

Prof.Dr. Şeref SOYLU

Kişisel Bilgiler

Doğum Yılı: 1968

Doğum Yeri: Kayseri

İş Telefonu: [+90 262 303 3449](tel:+902623033449)

E-posta: seref.soylu@kocaeli.edu.tr

Web: <https://avesis.kocaeli.edu.tr/seref.soylu>

Posta Adresi: Kocaeli Üniversitesi, Mühendislik Fakültesi,
Makine Mühendisliği Bölümü Umuttepe Kampüsü - Kocaeli



Biyografi

Dr. Soylu was born in 1968, in Kayseri, Turkey. After receiving his B.S. degree from Gazi University in 1988, he worked as Internal Combustion Engine Instructor for the Ministry of National Education and National Defense in Turkey until 1994. Then, he went to Iowa State University, U.S.A. for his M.S. and Ph.D education in Mechanical Engineering under supervision of Prof. Dr. Jon Van Gerpen. His M.S. and Ph.D. research works focused on alternative fuels (natural gas and bio-diesel) for internal combustion engines, emission measurement, thermodynamic engine modeling and autoignition modeling that were supported by John Deere Product Engineering Center, and many other Industrial and State organizations in the US. Through end of his Ph.D. study, Dr. Soylu worked for Caterpillar Inc. as an Analytical Engineer in Peoria, IL for the development of the advanced diesel engines from 2000 to 2001. After receiving his Ph.D. degree in 2001, Dr. Soylu joined to Sakarya University, Turkey as an Assistant Professor.

His research works at Sakarya University centered on the development of environmentally friendly road transport vehicles by means of improving the efficiency and reducing emissions. He performed research specifically on alternative fuels (natural gas, bio-diesel, bio-gas, and hydrogen) and advance engine/vehicle technologies. The courses that he taught were mainly thermal science courses which were Thermodynamics, Heat Transfer, Air Pollution and Control.

As Dr. Soylu was selected as independent expert by European Commission in the field of Energy and Transport in 2003, he started evaluating and reviewing the FP6 and FP7 projects on behalf of the European Commission. Then Dr. Soylu moved to Italy to work as a Senior/Visiting Scientist in the Joint Research Center of European Commission for a year from November 2004 to November 2005 to provide technical and scientific support to the European Commission for their legislative works. His work, in the Joint Research Center, focused on fuels and additives for internal combustion engines, portable emission measurement systems, and small engines.

After returning to Sakarya University, he clearly indicated his vision and leadership qualities as he coordinated a collaborative research project, that is Sakarya Air Quality Protection and Improvement (SAHAKK-I), with partners from Industry, Sakarya Municipality and Sakarya Governorship to solve real world Transport and Air Pollution problems of Sakarya. The overall goal of SAHAKK-I research project was to provide technical and scientific support to the policymakers and relevant stakeholders for sustainable development. After that he became an Associate Professor of Sakarya University and his scientific and leadership qualities were further strengthened as he coordinated the Hybrid City Bus project in which the first Hybrid City Bus of Turkey was developed and tested under real world urban driving conditions. During this period, he has supervised many graduate students, all of whom have completed their M.S. degrees, and produced several peer-reviewed publications.

Dr. Soylu was promoted to full professor and department head position at Bilecik S. Edebalı University in 2015. He had

been appointed various administrative duties such as Department Head, Member of Faculty Administration Committee and Member University Administration Committee. His research in Bilecik S. Edebali University mostly focused on multidisciplinary research projects which focus on the development of particle filters for Internal Combustion Engines. Starting from spring 2020 semester, he has been a faculty of Kocaeli University. He is currently a teaching thermal science courses and performing research on mainly IC Engines and Hybrid Vehicles.

As a result, Dr. Soylu has the expertise, leadership, training, and motivation necessary to successfully carry out energy and automotive related research projects and teach thermal science courses. He has a broad background in mechanical engineering, with specific training and expertise in thermal science and automotive engineering.

Eđitim Bilgileri

Doktora, Iowa State University of Science and Technology, Engineering Faculty, Mechanical Engineering, Amerika Birleşik Devletleri 1996 - 2001

Yüksek Lisans, Iowa State University of Science and Technology, Engineering Faculty, Mechanical Engineering, Amerika Birleşik Devletleri 1994 - 1996

Lisans, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Otomotiv, Türkiye 1984 - 1988

Yabancı Diller

İngilizce, C2 Yeterlilik

Araştırma Alanları

Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2020 - Devam Ediyor

Prof.Dr., Bilecik Şeyh Edebali Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2015 - 2020

Doç.Dr., Sakarya Üniversitesi, Mühendislik Fakültesi, 2008 - 2015

Yrd.Doç.Dr., Sakarya Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2005 - 2008

Yrd.Doç.Dr., Avrupa Komisyonu Ortak Araştırma Merkezi, Çevre ve Sürdürülebilirlik Enstitüsü, 2004 - 2005

Yrd.Doç.Dr., Sakarya Üniversitesi, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, 2001 - 2004

Araştırma Görevlisi, Iowa State University of Science and Technology, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1994 - 2001

Mesleki Deneyim

Anabilim/Bilim Dalı Başkanı, Kocaeli Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2020 - Devam Ediyor

Üniversite Yönetim Kurulu Üyesi, Bilecik Şeyh Edebali Üniversitesi, Mühendislik Fakültesi, Makine Ve İmalat Mühendisliği Bölümü, 2015 - 2020

Bölüm Başkanı, Bilecik Şeyh Edebali Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2015 - 2018

Verdiği Dersler

İçten Yanmalı Motorlar, Lisans, 2019 - 2020

Otomotiv Mühendisliği - Temel Teknolojiler, Yüksek Lisans, 2020 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Microstructural Characterization, Mechanical, Physical and Thermal Properties of a Diesel Particulate Filter**
Acikbas N. C. , Ture Y., Gurlek E., Ozcan S., Soylu Ş., Acikbas G., Gudu T.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.43, ss.1383-1394, 2018 (SCI İndekslerine Giren Dergi)
- **Development of PN emission factors for the real world urban driving conditions of a hybrid city bus**
Soylu Ş.
APPLIED ENERGY, cilt.138, ss.488-495, 2015 (SCI İndekslerine Giren Dergi)
- **The effects of urban driving conditions on the operating characteristics of conventional and hybrid electric city buses**
Soylu Ş.
APPLIED ENERGY, cilt.135, ss.472-482, 2014 (SCI İndekslerine Giren Dergi)
- **EXAMINATION OF PN EMISSIONS AND SIZE DISTRIBUTIONS OF A HYBRID CITY BUS UNDER REAL WORLD URBAN DRIVING CONDITIONS**
Soylu Ş.
INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, cilt.15, ss.369-376, 2014 (SCI İndekslerine Giren Dergi)
- **COMPARISON OF OPERATING CHARACTERISTICS OF CONVENTIONAL, DIESEL-ELECTRIC AND HYBRID-ELECTRIC CITY BUSES UNDER REAL WORLD URBAN DRIVING CONDITIONS**
Soylu Ş.
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, cilt.34, ss.143-154, 2014 (SCI İndekslerine Giren Dergi)
- **EXAMINATION OF THE BRAKING ENERGY RECOVERY POTENTIALS OF A CITY BUS UNDER URBAN DRIVING CONDITIONS**
Soylu Ş.
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, cilt.34, ss.39-47, 2014 (SCI İndekslerine Giren Dergi)
- **Estimation of Turkish road transport emissions**
Soylu Ş.
ENERGY POLICY, cilt.35, ss.4088-4094, 2007 (SCI İndekslerine Giren Dergi)
- **Fueling direct injected diesel engines with 2% biodiesel blend**
Schumacher L., Soylu Ş., Van Gerpen J., Wetherell W.
APPLIED ENGINEERING IN AGRICULTURE, cilt.21, ss.149-152, 2005 (SCI İndekslerine Giren Dergi)
- **Examination of combustion characteristics and phasing strategies of a natural gas HCCI engine**
Soylu Ş.
ENERGY CONVERSION AND MANAGEMENT, cilt.46, ss.101-119, 2005 (SCI İndekslerine Giren Dergi)
- **Prediction of knock limited operating conditions of a natural gas engine**
Soylu Ş.
ENERGY CONVERSION AND MANAGEMENT, cilt.46, ss.121-138, 2005 (SCI İndekslerine Giren Dergi)
- **Development of empirically based burning rate sub-models for a natural gas engine**
Soylu Ş., Van Gerpen J.

ENERGY CONVERSION AND MANAGEMENT, cilt.45, ss.467-481, 2004 (SCI İndekslerine Giren Dergi)

- **Development of an autoignition submodel for natural gas engines**

Soylu Ş., Van Gerpen J.

FUEL, cilt.82, ss.1699-1707, 2003 (SCI İndekslerine Giren Dergi)

- **The speed of sound and isentropic bulk modulus of biodiesel at 21 degrees C from atmospheric pressure to 35 MPa**

Tat M. E. , Van Gerpen J. H. , Soylu Ş., Canakci M., Monyem A., Wormley S.

JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY, cilt.77, ss.285-289, 2000 (SCI İndekslerine Giren Dergi)

Bilimsel Danışmalıklar

Tubitak MAM, TÜLOMSAŞ, Bilimsel Projeler İçin Yapılan Danışmanlık, Kocaeli Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Türkiye, 2018 - Devam Ediyor

Atıflar

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