

Department of Physics & Astronomy

Dr. Andrew Kaldor

ExxonMobil Research and Engineering Co,

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3:15p.m.-4:15p.m.

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Game Changing R&D in the Energy Industry

In this talk I will review my experiences in finding ways to increase the pace of innovation in various energy industries as well as finding ways to design research processes and programs to increase the probability of major, breakthrough innovations with transformative, large potential business impact.

The key elements include empowering the research staff to own their ideas and be in a position to advocate and make decisions. We have learned that using a systematic process to identify and quantify the potential value propositions, the critical path to go/no go decisions for the research once it is undertaken, and to design the process that rewards not only success, but also failure and use all as a dynamic learning process, together they all significantly improve the outcomes.

Department Contact Information

Dr. Marcelo Marucho • 210.458.7862 • Marcelo.Marucho@utsa.edu

Mildred Herrera-Rosales • 210.458.5601 • Mildred.HerreraRosales@utsa.edu

<http://physics.utsa.edu/>

