

CURRICULUM VITAE

January, 2020

PERSONAL DATA:

Name: Ron Schreier
Place and date of birth: Israel, May 14, 1963
Israel military service: 1985 - 1989
Citizenship: Israel
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ACADEMIC RECORD:

1982-1985 Technion, Israel Institute of Technology, Haifa, Israel,
Faculty of Physics, Degree: B.A., *cum laude*.
1989-1992 Tel Aviv University, Tel Aviv, Israel,
Department of Geophysics and Planetary Sciences,
Degree: M.Sc., March 1992, *summa cum laude*.
1992-1996 Tel Aviv University, Tel Aviv, Israel, Department of
Geophysics and Planetary Sciences,
Degree: Ph.D., March 1997.

M.Sc. thesis: The Abundance of OIII in the Jovian Magnetosphere
and Io Torus. The work was based on data analysis
of the Plasma Science (PLS) instrument on board
the two Voyager spacecraft.
Supervisor: Prof. A. Eviatar, Tel Aviv University, Israel.

Doctoral thesis: A Two-Dimensional Model of Plasma Transport
and Chemistry in the Jovian Magnetosphere.
Supervisor: Prof. A. Eviatar, Tel Aviv University, Israel.

ACADEMIC APPOINTMENTS:

2008-2009 Visiting Research Scientist, Institute for Research in
Electronics and Applied Physics, University of Maryland,
College Park, MD, USA.

PROFESSIONAL EXPERIENCE:

- 1996-Todate Senior Research Scientist, Department of Theoretical Physics, David Institute, RAFAEL, Haifa, Israel.
- Image processing.
 - Tomography.
 - Hydrodynamic simulations.
 - Supervising student projects at the Geometrical Image Processing group, the Intelligent Systems Laboratory, Computer Science Department, Technion, Israel Institute of Technology, Haifa, Israel.
 - Organizer of the Ordnance Systems Division Journal Club.
 - Head of the Image Processing Group.
- 1995-1996 Head of a research group, studying the statistics of wind speeds distribution in Israel, Israel Meteorological Service.
- 1983-1985 Technician at the Semiconductors Evaporation Laboratory, The Solid-State Institute, Technion, Israel Institute of Technology, Haifa, Israel.
Experimental work with lasers, vacuum chambers and semiconductors.

TEACHING EXPERIENCE:

- 1990-1996 Teaching Assistant, Department of Geophysics and Planetary Sciences, Tel Aviv University, Ramat Aviv, Israel.
Courses given:
- Physics of the Upper Atmosphere.
 - Analytical Mechanics.
 - Differential and Integral Calculus.
- 1990-1996 Lecturer for talented youth, Department of Education, Tel Aviv University, Ramat Aviv, Israel.
Courses given:
- Laboratory Experimental Physics.
 - The Solar System.
 - Astrophysics.

GRANT:

- 1996-1999 Katzir grant, awarded by the Israel Ministry of Defense for distinguished scientists.
- 2017-2020 Soker Noam and Schreier Ron, Pazi Fund, awarded by the Israel Atomic Energy Commission for 4 years.

HONORS:

2005 - Special award from the Israel Ministry of Defense for excellence in research.

2004 - Special award from the Israel Ministry of Defense for an excellent team achievement in development.

Three internal awards, 1999, 2005 and 2007.

PUBLICATIONS:

Over 70 classified reports/papers, RAFAEL.

List of publications attached.

PRESENTATIONS AT SCIENTIFIC MEETINGS:

Exploring the Orientation of the Reconnection X-line with Numerical Simulations, 2009, *Fall AGU Meeting*, San Francisco, California, December 2009

The climatology of winds and waves in the bay of Haifa, M. Weiss and R. Schreier, Poster presentation at the *CLIMAR 99 - WMO Workshop on Advances of Marine Meteorology*, Vancouver, Canada, September 1999.

A Two-Dimensional Model of Plasma Transport and Chemistry in the Jovian Magnetosphere, R. Schreier, A. Eviatar and V. M. Vasyliūnas, Poster presentation at the *Magnetospheres of the Outer Planets*, Colorado, U.S.A., March 1997.

Numerical Model of Ion Partitioning in the Io Plasma Torus, R. Schreier, A. Eviatar, and V.M. Vasyliūnas, Poster presentation at the *AGU Fall Meeting*, San Francisco, U.S.A., December 1995.

The abundance of O^{++} in the Io torus and Jovian magnetosphere, F. Bagenal, R.L. McNutt, D.E. Shemansky, R. Schreier and A. Eviatar, Lecture at the *Goertz-Smith Memorial Symposium on the Magnetospheres of the Outer Planets*, Los Angeles, U.S.A., June, 1992.

COMPUTING EXPERIENCE:

Work with Unix workstation and PC (DOS & Windows).

Scientific programming with Matlab, Fortran and Pascal.

Operating the hydro-dynamic code MSC-PISCES.