

January, 2006

AHARON KAPITULNIK

Chair, Department of Applied Physics, Stanford University.

Professor of Applied Physics and of Physics, Stanford University, Stanford CA 94305.

Education:

B.Sc., Physics, Tel Aviv University, June 1978 (with distinction).

Ph.D., Physics, Tel Aviv University, August 1983 (with highest distinction).

Professional Experience:

2006 - Chair, Department of Applied Physics, Stanford U.
1994 - Professor, Applied Physics and Physics, Stanford U.
2000 - 02 Deputy Director, Laboratory for Advanced materials, Stanford U.
2000 - 01 Visiting Professor, The Hebrew University of Jerusalem, Israel.
1999 - 00 Director, center for Materials Research, Stanford U.
1996 - 99 Chair, Department of Applied Physics, Stanford U.
1993 - 94 Associate Professor, Physics, Stanford U.
1992 - 99 Executive committee, Center for Materials Research, Stanford U.
1992 Visiting Professor, Ecole Normale Supérieure, Paris,
1992 Visiting Professor, U. of Paris XI, Orsay.
1990 - 94 Associate Professor, Applied Physics, Stanford University.
1987 - 98 Member of Scientific Advisory Board, Conductus Inc., Sunnyvale, CA.
1985 - 90 Assistant Professor, Applied Physics, Stanford University.
1985 - 93 Member, Center for Materials Research, Stanford University.
1985 Assistant Professor in Residence, Physics, UC Santa Barbara.
1983 - 84 Weizmann & Institute Fellow, Inst. for Polymers and Org. Solids, UCSB.
1983 - 84 Associate member, Institute for Theoretical Physics, UC Santa Barbara.
1980 - 83 Instructor and Course Developer, Israel Open University.
1978 - 83 Teaching Assistant, Physics and Mathematics, Tel Aviv University.

Membership in Professional Organizations etc.

Fellow, American Physical Society

Thesis:

Ph.D. - Geometry and Physical Properties of Metal-Insulator Mixture Films
(Advisor - Prof. Guy Deutscher)

Research Activities and Interests:

Strongly correlated electron systems; Disordered electron systems; Low-dimensional systems; Superconductivity; Magnetism; Quantum phase transitions; Search for Broken-Time-reversal Symmetry state in novel condensed matter systems; Measurements techniques include transport, thermodynamic, optical, magnetic, and STM; Measurements of gravity at sub-mm length-scales.

Honors and Awards:

2006 Sackler Visiting Professor, Tel Aviv University.
2001 Niels-Bohr lecture, The Niels Bohr Institute, Copenhagen, Denmark.
2000 Distinguished Lecturer in Materials Physics, The Pennsylvania State University.
1994 Elected Fellow, American Physical Society
1987-92 Presidential Young Investigator Award, National Science
1989-91 TRW Faculty Assistantship Award
1987 Bergmann Memorial Award, US-Israel Binational Science Foundation
1986 -90 Alfred P. Sloan Fellow.

1985 -87 IBM Faculty Development Award
1983 -84 The Chaim Weizmann Postdoctoral Fellowship
1981 Distinguished Teaching Assistant in Physics, Tel Aviv University.

Publications

Author of more than 200 reviewed scientific publications. Editor of 1 book.

Patents

Holds 7 patents in areas of Applied Superconductivity, optics and low temperature devices.

Organization of Meetings, etc.

- July 1989, Chairman of Local Committee, Materials and Mechanisms of Superconductivity, Stanford, CA.
- June 1990, Co-Chairman, Gordon Research Conference on Condensed Matter Physics, Brewster Academy, NH.
- August 1992, Chairman, Gordon Research Conference on Condensed Matter Physics, Brewster Academy, NH.
- July 1993, Co-Chairman, NATO/ASI on "Vortices in Superfluids" Cargese, Corsica, France.
- 8/94 - 12/94, Co-Director, Program on "Vortices," Institute for Theoretical Physics, U.C. Santa Barbara, CA.
- June 1999, Chair, International Workshop on "Vortex Dynamics," Stanford U.
- February 2002, Co-Organizer, Aspen Winter conference on Condensed Matter Physics.
- May 2004, Co-Organizer, Cargese School on "Quantum Phase Transitions," Cargese, Corsica, France.
- Summer 2004, Co-Organizer, Aspen summer workshop on "Coherence and Dissipation in Quantum Systems."
- Served as member of local, International program committees for many conferences and workshops.

Past Graduate Students and their Current Affiliation:

Kookrin Char (1989), Professor, Seoul National University; David B. Mitzi (1990), Team leader, IBM Yorktown Heights; Julia W.P. Hsu (1990), Senior Researcher, Sandia National Laboratory, NM; Michael R. Hahn (1993), Manager, Microsoft Inc.; Jeffrey S. Urbach (1993), Professor, Georgetown University; Louis W. Lombardo (1994), Owner, Teragon Research Inc.; Seungoh Ryu (1994), Senior research scientist, Schlumberger Research Center, CT; Ali Yazdani (1994), Professor, Princeton University; Kathryn A. Moler (1995), Associate Professor, Stanford University; Steven J. Dodge (1997), Assistant Professor, Simon Fraser University, Vancouver, Canada; Monica Hellerqvist (1998), MTS, KLA-Tencor; Nadya Mason (2001), Assistant Professor, University of Illinois, Urbana, Champaign; John Chiaverini (2002) Team member, Los Alamos National Laboratory; Craig Howald (2002), Assistant Professor, Marietta College, Marietta, Ohio; Sylvia Smullin (2005), Dicke fellow, Princeton University (2005).

Present Graduate Students:

Myles A. Steiner, Andrew A. Geraci, Alan C. Fang, David Minot Weld, Jing Xia.