

AHARON KAPITULNIK

The Theodore and Sydney Rosenberg Professor in Applied Physics,
Geballe Laboratory for Advanced Materials, 476 Lomita Mall, Stanford, CA 94305-4090.
Tel: (650) 723-3847; E-mail: aharonk@stanford.edu

Education:

B.Sc., Physics, Tel Aviv University, June 1978 (magna cum laude).

Ph.D., Physics, Tel Aviv University, August 1983 (summa cum laude).

Appointments:

1994 - present, Professor of Applied Physics and Physics, Stanford University.

2005 - 2010, Chair, Department of Applied Physics, Stanford University.

2000 - 2002, Deputy Director, Laboratory for Advanced materials, Stanford University.

2000 - 2001, Visiting Professor, The Hebrew University of Jerusalem, Israel.

1999 - 2000, Director, center for Materials Research, Stanford University.

1996 - 1999, Chair, Department of Applied Physics, Stanford University.

1993 - 1994, Associate Professor, Physics, Stanford University.

1992 - 1999, Executive committee, Center for Materials Research, Stanford University.

1992, Visiting Professor, Ecole Normale Superieure, Paris, and U. of Paris XI, Orsay.

1990 - 1994, Associate Professor, Applied Physics, Stanford University.

1985 - 1990, Assistant Professor, Applied Physics, Stanford University.

1985 - 1993, Member, Center for Materials Research, Stanford University.

1985, Assistant Professor in Residence, Physics, U. of California Santa Barbara.

1983 - 1984, Weizmann and Institute Fellow, Inst. for Polymers and Organic Solids, UCSB.

1983 - 1984, Associate member, Institute for Theoretical Physics, UC Santa Barbara.

Honors and Awards:

- Elected Member of the National Academy of Sciences (2015).
- Oliver E. Buckley Condensed Matter Prize of the American Physical Society (2015).
- 2014 Prof. Yuval Ne'eman - Annual Memorial Lecture, Tel Aviv University.
- Moore EPIQS Experimental Investigator Award (2014).
- The 2012 Einstein Colloquium, Weizmann Institute of Science, Israel (2012).
- Sackler Professor by Special Appointment in the School of Physics and astronomy at Tel-Aviv University, Israel (2006-2015).
- Alexander von Humboldt Research Award (2011).
- Senior Chair, Le Triangle de la Physique, (Polytechnique-Orsay-Saclay) France (2011-2013).
- Heike Kamerlingh Onnes Prize for Outstanding Superconductivity Experiments (2009).
- Elected Fellow of the American Academy of Arts and Sciences (2009).
- Colloquium Pierre et Marie CURIE, Paris, France (2007).
- Niels-Bohr lecture, The Niels Bohr Institute, Copenhagen, Denmark (2000).
- Distinguished Lecturer in Materials Physics, Penn State University (1994).
- Elected Fellow, American Physical Society (1994).
- Presidential Young Investigator Award, National Science Foundation (1987-92).
- TRW Faculty Assistantship Award (1989-91).
- Bergmann Memorial Award, US-Israel Binational Science Foundation (1987).
- Alfred P. Sloan Fellow (1986-90).
- IBM Faculty Development Award (1985-87).
- The Chaim Weizmann Postdoctoral Fellowship (1983-84).

Current Research Activities and Interests:

- Strongly correlated electron systems; Disordered electron systems; Low dimensional systems; Superconductivity; Magnetism; Quantum phase transitions; Topological phases in condensed matter systems; Experimental techniques include transport, thermodynamic, optical, magnetic, Scanning Tunneling Microscopy and spectroscopy (STM/STS).
- Precision measurements; Measurements of gravity at sub-mm length-scales. MEMS Devices.

Publications:

Author of more than 270 reviewed scientific publications. Editor of 1 book.

Patents:

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