

## ÖKTEM VARDAR

### Personal Data

Born : Istanbul, Türkiye, 1948  
Address : Business : Ziya Gökalp cad. 48, Kolej/ Ankara;  
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Marital Status : Married  
Children : Two

### Educational Data

B.Sc. Robert College, Istanbul, Turkey, 1971  
Mechanical Engineering Department  
M.S. University of California at Berkeley, USA, 1972  
Mechanical Engineering Department  
Ph.D. University of California at Berkeley, USA, 1975  
Mechanical Engineering Department  
Thesis title: "Fracture of Brittle Solids Under Multiaxial and Dynamic Loading"  
supervised by Prof. Iain Finnie

### Professional Experience

1975 – 1981 Assistant Professor of Mechanical Engineering, Bogazici University  
1981 –1988 Associate Professor of Mechanical Engineering, Bogazici University  
1982 – 1993 Vice-chairman, Department of Mechanical Engineering  
1988 – 2004 Professor of Mechanical Engineering, Bogazici University  
1988 – 1994 Vice-Dean, Engineering School; Member of the Executive Committee  
1994 – 2000 Vice-Rector, Research and Development; Member, Senate; University Executive Board; Academic Board of Bogazici University Foundation;  
1996 – 2000 Chairman, Research Fund;  
1996 – 2000 Chairman, Research Policies Committee  
2001 - 2004 Chairman , Dept. of Mechanical Engineering  
2001 - 2002 Member, Exec. Board of TÜSSIDE (Turkish Institute for Industrial Management)  
2001 - 2003 Member, Exec. Board of TÜBİTAK (The Scientific and Technical Research Council of Turkey)  
2002 - 2004 Member, Exec. Board of National Metrology Institute  
2002 - 2004 Chairman, Exec. Board of Feza Gursev Research Institute,  
2003- 2004 Member, Council of Higher Education (of Turkey), YÖK.  
2003 - EUA Institutional Evaluation Program reviewer  
2004 - 2004 Member, Exec. Board of MARTEK, TUBİTAK-technopark operating firm  
2004- 2005 Country representative to UNESCO, Quality issues in Cross - border Higher Education  
2004 -2010 Vice-rector and Provost, Işık University, Istanbul, Turkey

2010 - 2011 Secretary General, Magna Charta Observatory, Bologna, Italy  
2011 - Rector, TED University, Ankara, Turkey

### Administrative Interests

- Research management and support
- Strategic management
- Quality assurance, quality assessment
- Governance in higher education institutions

### Research Interests

- Study of Fatigue Crack Propagation Under Variable Amplitude Loadings and Retardation Induced by Overloads
- Prediction of Crack Growth Under Complex Loads
- Crack Length Evaluation in Part-Through Cracks
- Experimental Method for Evaluating Residual Stresses
- Production and Testing of Carbon Fiber Reinforced Plastics

### Courses Offered

- Engineering Design (graduate)
- Mechanical Behavior of Materials (graduate)
- Fracture (graduate)
- Machine Design I & II
- Strength of Materials I & II
- Project, Mechanical System Design

### Funded Research Projects

- TUBITAK (Turkish Scientific and Technical Research Council) Project #702 – Crack Growth Under Variable Amplitude Loads 1985-1988
- Bogazici University Research Fund Project #89A0645-Fatigue Crack Growth Under Variable Loads, 1989-1990
- NATO Collaborative Research / With U.C. Berkeley – Residual Stress Measurement Using Solutions from Fracture Mechanics, 1989-1993
- DPT (State Planning Organisation) Project 91K120490-Damage Estimation and Analysis in Aircraft Materials, 1991-1994
- Bogazici University Research Fund Project 91A0620-Crack Growth Prediction Through the ONERA Model, 1991
- Bogazici University Research Fund Project 92A0639-Production of Carbon Fiber Reinforced Plastics, 1992
- Bogazici University Research Fund Project 93HA0621-Production of Carbon Fiber Reinforced Plastics, 1993-94

- Bogazici University Research Fund Project 95A0641-Effect of Process Variables on Mechanical Properties in CFRP 1995-1997
- DPT (State Planning Organisation) Project 95K120320 Product development Using Fiber Reinforced Composites 1995-1999
- Bogazici University Research Fund Project 99HA601D-FE Modelling of Fatigue Crack Growth, 1999-2000
- Bogazici University Research Fund Project 02A604- Investigation of fracture surfaces, 2002-2004

### Refereed (SCI) Publications:

17. Ertas AH, Vardar O, Sonmez FO, Solim Z. "Measurement and Assessment of Fatigue Life of Spot-Weld Joints" Journal of Engineering Materials and Technology, Transactions of the ASME, 131 (1): Art. No. 011011, Jan 2009
16. Celik, C.E., Vardar, Ö. and Kalenderoglu, V. "Comparison of Retardation Behavior of 2024 T3 and 7075-T6 Al- alloys." Fatigue Fracture Engng Mater Struct V.27, pp713-722, 2004
15. Heper, R. and Vardar, Ö. "Elastic-plastic material response of fatigue crack surface profiles due to overload interactions" Int. J. Fatigue, Vol.25 pp 801-810, 2003
14. Ersoy, N. and Vardar, O. "Measurement of Residual Stresses in Layered Composites by Compliance Method" J. of Composite Materials, Vol.14, No 07 pp.575-598, 2000
13. Tür, Y.K and Vardar, O. "Periodic tensile overloads in 2024-T3 Al alloy" Engineering Fracture Mechanics, Vol.53, pp 69-77, 1996
12. Cheng, W., Finnie, I. and Vardar, O. "Deformation of an Edge-Cracked Strip Subjected to Normal Surface Traction on the Crack Faces" Engineering Fracture Mechanics, Vol 42, No 1, pp.97-107, 1992
11. Cheng, W., Finnie, I. and Vardar, O. "Estimation of Axisymmetric Residual Stresses in a Long Cylinder" Journal of Engineering Materials and Technology, Transactions of ASME, Vol.114 pp.137-140, 1992
10. Cheng, W., Finnie, I. and Vardar, O. "Measurement of Residual Stresses Near the Surface Using the Crack Compliance Method" Journal of Engineering Materials and Technology, Transactions of ASME, Vol.113 pp.199-204, 1991
9. Vardar, O. and Yıldırım, N. "Crack Growth Retardation due to Intermittent Overloads" International Journal of Fatigue, Vol.12, No.4 pp.283-287, 1990
8. Yıldırım, N. and Vardar, O. "Study of Periodic Overloads at a Fixed Overload Ratio" Engineering Fracture Mechanics, Vol.36, No.1, pp.71-76, 1990
7. Vardar, O and Kalenderoglu, V. "Effect of Notch Root Radius on Fatigue Crack Initiation" Journal of Materials Science and Engineering, A114, pp.L35-L38, 1989

6.Vardar, O.“Effect of Single Overload in Fatigue Crack Propagation”Engineering Fracture Mechanics, Vol.30, No.3, pp.329-335, 1988

5.Vardar, O.”Fatigue Crack Propagation Beyond General Yield” Journal of Engineering Materials and Technology, Transactions of ASME, Vol.104 pp.192-199, 1982

4.Vardar, O. and Finnie, I. “The Prediction of Fracture in Brittle Solids Subjected to Very Short Duration Tensile Stresses” International Journal of Fracture, Vol.13, pp.115-131, 1977.

3.Vardar, O., Finnie,I., Biswas, D.R. and Fulrath, R.M. “Effect of Spherical Pores on the Strength of Polycrystalline Ceramic” International Journal of Fracture, Vol.13, pp.215-223-1977.

2.Vardar, O. and Finnie,I. “An Analysis of the Brazilien Disk Fracture Test Using the Weibull Probabilistic Treatment of Brittle Strength” International Journal of Fracture, Vol.11, pp.495-508,1975

1.Vardar, O. Finnie, I. and Oh, K.P.L. “Failure of Brittle Solids Under Biaxial Stresses” International Journal of Fracture, Vol.9, pp.372-375, 1973.

### Book, Book Chapter:

**Vardar, O.**”Fracture Mechanics” Bogazici University Press, 1988

**Öktem Vardar**, “Government – University Interfaces, Globalisation and Internationalisation in Turkey” in Higher Education Management and Development in Central, Southern and Eastern Europe, Attila Pausits, Ada Pellert (Eds.), Waxmann Verlag GmbH, 2007

Üstün Ergüder, Mehmet Şahin, Tosun Terzioğlu, **Öktem Vardar** “Neden Yeni Bir Yükseköğretim Vizyonu” Istanbul Politikalar Merkezi, Sabancı Üniversitesi, 2009

**Öktem Vardar**, “Quality Management in Higher Education” in Higher Education Management and Development, Compendium for Managers, Jeroen Huisman,Attila Pausits(Eds.), Waxmann Verlag GmbH, 2010

### Citations

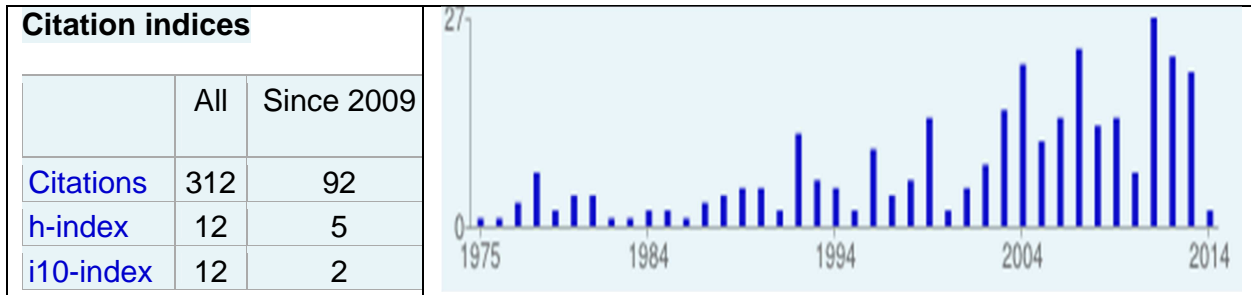
Based on Web of Science data :

<b>Publication No:</b>	17	16	15	14	13	12	11	10	9
<b>No. of citations:</b>	0	1	3	25	9	4	8	12	10
<b>Publication No:</b>	8	7	6	5	4	3	2	1	PhD thesis
<b>No. of citations:</b>	8	1	15	1	12	17	48	15	2

**Total citations : 191**

**H-index = 8**

### Google Scholar Citation report



### Awards

“Russell Severance Springer Visiting Chair” Award-U.C. Berkeley, 2002

### Recent Programs participated to improve professional competence

- Specialist’s Conference on Fatigue of Aircraft Materials, 1992, Delft, The Netherlands
- CRE(Assoc. European Univ.), 44th Biannual Conference “Generating New income for the University” Aarhus, Denmark May 17-20,1995
- 10th Int.Conf. on Higher Education “University Financing” Ankara,Turkey, Sept 5-7,1996
- CRE / IMHE (OECD) Management Seminar, Istanbul, Turkey, April 4-9,1997
- CRE 48th Biannual Conference, Turku, Finland, May 22-24,1997
- CRE /IMHE (OECD) Management Seminar, Aveiro, Portugal April 16-21,1999
- CRE 51st Biannual Conference , Bordeaux, France, May 20-22,1999
- CRE 52nd Biannual Conference , Valencia, Spain, October 28-29,1999
- CRE Management Seminar , Istanbul May 19-23,2000
- OECD Research Management , Experts Meeting, Paris, France , June 8-9, 2000
- OECD Research Management , Learning from Diverse Experience, Tokyo, Japan, Febr.27-28, 2001
- EUA Quality Culture Project, Coordinator of Network 1: Research Management, Sept.2002-May 2003
- OECD, IMHE “Research Management, Institutional Responses to the Changing Environment”, Bonn, 28-31 October 2003
- UNESCO Guidelines on “Quality provision in cross-border higher education”, representative of Turkey, 2004-2005, Paris, 5-6 April 2004 & 18-19 Jan 2005
- UNESCO Second Global Forum on Quality Assurance, Accreditation and the Recognition of Qualifications, Paris, 28-29 June 2004
- EUA, 3rd Convention of European Higher Education Institutions , Glasgow, 31 March-2 April 2005
- World Bank, “Use of Evaluative and Comparative Information in the Management of Tertiary Education Systems” Workshop, Bratislava, Slovak Republic, 16-18 June 2005
- OECD, IMHE , “Trends in Management of Human Resources in HE”, Paris, 25-26 August 2005
- EUA Conference - "Research in European Universities: Strategies and Funding" Uppsala, Sweden, 20-22. 09. 2005

- OECD , CERI “Demography and the Future of Tertiary Education” , Paris, 5-6, 12. 2005
- EUA Conference - "Funding Strong Universities: Diversification, Student Support and Good Governance" Hamburg, Germany, 30.03 - 01. 04. 2006
- OECD , CERI “The future of higher education: the stakeholders’ perspectives ”, Istanbul, Işık University, 22-23. 06. 2006
- OECD, IMHE General Conference “ Values and Ethics: Managing Challenges and Realities in Higher Education, Paris, France, 11-13. 09. 2006
- EUA Autumn conference “European Universities as Catalysts in Promoting Regional Innovation , Brno, Czech Republic, 19-21. 10. 2006
- EUA, Quality Assurance Forum : Embedding quality culture in higher education; München, Germany, 23-25. 11. 2006
- Conference on Higher Education Management and Development in Central, Southern and Eastern Europe, Donau University Krems, Austria, 26-28. 11. 2006 , paper: “Government-University Interfaces, Globalization and Internationalization in Turkey”.
- IAUP Seminar “Quality Assurance in European Higher Education” 19.04.2007, Session II: Chair, Kadir Has University, Istanbul.
- EUA Workshop “Higher Education in Turkey: Trends, Challenges, Opportunities. (Observations on the Higher Education System Based on Seventeen Institutional Evaluation Reports) Istanbul, Turkey, 9-10. 5.2008 and 25.6.2008.
- EUA, 3rd European Quality Assurance Forum: Trends in Quality Assurance , Budapest, Hungary, 20-23. 11. 2008
- MEHEM (Mapping European HE Models) workshop and the presentation: “Governance in Foundation Universities in Turkey” , Uppsala, Sweden, 10-13.06.2009
- EUA 4th European Quality Assurance Forum: Creativity and Diversity Challenges for Quality Assurance Beyond 2010, Copenhagen, Denmark, 19-21.11.2009
- Magna Charta Observatory Conferences on Institutional Autonomy and Academic Freedom at Süleyman Demirel University, Isparta, 18.02.2010; and at Sabancı University, Istanbul, 30. 11.2010

#### **Universities visited as Institutional Evaluation Team Member:**

- University of Las Palmas De Gran Canaria, Spain (1997);
- Vilnius University , Lithuania (2004);
- Dublin Institute of Technology , Ireland (2005);
- University of Bayreuth, Germany (2006);
- Bremen University, Germany (2006);
- Universitat Oberta De Catalunya, Spain (2007);
- University of SS Cyril and Methodius, Slovakia (2007);
- Matej Bel University, Slovakia (2007-2008);
- Johannes Gutenberg University in Mainz, Germany (2008-2009);
- University of Zenica, Bosnia-Herzegovina (2009);
- West University of Timisoara, Romania (2010);
- University of Zagreb, Croatia (2011).

- The University of Trás-Os-Montes and Alto Douro (UTAD), Portugal (2012).
- West University of Timisoara, Romania (2012),
- University "1 December 1918" of Alba Iulia, Romania (2013),
- University of Donja Gorica, Montenegro (2014),
- Goce Delcev University, Macedonia (2014)