

Selected Invited Lectures (from over 200 conference, university, and general lectures)

- 6/1989 AMS-SIAM Summer Sem. on the Mathematics of Random Media, Blacksburg, VA
- 11/1989 Conference on Random Partial Differential Equations, Oberwolfach
- 1/1990 Workshop on Random Partial Differential Equations, Trieste
- 1/1991 Homogenization Workshop, MSRI, Berkeley
- 10/1992 Sea Ice Electromagnetics Workshop, CRREL, N.H.
- 4/1993 Invited Address, AMS Meeting, Salt Lake City
- 7/1993 PIERS93 (Progress in Electromagnetics Research Symposium), Cal Tech
- 8/1993 Third International Conference on Electrical Transport and Optical Properties of Inhomogeneous Materials, Guanajuato, Mexico
- 9/1993 Second Workshop on Composite Media and Homogenization Theory, Trieste
- 4/1994 Conf. on Emerging Issues in Math. and Comp. from the Mater. Sci., Pittsburgh
- 10/1994 Prager Medal Symp. on Het. Solids, Soc. Eng. Sci. Ann. Meet., Texas A&M
- 11/1994 Workshop on Waves in Complex and Random Media, IMA, U. of Minn.
- 6/1995 PIERS95, Seattle
- 11/1995 Tutorial for the Workshop on Disordered Media and Percolation, IMA, Minn.
- 3/1996 Workshop on the Antarctic Zone Flux (ANZFLUX) Experiment, Barcelona
- 5/1996 1996 International Geoscience and Remote Sensing Symposium, Lincoln, NE
- 6/1996 Conf. on Homog. and Random Media in Honor of Serguei Kozlov, Marseille
- 7/1996 PIERS96, Innsbruck
- 10/1996 Appl. Math. Workshop for Materials Studies and Industrial Appl., Penn State
- 11/1996 Sea Ice Electromagnetics Workshop, University of Kansas, Lawrence
- 1/1997 PIERS97, Hong Kong
- 3/1997 Gordon Conference on Sea Ice Ecology, Ventura, CA (invited poster)
- 5/1997 First Congress of the Intl. Soc. for Analysis, Appl. and Comp., U. of Delaware
- 7/1997 Plenary Address, 1997 Joint Assemblies of the Intl. Assoc. for the Physical Sciences of the Oceans, and the Intl. Assoc. of Meteorology and Atmospheric Sciences, Melbourne
- 7/1997 Fourth International Conference on Composites Engineering, Hawaii
- 10/1998 American Mathematical Society Meeting, Penn State
- 1/1999 IUTAM Symp. 99/4: Mech. and Electromagnetic Waves in Structured Media, Sydney
- 6/1999 Fifth International Conference on Electrical Transport and Optical Properties of Inhomogeneous Materials, Hong Kong
- 5/2000 Plenary Lecture, Third SIAM Conf. on Math. Aspects of Materials Sci., Philadelphia
- 5/2000 Statistical Mechanics Conf. in Honor of Joel Lebowitz' 70th Birthday, Rutgers Univ.
- 6/2000 International Glaciological Society Symposium on Sea Ice and its Interactions with the Ocean, Atmosphere and Biosphere, Fairbanks, Alaska
- 9/2000 International Conference on Homogenization and Materials Science, Akron
- 9/2000 Distinguished Lecture Series in Mathematical and Physical Sciences, NSF, Wash. D.C.
- 5/2001 Plenary Lecture, Hong Kong Mathematical Society, Hong Kong
- 6/2002 Sixth International Conference on Electrical Transport and Optical Properties of Inhomogeneous Materials, Snowbird, UT
- 1/2003 Random Phenomena in Applied Mathematics, A Conference in Honor of George Papanicolaou's 60th Birthday, Stanford
- 2/2003 Applied Mathematics and Applications of Mathematics, European Mathematical Society (EMS) and the French Mathematical Societies (SMAI - SMF), Nice
- 6/2004 International Workshop on Nonlinear Waves, Hong Kong
- 10/2004 Society for Engineering Science, Prager Medal Symposium, Lincoln, NE
- 12/2005 International Glaciological Society Symposium on Sea Ice, Dunedin, New Zealand
- 7/2006 International Conference on Antarctic Sea Ice Thickness, Hobart, Tasmania
- 7/2006 Seventh International Conference on Electrical Transport and Optical Properties of Inhomogeneous Materials, Sydney
- 3/2007 SIAM Conference on Mathematical and Computational Issues in the Geosciences, Santa Fe
- 11/2007 AMS Congressional Luncheon Briefing, Capitol Hill, Washington D.C.
- 12/2007 Fall Meeting of the American Geophysical Union, San Francisco
- 5/2008 Conf. on Frontiers of Climate Science, Kavli Inst. for Theoretical Physics, Santa Barbara

Selected Colloquia and Seminars: US Army Cold Regions Res. and Eng. Lab., NH ('79,'85,'87); Bell Labs ('84); Ecole Normale Supérieure ('84); Université P. & M. Curie ('84); Stanford ('86,'96,'01); Courant Inst. ('84,'89,'91,'93,'94,'97,'00,'05); Rutgers ('84,'86,'87,'95); Princeton Univ. Depts. of Math ('87,'89), Phys. ('87,'91,'96), Chem. Eng. ('89), Civil Eng. ('91,'96); U. of Calif., Davis ('88,'91); U. of Delaware ('89); U. of Chicago ('89,'90,'00); UCLA ('89); U. of Minn. ('90); UCSD ('91); CalTech ('91,'02); U. of Mich. ('91); Duke University ('87,'01); Virginia Tech ('85,'92); University of Virginia ('91); Ioffe Inst., St. Petersburg ('91); Université de Toulon ('92); Penn State ('92,'00); Université de Provence ('93); RPI ('93,'98); Schlumberger ('94); U. S. Naval Academy ('95); Georgia Tech ('95); Universidade de São Paulo ('95,'97); IMPA ('96); U. of Arizona ('95,'05); Ecole Supérieure de Physique et Chimie Industrielle ('96); U. Paris Nord ('01) Hong Kong U. of Sci. and Tech. ('97,'98,'01); U. of Tasmania Antarctic Cooperative Research Center and Dept. of Math, ('97); Chinese Univ. of Hong Kong ('98), National Space Development Agency of Japan ('98), Tulane Univ. ('02); University of Alaska, Fairbanks ('05); University of Washington ('99); Utah State ('99); U. of Utah Depts. of Math ('91,'93,'01,'03,'08), Physics ('97), Geophysics ('94), Materials Science ('91); U. of Utah College of Science Insider Tour Lecture ('08); NASA/Goddard Space Flight Center ('07); Los Alamos National Laboratory ('07); Icebreaker RSV *Aurora Australis* ('99,'07).

Publications

1. S. F. Ackley, A. J. Gow, K. R. Buck and K. M. Golden*, Sea ice studies in the Weddell Sea aboard USCGC *Polar Sea*, *Antarctic Journal of the United States*, 15, pp. 84–86, 1980.
2. K. M. Golden* and S. F. Ackley, Modeling of anisotropic electromagnetic reflection from sea ice, *Journal of Geophysical Research C (Oceans)*, 86, pp. 8107–8116, 1981.
3. K. Golden and G. Papanicolaou, Bounds for effective parameters of heterogeneous media by analytic continuation, *Communications in Mathematical Physics*, 90, pp. 473–491, 1983.
4. G. W. Milton and K. Golden, Thermal conduction in composites, *Proceedings of the 18th International Thermal Conductivity Congress*, Rapid City, S.D., pp. 571–582, 1983.
5. K. Golden and G. Papanicolaou, Bounds for effective parameters of multicomponent media by analytic continuation, *Journal of Statistical Physics*, 40, pp. 655–667, 1985.
6. K. Golden, S. Goldstein and J. L. Lebowitz, Classical transport in modulated structures, *Physical Review Letters*, 55, pp. 2629–2632, 1985.
7. K. Golden, Bounds on the complex permittivity of a multicomponent material, *Journal of Mechanics and Physics of Solids*, 34, pp. 333–358, 1986.
8. S. F. Ackley, A. J. Gow, K. R. Buck and K. M. Golden, Physical and structural characteristics of Weddell Sea pack ice, Cold Regions Research and Engineering Laboratory (CRREL) Report 87–14, 70 pp., 1987.
9. K. Golden, S. Goldstein and J. L. Lebowitz, Nash estimates and the asymptotic behavior of diffusions, *Annals of Probability*, 16, pp. 1127–1146, 1988.
10. K. Golden, S. Goldstein and J. L. Lebowitz, Diffusion in a periodic potential with a local perturbation, *Journal of Statistical Physics*, 51, pp. 637–656, 1988.
11. K. Golden and S. Goldstein, Arbitrarily slow decay of correlations in quasiperiodic systems, *Journal of Statistical Physics*, 52, pp. 1113–1118, 1988.
12. K. Golden, Convexity in random resistor networks, in *Random Media and Composites*, R.V. Kohn and G.W. Milton (Eds.), Society for Industrial and Applied Mathematics, pp. 149–170, 1989.
13. K. Golden, S. Goldstein and J. L. Lebowitz, Discontinuous behavior of effective transport coefficients in quasiperiodic media, *Journal of Statistical Physics*, 58, pp. 669–684, 1990.
14. G. W. Milton and K. Golden, Representations for the conductivity functions of multicomponent composites, *Communications on Pure and Applied Mathematics*, 43, pp. 657–671, 1989.