

ÇEVRE TEMALI REFERANS MALZEMELER ÇALIŞTAYI

KONUŞMACILARI

16.05.2018 – TÜBİTAK UME
TÜBİTAK GEBZE YERLEŞKESİ



Dr. Süleyman Z. Can – TÜBİTAK UME - Türkiye

Lisans eğitimini Orta Doğu Teknik Üniversitesi (ODTÜ) Eğitim Fakültesi Kimya Öğretmenliği Bölümü'nde 1999 yılında tamamlamıştır. 1999 - 2002 yılları arasında aynı üniversitenin Kimya Bölümü'nde 'Atomik Spektrometri İle Sırlı Ortaçağ Anadolu Seramikleri Üzerine Çalışmalar' konulu teziyle Prof. Dr. O. Yavuz ATAMAN danışmanlığında yüksek lisans çalışması yapan Can, aynı dönemde üniversitede araştırma görevlisi olarak görev yapmıştır. Can, 2003 yılında ABD University of Maryland'de doktora öğrenimine başlamış ve 'Su/Hava Arayüzeyindeki Organik Tekkatmanlarda Moleküler Yapı ve Organizasyon' konulu tezini Profesör Robert A. Walker yönetiminde 2008 yılında tamamlayarak mezun olmuştur. 2008 - 2010 yılları arasında National Institute of Standards and Technology (NIST, Gaithersburg, Maryland, ABD) kurumunda doktora sonrası çalışması yapan Can'ın yüzey fiziksel kimyası alanında yayınlanmış beş adet bilimsel makalesi vardır. Can, 2010 yılında TÜBİTAK UME Kimya Grubu Laboratuvarları'nda çalışmaya başlamış ve IPA projesi kapsamında Kasım 2010 - Ekim 2011 tarihleri arasında Institute for Reference Materials and Measurements (IRMM, Geel, Belçika) kurumunda uzun süreli eğitim almıştır.

Dr. CAN 2017 yılından bu yana Kimya Grubu'ndan sorumlu Esntitü Müdür Yardımcılığı görevini yürütmektedir.



Dr. Alper İşleyen - TÜBİTAK UME - Türkiye

Orta Doğu Teknik Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü'nden 1998 yılında mezun olmuştur. Aynı yıl ODTÜ Fen-Bilimleri Enstitüsü'nde organik kimya alanında yüksek lisans çalışmalarına başlamış ve 2001 yılında tamamlamıştır. Aynı yıl, aynı bölümde doktora çalışmalarına başlamış ve çalışmalarını 2007 yılında bitirmiştir. 1998-2005 yılları arasında ODTÜ Fen-Edebiyat Fakültesi Kimya Bölümü'nde araştırma görevlisi olarak görev yapmış ve 2008 yılında Washington State Üniversitesi (ABD) Kimya Bölümü'nde doktora sonrası araştırmacı olarak çalışmıştır. 2009 yılında TSK Kara Kuvvetleri Komutanlığı 1. Ordu (İstanbul) Gıda Kontrol Müfreze Komutanlığında Kimyasal Analiz Uzmanı olarak vatani görevini gerçekleştirmiştir. 2010 yılında TÜBİTAK UME Kimya Grubu Laboratuvarları'nda uzman araştırmacı olarak çalışmaya başlamıştır. 2012 yılında Avrupa Komisyonu JRC IRMM Enstitüsü'nde (Belçika) referans malzeme üretimi ve sertifikalandırılması konusunda eğitim almış ve çalışmalar yürütmüştür. 2013 yılından bugüne laboratuvar sorumlusu olarak TÜBİTAK UME Kimya Grubu Referans Malzemeler Laboratuvarında görev yapmaktadır. Dr. İşleyen 2015 yılında başlayan ve UFUK 2020 kapsamında AB'den fonlanan, 8 ülkeden 9 ortağın bulunduğu ENVCRM "Çevresel Ölçümler için Matriks Referans Malzemeler" projesinin koordinatörlüğünü yürütmektedir.

Dr. Alper İşleyen'in yayınlanmış 6 uluslararası araştırma, 1 derleme makalesi ve 7 sertifikalandırma raporu mevcuttur.



Prof. Dr. Milena Horvat – IJS - Slovenya

She is the Head of the Department of Environmental Sciences, www.environment.si, (since 1997) of the Jožef Stefan Institute and a Dean of the International Postgraduate School Jožef Stefan – www.mps.si (since 2016). She was a coordinator of the Center of Excellence of Environmental Technologies (2004-2009) and currently coordinates two EU projects: 1) ERA Chair Iso-food (Isotopic techniques in food safety, security and traceability) (2014-2019), www.isofood.eu, and 2) MASSTWIN (Spreading Excellence in widening participation in support of mass spectrometry and related techniques in health, Environment and Food Analysis) (2016-2019)- www.masstwin.eu. Her recently awarded EURAMET project MercOx “Traceability of oxidized mercury measurements” (2017-2020) also falls into her main domain of interest in analytical chemistry. Her main expertise is related to mercury research activities which are interdisciplinary and cover the areas of analytical chemistry, human health with a focus on exposure science, contaminated sites, marine environment, and lately also clean technologies and sensor development. Based on her basic training and education as analytical chemist, she developed and significantly contributed to standardisation and harmonisation of analytical methods and production of reference materials. By this she contributed to international comparability of data on a global scale.



Dr. Jochen Vogl - BAM - Almanyanya

- Born 1967 in Regensburg, Germany, married in 1993
- Abitur in 1986 in Regensburg, Germany (academic high school diploma)
- Military service (1987-1988) in Munich, Germany
- Study of chemistry at the University of Regensburg (1988-1994)
- Research associate in Analytical Chemistry at the Universities of Regensburg and Mainz, both Germany, (1994-1997) in the group of Klaus G. Heumann
- Doctoral thesis "Charakterisierung und Quantifizierung von Schwermetall/Huminstoff-Species durch HPLC-ICPMS"
- Awarded Dr. rer. nat. in 1997 at the University of Regensburg
- Marie-Curie fellowship at the Institute for Reference Materials and Measurements (IRMM) in Geel, Belgium (1998-1999) in the group of Philipp Taylor and Paul De Bièvre
- Since 2000 working at BAM, Berlin, Germany, in the field of elemental and isotope mass spectrometry

Research topics

- Elemental mass spectrometry with focus on ICPMS and TIMS
- Quantification of elements and element species by Isotope Dilution Mass Spectrometry (IDMS)
- Applying IDMS on highest metrological level for reference measurements
- Isotopic variation as tool for studying origin and provenance of specific samples (e.g. food, artifacts)
- Production and certification of isotope reference materials

Selected Publications

Brand WA, Coplen TB, Vogl J, Rosner M, Prohaska T, *Assessment of International Reference Materials for Isotope Ratio Analysis (IUPAC Technical Report)*, Pure Appl. Chem. 86 (2014) 425-467

Vogl J, Paz B, Völling E, Koenig M, Pritzkow W, *A modified lead-matrix-separation procedure shown for lead isotope analysis in Trojan silver artefacts as an example*, Anal Bioanal Chem, 405 (2013) 2995-3000

Vogl J, Rosner M, *Production and Certification of a Unique Set of Isotope and Delta Reference Materials for Boron Isotope Determination in Geochemical, Environmental and Industrial Materials*, Geostand. Geoanal. Res., 36 (2012) 161-175

Vogl J, Pritzkow W, *Isotope reference materials for present and future isotope research*, J. Anal. At. Spectrom., 25 (2010) 923-932

Knobbe N, Vogl J, Pritzkow W, Panne U, Fry H, Lochotzke HM, Preiß-Weigert A, *C and N Stable Isotope Variation in Urine and Milk of Cattle depending on the Diet*, Anal. Bioanal. Chem., 386 (2006) 104-108



Dr. Noora Perkola - SYKE – Finlandiya

(PhD, Environmental Sciences; MSc, Analytical chemistry) is a chemist in Finnish Environment Institute. She is an experienced researcher in environmental field with main focus on legacy and emerging organic pollutants, analytical chemistry, metrology, and project coordination and management. She has received funding from ministries, foundations, companies and the EU. Currently one of the main tasks is leading an EU project called CWPharma, where 15 partner organizations tackle the emissions and impacts of pharmaceuticals in the Baltic Sea Region. Dr Perkola has published 8 reports and 12 articles in national and international journals, and is a referee in several peer-reviewed journals.



Dr. Radojko Jaćimović - IJS - Slovenya

Born on 3 September 1961, in Kostenica, Montenegro. He graduated in Physics in 1985 at the Veljko Vlahović University in Titograd, and finished his M. Sc. in 1999 and Ph. D. in 2003, also in Physics, at the University of Ljubljana, Slovenia. From 1986 to 1987 he was employed at Nikšić High School as a Teacher in Physics and since 1987 he has been employed at the Jožef Stefan Institute (JSI) as a Research Assistant. In 2004 he became a Research Associate and in 2010 a Senior Researcher at the JSI. His main activities were connected with the use of the k_0 -standardization method of neutron activation analysis (k_0 -NAA) for determination of major and micro elements in different matrices, development of nuclear and nuclear-related analytical methods, working on effective utilization of the Institute's TRIGA Mark II research reactor for short, medium and long-lived radionuclides and on certification of natural matrix reference materials from Institutions or Laboratories (IRMM, NIST, IAEA, BAM, etc.). He is author or co-author of over 140 scientific papers in international journals.

In 2009 CDTN/CNEN, Belo Horizonte, Brazil, honoured him for supporting the Neutron Activation Group to re-establish and improve the k_0 -standardization method of NAA at CDTN. In 2012 he received an honorary doctorate at the Odessa National Polytechnic University, Ukraine.



Prof. Maria Ochsenkühn-Petropoulou - NTUA - Yunanistan

She is Chemical Engineer and received her Diploma and PhD degrees at the Technical University of Berlin.

Since then she has been Professor at the School of Chemical Engineering of the Technical University of Athens, teaching instrumental methods of analysis, environmental control and advanced inorganic chemistry to graduate and postgraduate students at NTUA and has published 14 educational books.

She has published over 270 peer-reviewed scientific papers in international journals and proceedings of international and Greek conferences with more than 700 citations. Furthermore she has been scientific responsible in 45 national and European research and educational projects. She is/was the supervisor of 11 PhD and over 100 Diploma and Post-graduate Theses.

She was visiting Professor at several Universities and Research Institutes abroad (Germany, France, Poland) and cooperated/cooperates as consultant with different industries, as Bayer, Procter&Gamble, Aluminium of Greece, II-VI incorporated etc. Furthermore, she was Vice-President of the Organization for Vocational Education and Training of the Greek Ministry of Education and National Representative of the program “Measurements and Testing” of EU.

She has established since 1999 until now from the position of President the International Conference series **IMA** (Instrumental Methods of Analysis – Modern Trends and Applications), which bring together in Greece every 2 years the most important worldwide known scientists in Instrumental Chemical Analysis.

Prof. Maria Ochsenkühn with her team have an over 25 years experience in related to the current project scientific fields, as speciation of toxic compounds of arsenic, tin and selenium in environmental, biological samples and food. She participated in several international working groups for the preparation of certified reference materials in the framework of EU projects. Furthermore, she is involved in aerosol metrology and airborne particulate research and she has a long experience in trace element analysis by voltammetric, spectroscopic and hyphenated chromatographic techniques.

Nowadays she is Scientific Responsible for the following three European Research Projects:

- 1. ENVCRM: Matrix reference materials for environmental analysis (EC , EURAMET, EMPIR)**
- 2. SCALE: Production of scandium compounds and scandium aluminum alloys from European metallurgical by-products (EC, Horizon 2020)**
- 3. AEROMET: Aerosol Metrology for Atmospheric Science and Air Quality (EC, EURAMET, EMPIR)**