

Inaugural Meeting of Reservoir Monitoring Consortium (RMC)

September 14 - 15, 2011

Room- RTH 526

University of Southern California

Agenda

September 14, 2011		
11:45- 1:00	Registration and Lunch	
	Luncheon Keynote Speaker:	Richard Stegemeier , USC Trustee and Former CEO and Chairman of the Board, Unocal Corporation
13:00 - 13:10	Welcome Address from the USC Viterbi School of Engineering	Yannis C. Yortsos , Dean,
13:00 - 13:20	Welcome Address from the USC Chemical Engineering and Material Science	Steven Nutt , Department Chair,
13:20 – 13:30	Success Story: “Smart Oilfield Technologies”	Iraj Ershaghi , Executive Director of the Chevron–USC Center for Smart Oilfield Technologies at USC
13:30 – 13:45	Introduction to RMC	Fred Aminzadeh , , Petroleum Engineering Program and EE Dept.
	Statement of the Problem and the need for integration	Session Chair: Najib Abusalbi , Schlumberger
13:45-14:15	Integrated Reservoir Solutions – opportunities for surveillance, monitoring and optimization.	Andrei Popa , Chevron
14:15-14:30	Integration of Microseismic Data for Reservoir Characterization (PPP7FA)	Fred Aminzadeh
	Tools and Techniques for reservoir Description and Monitoring	Session Chair: Victor Ziegler , Occidental Petroleum
14:30-14:45	Feature-based Reservoir Characterization (PPP6BJ)	Behnam Jafarpour , Petroleum Engineering Program, USC
14:45-15:00	Upscaling for Compositional Simulation of EOR Processes (PPP11KJ)	Kristian Jessen , Petroleum Engineering Program, USC
15:00-15:15	Development of Dynamic Models of Fractured Reservoirs based on Unstructured Grid and Discrete Fractures, and Their Up-scaling (PPP8MS)	Muhammad Sahimi , Petroleum Engineering Program, USC
15:15 – 15:30	Coffee Break	
15:30 - 15:45	Using Microseismicity to Map Reservoir Structure (PPP5CS)	Charles Sammis , Earth Sciences Dept. USC- Presented by Sahimi ,
15:45 – 16:00	Inverse modeling and parameter estimation of nanoparticle transport in geological formations (PPP3JA)	Jalal Abedi , Visiting Scholar, Petroleum Engineering Program, USC, and University of Calgary

September 14, 2011 (cont.)		
	Advances in Interpretation and Optimizing Operations	Session Chair: Ali Tura , ConocoPhillips
16:00 – 16:15	Incorporating Soft Computing in Time Lapse Monitoring (PPP1FA)	Fred Aminzadeh ,
16:15– 16:30	Early Characterization of Reservoir Connectivity for Improved Field Development Planning (PPP9BJ)	Behnam Jafarpour , Petroleum Engineering Program, USC
16:30– 16:45	Understanding impact of reservoir fluid on seismic response using physical modeling (PPP12SW) and Virtual Tour of the Physical Laboratory	Flora Sun , China University of Petroleum
16:45 – 17:00	Optimization of Hydraulic Fracturing in Unconventional Reservoirs (PPP10BJ)	Behnam Jafarpour , Petroleum Engineering Program, USC
17:00- 18:00	Brain Storming Session A: What are the key practical challenges on RM	Group A
17:00- 18:00	Brain Storming Session B: What are the important tools with most promise for RM	Group B
17:00- 18:00	Brain Storming Session C: How to set priorities and the metrics to use for project ranking	Group C
18:00 – 18:45	Cocktail Reception	
18:45 – 19:45	Dinner	

September 15, 2011		
8:00 - 8:30	Breakfast and registration	
	Data acquisition and Data Management	Session Chair: Sheldon Gorell , Haliburton
8:30 - 9:00	Recent advances in Electromagnetics for Monitoring	Kurt Strack , KMS Technologies
9:00 - 9:15	Time Lapse Petrophysical Reservoir Monitoring and Evaluation of Reservoir Characterization Sensitivity (PPP14DH)	Donald Hill Petroleum Engineering Program, Adjunct Professor and Chevron Retiree
9:15 - 9:30	Applications of nanotechnology for reservoir monitoring ((PPP4JA)	Jalal Abedi ,
9:30 - 9:45	Underwater Acoustic Communications Network Design for Reservoir Sensing Systems (PPP13UM)	Urbashi Mitra , Electrical Engineering Dept. , USC
9:45 - 10:00	Efficient Data Management for Real-Time Reservoir Monitoring (PPP2CS)	Cyrus Shahabi/Farnoush B. Kashani , (InfoLAB), USC
10:00 – 10:15	Coffee Break	
10:15 - 10:45	Highlights of the Brain Storming Sessions	Session Leaders
10:45 - 11:45	Panel Discussion: “How RMC should Evolve?”	Moderator: Iraj Ershaghi (USC)
11:45 – 12:00	Closing remarks and where we go from here	Fred Aminzadeh ,
12:00 - 14:00	Free Time- Lunch	
14:00 – 15:00	Tour of the Laboratories	Optional