

Curriculum Vitae

ARIE ZIGLER

Date of Birth: 20 June 1946.

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Abstract: Dr. Zigler has 30 years of experience in experimental physics in area of electro-optics, spectroscopy, high power lasers and plasma physics. He holds a full professor position at Physics Department, Hebrew University in Jerusalem. Dr. Zigler has consulted many businesses in US and Israel, holds 6 patents and has published over 170 scientific publications and delivered numerous invited talks at scientific conferences. He is a fellow of American Physics Society.

Homepage: <http://www.phys.huji.ac.il/~zigler/>

Academic Degrees (date and place received):

1968 - 1971: B. Sc. - Hebrew University , Jerusalem , Israel.

1972 - 1974: M. Sc. - Hebrew University, Jerusalem , Israel.

1975 - 1978: Ph.D. - Hebrew University, Jerusalem , Israel.

Academic Appointments:

- 1978- 1981 Senior Researcher Soreq Research Center Israel Group Leader of XUV and X-ray spectroscopy experiments., SRC, Israel
- 1981-1982 Senior Scientist INESCO Tokamak project San Diego Ca, USA Responsible for diagnostics package for compact Tokamak experiment.
- 1982 -1983 Visiting Scientist, Plasma Fusion Center, M.I.T, Cambridge MA, USA Developed K alpha diagnostic for Alcator C Tokamak
- 1983- 1985 Head of Experimental Plasma Branch, Soreq NRC Israel Dealt with theoretical and experimental study of spectroscopy of highly ionized heavy atoms
- 1985 Visiting Scientist, Lawrence Livermore National Laboratory, USA. Study of interaction of high power laser and developed point backlighting source for fusion studies
- 1986- 1987 Visiting Scientist, Dept. of Physics, University of California, Berkeley, USA. Introduce ultra fast switching X-ray radiation (sabbatical)
- 1987-1991 Head of Plasma Physics Department, Soreq Research Center Israel. Leader of R&D activities of 20 Ph.D researchers in the fields of laser-plasma interactions, X-ray radiation, shockwave phenomena and nonlinear optics. The application of one of methods is widely used for interpretation of laser-produced plasma experiments as well as of radiative properties of stellar plasmas is highly cited (above 220).
- 1991- 1992 Senior Physicist, ARCO Power Technologies, Inc., Washington DC, USA. Was responsible for physics aspects of design and development of airborne laser-optical instruments for detection oil films and trace elements in water. The work has led to two patents.
- 1992- 1996 Associate Professor, The Racah Institute of Physics, Hebrew University Leader of research group, deals with interaction of ultra short laser radiation with solids, laser wake field acceleration in plasmas, and x-ray lasers.
- 1996- present Full Professor, The Racah Institute of Physics of Physics, Hebrew University Main activities are in the field of electron and proton acceleration. More than 30 publications related electron accelerations were published and widely cited (more

than 200), intense laser propagation in the atmosphere, Our works on laser filamentation the atmosphere are also highly cited.

2007 Louis and Ida Shlansky Chair of Physics

2000- 2001 Senior Researcher, Naval Research Laboratory, Washington DC. Dealt with interaction of ultra short pulse laser with solid targets (sabbatical)

2006-2007 Senior Researcher, Naval Research Laboratory, Washington DC Development of capillary discharges for intense laser guiding (sabbatical)

Fellowships

2000 - Fellow American Physics Society - In recognition of his fundamental experimental contributions to the field of ultra high intensity laser matter interactions