

Prof. ALİ OSMAN ÖNCEL

Personal Information

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Biography

I have worked as University Professor of Engineering and a Geophysicist/Seismologist for many years, conducting teaching, administration and research internationally, including work related to risk management of energy production areas and rock physics of energy fields. I have extensive experience in management, organization, teaching, consulting and data collection and interpretation and am comfortable using a variety of software for data processing. Through my work I have gained experience in management, seismicity studies and monitoring for safety of energy and mining fields, seismotectonic analysis for city planning, conducting probabilistic hazard assessment for risk insurance.

For much of my career I have worked as head of department and professional organizations, and an instructor in earthquake seismology, field seismology and 4D seismology, including work at the prestigious [King Fahd University of Petroleum and Minerals](#), and [Alberta University](#) where all instruction is in English; and I am currently working as a Professor of Seismology in Istanbul University since 2010. I feel confident in my ability to clearly communicate the microseismic process to others, including those with little knowledge in this area. My work as an instructor of postgraduate students has helped me develop the skills to guide and support projects while maintaining high standards in organization.

I have pursued a career in University Professor of Geophysics/Seismology and Volunteer Coordinator of University Business World Meeting, Scientific Panels and Conferences, because it is an area of passion and interest to me, and as such I have focused on continual study and collaboration with other scientific and business professionals. It is through this international collaboration that I have developed strong communication skills and the ability to work towards a common goal.

Education Information

Post Doctorate, Agency For Industrial Science And Technology, Active Fault Research Center, Seismology, Japan 2003 - Continues

Post Doctorate, Natural Resources Canada , National Earthquake Hazards Program, Seismology, Canada 2001 - 2003

Post Doctorate, Agency For Industrial Science And Technology, Exploration Geophysics, Rock Physics, Japan 1998 - 1999

Doctorate, Istanbul University, Mühendislik, Yer Fiziği, Turkey 1992 - 1996

Postgraduate, Istanbul University, Mühendislik, Yer Fiziği, Turkey 1989 - 1992

Undergraduate, Istanbul University, Mühendislik, Jeofizik, Turkey 1985 - 1989

Foreign Languages

English, B2 Upper Intermediate

Certificates Courses and Trainings

Certificates, Courses and Trainings

Education Management and Planning, Emlak Danışmanlığı, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2019
Education Management and Planning, Bina ve Site Yönetimi, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2019
Education Management and Planning, Fotoğraf Çekimi, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2018
Education Management and Planning, Kentsel Dönüşüm, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2017
Education Management and Planning, Diksiyon, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2017
Foreign Language, Academic Reading, Grant McEwan University, 2010
Foreign Language, Grammar Mechanics of English, NorQuest College, 2008
Foreign Language, General English, NorQuest College, 2008

Dissertations

Doctorate, Fraktal analiz ile Türkiye'deki doğrultu atımlı fayların yapısal ve sismolojik özelliklerinin belirlenmesi, İstanbul University, Jeofizik Mühendisliği, Sismoloji Anabilim Dalı, 1996
Postgraduate, Kuzey Anadolu fay zonunda depremlerin istatistiksel analizi, İstanbul University, Jeofizik Mühendisliği, Sismoloji, 1992

Research Areas

Geophysical Engineering, Seismology, Earthquake Seismology, Applied Geophysics, Search Seismology, Engineering and Technology

Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Jeofizik, 2019 - Continues
Professor, İstanbul University, Mühendislik, Jeofizik, 2010 - 2019
Research Assistant PhD, University of Alberta, Physics, Geophysics, 2008 - 2010
Associate Professor, King Fahd University Of Petroleum And Minerals, Science, Earth Sciences, 2004 - 2008
Associate Professor, İstanbul University, Mühendislik, Jeofizik, 2000 - 2006
Research Assistant PhD, İstanbul University, Mühendislik, Jeofizik, 1996 - 2000
Research Assistant, İstanbul University, Mühendislik, Jeofizik, 1990 - 1996

Academic and Administrative Experience

İstanbul University, Mühendislik, 2011 - 2014
İstanbul University, Mühendislik, Mühendislik Bilimleri, 2011 - 2014

Courses

Global Seismology, Doctorate, 2020 - 2021
General Geophysics, Undergraduate, 2020 - 2021
Advanced Seismology, Postgraduate, 2019 - 2020
Statistical Seismology, Postgraduate, 2020 - 2021
Statistical Seismology , Undergraduate, 2014 - 2015, 2015 - 2016

Rock Physics and 4D Seismology, Doctorate, 2015 - 2016
Field Seismology , Undergraduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016
Special Topics in Engineering Sciences , Postgraduate, 2013 - 2014, 2015 - 2016
4D Seismology, Postgraduate, 2014 - 2015
Earthquake Engineering, Doctorate, 2014 - 2015
Rock Physics and 4D Seismology, Doctorate, 2014 - 2015
Earthquake Engineering, Postgraduate, 2013 - 2014
Earthquake Engineering, Postgraduate, 2012 - 2013
Global Seismology, Postgraduate, 2011 - 2012

Advising Theses

ÖNCEL A. O. , Fractal Analysis of Active Fault Data In The San Andreas and The North Anatolian Fault Zones, Principal supervisor. Tezin Linki: <https://www.slideshare.net/oncel/kuzey-adolu-ve-san-andreas-fay-zonlarinda-aktf-fay-verlernn-fraktal-analz-56949495>, Postgraduate, E.AYDINDAĞ(Student), 2015

ÖNCEL A. O. , Applications of Construction Geophysics For The Determination of Risky Areas, Tezin Linki: <https://www.slideshare.net/oncel/riskli-alanlarn-belirlenmesinde-yaplama-jeofizii>, Postgraduate, S.TEMEL(Student), 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Anomalous seismicity preceding the 1999 Izmit event, NW Turkey**
Oncel A. O. , WILSON T.
GEOPHYSICAL JOURNAL INTERNATIONAL, vol.169, no.1, pp.259-270, 2007 (Journal Indexed in SCI)
- II. **Evaluation of earthquake potential along the Northern Anatolian Fault Zone in the Marmara Sea using comparisons of GPS strain and seismotectonic parameters**
Oncel A. O. , WILSON T.
TECTONOPHYSICS, vol.418, pp.205-218, 2006 (Journal Indexed in SCI)
- III. **Correlation of seismotectonic variables and GPS strain measurements in western Turkey**
Oncel A. O. , WILSON T.
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.109, 2004 (Journal Indexed in SCI)
- IV. **Precursory seismicity changes associated with the M-w=7.4 1999 August 17 Izmit (Turkey) earthquake**
HUANG Q., Oncel A. O. , SOBOLEV G.
GEOPHYSICAL JOURNAL INTERNATIONAL, vol.151, no.1, pp.235-242, 2002 (Journal Indexed in SCI)
- V. **Space-time correlations of seismotectonic parameters: Examples from Japan and from Turkey preceding the Izmit earthquake**
Oncel A. O. , WILSON T.
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.92, no.1, pp.339-349, 2002 (Journal Indexed in SCI)
- VI. **Size scaling relationships in the active fault networks of Japan and their correlation with Gutenberg-Richter b values**
Oncel A. O. , WILSON T., NISHIZAWA O.
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.106, pp.21827-21841, 2001 (Journal Indexed in SCI)
- VII. **Probabilistic seismic hazard maps for the Japanese islands**
KIJKO A., Oncel A. O.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.20, pp.485-491, 2000 (Journal Indexed in SCI)
- VIII. **The major asperities of the 1999 M-w=7.4 Izmit earthquake defined by the microseismicity of the two decades before it**
Oncel A. O. , Wyss M.

GEOPHYSICAL JOURNAL INTERNATIONAL, vol.143, no.3, pp.501-506, 2000 (Journal Indexed in SCI)

- IX. **Effect of aftershocks on earthquake hazard estimation: An example from the North Anatolian Fault Zone**
Oncel A. O. , ALPTEKIN O.
NATURAL HAZARDS, vol.19, no.1, pp.1-11, 1999 (Journal Indexed in SCI)
- X. **The Dinar earthquake (M-w = 6.2; October 1, 1995; Afyon-Turkey) and earthquake hazard of the Dinar-Civril fault**
Oncel A. O. , KORAL H., ALPTEKIN O.
PURE AND APPLIED GEOPHYSICS, vol.152, no.1, pp.91-105, 1998 (Journal Indexed in SCI)
- XI. **Spatial variations of the fractal properties of seismicity in the Anatolian fault zones**
Oncel A., Main I., Alptekin O., Cowie P.
TECTONOPHYSICS, vol.257, pp.189-202, 1996 (Journal Indexed in SCI)
- XII. **Temporal variations in the fractal properties of seismicity in the North Anatolian Fault Zone between 31 degrees E and 41 degrees E**
Oncel A., Main I., Alptekin O., Cowie P.
PURE AND APPLIED GEOPHYSICS, vol.147, no.1, pp.147-159, 1996 (Journal Indexed in SCI)
- XIII. **Temporal variations of the fractal properties of seismicity in the western part of the north Anatolian fault zone: possible artifacts due to improvements in station coverage**
Oncel A. O. , Alptekin O., Main I.
NONLINEAR PROCESSES IN GEOPHYSICS, vol.2, pp.147-157, 1995 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **KENTSEL DÖNÜŞÜMDE YAPILAŞMA JEOFİZİĞİ VE SOSYAL RİSK BOYUTUNUN DEĞİŞİMİ**
TEMEL S., ÖNCEL A. O. , EBRU A.
KENTSEL DÖNÜŞÜMÜN SOSYAL BOYUTU SEMPOZYUMU, İstanbul, Turkey, 12 May 2015, pp.130-139
- II. **KENTSEL DÖNÜŞÜMDE RİSKLİ ALANLARIN İZLENMESİNDE SOSYAL KATILIM 101 DEPREM EVİ PROJESİ**
EBRU A., ÖNCEL A. O. , TEMEL S.
KENTSEL DÖNÜŞÜMÜN SPSYAL BOYUTU SEMPOZYUMU, İstanbul, Turkey, 12 May 2015, pp.120-129
- III. **YEREL YÖNETİMLERDE YEREL RİSK YÖNETİMİ**
ÖNCEL A. O.
YEREL YÖNETİMLERDE İŞ SAĞLIĞI VE GÜVENLİĞİ SEMPOZYUMU, İstanbul, Turkey, 09 May 2015, pp.95-98
- IV. **KENT ODAKLI DEPREM RİSK YÖNETİMİ VE İLKELERİ**
ÖNCEL A. O.
13 MART 1992 ERZİNCAN DEPREMİ YILDÖNÜMÜ VE DEPREM, İstanbul, Turkey, 13 March 2015

Citations

Total Citations (WOS):337

h-index (WOS):11

Non Academic Experience

Non-profit Organisation, Mimar Mühendisler Grubu

Other Public Institution, Tmmob İstanbul Jeofizik Şubesi, Jeofizik