Nonlinear problems via boundary element methods, International Symposium on Boundary Integral Methods for Nonlinear Problems, IABEM, Certasa di Pontignano, University of Siena, Siena, Italy, May 28-June 3, 1995.
- (127) Applications of boundary element methods to problems in mechanics, Minisymposium on Boundary Element Methods: Mathematical Foundation, The Third International Congress on Industrial and Applied Mathematics, Hamburg, Germany, July 3–7, 1995.
- (128) Nonlocal boundary value problems for fluid-structure interactions, Wave and Memory in Continua: A Meeting in Honor of Richard C. MacCamy, Carnegie- Mellon University, Pittsburgh, August 17–19, 1995.
- (129) Weak solutions of fluid-solid interaction problems, Minisymposium on Structure Acoustics, Second International Conference on Theoretical and Computational Acoustics, Honolulu, Hawaii, August 21–25, 1995.
- (130) On the combined boundary-field equation methods for fluid-structure interaction problems, Minisymposium on Under water Acoustics, Second International Conference on Theoretical and Computational Acoustics, Honolulu, Hawaii, August 21–25, 1995.
- (131) Variational formulation of direct boundary integral equations, The final DFG-Conference of the Priority Research Programme “Boundary Element Methods”, Universität Stuttgart, Stuttgart, Germany, October 2–4, 1995.
- (132) Boundary element methods for nonlinear boundary value problems, International Conference on Analysis, Numeric and Application of Differential and Integral Equations, Universität Stuttgart, Stuttgart, Germany, October 9-11, 1996.

- (133) Boundary element methods for nonlinear boundary value problems, International Conference on Generalized Analytic Functions and Their Applications to Mechanics, Technical University of Graz, Graz, Austria, January 7-10, 1997.
- (134) Fundamental problems in mechanics by boundary integral methods, AG 6, FB Mathematik, TU Darmstadt, Darmstadt, Germany, May 14, 1997.
- (135) On the Newton-imbedding methods for some nonlinear problems, Weierstrass Institut für Angewandte Analysis und Stochastik, Berlin, Germany, May 22, 1997.
- (136) Weak solutions for the fluid-solid interaction problems, Mathematischen Seminar, Institut für Mathematik I, Universität Berlin, Germany, May 26, 1997.
- (137) The combined methods of boundary element and finite element methods in scattering problems, Congress ISAAC'97, International Society for Analysis, Applications and Computation, University of Delaware, Newark, Delaware, June 3-7, 1997.
- (138) Variational methods for boundary integral equations, Mathematischen Kolloquium, Mathematisches Institut A, Universität Stuttgart, Germany, June 16, 1997.
- (139) A boundary-domain integral method for some nonlinear boundary value problems, Seminar des Sonderforschungsbereichs (SFB 393), TU Chemnitz-Zwickau, Germany, July 11, 1997.
- (140) Variational methods for boundary integral equations and their applications to the fluid-solid interaction problem, Workshop der AG 12, Diffraction Theory, FB Mathematik, TU Darmstadt, Germany, July 17, 1997.
- (141) Error analysis for the Galerkin boundary element method, Plenary lecture, IMA Conference on Boundary Integral Methods: Theory and Applications, University of Salford, Manchester, UK, September 15-18, 1997.
- (142) Variational methods for boundary integral equations: Theory and applications (six lectures) International Summer School, Departamento de Ingenieria Matematica, Universidad de Concepcion, Concepcion, Chile, January 19-30, 1998.
- (143) Numerical stability of the Galerkin method for boundary integral equations in scattering, Mathematisches Institut A, Universität Stuttgart, Stuttgart, Germany, June 9, 1998.

- (144) Variational methods for boundary integral equations and their applications to the fluid-solid interaction problem, Weierstrass-Institut für Angewandte Analysis und Stochastik, Berlin, Germany, August 6, 1998.
- (145) Mathematical foundations for the boundary-field methods in acoustic and electromagnetic scattering, Plenary lecture, PDE Prague 1998, Partial Differential Equations: Theory and Numerical Solution, Praha, Czech Republic, August 10-16, 1998.
- (146) Mathematical foundations for the boundary-field methods in acoustic and electromagnetic scattering, Weierstrass-Institut für Angewandte Analysis und Stochastik, Berlin, Germany, August 28, 1998.
- (147) Hybrid methods for boundary value problems via boundary energy, International Conference on Functional Analysis, Partial Differential Equations and Application in honor of V. G. Mazya, Universität Rostock, Rostock, Germany, August 31 - September 4, 1998.
- (148) Variational methods for boundary integral equations: Theory and Application, 2nd International Symposium Problemi Attuali Dell'Analisi E Della Fisica Matematica dedicated to the memory of Gaetano Fichera, Taormina, Italy, October 15 - 17, 1998.
- (149) A domain integral equation method for the reconstruction of electromagnetic imaging, 11th Conference on Problems and Methods in Mathematical Physics, Chemnitz, Germany, March 25 - 28, 1999.
- (150) On the 2-D inverse scattering problems in electromagnetics, Weierstrass-Institut für Angewandte Analysis und Stochastik, Berlin, Germany, March 29, 1999.
- (151) Hybrid methods for boundary value problems via boundary energy, Keynote address, 13th International Conference on Boundary Element Technology (BETECH 99), Las Vegas, Nevada, June 8 - 10, 1999.
- (152) Boundary integral equation methods in 3D electromagnetic scattering, URSI Special Session, 1999 IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting, Orlando, Florida, July 11 - 16, 1999.
- (153) Mathematical foundations for the boundary-field methods in acoustic and electromagnetic scattering, Electromagnetic Laboratory, ECE Department, University of Illinois, Urbana, IL, October 12, 1999.
- (154) Variational methods for boundary integral equations: Theory and applications, a series of eight 90 minute lectures, International Workshop on Boundary Integral Equations and Wavelets, Morningside Center of Mathematics, Chinese Academy of Sciences, Beijing, China, June 15–July 15, 2000

- (155) On the two-dimensional inverse scattering problems in electromagnetics, International Workshop on Operator Theory and Applications (IWOTA)- PORTUGAL 2000, Faro, Portugal, September 12–15, 2000.
- (156) On the two-dimensional inverse scattering problems in electromagnetics, Math Colloquium, West Virginia University, Morgantown, WV, November 2, 2000.
- (157) Wavelet analysis: an overview, Mathematisches Institut A, Universität, Lehrstuhl 6, Angewandte Mathematik, Stuttgart, Germany, January 9, 2001.
- (158) Wavelet analysis: an overview, Mathematical Sciences Colloquium, Department of Mathematical Sciences, University of Delaware, April 6, 2001.
- (159) Wavelet analysis and applications, Colloquium, Department of Mathematics, North Dakota State University, April 27, 2001.
- (160) Inverse scattering problems in Electromagnetics, Oberseminar "Analysis und numerische Methoden für partielle Differentialgleichungen der Strömungs- und Festkörpermechanik", Mathematisches Institut A, Universität, Lehrstuhl 6, Angewandte Mathematik, Stuttgart, Germany, July 19, 2001.
- (161) Boundary integral equations: 30 years of collaboration, Special Workshop on Applied Mathematics, in honor of Prof. Dr.-Ing. Dr. h. Wolfgang L. Wendland on the occasion of his 65th birthday, Fakultät Mathematik der Universität Stuttgart, Germany, October 12, 2001.
- (162) On boundary value problems exterior to a thin domain, Workshop on Modern Aspects of Boundary Element Method, Mathematisches Institut A, Universität, Lehrstuhl 6, Angewandte Mathematik, Stuttgart, Germany, October 16, 2001.
- (163) Boundary integral equations: a 30-year collaboration, Department of Mathematical Sciences, University of Delaware, February, 21, 2002.
- (164) Wavelet analysis: an overview, Colloquium, Department of Mathematics and Statistics, McGill University, Canada, April 15, 2002.
- (165) Wavelet analysis: an overview, Weierstrass-Institut für Angewandte Analysis und Stochastik Berlin (WIAS), Germany, June 14, 2002.
- (166) Boundary integral equations: a 30-year collaboration, Weierstrass-Institut für Angewandte Analysis und Stochastik Berlin (WIAS), Germany, June 25, 2002.
- (167) Variational methods for the fluid-solid interaction problems, Mathematisches Institut A, Universität, Lehrstuhl 6, Angewandte Mathematik, Stuttgart, Germany, July 4, 2002.

- (168) Variational methods for the fluid-solid interaction problems, keynote lecture at the minisymposium "Computational Methods for Multifield Problem" organized by U. Langer and W. Wendland, the Fifth World Congress on Computational Mechanics (WCCM V), Vienna, Austria, July 7-12, 2002.
- (169) On the two-dimensional inverse scattering problems in electromagnetics, Johannes Kepler Universität Linz, Institut für Numerische Mathematik, Linz, Austria, July 11, 2002.
- (170) A wavelet method for a first kind boundary integral equation, Oberwolfach conference on New Trends in Boundary Elements, Mathematisches Forschungsinstitut Oberwolfach, Germany, December 1-6, 2002.
- (171) Boundary element methods: theory and application, the Second International Symposium on Computing Science, School of MCS, Sun Yat-sen University, Guangzhou, China, December 20-23, 2002.
- (172) Variational methods for the fluid-solid Interaction problems, Department of Mathematics, Jiao-Tong University, Shanghai, China, December 26, 2002.
- (173) On the two-dimensional inverse scattering problems in electromagnetics, Chinese Academy of Sciences, Beijing, China, December 30, 2002.
- (174) On the Local and Nonlocal Absorbing Conditions for the Fluid-Structural Interaction Problems, in Mini-symposium on *Truncation Techniques for Exterior Scattering Problems*, ICIAM 2003, Sydney, August, July 7-11, 2003.
- (175) On the fluid-structure interaction problems, *Kolloquium über Angewandte Mathematik*, Institut für Numerische und Angewandte Mathematik, Georg-August-Universität Göttingen, December 2, 2003.
- (176) Boundary integral formulations for Plate problems – revisited, Workshop on Analysis und Numerische Methoden, für Partielle Differentialgleichungen, Waldhotel Zollernblick, Germany, December 15-17, 2003
- (177) Boundary element methods—past, present and the future, Plenary lecture, *First Chilean Workshop on Numerical Analysis of Partial Differential Equations*, Universidad de Concepción, Chile, January 13-16, 2004.
- (178) On the micro-local discretization of the BEM for the transmission problems in acoustic scattering, Keynote lecture, Sixth World Congress on Computational mechanics (WCCMVI), Beijing, China, September 5-10, 2004.
- (179) Boundary element methods – an overview, Numerical Analysis/Scientific Computing Oberseminar, Free University of Berlin, Institut für Mathematik II, January 28, 2005.

- (180) Boundary integral equations recast as pseudodifferential equations, Special Session on Integral and operator Equations, 1005th AMS Meeting, University of Delaware, April 2-3, 2005.
- (181) On an inverse scattering problem for periodic structures, *2005 CRI Summer Conference on Inverse Scattering*, The Charlotte Research Institute and the Center for Optoelectronics and Optical Communications, The University of North Carolina at Charlotte, May 30-June 3, 2005.
- (182) A characterization of the Calderón projector for the biharmonic equation, Plenary Talks, *5th ISAAC Congress*, University of Catania, Italy, July 25-30, 2005.
- (183) Stokes paradox and its consequences, *Inaugural lecture of Carl Rees Professorship*, University of Delaware, November 29, 2005.
- (184) On an inverse scattering problem for periodic structures, The BIRS Workshop on *Advanced in Computational Scattering*, Banff International Research Station for Mathematical Innovation and Discovery (BIRS), Alberta, Canada, February 18-23, 2006.
- (185) On the local and nonlocal absorbing conditions for the fluid structural interaction problems, *Mini-symposium on BEMs* at The 10th Conference on The Mathematics of Finite Elements and Applications, MAFELAP 2006, Brunel University, U.K. , June 13-15, 2006.
- (186) Boundary integral equations recast as pseudodifferential equations, 3rd International Symposium on *Problemi Attuali Dell, Analisi E Della Fisica Matematica*, Dedicated to the memory of Gaetano Fichera, Taormina, June 29-July 1, 2006.
- (187) On a fluid-structure interaction problem in scattering, Weierstrass-Institute für Angewandte Analysis und Stochastik (WIAS), Berlin, July 18, 2006.
- (188) Inverse scattering problems for periodic structures, *Inverse Homogenization and related topics in Analysis Conference*, Department of Mathematics, University of Central Florida, Orlando, Fl. January 13-15, 2007.
- (189) Inverse scattering problems for periodic structures, *Inverse Homogenization and related topics in Analysis Conference*, Department of Mathematics, University of Central Florida, Orlando, Fl. January 13-15, 2007.
- (190) On the direct and inverse problems for the fluid/structure interaction, *Conference BETA 2007*, Institut für Angewandte mathematik, Leibnitz Universität Hannover, Hannover, Germany, May 22-25, 2007.

- (191) On the direct and inverse problems in fluid-structure interaction, *ICIAM Mini-symposium on Inverse problems in electromagnetic scattering*, Zurich, Switzerland, July 20, 2007
- (192) Scattering problems in fluid-structure interaction, *Applied Mathematics Summer Workshop*, Delaware State University, Dover, Delaware, August 24-26, 2007
- (193) Boundary Element Method for the Last 30 Years, *Department of Mathematics*, McGill University, Montréal, Canada, October 22, 2007
- (194) Direct and inverse Problems in fluid-structure interaction, *Department of Civil Department*, National Taiwan University, Taipei, Taiwan, November 8, 2007.
- (195) Boundary element methods for the Last 30 years, *Zhou Pei-Yuan Center for Applied Mathematics*, Tsinghua University, Beijing, China, November 20, 2007.
- (196) Some recent developments in scattering problems in fluid-structure interaction, *Institute of Computational Mathematics and Scientific Engineering Computing*, Academy of Mathematics and System Science, Beijing, China, November 22, 2007
- (197) Boundary element methods for the last 30 years, *Department of Mathematics*, Shanghai Jiao Tong University, Shanghai, China, November 28, 2007
- (198) Boundary element methods for the last 30 years, *Numerical Analysis Seminar*, Department of Mathematics, University of Maryland, College Park, Maryland, December 4, 2007
- (199) Boundary integral equations recast as pseudo-differential equations, *Oberwolfach Conference on Analysis of Boundary Element methods*, Mathematisches Forschungsinstitut Oberwolfach, Germany, April 13–19, 2008.
- (200) Boundary element methods – An Overview, *The 6th International Conference on Differential Equations and Dynamic Systems*, Morgean State University, Baltimore, Maryland, May 23, 2008.
- (201) Determination of cancellous bone density using low frequency acoustic measuments, *The 6th International Conference on Differential Equations and DYnamic Systems*, Morgean State University, Baltimore, Maryland, May 23, 2008.
- (202) Boundary integral equation method for an initial-boundary value problem in viscous compressible flow, *Weierstrass-Institute für Angewandte Analysis und Stochastik (WIAS)*, Berlin, July 15, 2008.

- (203) On an inverse problem in fluid-structure interaction, International Workshop on *Phase Transitions and Optimal Control* in honor Jürgen Sprekels, WIAS, Berlin, October 23-25, 2008.
- (204) Boundary integral equation methods for an initial-boundary value problem in viscous compressible flow, Minisymposium on *Boundary Elements: theory and applications, dedicated to George Hsiao on the occasion of his 75th birthday*, organized by Norbert Heuer and Antoine Seller at MAFELAP 2009, Brunel Univeristy, June 9–12, 2009.
- (205) An interaction problem for the elastic body in electromagnetic field, *Festkolloquium aus Anlass des 60. Geburtstages von Dr. Johannes Elschner*, WIAS, Berlin, August 31, 2009.
- (206) Some recent developments of direct and inverse problems in fluid-structure interaction, Plenary Talk, *International Workshop on Inverse problems*, Fudan University and East China University of Science and Technology, China, June 3-7, 2010.
- (207) Boundary element methods for the last 40 years, Colloquium Talk, Department of mathematics, Southeast University, Nanjing, China, June 10, 2010.
- (208) Scattering problems in fluid-structure interaction, IWOTA 2010 Special Session on *Operator Theoretical Methods in mathematical Physics, on the Traces of Erhard Meister*, organized by F.-O. Speck and W.L. Wendland, Technische Universität Berlin, July 13, 2010
- (209) Boundary integral equations recast as pseudodifferential equations, *STOP 2011 Selected Topics of Operator Theory, International Summer School and Workshop* instituto Superior Tecnico- Universidade Tecnica de Lisbon, Lisbon, Portugal, June 24-29 , 2011.
- (210) Some recent developments of scattering problems in fluid-solid iteration, Plenary lecture, *IDOTA2011: Integral and Differential Operators and Their Applications*, University of Aveiro, Aveiro, Portugal, June 30- July 2, 2011.
- (211) Applications of integral equation methods to a class of fundamental problems in mechanics and mathematical physics, Plenary lecture, International Conference on *Continuum Mechanics and Related Problems of Analysis*, Tbilisi, Georgia, September 14, 2011.
- (212) On the dual-mixed formulation for an exterior Stokes problem, International Sim Tech Symposium *Partial Differential Equations: Theory, Applications, Simulations* in honor of Wolfgang Wendland on the occasion of his 75th birthday, University of Stuttgart, Stuttgart, Germany, October 6, 2011.

- (213) Applications of integral equation methods to a class of fundamental problems in mechanics and mathematical physics, Department of Mathematics, Simon Fraser University, Burnaby, B.C. Canada, March 16, 2012.
- (214) An Initial-boundary value problem of the Stokes equations for modeling the blood flow, *Conference on Applied Analysis and Mathematical Biology* in honor Robert Gilbert on the occasion of his 80th birthday, University of Delaware, Newark, DE. August 8-9, 2012.
- (215) Mathematical foundations of numerical treatments for problems in domains extended to infinity; a series of six lectures, Chongqing University, China, May 21, 24, 25, 2013.
- (216) A time dependent boundary-field equation approach to fluid-structure interaction, *JSA 2013* in honor Martin Costabel on the occasion of his 65th birthday, Unversite De Rennes 1, Rennes, France, August 30, 2013.
- (217) Time dependent fluid-structure interactions, Weierstrass-Institute für Angewandte Analysis und Stochastik (WIAS), Berlin, September 3, 2013.
- (218) On the time dependent fluid-structure interactions, Max Planck Institute for MIS, Leipzig, Germany, September 5, 2013.
- (219) An Overview of Boundary Integral Methods for the Last 40 Years, Special Seminar in Applied Mathematics, Caltech, Pasadena, CA, February 26, 2014.
- (220) An introduction to time domain boundary integral methods, a series of 12 ninety-minute lectures, TU Graz, Graz, Austria, May 9-June 9, 2014.
- (221) Application of time domain boundary integral methods to the Stokes equations, Institut für Angewandte Analysis und Numeerische Simulation, Universität Stuttgart, Stuttgart, Germany, June 12, 2014.
- (222) On time domain boundary integral methods for the Stokes equations, The 2nd Chongqing Workshop on Computational and Applied Mathematics, *in honor of Prof. George C. Hsiao, Prof. Jean- Claude Né dé lec and Prof. Wolfgang L. Wendland*, Chongqing University, Chongqing, China, August 19, 2015.
- (223) On the Time-Dependent Fluid-Structure Interactions, Department of Mathematical Sciences, Tsinghua University, Beijing, China, August 21, 2015
- (224) A Time-Dependent Boundary-field Equation Approach to Fluid - Thermoelastic Solid Interaction, Special Session–ss99 at the 11th AIMS Conference, Orlando, FL, July 4, 2016