İTÜ İnşaat Fakültesi Seminerleri

Sustainable Geotechnics

Date: 20.12.2018, Thursday

Time: 12.30

Room: Civil Engineering Conference Hall

Large volumes of earthen materials are used in geotechnical construction each year in the world. In many cases, these materials can be replaced with suitable solid waste and industrial byproducts that are normally disposed in landfills. Legislations have been promulgated in many countries that remove barriers to large-scale beneficial reuse of industrial by-products. Reuse in construction has several benefits, including reduction in solid waste disposal costs incurred by industry, reduction in landfill requirements, minimization of damage to natural resources caused by excavating earthen materials for construction. obtaining added value from waste

materials, conservation of production energy, and ultimately providing sustainable construction and economic growth. On the other hand, leaching of undesired compounds from the industrial byproducts has always been the primary concern for designers and engineers. This issue becomes more critical if recycled materials are used in critical applications or in construction of roadway at the vicinity of groundwater and surface waters. This seminar will profile several applications of recycled materials in geotechnical construction. The seminar will highlight the holistic approach, including the mechanical, environmental, geochemical, economic, as well as field and model-based approach to material utilization in such applications.



Prof. Dr. Aydilek, lisans derecesini 1993 yılında İstanbul Teknik Üniversitesi'nde, doktora derecesini ise 2000 yılında Wisconsin-Madison Üniversitesinde tamamladı. Halen Maryland Üniversitesi-College Park İnşaat Mühendisliği'nde öğretim üyesi olan Prof. Aydilek 130'un üzerinde çalışma yayınlamış, özel sektör ve devlet kurumları adına 40'in üzerinde araştırma projesi tamamlamış, ve bu alanlardaki katkılarından dolayi Amerika İnşaat Mühendisleri Odası (ASCE)'ndan Walter Huber Araştırma (2011), Wellington (2006), Collingwood (2006), Arthur Casagrande (2006), ve Mühendislik Başarı (2002) Ödülleri ve Uluslararası Geosentetik Topluluğu'ndan IGS Araştırma Madalyası (2006), Üstün Makale (2013) ve Üstün Başarı (2004) Ödülleri almıştır. Lanzhou Institute of Technology'de misafir ogretim üyesi de olan Prof. Aydilek çeşitli teknik toplulukların aktif bir üyesidir ve halen Geosynthetics International (IGS) ve Journal of Geotechnical and Geoenvironmental Engineering dergilerinin Alan Editor'lüğünü yapmaktadır.