



Departments of Petroleum and Mechanical Engineering  
Tulsa University Separation Technology Projects  
( T U S T P )

Faculty: Ovadia Shoham, Ram Mohan, Luis Gomez, Shoubo Wang  
Students: Graduate: Daniel Brito, Orkun M. Er, Mehmet Karaaslan, Hui Li, Jose Lopez, Jose Moncayo, Hung Nguyen, Haitham Othman, Jesus Pacheco, Veronica Parra, Eduardo Pereyra, Iliana Sayago, Flavia Viana  
Undergraduate: Laura Morgan, Orel Shoham, Jayanth Subramanian  
Project Coordinator: Judy Teal  
Visiting Scholar: Luis Alabuella, Ecuador

### **TUSTP 31<sup>st</sup> Advisory Board Meeting**

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**Date: Tuesday, November 17, 2009**

12:00 Business Meeting & Lunch (*ACAC Conference Room*)  
3:00 Tour of Facilities (*TU North Campus, Lewis & Marshall*)  
6:30 Reception/Dinner (*Parkview Ballroom-DoubleTree Hotel-Warren Place*)

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**Date: Wednesday, November 18, 2009**

(*Tulsa Theatre Learning Room-DoubleTree Hotel-Warren Place*)

**Agenda:**

8:00 Continental Breakfast  
8:30 Introductory Remarks (O. Shoham)  
9:00 Modeling Integrated Compact Multiphase Separation System (CMSS<sup>®</sup>) (E. Pereyra)  
9:45 Falling Film and Jet Entrainment Phenomena in Vertical Pipes (J. Lopez)  
10:30 *Coffee Break*  
10:45 Modeling and Application of Differential Dielectric Sensor (DDS) (H. Li)  
11:30 Dispersion Characterization Rig (DCR) – Overview (L. Gomez)  
12:00 *Luncheon (Salon CD)*  
1:15 TUSTP Updates (R. Mohan)  
1:45 TU-CoRE Project: Oil Chemistry in Dispersions/Emulsions (DCR) (M.V. Parra)  
2:10 In-Line Measurement of Shear Effect using DD Sensor (I. Sayago)  
2:35 *Coffee Break*  
2:50 NSF I/UCRC Project: Shear Effect on Hydrocyclone Performance (J. Pacheco)  
3:15 Multiphase Flow in Looped Lines (O. M. Er)  
3:40 Validation and Improvement of Horizontal Pipe Separator (HPS<sup>®</sup>) Model (H. Othman)  
4:05 High pressure Entrainment Measurement and Modeling (F. Viana)  
4:30 Industry Presentations  
5:30 Adjourn