

# Western Engineering Distinguished Lecture Series

Thursday, November 18

1:00 pm—2:00 pm

Spencer Engineering Building, Room 1059

Dr. Hamid Arastoopour  
Max McGraw Professor of Energy,  
Environment and Economics  
and Dean, Armour College of  
Engineering, Illinois Institute of  
Technology, Chicago, Illinois (USA)



## **“Solid State Shear Extrusion (SSSE) –Pulverization and Recycling Process for Polymers and Rubber”**

Used tires and polymers represent one of the major solid waste streams. To recycle or dispose of this waste in a manner that is economically feasible and environmentally acceptable remains a continuous challenge requiring further research and development.

In this presentation, a novel rubber recycling process based on IIT’s patented Solid State Shear Extrusion (SSSE) pulverization technology will be discussed. The SSSE process is expected to be more economical than current disposal processes while producing environmentally acceptable rubber materials with properties similar to the original rubber, using no chemical compounds during the recycling process.

