

PUBLICATIONS AND INVITED TALKS:

1. *Infinite -Dimensional Hamiltonian Systems*. Encyclopedia of Mathematical Physics, J-P. Francoise , G.L.Naber, T.S. Tsung (eds.), Elsevier, Academic Press (2006) 37-44.
2. *On the Supersymmetry Group of the Classical Bose-Fermi Oscillator* (with T. Glimm), Journal of Geometry and Symmetry in Physics, **2** (2005) 1-13.
3. *Infinite Dimensional Lie Groups with Applications to Mathematical Physics* , Journal of Geometry and Symmetry in Physics, **1** (2004) 1-67.
4. *\mathfrak{g} -Symplectic Orbits and a Solution of the BRST Consistency Condition*, Geometry, Integrability and Quantization, **4**, I.M. Mladenov, G.L.Naber (eds.) (2003), 284 - 295.
5. *Fourier Integral Operators with Applications to Fluid Dynamics and Quantization*, Proc. XX. Intl. Conf. on Geometric Methods in Physics , Bialowieza, Poland, (to appear 2003), 1-25.
6. *Relativity Without the First Postulate* (with Q. Sun), Proc. Inst. Math. of Natl. Acad. Sci. of Ukraine, **43** (2002), 577-588.
7. *The Lie Groups of Invertible Fourier Integral on Open Manifolds*, Infinite Dimensional Lie Groups in Geometry and Representation Theory, A. Banyaga et al. (eds.) , World Scientific Publ. (2002), 44-64.
8. *The Lie Group of Invertible Fourier Integral Operators on Open Manifolds*, (with J. Eichhorn), Communications in Analysis and Geometry, **9/5** (2001), 983-1040.
9. *Bäcklund Transformations Induced by Symmetries. Application: Discrete $mKdV$* , CRM Montreal Lecture Notes, **29** (2001), 405-410.
10. *A Finite Dimensional Completely Integrable System Associated with the WKI- and Heisenberg Hierarchies*, (with T. Xu, Z. Li), Journal of Nonlinear Mathematical Physics **8** (2001), 261-265.

11. *Symplectic Discretization for Maxwell's Equations*, (with X. Lu), J. of Math. and Computing, **25** (2001), 1-21.
12. *A Symplectic Integration of Sine-Gordon Type Systems*, (with X. Lu), *Modelling '98* (Prague), Math. Compute Simulation **50** (1999), 143-160.
13. *Symplectic Algorithm for Maxwell's Equations*, (with X. Lu) , Proc. New Applications of Multisymplectic Field Theory, Salamanca (1999), 10-25.
14. *Symplectic Integration of Sine-Gordon Type Systems*, (with X. Lu), Math. Comput. Simulation **50** (1999), 255-263.
15. *A Numerical Study of the Riemann Solutions for Gasdynamic Combustion*, (with X. Lu), Appl. Math. Comput. **91** (1998), 143-160.
16. *A Symplectic Algorithm for Wave Equations*, (with X. Lu), Math. Comput. Simulations **43** (1997), 29-38.
17. *Form Preserving Diffeomorphisms on Open Manifolds*, (with J. Eichhorn), Annals of Global Analysis and Geometry, **14** (1996), 147-186.
18. *The Geometry of $Diff_{\omega, \sigma}^{\infty, r}(M^n, g)$ and Applications to Fluid Dynamics*, (with J. Eichhorn), (preprint 1997).
19. *Infinite Dimensional Hamiltonian Systems with Symmetries*, Proc. of the Int. Conference on Differential Geometry, Hamiltonian Systems and Operator Theory, S. Goldberg (Ed.), UWI University Press, 1995, 213-239.
20. *A Numerical Study of the Property of the Solution for Gasdynamic Combustion*, (with X. Lu), J. Computational Physics (1995) , 20-35.
21. *On Bäcklund Transformations for the Korteweg-de Vries Equation*, (with X. Yang, H. Wu) (preprint 1995), 1-31.
22. *Bäcklund Transformations Induced by Symmetries*, (with X. Yang), Physics Lett. A, **195**, (1994), 63-74.

23. *Symplectic Algorithms for Wave Equations*, (with X. Lu), Proc. 14th IMACS World Congress on Computational and Applied Mathematics, W.F. Ames (Ed.), (1994), vol. #3, 1363-1366.
24. *A Solution of the BRST Consistency Condition and g-Symplectic Orbits*, The Erwin Schrödinger International Institute for Mathematical Physics Preprint # 41 (1993).
25. *Local Cohomology in Gauge Theories BRST Transformations and Anomalies*, Differential Geometry and its Applications, 4 (1994), 107-116.
26. *A Numerical Simulation of the Riemann Problem for the Equation of Reacting Gas Flow*, (with X. Lu), Proc. 9th International Conference on Mathematical and Computer Modelling, 1993, Berkeley.
27. *A Few BRST Bicomplexes*, Differential Geometric Methods in Theoretical Physics, C.N. Yang et al. (Eds.), World Scientific, Singapore, (1993), 375-379.
28. *Strings, Knots and Quantum Groups (A Survey of Three 1990 Fields Medalists)*, SIAM, 34 (1992), 406-425.
29. *Diffeomorphism Groups, Pseudodifferential Operators and r-Matrices*, Proc. Global Differential Geometry and Global Analysis, Berlin 1990, D. Ferrus et al. (Eds.), Springer-Verlag, Berlin, Lecture Notes in Math. 1481 (1991), 258 - 263. (Refereed).
30. *Relativity without the First Postulate*, (with Q. Sun), Emory Technical Report # 108 (1990)
31. *The Geometry of BRS-Transformations*, Illinois J. Math., 34 (1990), 87 - 97.
32. *BRST Cohomology and Anomalies*, in Geometrical and Algebraic Aspects of Nonlinear Field Theory, 159-172, S. De Filippo et al (eds.), North - Holland, 1989. (Refereed).
33. *Limiting the Complexity of Limit Sets in Self-Regulating Systems*, (with G. Butler and P. Waltman), J. Math. Anal. Appl. 147 (1990), 63 - 68.

34. *On Infinite Dimensional Variational Principles with Constraints*, (with A. Simoni), J. Math. Phys. **30** (1989), 1171 - 1176.
35. *A Fixed Point Theorem in Frechet Spaces*, (with J. Gatica), Emory Technical Report # 73 (1988).
36. *The Quadratic-Hamiltonian Theorem in Infinite Dimensions*, J. Math. Phys., **29** (1988), 2010-2017.
37. *Diffeomorphism Groups and Physical Systems*, Lecture Notes in Phys., H. Doebner (ed.), Springer-Verlag, 1989.
38. *Bi-Hamiltonian Dynamical Systems and the Quadratic-Hamiltonian Theorem*, (with G. Marmo, E.J. Saletan, A. Simoni), Il Nuovo Cimento **100** (1987), 297-317.
39. *A Lie Group Structure for Fourier Integral Operators* (with M. Adams and T. Ratiu), Math. Ann. **276** (1986), 19-41.
40. *A Lie Group Structure for Pseudodifferential Operators*, (with M. Adams and T. Ratiu). Math. Ann. **273** (1986), 529-551.
41. *The Lie Group Structure of Diffeomorphism Groups and Invertible Fourier Integral Operators with Applications*, (with M. Adams and T. Ratiu), in Infinite Dimensional Lie Groups, 1-69, V. Kac (Ed.), Springer-Verlag, 1985. (Refereed).
42. *The Group of Fourier Integral Operators as Symmetry Group*, (with M. Adams and T. Ratiu), in Group Theoretical Methods in Physics, 246-249, W.W.Zachary (ed.), World Scientific, Singapore, 1984.
43. *A Hamiltonian Approach to Normal Mode Coupling in a Coulomb Plasma*, (with R. Spencer), MSRI preprint 034-84-7, (1984).
44. *Electrostatic Normal Modes in an Unmagnetized Homogeneous Coulomb Plasma. A Hamiltonian Approach*, (with R. Spencer), Phys. Lett. A **101** (1984), 485-490.
45. *The Inverse Function Theorem of Nash and Moser for the Γ -Differentiability*, Abh. Akad. Wiss. Berlin **2N** (1984), 201-206.

46. *Hamiltonian Systems and Symmetry, Coadjoint Orbits and Plasma Physics*, (with J. Marsden, A. Weinstein, T. Ratiu, R. Spencer), *Atti Acad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* **117** (1983), 289-340.
47. *The Differentiable Structure of Three Remarkable Diffeomorphism Groups*, (with T. Ratiu). *Math. Z.* **177** (1981), 81-100.
48. *Manifolds of Mappings*. *Abh. Akad. Wiss. Berlin* **4N** (1979), 167-175.
49. *Topologie der Kompakten Konvergenz auf den Räumen von Vektorbündel Schnitten*. University of Zürich, technical report, 1974. (Diplomarbeit, M.S. Thesis).

BOOKS:

1. *Dictionary of Applied Math. for Engineers and Scientists*, E. Previato ed. CRS Press, London, New York, 2003.
2. *Infinite Dimensional Hamiltonian Systems*, Monographs and Textbooks in Physical Sciences, Bibliopolis, Napoli, 1987.
3. *Die Symplektomorphismen-Gruppe als Fréchet-Lie Gruppe*. Juris Druck + Verlag, Zürich, 1978, (Ph.D Thesis).

PAPERS IN PROGRESS:

1. *A Fixed Point Theorem in Frechet Spaces, with Applications to Functional Differential Equations*, (with J. Gatica), preprint .
2. *Topological Euler Equations and Diffeomorphism Groups*, preprint.
3. *BRST Cohomologies of Open Manifolds*, (with J. Eichhorn), preprint.
4. *BRST Bicomplexes*, partial preprint.
5. *Reconstruction of Hamiltonian systems with symmetries*
6. *Super symmetries in quantum field theory* (with T. Glimm)

BOOKS IN PROGRESS:

1. *Infinite Dimensional Hamiltonian Systems*, Monographs and Textbooks in Physical Sciences, Bibliopolis, Napoli, 1987. Second edition.
2. *Infinite Dimensional Lie Groups with Applications to Mathematical Physics*
3. *Introduction to Linear Algebra* (an undergraduate text, 1. draft).
4. *CALCULUS: A Genetic Approach*

INVITED TALKS:

1. University of Puerto Rico, Mayagüez, Mathematics Colloquium: *SUSY, Supersymmetric Reduction*, Sept. 27, 2007.
2. SIDIM XIX, *The Geometry of Euler's Equations*, University of Puerto Rico, Cayey, Feb. 27 -28, 2004.
3. University of Puerto Rico, San Juan, Mathematics-Physics Colloquium: *Infinite Dimensional Lie Groups With Applications to Mathematical Physics* Feb. 26, 2004
4. 6th Caribbean Conference on Fluid Dynamics: *The Geometry of Euler's Equations*, University of the West Indies, St. Augustine, Trinidad, Jan. 22 - 24, 2004.
5. University of Puerto Rico, Mayagüez, Mathematics-Physics Colloquium: *Infinite Dimensional Lie Groups and Physical Applications*, Aug. 22, 2002.
6. University of Puerto Rico, San Juan, Mathematics-Physics Colloquium: *The Lie Group of Fourier Integral Operators and Applications*, Aug. 15, 2002.
7. 3rd Tropical Workshop on Particle Physics and Cosmology: *The Geometry of Non-Linear Sigma Models*, San Juan, Puerto Rico, Aug. 19 - 23, 2002.

8. 4th Int. Conf. *Geometry, Integrability and Quantization : Infinite Dimensional Lie Groups and Applications in Mathematical Physics* , Varna, Bulgaria, June 5-16, 2002, (plenary speaker, 6 lectures).
9. International Workshop on Infinite dimensional Lie groups: *The Lie Group of Fourier Integral Operators on Open Manifolds*. CMR, University of Montreal, Canada, Nov.1-7, 2001
10. 4th International Conference on Symmetry in Nonlinear Mathematical Physics: *The Lie Group of Fourier Integral Operators on Open Manifolds, with Applications*. Natl. Acad. Sci. Ukraine, Kiev July 9-15, 2001, (plenary speaker).
11. XXth Workshop on *Geometric Methods in Physics: The Lie Group of Fourier Integral Operators on Open Manifolds with Applications* Białowieża, Poland, July 1-7, 2001,(plenary speaker).
12. Rostock University, Rostock, Germany, Mathematics Colloquium: *Super Symmetries* , June 22, 2001.
13. Ernst-Moritz-Arnst University , Greifswald, Germany, Mathematics Colloquium: *BRST and Super Symmetries*, June 21 , 2001.
14. Penn. State University, Mathematics Colloquium: *The Lie Group of Fourier Integral Operators and Applications to Hydrodynamics*, April 5. 2001.
15. Internatl. Conference on Infinite Dimensional Lie Groups in Geometry and Representation Theory. *The Lie Group of Fourier Integral Operators on Open Manifolds*. Howard University, Washington DC. Aug. 17-21, 2000.
16. Clemson University, Clemson SC, Mathematics Colloquium: *Infinite Dimensional Lie Groups in Mathematical Physics*, Oct. 14. 1999
17. Internatl. Conference on New Applications of Multisymplectic Field Theory. *Symplectic Discretization for Maxwell's Equation* ,University of Salamanca, Spain Sept. 20-24, 1999.
18. Internatl. Conference NEEDS'99 on Nonlinear Evolution Equations and Dynamical Systems, *A Finite Dimensional Completely Integrable*

System Associated with the WKI- and Heisenberg Hierarchies. Academy of Crete, Greece, June 20 - 30, 1999.

19. AARMS-CRM Workshop on Bäcklund & Darboux Transformations, *Bäcklund Transformations Induced by Symmetries.* Halifax, Canada, June 4 - 9, 1999.
20. Georgia Institute of Technology : *Diffeomorphism Groups on Open Manifolds with Applications to Fluid Dynamics,* Oct 13, 1998.
21. Academy of Sciences of the Czech Republic, Prague : IMACS Conference on Mathematical Modelling and Computational Methods in Mechanics and Geodynamics, *Symplectic Algorithms for Wave Equations,* July 7-11, 1998.
22. Temple University, Philadelphia, AMS Meeting : *Topological Euler equations and Diffeomorphism Groups,* April 4-5, 1998.
23. Penn State University: *Infinite Dimensional Lie Groups in Mathematical Physics,* March 5-8, 1998.
24. Stefan Banach International Mathematical Center, Warsaw, Poland: *Diffeomorphism Groups on Open Manifolds,* Sept. 7 -13, 1997.
25. Rostock University, Rostock, Germany: *Fourier Integral Operators on Open Manifolds,* July 25, 1997.
26. Ernst-Moritz-Arndt University , Greifswald, Germany: *Pseudodifferential Operators on Open Manifolds,* (4 lectures); *Fourier Integral Operators on Open Manifolds,* (4 lectures); June 15 -31, 1997.
27. Adam Mickiewicz University , Poznań, Poland: *Symmetries in Mathematical Physics,* June 9, 1995.
28. Rostock University, Rostock, Germany: *Symmetries in Mathematical Physics,* June 6, 1995.
29. Ernst-Moritz-Arnst University , Greifswald, Germany: *BRST Symmetries,* (4 lectures); *Anomalies in Gauge Theories,* (4 lectures); *Pseudodifferential- and Fourier Integral Operators,* (4 lectures). June 1 -30 , 1995.

30. ICM 94, International Congress of Mathematicians, Zürich, short communication, *The Geometry of BRST Symmetries* , August 3-11, 1994.
31. XIth International Congress of Mathematical Physics, Paris, short communication, *The Geometry of BRST Symmetries* , July 18-23, 1994.
32. 5th Annual Southeastern Geometry Conference, Athens, GA: *G-Symplectic Orbits*. April 22-23, 1994.
33. University of The West Indies, Jamaica: International Conference on Differential Geometry, Hamiltonian Systems and Operator Theory, *Infinite Dimensional Hamiltonian Systems with Symmetries*, Feb. 7-12, 1994.
34. University of California, Davis: *Local Cohomology and BRST Symmetry*. Oct. 13, 1993.
35. University of California, Berkeley: *G- Symplectic Structures*. Oct. 11, 1993.
36. The Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria. *BRST Symmetries*. July 14, 1993.
37. The Fields Institute for Mathematical Sciences, Waterloo, Canada: *BRST Symmetries and Anomalies*. June 7-9, 1993.
38. 4th Annual Southeastern Geometry Conference, Emory: *Symmetries in Quantum Field Theories*. April 2-3, 1993.
39. Auburn University, Auburn AL. Analysis Conference: *How do you differentiate in Frechet spaces ?*. March 19-20, 1993.
40. Academia Sinica, Beijing and Beijing University, P.R. China: *Infinite Dimensional Lie Groups in Mathematical Physics I & II*. June 10-11, 1992.
41. Nankai Institute of Mathematics, Tianjing, P.R. China, International Conference on Differential Geometry Methods in Theoretical Physics: *BRST: Bicomplexes and Cohomologies*. June 3-9, 1992.
42. Fudan University, Shanghai, P. China: *Infinite Dimensional Lie Group Cohomologies and Applications*, June 1-3, 1992.

43. Georgia Institute of Technology, Atlanta. Georgia Tech - UAB International Conference on Differential Equations and Mathematical Physics: *BRST Cohomologies*, March 22-28, 1992.
44. University of Georgia, Athens. Geometry Colloquium: *BRST-Cohomology in Quantum Field Theory*, April 3, 1992.
45. Seattle WA, AMS-IMS-SIAM Summer Research Conference: *Relativity Without the First Postulate*, July 21-25, 1991.
46. Auburn University, Auburn AL. Analysis Conference: *Superconductors and Monopoles*, June 14-15, 1991.
47. Cullowhee NC, SIAM Meeting: *Ginzburg-Landau Equations*, April 12-13, 1991.
48. Tampa, FL, AMS Meeting :*Local Cohomology in Gauge Theories, BRST Transformations and Anomalies*, 1991.
49. TU Berlin. International Conference on Global Differential Geometry and Global Analysis: *Diffeomorphism Groups, Pseudodifferential Operators and r -Matrices*. June 16-20, 1990.
50. Georgia Institute of Technology, Atlanta. Mathematics Colloquium: *Infinite Dimensional Lie Groups in Mathematical Physics*, Nov.16, 1989.
51. University of California, Santa Cruz. Mathematics Colloquium: *Infinite Dimensional Lie Groups and Applications in Physics*. May 2, 1989.
52. Mathematical Sciences Research Institute, Berkeley CA: *The Geometry of BRST Transformations*. March 3, 1989.
53. University of Naples, Italy: a) τ -*Functions and the KP Hierarchy* , b) *Kac-Moody Lie Algebras and the KP Hierarchy*. June 6. & 9. 1988.
54. Amalfi, Italy. International Conference on Geometric and Algebraic Aspects of Nonlinear Field Theory: *BRST Cohomology and Anomalies*. May 23-28, 1988.

55. Auburn University, Auburn, AL. Fifth Annual Miniconference on Real Analysis: *Fixed Point Theorem in Frechet Spaces and Applications*. April 16, 1988.
56. Auburn University, Auburn, AL. Mathematics Colloquium: *Infinite Dimensional Hamiltonian Systems and Applications*. Feb. 26, 1988.
57. Oberwolfach, Mathematisches Forschungsinstitut, Germany. Conference on Convergence Structures and Applications: *A Fixed Point Theorem in Frechet Spaces and Applications*. Dec. 13-19, 1987.
58. University of Alabama, Birmingham. Conference on Differential Geometry: *Infinite Dimensional Hamiltonian Systems*. Sept. 21-23, 1987.
59. University of Salerno, Italy. *Completely Integrable Systems and the Group of Fourier Integral Operators*. July 15. 1987.
60. University of Naples, Italy. Lecture Series a) *Infinite Dimensional Hamiltonian Systems*; b) *The Geometry of BRS-Transformations in Quantum Field Theory*. June 10.-July 31, 1987.
61. Ferrara, Italy. Summer School on Geometric Methods in Theoretical Physics. Lecture Series *Infinite Dimensional Hamiltonian Systems*. June 1-9 ,1987.
62. University of Georgia, Athens. Mathematics Colloquium: *Quantum Field Theory and Global Analysis*. May 7, 1987.
63. Emory University. Physics Colloquium: *Hamiltonian Structures in Plasma Physics*. Feb. 26, 1987.
64. Georgia Institute of Technology. *Infinite Dimensional Hamiltonian Structures and Applications to Plasma Physics*. Nov. 4, 1986.
65. University of California, Irvine. *The Geometry of Infinite Dimensional Hamiltonian Systems*. March 13, 1986.
66. Oberwolfach, Mathematisches Forschungsinstitut, Germany. Conference on Topics in Pseudo-Differential Operators: *The Lie Group Structure of Pseudo-Differential Operators*. Lecture submitted. Feb. 2-8, 1986.

67. University of British Columbia, Vancouver, Canada. Mathematics Colloquium: *The Geometry of Infinite Dimensional Hamiltonian Systems, and Applications. The Geometry of Fourier Integral Operators.* Jan. 29-31, 1986.
68. University of Pennsylvania, Philadelphia. *Quantum Field Theory and Global Analysis.* Dec. 10, 1985.
69. Brown University, Providence. *The KdV Equation as Hamiltonian System.* Nov. 8, 1985.
70. Rutgers University, New Brunswick. *The KdV Equation and the Group of Fourier Integral Operators.* Nov. 1, 1985. Analysis: *The Lie Group of Fourier Integral Operators and Applications.* Oct.19-20, 1985.
71. Purdue University, West Laffayette. Wabash Miniconference in Modern Analysis: *The Lie Group of Fourier Integral Operators and Applications.* Oct. 19-20, 1985.
72. University of Illinois, Urbana-Champaign: 1) *Quantum Field Theory and Differential Geometry*, 2) *The Lie Group Structure of Fourier Integral Operators, Applications to KdV as Hamiltonian System.* Sept. 24-28, 1985.
73. Arnold Sommerfeld Institute for Mathematical Physics, University Clausthal, Germany. International Seminar on Diffeomorphism Groups and Physical Systems. Lecture Series: *Diffeomorphism Groups and Fourier Integral Operators, with Applications.* July 15-17, 1985.
74. Zürich, Switzerland. University Mathematics Colloquium: *Infinite Dimensional Lie Groups.* July 8, 1985.
75. Heidelberg, Germany. Sonderforschungsbereich Mathematik. Seminar Series and Mathematics Colloquium: *Differential Geometrie and Quantum Field Theory.* June 24-July 6, 1985.
76. Zürich, Switzerland. ETH Forschungsinstitut für Mathematik. *KdV and the Group of Fourier Integral Operators.* May 28. 1985.
77. University of South Alabama, Mobile. 820th AMS meeting. *The Geometry of the KdV Equation.* May 3-4, 1985.

78. Yale University. Third Northeast Conference on Differential Equations. *KdV and the Group of Fourier Integral Operators*. April 26-27, 1985. Mannheim, Germany. Seminar Series and Mathematics Colloquium: *Infinite Dimensional Hamiltonian Systems*. Dec.10-21, 1984
79. University of Maryland, College Park. Thirteenth International Colloquium on Group Theoretical Methods of Physics. *The Group of Fourier Integral Operators as Symmetry Group*. May 21-25, 1984.
80. Mathematical Sciences Research Institute, Berkeley, California. Conferences on Infinite Dimensional Lie Groups. *Infinite Dimensional Lie Groups in the Smooth Category; in Particular the Group of Fourier Integral Operators*. May 10-15, 1984.
81. University of California, Santa Cruz. Mathematics Colloquium: *Infinite Dimensional Poisson Structures and Applications*. May 3, 1984.
82. Berlin, GDR. International Conference: *Convergence Structures and Applications II: The Inverse Function Theorem of Nash-Moser for the Γ -differentiability*. Lecture submitted. May 16-20, 1983.
83. Courant Institute, New York. *Infinite Dimensional Hamiltonian Structures, Coadjoint Orbits and Plasma Physics*. Dec. 9, 1982.
84. Rio de Janeiro, Brazil. IMPA Mathematics Colloquium: *Hamiltonian Structures and Coadjoint Orbits*. Aug. 26, 1982.
85. Sao Paulo, Sao Carlos, Brazil. Federal and State University. Mathematics Colloquiums: *Hamiltonian Systems with Symmetry and Applications to Plasma Physics I & II*. July 28-30, 1982.
86. Porto Alegre, Brazil. Federal University. Visiting Professor, taught course in *Analytical Dynamics and Applications to Plasma Physics*. June-Sept., 1982.
87. Torino, Italy. IUTAM Symposium on modern developments in analytical mechanics: *Hamiltonian Systems with Symmetry, Coadjoint Orbits and Plasma Physics*. June 7-11, 1982.
88. Mannheim, Germany. University, Mathematics Colloquium: *Diffeomorphism Groups, Fourier Integral Operators and the KdV-Equation*. Jan. 3, 1982.

89. Zürich, Switzerland. University, Mathematics Colloquium: *The Geometry of Fourier Integral Operators*. Dec. 21, 1981.
90. Clarkson College, Potsdam, New York. Mathematics Colloquium: *Diffeomorphism Groups in Mathematical Physics*. Nov. 3, 1981.
91. New York. Annual Meeting of the American Physical Society, Division Plasma Physics: *Hamiltonian Structure of the Maxwell-Vlasov Equations*. Oct. 12-16, 1981.
92. Los Alamos Scientific Laboratory, Center for Non-Linear Studies: *Diffeomorphism Groups and Fourier Integral Operators*.
93. Frankfurt/Oder, GDR. International Summer School on Convergence Structures and Applications to Analysis: *Manifolds of Mappings*. May 8-12, 1978.