

**XV FORO DE AVANCES DE LA INDUSTRIA DE LA REFINACIÓN
CURSO “PETROLEUM REFINING ECONOMICS”**

4 de Septiembre de 2009

**Aula Magna del Auditorio Bruno Mascanzoni
Instituto Mexicano del Petróleo**

PROGRAM OUTLINE

MÓDULOS	HORARIO
INAUGURACIÓN (Kick-off)	9:00 – 9:10
1. OVERVIEW OF THE PETROLEUM REFINERY	9:10 – 11:00
Refinery Classification, Organization & Process Flow	
Effect Of Refinery Flow Scheme On Profitability	
Petroleum Chemistry Overview	
Crude Oil Composition & Properties – Effects On Crude Oil Pricing	
RECESO (Break)	11:00 – 11:20
2. REFINERY PRODUCT REGULATIONS / TRENDS	11:20 – 13:20
Composition of the Gasoline Pool	
Gasoline and Distillate Properties / Regulations	
Gasoline Reformulation Options	
Use of Renewable Fuels:	
Effects of Ethanol Blending	
Costs Of Meeting Product Specifications	
COMIDA (Early Dinner)	13:20 – 14:30
3. PETROLEUM REFINING ECONOMICS	14:30 – 16:30
Refinery Operating Costs	
Refinery Profit Margins	
Conversion Unit Processing Costs	
Relative Value of Crude Oil versus Products	
Refining Process Capital Costs	
RECESO (Break)	
4. PETROLEUM REFINING TRENDS	16:30 – 18:00
Refining Capacity	
Refinery Operating Rates	
Structure of the Industry	
Environmental Issues Affecting Refineries	

Warren S. Letzsch is an independent consultant with an extensive FCC background. His prior employment was with Stone & Webster, Inc., a Shaw Group Company, where he was responsible for FCC/DCC technology and business development and with Refining Process Services where he was involved in licensing of the MagnaCat® Process. He was also Director of Worldwide Sales and Marketing for UOP/Katalistiks. He has had experience with Total Petroleum as Manager of Refining Technology and with Davison Chemical and Shell Chemical in research, marketing, and technical support of petroleum catalysts. Warren has authored numerous articles on refining technology and holds seven patents in the FCC area. He holds B.S. and M.S. degrees in Chemical Engineering from the Illinois Institute of Technology.