

April, 2015

Eugene Zaretsky CURRICULUM VITAE

1. Personal Details

Name: Eugene Zaretsky
Date and place of birth: 24 June 1950, Moscow, USSR
Date of Immigration: 7 June 1990
Family Status: Married + 3
Address and telephone number at work:
Department of Mechanical Engineering, Ben-Gurion
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2. Education

1967 - 1973 Graduated from Moscow Steel and Alloys Institute,
M. Sc.: Physics of Metals.
1976 - 1980 Ph.D., Thes. "Thermophysical Properties of Titanium and
Its Alloys". Institute for High Temperatures (USSR
Academy of Sciences). Supervisor: Prof. V.E. Peletsky

3. Employment History

1973-1975 **Engineer**, Institute for High Temperatures of the
Academy of Science.
1975-1979 **Senior Engineer**, Institute for High Temperatures of the
Academy of Science .
1979-1983 **Researcher**, Institute for High Temperatures of the
Academy of Science.
1983-1990 **Head of Research Group, Senior Researcher**,
Institute for High Temperatures of the Academy of
Sciences. Moscow. USSR
1990-1991 **Senior Researcher**, Solmex (Israel) Ltd.- Ofakim
Center of Technology. Beer-Sheva, Israel

1991-1992	Senior Researcher , Dept. of Mechanical Engineering Ben-Gurion University of the Negev, Beer-Sheva, Israel
01.10.94 - 22.10.94	Visiting Associate Professor , Shock Dynamic Lab., Dept. of Physics, Washington State University, Pullman, Washington, USA
01.05.98 - 30.09.98	Visiting Associate Professor , Shock Wave Research Center., Institute of Fluid Science, Tohoku University, Sendai , Japan
1992 - 2002	Associate Professor , Dept. of Mechanical Engineering Ben-Gurion University of the Negev, Beer-Sheva, Israel
17.04.04 - 20.12.04	Visiting Professor , Ultra-High-Enthalpy Flow Research Division, Transdisciplinary Fluid Integration Research Center Institute of Fluid Science, Tohoku University, Sendai , Japan
since 2002	Full Professor , Dept. of Mechanical Engineering Ben-Gurion University of the Negev, Beer-Sheva, Israel

4. Professional Activities

(a) Referee

1996 – present	Referee of the Journal of Fluids and Structures
1997 – present	Referee of Journal of Shock Waves
1994 – present	Referee of United States-Israel Binational Science Foundation
1995 – present	Referee of German - Israel Binational Science Foundation
1999 – present	Referee of Israel Science Foundation
since 2008	Referee of the Journal of Metallurgical and Material Transactions
since 2009	Referee of the Journal of Applied Physics
since 2012	Referee of the Review of Scientific Instruments

(b) Industrial Consulting

1991	KITECHNOLOGY (UK) Ltd. Improvement of Titanium Work - Pieces for Ultrasonic Welding.
1993	RAMTA (IAI), Beer-Sheva. Multilayer Ceramics Armoring.
2001-2006	GRIP Technologies Ltd., Rosh ha-Ain, X-ray inspection of electronic circuits.

(c) Courses taught

"Thermal properties measurements" - Undergraduate level - Moscow
Power Institute.
"Mechanical Properties of Materials" - Undergraduate level - BGU
"Strength of Materials" - Undergraduate level - BGU
"Shock Waves in Solids" - Graduate level - Institute for High
Temperatures of the USSR Academy of Science.

"Shock Waves in Solids" - Graduate level - BGU.
 "Advanced Engineering Materials" - Graduate level - BGU.
 "Advanced Engineering Materials" - Undergraduate level - BGU.
 "Statistical Thermodynamics" - Graduate level – BGU.
 "Physical Foundations of Strength" - Graduate level - BGU.
 "Measurements and Devices"- Undergraduate level - BGU.
 Special intensive course (2 days, 16 hours) for Israeli Ministry of Defense "Shock materials behavior" (with Dr. Z. Rosenberg, ADA).

(d) Conferences organization

First Israeli Workshop "Multiscale approach to Strength of Solids"
 (with Dr. N. Argaman, NNRC)
 First Israel – Japan Conference "Dynamic Response of Brittle Solids"
 (with Prof. M. Dariel, Dept. Mater. Eng., BGU)

5. Awards and Research Fellowships

- 1979 First Prize for Young Scientist of Institute for High Temperatures.
"Short order in solid solutions of the W-Re system".
- 1980 First Prize for Young Scientist of Institute for High Temperatures.
"Thermophysical properties of titanium alloys"
- 1980 First Prize for Soviet Young Scientists in Thermal Physics
(Thermophysical Properties Measurements). "Heat of phase transformation measurements in alloys".
- 1992 Guastalla Fellowship of the Rashi Foundation.

6. Research Grants

Total Research Grants 2 000 000 US\$

[including 15-year grant of Israeli MOD (MAFAT), 10-year grant of VATAT, one 3-year grant of BSF, five 3-year grants of ISF, one 3-year grant of Israeli MOS]

7. Research Students

M.Sc. Students

- 1997 - D. Tsukinovsky
Experimental Study of Dynamic Mechanical Properties of Polymers
- 1999 - R. Reuven
Experimental Study of Shock Thermodynamics of Polyethylene
- 1999 - A. Shor
Numerical Modelling of Shock-Induced Processes in New Aluminum Alloys
- 1999 - Sh. Yacoby (with R. Shuker, BGU, and D. Shwartz, NNRC)

Early stage of spall fracture
2002 - R. Tsuberi (with M.Perl, BGU)
Modelling the response of a fiberglass composite to plane impact and its
comparison with experimental results
2002 - B. Klein (with M..Dariel and N.Frage, BGU)
Dynamic response of TiC-steel ceramic-metal composite.
2003 - I. Pasternak (with M.Perl, BGU)
Experimental evaluation of new laboratory gas gun
2004 – S. Hayun (with M..Dariel and N.Frage, BGU)
Dynamic response of B₄C-SiC-C composites.
2005- V. Paris
Experimental/numerical study of alumina compressive fracture threshold.
2006 -V. Favorsky
Wide-strain-range constitutive description of Ti-6Al-4V alloy.
2008 (to be completed) -D. Kleiman
Dynamic response of PMMA in the vicinity of its glassy temperature.

Ph. D. Students

2005 B. Herrman (with M.Talianker, BGU and A. Landau, NNRC)
Dynamic response of heavy alloys

2009– S. Hayun (with N. Frage, BGU)

2010– V. Paris (with N. Frage, BGU)

2010– V. Favorsky