

PUBLICATIONS, CONFERENCE PRESENTATIONS AND REPORTS

Refereed Publications

29. M.H. Alkhalidi, H.K. Sarma and H.A. Nasr-El-Din: *"Application of Citric Acid in Acid Stimulation Treatments"*, Journal of Canadian Petroleum Technology, August 2010, Vol. 49, No. 8, 43-52.
28. M.H. Alkhalidi, H.A. Nasr-El-Din and H. Sarma: *"Kinetics of the Reaction of Citric Acid with Calcite"*, Paper 118724, SPE Reservoir Evaluation & Engineering On-line Journal, 2010.
27. Jadhawar, P.S. and Sarma, H.K.: *"Numerical Simulation and Sensitivity Analysis of Gas-Oil Gravity Drainage Process of Enhanced Oil Recovery"*, Journal of Canadian Petroleum Technology, February 2010, 64-70.
26. Emera, M.K. and Sarma, H.K.: *A Genetic Algorithm-Based Model to Predict CO₂-Oil Physical Properties for Dead and Live Oil*, Journal of Canadian Petroleum Technology, February 2008, Vol. 47, No.2, 52-61.
25. Bon, J., Sarma, H.K., Rodrigues, J.T. and Bon, J.G., *"Reservoir Fluid Sampling Revisited - A Practical Perspective"*, SPE Reservoir Evaluation & Engineering, December 2007, 589-596.
24. Emera, M.K. and Sarma, H.K.: *Prediction of CO₂ Solubility in oil and the effects on the Oil Physical Properties*, Energy Resources, Part A, 29:1233-1242, 2007.
23. Emera, M.K. and: *Genetic Algorithm (GA) Based Correlations Offer More Reliable Prediction of Minimum Miscibility Pressures (MMP) Between the Reservoir Oil and CO₂ or Flue Gas*, Journal of Canadian Petroleum Technology, August 2007, Vol. 46, 19-25.
22. Dholkawala, Z. F., Sarma, H.K., and Kam, S.I.: *Application of Fractional Flow Theory to Foams for Enhanced Oil Recovery*, Journal of Petroleum Science & Engineering, 2007 (57), 152-165.
21. Emera, M.K. and Sarma, H.K.: *A Reliable Correlation to Predict the Change in Minimum Miscibility Pressure When CO₂ Is Diluted With Other Gases*, SPE Reservoir Evaluation & Engineering, Volume 9, Number 4, August 2006, 366-373.
20. Emera, M.K. and Sarma, H.K.: *Use of Genetic Algorithm to Obtain CO₂-Oil Minimum Miscibility Pressure (MMP) in Designing a CO₂ Miscible Flood*, Journal of Petroleum Science & Engineering, 46 (2005) 37-52.
19. D. Fisher, N.Yazawa, H.K. Sarma, M. Girard, H. Huang and A. Turta: *A New Method to Characterize the Size and Shape Dynamics of Asphaltene Deposition Process in CO₂ Miscible Flooding*, Journal of Petroleum Technology, January 2004, 43-44. (An overview published as a special interest EOR paper on a new technique based on our SPE paper 84893)

18. H.K. Sarma: *Asphaltenes - The Bad Cholesterol: Can We Ignore Them In Gas Injection Processes?* Published in SPE News Australasia, October/November 2003, Issue 79.
17. H.K. Sarma, N. Yazawa, R.G. Moore, S.A. Mehta, N. Okazawa, H. Ferguson and M.G. Ursenbach: *Screening of Three Light-Oil Reservoirs for Application of Air Injection Process by Accelerating Rate Calorimetric and TG/PDSC Tests.* J. Cdn. Pet. Tech. (March 2002), 50-61.
16. H.K. Sarma, B.B. Maini and K.N. Jha: *Evaluation of Emulsified Solvent Flooding for Heavy Oil Recovery.* J. Cdn. Pet. Tech. (July 1998), 55-62.
15. H.K. Sarma and K. Ono: *Horizontal Wells Prove Versatile for Improved Oil Recovery.* *An OGJ Special, Oil & Gas Journal* (December 11, 1995), 47-56.
14. B.B. Maini and H.K. Sarma: *Role of Apolar Foams in Production of Heavy Oils.* Book Chapter in Advances in Chemistry Series 242, *Foams: Fundamentals and Applications in the Petroleum Industry*, Ed.: L. Schramm, American Chemical Society, Washington, D.C., (1994).
13. H.K. Sarma, B.B. Maini and K.N. Jha: *An Unsteady-State Technique for Three-Phase Relative Permeability Measurements.* J. Cdn. Pet. Tech. (February 1994), 27-33.
12. H.K. Sarma, B.B. Maini, R.W. Purves and K.N. Jha: *A Laboratory Investigation of the Pseudo Relative Permeability Characteristics of Unstable Immiscible Displacements.* J. Cdn. Pet. Tech. (January 1994), 42-49.
11. B.B. Maini, H.K. Sarma and A.E. George: *Significance of Foamy-Oil Behaviour in Primary Production of Heavy Oils.* J. Cdn. Pet. Tech. (November 1993), 50-54.
10. H.K. Sarma and B.B. Maini: *An Experimental Evaluation of Viscosity Grading for Controlling Fingering in Miscible Displacements.* J. Cdn. Pet. Tech. (January 1993), 36-41.
9. H.K. Sarma, B.B. Maini and G. Allen: *Effect of Viscous Instability on Unsteady-State Relative Permeability.* Revue de L'Institut Francais du Petrole (1992), 47, 753-770.
8. H.K. Sarma and R.G. Bentsen: *Further Experimental Validation of the External-Drive Technique.* J. Cdn. Pet. Tech. (July-August 1990), 75-83.
7. H.K. Sarma and R.G. Bentsen: *A New Method for Estimating Relative Permeabilities from Unstabilized Displacement Data.* J. Cdn. Pet. Tech. (July-August 1989), 118-128.
6. H.K. Sarma and R.G. Bentsen: *A Study of the Impact of Instability on Relative Permeability and Capillary Pressure.* J. Pet. Sci. & Eng. (1989), 2, 311-330.

5. H.K. Sarma and R.G. Bentsen: *A Method of Reducing Model Error When Estimating Relative Permeabilities from Displacement Data*. J. Pet. Sci. & Eng. (1989), 2, 331-347.
4. R.G. Bentsen and H.K. Sarma: *The External-Drive Technique: Its Use and Abuse*. The AOSTRA J. of Research (1989), 5, 61-74.
3. P.M. Sigmund, H.K. Sarma, D. Sheldon and K. Aziz: *Rate Dependence of Unstable Waterfloods*. SPE Res. Eng. (1988), 401-409.
2. H.K. Sarma and R.G. Bentsen: *An Experimental Verification of a Modified Instability Theory for Immiscible Displacements in Porous Media*. J. Cdn. Pet. Tech. (July-August 1987), 88-99.
1. H.K. Sarma: *Viscous Fingering: One of the Main Factors Behind Poor Flood Efficiencies in Petroleum Reservoirs*. Powder Technology (1986), 48, 39-49.

Full-Length Conference Proceedings Papers

63. Y. Zhou and **H.K. Sarma**: "**Investigation of Likely Asphaltene Precipitation Behavior during Gas Injection in a UAE Carbonate Reservoir**", Abstract submitted for the Middle East Oil and Gas Show and Conference, Manama, Bahrain, March 13-16, 2011
62. P.S.Jadhawar and **H.K.Sarma**: "**Improved Production Strategy for Enhancing the Immiscible and Miscible CO₂-Assisted Gravity Drainage Oil Recovery**", SPE130595 at the CPS/SPE International Oil & Gas Conference and Exhibition in China held in Beijing, China, June 8–10, 2010.
61. M.H. Alkhalidi, H.A. Nasr-El-Din and H.K. Sarma: "**Application of Citric Acid in Acid Stimulation Treatments**", Paper 2009-015 at the Canadian International Petroleum Conference, 60th Annual Technical Meeting of the Petroleum Society, Calgary, June 16-18, 2009.
60. J. Bon and H.K. Sarma: "**Investigation of Effect of Injection Gas Composition on CO₂-rich MMP and its Implications in Flooding in Cooper Basin**", Paper 2009-139 at Canadian International Petroleum Conference, 60th Annual Technical Meeting of the Petroleum Society, Calgary, June 16-18, 2009.
59. M.H. Alkhalidi, H.A. Nasr-El-Din and H. Sarma: "**New Insights into the of the Reaction of Citric Acid with Calcite**", Paper 141857 in *Enhanced Oil Recovery* category at AIChE's 2009 Spring National Meeting, Tampa, Florida, April 26-30, 2009
58. M.H. Alkhalidi, H.A. Nasr-El-Din and H. Sarma: "**Kinetics of the Reaction of Citric Acid with Calcite**", SPE 118724, e 2009 SPE International Symposium on Oilfield Chemistry held in The Woodlands, Texas, USA, April 20-22, 2009.
57. M.H. Alkhalidi, H.A. Nasr-El-Din, H. Sarma: "**New Insights into the Reaction of Citric Acid with Calcite**", AIChE 100th Annual Meeting, Philadelphia, USA, November 16-21, 2008.
56. **H.K. Sarma** and S. Das: "**Air Injection Potential in Kenmore Oilfield in Eromanga Basin, Australia: A Screening Study Through Thermogravimetric and Calorimetric Analyses**", SPE 120595, SPE Middle East Oil & Gas Show and Conference, Manama, Bahrain, March 15-18, 2009.
55. T. Shrestha, S. Hunt, P. Lyford and **H.K. Sarma**: "**Workflow for Integrated Production Modelling of Gas Wells in the Northern Cooper Basin**", SPE Paper 116936, 2008 Asia Pacific Oil and Gas Conference & Exhibition (APOGCE), Perth, October 20-22, 2008.
54. P. Clark, **H.K. Sarma** and S.B. Toulekima: "**A Miscibility Scoping Study for Gas Injection into a High-Temperature Volatile Oil Reservoir in the Cooper Basin, Australia**", SPE Paper 116782, 2008 Asia Pacific Oil and Gas Conference & Exhibition (APOGCE), Perth, October 20-22, 2008.

53. P. Jadhawar and H.K. Sarma: *"Scaling and sensitivity analysis of Gas-oil Gravity Drainage EOR"*, SPE 115065, 2008 Asia Pacific Oil and Gas Conference & Exhibition (APOGCE), Perth, October 20-22, 2008.
52. P. Jadhawar and H.K. Sarma: *"Numerical Simulation and Sensitivity Analysis of gas-Oil Gravity Drainage Process of Enhanced Oil Recovery,"* Paper 2008-006, Canadian International Petroleum Conference 2008, Calgary, June 17-19, 2008.
51. A.K. Becis , H.K. Sarma and B. Setiadi: *"Bugs for Oil? Potential of MEOR in Selected Australian Reservoirs"*, Paper #1798, EAGE 14th European Symposium on Improved Oil Recovery, Cairo, 22 - 24 April 2007.
50. M. Regan and H.K. Sarma: *"EOR Potential in Australia"*, poster #85 presented under the theme: *A Platform for Prosperity* at the 2006 APPEA Conference and Exhibition, Gold Coast Convention Centre, Queensland, May 7-10, 2006.
49. B. Hughes, H.K. Sarma: *"Burning Reserves for Greater Recovery? Air Injection Potential in Australian Light-Oil Reservoirs"*, SPE paper 101099 presented at the SPE Asia Pacific Oil and Gas Conference and Exhibition, Adelaide, Australia, September 11-13, 2006.
48. Bon, J., Emera, M.K., and Sarma, H.K.: *"An Experimental Study and Genetic Algorithm (GA) Correlation to Explore the Effect of nC₅ on Impure CO₂ Minimum Miscibility Pressure (MMP)"*, SPE paper 101036 presented at the SPE Asia Pacific Oil and Gas Conference and Exhibition, Adelaide, Australia, September 11-13, 2006.
47. Bon, J., Sarma, H.K., Rodrigues, J.T. and Bon, J.G., *"Reservoir Fluid Sampling Revisited - A Practical Perspective"* SPE paper 101037 presented at the SPE Asia Pacific Oil and Gas Conference and Exhibition, Adelaide, Australia, September 11-13, 2006.
46. M.K. Emera and H.K. Sarma: *"A Genetic Algorithm Based Model to Predict CO₂-Oil Physical Properties for Dead and Live Oil,"* CIPC Paper No. 2006-197 presented at the Canadian International Petroleum Conference, Calgary, June 13 - 15, 2006.
45. M.K. Emera and H.K. Sarma: *A New Genetic Algorithm (GA) Model Predicts Green-House Gas (GHG) and Reservoir Oil Interaction Parameters More Accurately in Geosequestration Applications*, SPE paper 100808 presented at the SPE Asia Pacific Oil and Gas Conference and Exhibition, Adelaide, Australia, September 11-13, 2006.
44. Sarma, H.K.: *Optimization Issues from an EOR Perspective*, presentation at the Shell International (E&P) sponsored workshop, entitled: *"An Integrated and Global Optimisation Approach to Finding Petroleum Engineering and Geoscience Solutions"*, Adelaide, September 16-17, 2005.
43. J. Bon, Sarma, H.K., and Theophilos, A.: *An Investigation for Minimum Miscibility Pressure for CO₂-Rich Injection Gases with Pentanes Plus Fraction*, paper SPE 97536 at the 2005 SPE International Improved Oil Recovery Conference in Asia Pacific (IIORC), Kuala Lumpur, December 5-6, 2005.

42. M.K. Emera and H.K. Sarma: *Genetic Algorithm (GA) Based Correlations Offer More Reliable Prediction of Minimum Miscibility Pressures (MMP) Between the Reservoir Oil and CO₂ or Flue Gas*, paper CIPC 2005-003 presented at the Canadian International Petroleum Conference, the 56th Annual Technical Meeting of the Petroleum Society, Calgary, June 7 - 9, 2005.
41. M.K. Emera and H.K. Sarma: *A New Genetic Algorithm (GA)-based Technique to Model the Effects of CO₂ Injection on Crude Oil Properties*, presented at the 13th European Symposium on Improved Oil Recovery, Budapest, Hungary, April 25-27, 2005.

(This paper has also been invited for presentation at the 26th International Energy Agency Annual Workshop & Symposium on Enhanced Oil Recovery to be held at the Technology Research Center of Japan Oil, Gas and Metals National Corporation (JOGMEC), Chiba, Japan, September 25 - 29, 2005.)
40. M.K. Emera and H.K. Sarma: *Use of Genetic Algorithm to Predict Minimum Miscibility Pressure (MMP) between Flue Gases and Oil in Design of Flue Gas Injection Project*, SPE 93478 at the 14th SPE Middle East Oil & Gas Show and Conference, Bahrain, March 12-15, 2005.
39. R. Shrivastava and H. Sarma: *Carbon Sequestration in Australian Coals: Optimisation of Sequestered CO₂ and ECBMR*, Storage Program Paper Number 1.7.1 at the 1st Annual Research Symposium, Yarra Valley, Victoria, 30th November-1st December, 2004.
38. Bon, J. and Sarma, H.K.: *A Technical Evaluation of a CO₂ Flood for EOR Benefits in the Cooper Basin, South Australia*, paper SPE Paper 88451 presented at the SPE Asia Pacific Oil and Gas Conference and Exhibition, Perth, Australia, October 18-20, 2004.
37. H.K. Sarma: *EOR in Asia and the Potential for Sequestration of CO₂ Emissions*, presented at the Oil & Gas IO's 3rd International IOR Conference: Improved Oil Recovery Asia 2004, Kuala Lumpur, March 29-31, 2004.
36. D. Fisher, N. Yazawa, H.K. Sarma, M. Girard and H. Huang: *Size and Shape Characterization of Asphaltene Particles during Precipitation and Flocculation*, presented at the Symposium on Characterization of Petroleum Macromolecules - a Session in the 5th International Conference on Petroleum Phase Behavior and Fouling, Banff, Alberta, Canada, June 13-17, 2004.
35. S. Takahashi, Y. Hayashi, N. Yazawa and H.K. Sarma: *Asphaltene Precipitation during CO₂ Injection in Sandstone and Carbonate Cores: An Investigative Analysis through Laboratory Tests and Compositional Simulation*, 24th Annual Workshop & Symp. on Collaborative Project on EOR of IEA, Regina, Canada on September 7-10, 2003.
34. H.K. Sarma: *Can We Ignore Asphaltenes in a Gas Injection Project for Light-Oils?* SPE Paper 84877, SPE International Improved Oil Recovery Conference in Asia Pacific, Kuala Lumpur, Malaysia, October 20-21, 2003.

33. D. Fisher, N. Yazawa, H.K. Sarma, M. Girard, H. Huang and A. Turta: *A New Method to Characterize the Size and Shape Dynamics of Asphaltene Deposition Process in CO₂ Miscible Flooding*, SPE Paper 84893, SPE International Improved Oil Recovery Conference in Asia Pacific, Kuala Lumpur, Malaysia, October 20-21, 2003.
32. S. Takahashi, Y. Hayashi, N. Yazawa and H.K. Sarma: *Characteristics and Impact Of Asphaltene Precipitation During CO₂ Injection in Sandstone and Carbonate Cores: An Investigative Analysis Through Laboratory Tests and Compositional Simulation*, SPE Paper 84895, SPE International Improved Oil Recovery Conference in Asia Pacific, Kuala Lumpur, Malaysia, October 20-21, 2003.
31. H.K. Sarma and Hawkins, B.F: *A New Enhanced Gas and Oil Recovery (EGOR) Program in Alberta to Utilize CO₂ for EOR and Sequestration*. 22nd IEA Annual Workshop and Symposium, Vienna, September 9-12, 2001.
30. N. Yazawa and H.K. Sarma: *Screening of Three Light-Oil Reservoirs for Application of Air Injection Process by Accelerating Rate Calorimetric and TG/PDSC Tests*. 22nd IEA Annual Workshop and Symposium, Vienna, September 9-12, 2001
29. H.K. Sarma: *Some Technological Challenges in CO₂ Injection for Enhanced Oil Recovery in Canada*. Alberta Chamber of Resources (ACR)-CO₂ Synergies Research Network Meeting, Calgary, June 20, 2001.
28. H.K. Sarma, N. Yazawa, R.G. Moore, S.A. Mehta and M.G. Ursenbach: *Screening of Three Light-Oil Reservoirs for Application of Air Injection Process by Accelerating Rate Calorimetric and TG/PDSC Tests*. Paper CIPC 2001-156, Canadian International Petroleum Conference, Calgary, June 12-14, 2001.
27. H.K. Sarma, N. Yazawa and N. Kumagai: *Evaluation of Air Injection Potential for Three Light-Oil Reservoirs*. 21st IEA Annual Workshop and Symposium, Edinburgh, U.K., September 19-22, 2000.
26. S. Maezumi, H.K. Sarma, N. Yazawa, S.C. Zhou, K. Fujiwara, H. Enomoto and C. Hong: *Performance of Microbial Huff-n-Puff Tests and Preparation for a Microbial Flood in Fuyu Oilfield, China*. 20th IEA Annual Workshop and Symposium, Enghien-les-Bains (Paris), France, September 22-24, 1999.
25. K. Ono, S. Maezumi, H.K. Sarma, H. Enomoto, C. Hong, Z. Chao and K. Fujiwara: *Implementation and Performance of a Microbial Enhanced Oil Recovery Field Pilot in Fuyu Oilfield, China*. SPE Paper 54328, Asia-Pacific Oil & Gas Conference and Exhibition, Jakarta, Indonesia, April 20-22, 1999.
24. S. Maezumi, K. Ono, Z. Shutao, H.K. Sarma, Z. Chao, H. Enomoto and C. Hong: *The MEOR Field Pilot in Fuyu Oilfield, China: A Status Review*. 19th IEA Workshop and Symposium, Carmel, CA, October 5-7, 1998.
23. H. Ishii, H.K. Sarma, K. Ono and K. Issever: *A Successful Immiscible CO₂ Field Pilot in a Carbonate Heavy-Oil Reservoir in the Ikiztepe Field, Turkey*. 9th European Symposium on Improved Oil Recovery, The Hague, October 20-22, 1997.

22. H.K. Sarma, H. Horikawa and S. Nakamura: *Effectiveness of Steamflood Additives in Enhancing Recovery of Viscous Heavy Oil*. Annual Tech. Meeting of the Japanese Association for Petroleum Technology, Akita, June 5-6, 1996.
21. H.K. Sarma, K. Ono, S. Nakamura and H. Horikawa: *A Laboratory Investigation of the Effectiveness of Steamflood Additives in Recovering Viscous Heavy Oil*. SPE Paper 35397, SPE/DOE 10th Symp. on Improved Oil Recovery, Tulsa, April 21-24, 1996.
20. S. Nakamura, H.K. Sarma, T. Umucu, K. Issever and M. Kanemitsu: *A Critical Evaluation of a Steamflood Pilot in a Deep Heavy Carbonate Reservoir in Ikiztepe Field, Turkey*. SPE Paper 30727, 70th SPE Annual Tech. Conf. & Exhibition., Dallas, October 22-5, 1995.
19. H.K. Sarma and K. Ono: *Role of Emulsion in Oil Recovery*. Annual Tech. Meeting of the Japanese Association for Petroleum Technology, Chiba, June 7-9, 1995.
18. H.K. Sarma and K. Ono: *The Potential of Horizontal Well Technology in EOR Applications in the Secondary and Tertiary Modes*. Annual Tech. meeting of the Japanese Association for Petroleum Technology, Chiba, June 7-9, 1995.
17. H.K. Sarma, B.B. Maini and K.N. Jha: *Evaluation of Emulsified Solvent Flooding for Heavy Oil Recovery*. CIM 95-66, 46th Annual Tech. Meeting of Petroleum Society of CIM, Banff, May 14-17, 1995.
16. H.K. Sarma and B.B. Maini: *Emulsified Solvent Flooding: A Non-Thermal IOR Alternative for Thin Heavy Oil Reservoirs?* 8th European Improved Oil Recovery Symposium, Vienna, May 15-17, 1995.
15. H.K. Sarma: *Horizontal Well Technology - A Research Perspective*. HWC 94-11, Cdn. SPE/CIM/CANMET Int'l Conf. on Recent Advances in Horizontal Well Applications, Calgary, March 20-23, 1994.
14. H.K. Sarma: *Application of Horizontal Wells in Enhanced Recovery Processes*. 2nd JNOC-TRC Int'l. Symp. on Horizontal Well Technologies, Chiba, Nov. 1-6, 1993.
13. H.K. Sarma, B.B. Maini, R.W. Purves and K.N. Jha: *On the Use of Buckley-Leverett Analysis to Characterize Unstable Immiscible Displacements*. CIM 92-51, CIM Annual Tech. Conf., Calgary, June 7-10, 1992.
12. B.B. Maini, H.K. Sarma and A.E. George: *Significance of Foam-Oil Behaviour in Primary Production of Heavy Oils*. CIM 92-77, CIM Annual Tech. Conf., Calgary, June 7-10, 1992.
11. H.K. Sarma and B.B. Maini: *Role of Solution Gas in Primary Production of Heavy Oils*. SPE 23631, 2nd Latin American Pet. Engg. Conf., Caracas, March 8-11, 1992.
10. H.K. Sarma and B.B. Maini: *Role of Solution Gas in Primary Production of Heavy Oils*. 12th Int'l Workshop and Symp. of the Int'l Energy Agency, Bath, U.K., October 28-30, 1991.

9. H.K. Sarma, B.B. Maini and K.N. Jha: *An Unsteady-State Technique for Three-Phase Relative Permeability Measurements*. Paper No. 9, Saskatchewan Pet. Conf., Regina, October 7-9, 1991.
8. H.K. Sarma and B.B. Maini: *An Experimental Evaluation of Viscosity Grading for Controlling Fingering in Miscible Displacements*. CIM/AOSTRA 91-3, Tech. Conf. of the Pet. Soc. of the C.I.M. and AOSTRA, Banff, April 21-24, 1991.
7. H.K. Sarma, B.B. Maini and G. Allen: *Effect of Viscous Instability on Unsteady-State Relative Permeability*. CIM/SPE 90-66, Int'l Tech. Meeting of the CIM/SPE, Calgary, June 10-13, 1990.
5. H.K. Sarma and R.G. Bentsen: *A New Method for Estimating Relative Permeabilities from Unstabilized Displacement Data*. CIM 88-39-87, 39th Annual Tech. Meeting of Pet. Soc. of CIM, Calgary, June 12-16, 1988.
5. H.K. Sarma and R.G. Bentsen: *Further Experimental Validation of the External-Drive Technique*. Saskatchewan Pet. Conf., Regina, October 6-8, 1987.
4. H.K. Sarma and R.G. Bentsen: *An Improved Method of Estimation of Relative Permeabilities from Displacement Data*. CIM 87-38-51, 38th Annual Tech. Meeting of the Pet. Soc. of CIM, Calgary, June 7-10, 1987.
3. H.K. Sarma and R.G. Bentsen: *An Experimental Verification of a Modified Instability Theory for Immiscible Displacement in Porous Media*. CIM 86-37-76, 37th Annual Tech. Meeting of Pet. Soc. of CIM, Calgary, June 8-11, 1986.
2. P.M. Sigmund, H.K. Sarma, D. Sheldon and K. Aziz: *Flow Instability in Porous Media: Rate Dependence of Unstable Waterfloods*. 35th Cdn. Chem. Engg. Conf., Calgary, October 6-9, 1985.
1. P.M. Sigmund, H.K. Sarma, D. Sheldon and K. Aziz: *Rate Dependence of Unstable Waterfloods*. SPE Paper 14368, 60th SPE Annual Tech. Conf. and Exhibition., Las Vegas, September 22-25, 1985.

2003 Inaugural Lectures by Recently Appointed Professors of the University of Adelaide
"Enhanced Petroleum Recovery Processes, the Environment and Energy Self-sufficiency",
 May 29, 2003.

Technical Research Reports, including Contract Research

32. Yu, Z. and Sarma, H.K.: *A Study of the Potential of Asphaltene Precipitation Due to Gas Injection in Asab Field, UAE*, Interim Report #2 to R&D Oil Sub-Committee, Abu Dhabi, May 15, 2010.
31. Yu, Z. and Sarma, H.K.: *A Study of the Potential of Asphaltene Precipitation Due to Gas Injection in Asab Field, UAE*, Interim Report #1 to R&D Oil Sub-Committee, Abu Dhabi, February 15, 2010.

30. Sarma, H.K., Singhal, A.K., Meyer, G. and Turta, A.: *Improved Reservoir Characterization Within PRIZE™: Screening Criteria for In-Fill Wells and Cyclic Steam Stimulation Screening and Performance Prediction*, Report #0203-1 on research conducted at the Alberta Research Council Inc., Edmonton, Canada, March, 2004.
29. H.K. Sarma: *A Review of Reservoir Engineering Data from Buttress #1, Naylor #1, Croft #1 and McIntee #1 located in Otway Basin, Victoria and operated by Santos Limited*, A reservoir engineering study report for and on behalf of CO2CRC, March 2004.
28. S.I. Kam, J. Tang and H.K. Sarma: *Evaluation of the Development Potential of Permian Oil in the Cooper Basin*, A confidential reservoir engineering study report to Santos Limited, Adelaide, May 2003.
27. H.K. Sarma, M. Girard and D. Fisher: *Study of IFT Characteristics between Medicine River Pekisko N Unit Oil and NGL and NGL-enriched with C3/C4*. An Alberta Research Council feasibility study report (PRI 6088-2002) to Conoco Canada Limited, Calgary, Canada, August 2002.
26. H.K. Sarma, M. Girard, D. Fisher and L. Hodgins: *Feasibility Study for CO₂ Flood In Medicine River Jurassic D and G Pools in South Rimbey Area*, An Alberta Research Council feasibility study report (PRI 5613-2002) to Conoco Canada Limited, Calgary, Canada, July 2002.
25. H.K. Sarma: *Role of Asphaltene in Gas Injection Processes*, a technical report to the Technology Research Center, Japan National Oil Corporation, Chiba, Japan, March 2002.
24. H.K. Sarma: *CO₂ Feasibility Study for Selected Pembina Cardium Pools*. A confidential contract study report # PRI-5833-2002 for Penn West Petroleum Ltd., Calgary (April, 2002).
23. H.K. Sarma: *A Review Study of Air Injection Process for Improving Oil Recovery in Light-Oil Reservoirs*, a technical report to the Technology Research Center, Japan National Oil Corporation, Chiba, Japan, September 2001.
22. H.K. Sarma: *A Technical Evaluation of Accelerating Rate Calorimetric and TG/PDSC Test Results Obtained at the University of Calgary*, a technical report to the Technology Research Center, Japan National Oil Corporation, Chiba, Japan, September 2001.
21. A. Turta, F. Wassmuth, B. Maini and H.K. Sarma: *PRIZE™, Version 2.0 -- Updated Computer Methods for Evaluating the Improved Oil Recovery Potential of Petroleum Reservoirs*. Final JIP Technical Report 98/99-08, Petroleum Recovery Institute, Calgary (March 1999).
20. F. Wassmuth, A. Turta, H.K. Sarma and B. Howes: *PRIZE: Methods for Evaluating the EOR Potential of Petroleum Reservoirs*. PRI Report 1993/94-8 (January 1994).

19. H.K. Sarma and B.B. Maini: *Optimum Horizontal Well Location and the Production Strategy for Primary Depletion of Foamy Heavy Oil Reservoirs under Solution-Gas Drive in the Presence of Bottom Water and/or Gas Cap*. A report to the Canada Centre for Mineral and Energy Technology [CANMET] (March 1993).
18. B.B. Maini and H.K. Sarma: *Development of Cost-Effective Emulsified Solvent Flooding Process for Heavy Oil Recovery*. CANMET Report (March 1993).
17. H.K. Sarma and B.B. Maini: *Emulsified Solvent Flooding: A Non-Thermal Recovery Process for Thin Heavy Oil Reservoirs*. PRI Report 1992-21 (November 1992).
16. H.K. Sarma, B.B. Maini and R.W. Purves: *Evaluation of Quality Grading in Emulsified Solvent Flooding*. PRI Report 1992-20 (August 1992).
15. H.K. Sarma and B.B. Maini: *Non-Thermal Recovery of Heavy Oils from Thin Reservoirs by Emulsified Solvent Flooding*. CANMET Report (August 1992).
14. H.K. Sarma and B.B. Maini: *Evaluation of In-Situ Emulsification*. Contract Research Report to the AEC Oil & Gas Company, Calgary (April 1992).
13. B.B. Maini, H.K. Sarma, J. Goldman and R.W. Purves: *Development of Empirical Models for Predicting the Effects of Viscous Instabilities in Improved Oil Recovery by Waterflooding*. CANMET Report (March 1992).
12. H.K. Sarma: *Horizontal Well Production: A Research Perspective*. PRI Report 1992-2 (January 1992)
11. H.K. Sarma, B.B. Maini and R.W. Purves: *On the Use of Buckley-Leverett Analysis to Characterize Unstable Immiscible Displacements*. PRI Report 1991-11 (November 1991).
10. H.K. Sarma and B.B. Maini: *Evaluation of Quality Grading in Emulsified Solvent Flooding*. A Confidential PRI Research Report (November 1991).
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