

CURRICULUM VITAE: Murray A. MOINSTER, Professor of Physics, Aug. 2014

Born: February 14, 1940, New York, USA
Citizenship: USA and Israel

EDUCATION

B.Sc. 1961 City College of CUNY, New York, USA
Ph.D. 1969: University of Rochester, Rochester, New York, USA

ACADEMIC AND PROFESSIONAL EXPERIENCE

1968 - 1970 – Instructor; 1970 - 1973 – Lecturer; 1973 - 1980 – Senior Lecturer; 1980 – 1988 - Associate Professor; 1988 - 2003 – Professor; 2003-present – Emeritus Professor, Tel Aviv University (TAU)

2009-2012, Institute of Archaeology, TAU, Consultant, Infrared Imaging & Scientific Dating
2006-2007 Eitan-Mehulal Law Group, Herzliya, patent writer, 4 months
2008 Sysconet Information Technologies Ltd., Herzliya, Consultant, Border Control Technologies
2004-2007 Bermuda Institute of Ocean Sciences, Adjunct Senior Scientist, Visiting Professor, 2 years
2002-2003 Mercator Professor, Visiting Professor, Johannes Gutenberg University Mainz, 1.5 years
2003 Visiting Professor, Instituto de Fisica, Universidad Autonoma San Luis Potosi, SLP, Mexico, 2 months

1994-1999 Visiting Professor, Max Planck Institute, Heidelberg, Germany, 8 months
1999-2007 Visiting Professor, CERN, Geneva, 4 months
1991-1998 Visiting Professor, Fermi National Accelerator Laboratory, 8 months
1992-1993 Visiting Professor, Laboratori Nazionali de Frascati dell' I.N.F.N., Frascati, Italy, 4 months
1988-1990 Visiting Professor, Brookhaven National Laboratory, N.Y., 4 months
1981-1993 Visiting Professor, TRIUMF Meson Facility - University of British Columbia, 3 years
1980-1984 Visiting Professor, M.I.T. BATES Electron Accelerator, 4 months
1980-1981 Visiting Professor, University of Massachusetts, Amherst, Mass., 2 months
1976-1977 Research Consultant, Oak Ridge National Laboratory, 8 months
1974-1986 Visiting Staff Member and Visiting Scientist, Los Alamos Meson Physics Facility, 3 years 1970-1975
1970-1975 Visiting Research Associate and Visiting Scientist, Centre d'Etudes Nucléaires de Saclay, France
1969-1970 & 1994 Visiting Scientist, Institut des Sciences Nucléaire, Grenoble, France, 6 months
1961-1968 Teaching and Research Assistant, University of Rochester, Rochester, N.Y., USA

SPECIALIZATION

High Energy Particle and Nuclear Physics

RESEARCH INTERESTS

Scientific Dating, Infrared Imaging Technologies, Archaeology, Radon Diffusion, Patent law, Hydrology and Water Security, EU Border Control (Radiation) Technologies, Pion Polarizability, Chiral Anomaly, Doubly Charmed Baryons, Giant Resonances, Charmed Baryons and Mesons, Hybrid Mesons, Spin Structure of the Proton, Form Factors, Pion Scattering and Absorption Reactions, Nuclear Stripping and Pickup Reactions, Electron Scattering, Pion and Nucleon Induced Charge Exchange Reactions, Photo-Nuclear Reactions, Radon Detection

I carried out research programs during 1969-2012 at leading accelerator laboratories and universities worldwide (CERN in Switzerland, Heidelberg and Mainz in Germany, Grenoble and Saclay in France, Frascati in Italy, TRIUMF in Canada; FNAL, MIT, BNL, ORNL, LANL in USA, etc.). These programs were based on a wide range of experimental apparatus, each program having its own special setup. The programs were very successful, as described in numerous journal publications. My experimental and theoretical works in the fields of high energy nuclear and particle physics are highly regarded.

I gained high level expertise during my teaching and research career with integrated command and control systems of detector apparatus. These allowed for on-line monitoring and control of the performance of a large variety of detection apparatus, and coordinated acquisition, handling, display and analysis of the data. My expertise was achieved through the many courses that I taught (graduate applied and theoretical Nuclear Physics, Electromagnetism, Classical and Quantum Mechanics, Electronics, Hearing and Speech Sciences, etc.), and through the many particle and nuclear physics experiments in which I participated at particle accelerator laboratories

ACADEMIC AND PROFESSIONAL AWARDS

- 1961: Phi Beta Kappa, Sigma Phi, City College of CUNY.
1987: National Sciences and Engineering Research Council of Canada,
International Scientific Exchange Award.
2003: Mercator Professor, Johannes Gutenberg University Mainz

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Physical Society (USA), European Physical Society