CEAC

COMPOSITES ENGINEERING AND APPLICATIONS CENTER (CEAC)

AT UNIVERSITY OF HOUSTON

SHORT COURSE ON

High-Performance Engineering Thermoplastic Polymers and Composites for Tribological Applications

9:00am – 4:30pm, Friday, May 4, 2018

Room 110, Building 4, UH Energy Research Park, University of Houston
5000 Gulf Freeway, Houston, TX 77023

The objective of the short course is to address recent advances on modern high-performance engineering thermoplastic polymers and composites used for tribological applications in the energy industry. The short course features a series of lectures from prominent experts in their fields followed by a general discussion on each presentation. The lectures in the short course provide deep insight to material processing, morphology, microstructure, thermal and mechanical properties related to their tribological performance. The knowledge will enable further advances in the areas of materials development, design, manufacturing, and prediction and testing of tribological performance. The short course contains the following structured program:

8:30am – 8:45am	**Coffee and Check-in**
8:45am – 9:00am	**Introduction to the Short Course**
9:00am – 10:30am	**Lecture and Discussion 1** William E. Sattich, Solvay *"Polyphenylene Sulfide (PPS) Polymers and Composites"*
10:30am – noon	**Lecture and Discussion 2** Andy Chang, Vitrex Polymer Solutions *"Polyether Ether Ketone (PEEK) Engineering Thermoplastics for Energy Applications"*
12:15pm – 1:30pm	**Lunch**
1:30pm – 3:00pm	**Lecture and Discussion 3** Lorenzo P. DiSano, Ensinger *"Ultra-high Temperature Thermoplastics for Oil and Gas Sector: Incompatible Synergistic Blend of PEEK/PBI (Celazole T Series)"*
3:00pm – 4:30pm	**Lecture and Discussion 4** S.S. Wang, CEAC-UH *"Multi-axial Yielding, Plastic Flow and Failure of PEEK Polymer and PTFE/PEEK Composite"*
4:30pm	**Adjournment**

REGISTER ONLINE:
https://www.egr.uh.edu/forms/ceac/short-course-high-performance-engineering-thermoplastic-polymers-and-composites