ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ΠΟΛΥΤΕΧΝΙΚΗ ΣΧΟΛΗ
ΤΜΗΜΑ ΧΗΜΙΚΩΝ ΜΗΧΑΝΙΚΩΝ

Καθηγητής Στέργιος Γιάντσιος

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Θεσσαλονίκη, 14 Μαΐου 2024

ΠΡΟΣΚΛΗΣΗ ΔΙΑΛΕΞΗΣ

Την Παρασκευή **17 Μαΐου** και ώρα **12:00** στην αίθουσα Συνελεύσεων (ισόγειο κτιρίου Δ) θα δοθεί διάλεξη από τον καθηγητή **Barış Şimşek** με θέμα:

Polymer-based Sensors and Their Application in Chemical Engineering

Barış Şimşek
Çankırı Karatekin University, Faculty of Engineering
Chemical Engineering Department, Uluyazı Campus/ Turkey

Abstract: Sensors make life easier in many areas, such as monitoring human health with wearable electronic devices, chemical sensors for monitoring poisonous or toxic gases, and vibration sensors for monitoring the health of buildings, and the interest in sensors is growing every day. While polymers provide sensors with flexibility, stretchability, chemical resistance, and pliability, they also increase sensitivity performance of sensors. In this presentation, the preparation, characterization, design and application areas of polymer-based sensors will be discussed. It also aims to mention the main roles of polymers in sensor technology and the design of ultra-sensitive sensors.

Barış Şimşek Short Biosketch

Engineer, lecturer, and researcher with 15+ years of experience teaching courses at both undergraduate and postgraduate levels. Supervised 25+ BSc theses, 6 MSc theses, and 4 Ph. D. dissertations. Managed 1 international (COST action) and 10+ national projects. Published over 40 articles in SCI-indexed Q1 and Q2 journals on industrial statistics, optimization, design of experiments, and smart nanocomposites.