

CURRICULUM VITAE

PERSONAL

Faruk Civan, Ph.D.

Professor Emeritus, Mewbourne School of Petroleum and Geological Engineering, The University of Oklahoma, Norman, Oklahoma, U.S.A.



CONTACT INFORMATION

E-mail: fcivan@ou.edu

EDUCATIONAL BACKGROUND

Ph. D. The University of Oklahoma, Chemical Engineering, July 1978

M. S. The University of Texas at Austin, Chemical Engineering, May 1975

M. E. (with "High Achievement") Advanced Engineering, The Technical University of Istanbul, Chemical Engineering, August 1971

RELEVANT EMPLOYMENT HISTORY

Academic Experience

The University of Oklahoma, Norman, OK

Professor Emeritus, August 11, 2015-present

Martin G. Miller Chair Professor, 1/7/2010- August 10, 2015

Alumni Chair Professor, 16/8/2003-1/7/2010

Brian and Sandra O'Brien Presidential Professor, 5/2002-2006

Professor, 08/92 - 5/2002

Associate Professor, 08/87 - 08/92

Assistant Professor, 09/83 - 08/87

Visiting Assistant Professor, 09/80 - 09/83

Research Assistant, 06/77 - 06/78

Research Assistant, 06/75 - 09/75

Technical University of Istanbul

Assistant Professor, 11/78 - 08/80

Assistant Instructor, 11/71 - 09/73

Industrial Experience

Consultant, Petrolite Corporation, 05/16/97- 07/15/97

Consultant, ICP-UNAL Research Project at Universidad Nacional de Colombia, 08/14-18/95

Reservoir Engineering Consultant, Enserch Exploration, Inc., Dallas, TX, 05/86 - 08/86

Reservoir Engineering Consultant, Mobil Research and Development Corporation, Dallas Research Division, Dallas, TX, 05/85 - 08/85

Consultant, University Technologists, Inc., Norman, OK, 09/80 - 09/81

Practical Training, Sumerbank Textiles, Eyup, Istanbul, Turkey, summer of 1970

Practical Training, Eczacibasi Ceramics, Yunus, Istanbul, Turkey, summer of 1969

Practical Training, Kutahya Fertilizers, Kutahya, Turkey, summer of 1968

HONORS AND AWARDS

Outstanding Faculty Member award presented by the SPE Student Chapter, Mewbourne School of Petroleum and Geological Engineering, The University of Oklahoma, April 16, 2015.

The SPE Reservoir Description and Dynamics Award, 28 October 2014.

Recognition of 30 years of service as a faculty member in the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma, 4/2010.

Recognition of 26 years of service as a faculty member in the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma, 4/2007.

Plaque in Recognition of Contributions and Dedication to the Development of Petroleum Technology, Halliburton Energy Services, 11/2006

Member of the SPE Twenty-Five Year Club in recognition of more than twenty-five years' continuous membership in the Society of Petroleum Engineers, 2006

Marquis Who's Who in Science and Engineering, 2005-2006

Strathmore's Who's Who, 2005-2006

Albert Einstein Medal of Honor in recognition of outstanding contributions and service in the field of Petroleum Engineering, October 11, 2005

Plaque in Recognition of Contributions and Dedication to the Development of Petroleum Technology, Halliburton Energy Services, 9/2003

SPE Distinguished Achievement Award For Petroleum Engineering Faculty, 2003

Brian and Sandra O'Brien Presidential Professorship, 5/2002-2006

Kapitsa Medal of Honor for outstanding contributions to the field of engineering, 10/2002

Director's Distinguished Service Award, 2000

Plaque in Recognition of Contributions and Dedication to the Development of Petroleum Technology, Halliburton Energy Services, 9/2000

MAPCO Distinguished Lectureship Award, 1998

Conoco Distinguished Lectureship Award, 1995

Gulf-Western Distinguished Lecturer Award, 1991, 1992

Halliburton Distinguished Lectureship Award, 1988-1992

Associates Distinguished Lecturer, 1986-1987

Young Faculty Development Award, 1985-1986

Young Faculty Development Award, 1984-1985

Outstanding Young Men of America, 1984-1985

Faculty Excellence Award, 1983-1984

Outstanding Young Men of America, 1983

Outstanding Young Men of America, 1982

Sun Oil Faculty Support Award, fall 1982

Sun Oil Teaching Award, summer 1981

Research Assistantship, the University of Oklahoma, 06/75 - 09/75, 06/77 - 06/78

NATO Fellowship, the Scientific and Technical Research Council of Turkey, 09/73 - 05/75

Fellowship from Koc Holding Company, 09/67 - 06/71

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Institute of Chemical Engineers

Society of Petroleum Engineers

Pi Epsilon Tau

RESEARCH ACTIVITIES

Formation, completion, and hydraulic damage, flow assurance and mitigation: reservoirs, wells, pipelines

Unconventional gas and oil recovery: shale gas/condensate/oil, coalbed gas, hydrate gas

Multi-phase transport phenomena in porous media: recovery mechanisms for oil and gas in extremely tight reservoirs, multiphase fluid mobility and distribution, fluids and porous media characterization

Oil and gas transportation and storage: salt cavern storage, pipeline networks

Thermal and solvent-extraction processes: heavy-oil recovery, geothermal energy recovery, coal to liquid and gas to liquid conversion

Enhanced recovery by flue gas sequestration: carbon capture, coalbed gas, oil production

Modeling, simulation, and optimization: systems dynamics and design, robust numerical methods

Environmental protection: accidental releases, fires, leak detection and safety measures

THESIS AND DISSERTATIONS SUPERVISED

M.S., Contreras Nino, Adriana C., "Critical Review of A Modified Equation of State for Gas Behavior and Adsorption in Shale," August 2015.

Ph.D., Al-Ibadi, Adnan L., "Experimental Investigation, Correlation, and Dimensional Analysis of Near-Wellbore Formation Treatment by Gel Particles and Particle-Gel System," December 2014.

M.S., Zhang, Yijia, "Prediction and Implication of Fluid Property Alteration in Shale Reservoirs," June 2014.

M.S., Milad, Benmadi M., "Modeling and Simulation of Production from Commingled Multilayer Zones and Hydraulically Fractured Horizontal Wells in Unconventional Gas Reservoirs," December 2013.

M.S., Odunuga, Adebusola, "Investigating Drainage Patterns of Shale Production as a Function of Type of Fracture System in the Reservoir," June 2012.

M.S., Balda, Karent Vannessa: "An Application Of The Volumetric Balance And Transient Flow Modeling For Leak Detection In Liquid Pipelines," May 2012.

Ph.D., Michel Villazon, Guillermo G., "Modeling Relaxation Effects on Multiphase Fluid Transport in Wells and Pipelines," February, 2012.

M.S., Lawson, Oluwafemi L., Nonthesis project, "Wettability Alteration Effects and Formation Plugging Investigation by Emulsion Droplets in Porous Media," December, 2011

M.S., Borda Balderrama, Rodrigo T., "Experimental Measurement of Multi-Component BTEX Solubility in Amine Solutions," December, 2011.

M.S., Barajas, Pablo E., "Modeling and Analysis of Salt Cavern Natural Gas Storage," December, 2011.

M.S., Hudson, John D., "Quad-Porosity Model for Description of Gas Transport in Shale-Gas Reservoirs," December, 2011.

M.S., Orekha, Olatunji A., "Model Assisted Determination of Design Parameters for BTEX– Amine and BTEX– TEG Gas – Liquid Systems," October 2011.

M.S., Sapmanee, Kanin, "Effects of Pore Proximity on Behavior and Production Prediction of Gas/Condensate," September 2011

M.S., Andrade, Juan Felipe, "One Dimensional Test Bed Incorporating Correct Physics Of Fluid Redistribution And Transport For Simulation Of Shale-Gas Reservoirs," May 2011.

- M.S., Kunnath Aven, Nevil, "Investigation of Plugging Mechanism and Characterization of Wettability Alteration By Emulsion Treatment of Porous Media," May 2011.
- M.S., Villanueva-Triana, Bielenis M., "Simplified Analysis and Modeling Of Production From Multilayer Commingled Reservoirs," April 2011.
- M.S., Taborda Ruiz, Tatiana, "Experimental Investigation of Restarting Fully-Gelled Subsea Waxy-Oil Pipelines, December, 2010
- M.S., Al-Yaseri, Ahmed Z., "Determination of Relative Permeability from Well Production by Consideration of Fluid Type, Formation Heterogeneity, and Skin Factor," November 2010.
- Ph.D., Tran, N.T., "Investigation of Plugging In Orifice, Slot, and Pore-Throat by Fine Particles," spring 2010.
- M.S., Nzerem, V. C., "Modeling Permeability and Porosity in Tight Reservoirs using Intelligent and Innovative Data Techniques," Fall 2009.
- M.S., Ekweribe, C. K. "Quiescent Gelation of Waxy Crudes and Restart of Shut-in Subsea Pipelines," (2008)
- M.S., Michel, G. "Modeling of Multiphase Flow in Wells under Nonisothermal and Nonequilibrium Conditions," (2007)
- M.S., Sarac, S. "Experimental Investigation and Modeling of Naphthenate Soap Deposition Kinetics in Petroleum Reservoirs," (2007)
- M.S., "Geochemical Simulation of Laboratory CO₂ Sequestration Experiments," Deshpande, S. R. (2006)
- Ph.D., "Effects of Resident Water and Non-Equilibrium Adsorption on the Primary and Enhanced Coalbed Methane Gas Recovery," Jahediesfanjani, H. (2006)
- M.S., "Dynamic Mathematical Model for Underground Gas Storage in Salt Caverns," Iloeje, Aadaeze O. (2006)
- M.S., "Experimental Determination of the Diffusion Coefficient of Carbon Dioxide in Crude Oil," Jawed, Rehan (2006)
- M.S., Nonthesis project, "Development of Pressure Profile due to Hydrate Formation in Pipeline," McDonald, O. C. (2006)
- M.S., Nonthesis project, "Perforation Plugging," Olalekan, S.A (2006)
- M.S., "Effect of Temperature on Relative Permeability Obtained under Constant Flow Rate Conditions," Funmilayo, M.G. (2006)
- M.S., "Correlation of Leaky-Tube Model Parameters using Porosity and Permeability Data," Akinbobuyi, A. (2006)
- M.S., "Applicability of Civan's Leaky-Tube Model for Sandstone and Carbonate Rocs," Hodo, Senu Yaw (2005)
- M.S., "Theoretical and Experimental Study of Corrosion Inhibiting Emulsion Placement in Vertical Wells," Sanghvi, G. (2005)
- M.S.-Nonthesis project, "Developing Venezuelan Stranded Natural Gas Reserves," Lucas, A.J. and Barrios, J. L. (2005)
- M.S., "Determination of the Mechanisms of Formation Damage during Alkaline Waterfloods," Patino, O. (2005)
- M.S., Nonthesis project, "Compression Scheduling for a Gas Field in Northern California," Montero, A (2005)
- M.S., Nonthesis project, "Technical and Economical Study of a GTL Plant in Venezuela," Marin, H.I. (2005)
- M.S., "Experimental Investigation of Gas Diffusion in Oil-Field Fluids," Ogundare, M. Tolulope (2004)
- M.S., "Laboratory Evaluation of High-Temperature Conformance Polymer Systems," Vasquez, J. (2004)

- M.S., "Numerical Determination of Relative Permeability from Unsteady-State Fluid Displacements in Cores," Michel-Villazon, Ricardo Marcelo (12/04)
- M.S.-nonthesis, "Gas-to-Liquids," Liu, Weizhou (2004)
- M.S., "Poromechanics Response of Inclined/Horizontal Wellbores in Naturally Fractured Rock Formations" Nguyen, V.X. (2003)
- Ph.D., "Modeling Interporosity Flow for Improved Simulation of Naturally Fractured Reservoirs", Penuela, G. (2002) (Co-Chair)
- M.S., "Underground Salt-Cavern Gas Storage" Steinberger, A. (2002)
- M.S., "Nonthesis," Matejka, M. (2001)
- M.S., "Nonthesis," Dhafeeri, A. (2001)
- Ph.D., "Simulation of Asphaltene Deposition in Petroleum Reservoirs during Primary Oil Recovery" Wang, Shaojun (2000)
- M.S., "Prediction of the Gas-Condensate Well Productivity and Field Implementation Using a Compositional Model" Penuela, G. (1999)
- M.S., "Experimental Study of the Effectiveness of Gels for Profile Modification" Prada, Alvaro, (1998)
- Ph.D., "Simultaneous Determination of Relative Permeability and Capillary Pressure from Displacement Data by Simulated Annealing" Ucan, Sezai, (1998)
- Ph.D., "Leak-off and Cleanup Behavior of Fracturing Fluids in the Presence of Mobile Hydrocarbons", Gadiyar, Bala, 09/97 (Co-Chair)
- M.S., "Thirteen-Point Finite Difference Solution for Prediction of Waterflood Sweep Efficiency" Escobar, Freddy, 08/95
- Ph.D., "Formation Damage in Two-phase Flow through Porous Media", Liu, Xinghui, 01/94
- M.S., "Acidization Induced Formation Damage-Experimental and Modeling Studies" Gadiyar, Bala, 01/94
- Ph.D., "Modeling Dissolution and Precipitation Effects in Formation Damage", Chang, Frank F., 01/92
- Ph.D., "A Knowledge-Based System Approach in Reservoir Characterization with Emphasis of the Identification of Depositional Environments", Awal, M., 09/91
- M.S., "An Experimental Study of Formation Damage in Petroleum Reservoirs", Arcia, Einstein M., 05/90
- M.S., "A Study of Chemical Comminution for Bituminous Coal Using Selected Solvents", Datta, Sisir, 05/89
- M.S., "The Transport of Solid Particles in Vertical Wellbores", Ariza, Mauricio, 05/89
- Ph.D., "Modeling and Simulation of the Effects of Clay Swelling and Fines Migration on Formation Damage", Ohen, Henry A., 06/89
- Ph.D., "Cleanup of Hydraulically Fractured Gas Wells from Fracturing Fluids", Iqbal, G. M., 01/88
- M.S., "A Study of Solvent Comminution for Croweburg Bituminous Coal", Wang, MoKiang, 01/85
- M.S., "A Compact Fourth-Order Finite Difference Scheme for Solution of One-Dimensional Diffusion-Convection Equations", Nguyen, Hai Trong, 1984
- M.S., "Chemical Comminution of Bituminous Coal Using CO₂ + H₂O", Larson, Thomas Craig, 1984
- Ph.D., "Chemical Comminution for Deep and Thin Bituminous Coal by Using CO₂ + H₂O as a Solvent", Osanloo, M., 09/82

THESIS AND DISSERTATIONS COMMITTEE

67 Theses and 54 Dissertations completed

VISITING SCHOLARS PROJECT SUPERVISION

Michel, Guillermo, post-doctoral researcher, Shale-gas reservoir simulation, January 2012-December 2013

Policarpo, Nara, Oil-field gas dissolution, exchange student from Brazil, September-December 2011, received recognition of first place in the MS/PhD division at the 2012 SPE LACPEC student paper contest, Mexico City.

Iscan, Gurkan A., Mud Cake Permeability, Visiting Scholar from Turkey, 1-9/05

Szücs, Peter, Visiting Scholar from Hungary, Groundwater Modeling, 5-8/03

Moustafa, Dr. El-Abbas, Special core analysis, Visiting Scholar from Egypt, 11/99-12/00

Shu, Shihong, Asphaltene Deposition in Cores, Visiting Scholar from China, 10/98-04/99

You, Gexin, Asphaltene Deposition in Cores, Visiting Scholar from China, 01/99-06/99

Yuan, Duan, Asphaltene Deposition in Cores, Visiting Scholar from China, 01/99-06/99

Bouhroum, Ahsene, Sand Production, Visiting Scholar from Germany, 94-96

Szücs, Peter, Simulated Annealing, Visiting Scholar from Hungary, 5-8/90

UNDERGRADUATE STUDENT PROJECT SUPERVISION

13 Completed

PROFESSIONAL OFFICES/ACTIVITIES

Offices/Committee Service in Professional Organizations

Session Chairman, Oral Session, the 5th International Conference on Porous Media and Its Applications in Science, Engineering and Industry (ICPMV), Vafai, K. (ed.), June 22-27, 2014, Kona, Hawaii, USA.

Panelist for proposal review, National Science Foundation, Arlington, VA, May 6, 2013.

Chair Oral Session 2: Porous Media Characteristics I, the 4th International Conference on Porous Media and its Applications in Science and Engineering, ICPM4, June 17-22, 2012, Potsdam, Germany.

International Organizing Committee, Third International Conference on Porous Media and its Applications in Science, Engineering and Industry, Tuscany, Italy, June 20-24, 2010.

Session Chairman, Oral Session 6: Industrial and Environmental Flow and Heat Transfer in Porous Media I, the Third ECI International Conference on Porous Media and its Applications in Science, Engineering and Industry, Montecatini Terme, Italy, June 20-25, 2010.

Session Chairman, Flow Assurance, SYMP-13, Petroleum Technology, the 28th International Conference on Ocean, Offshore and Arctic Engineering Honolulu, Hawaii, USA-31 May-5 June, 2009.

Co-chair, Session 10B Mass and Heat Transfer in Geothermal Systems and its corresponding POSTER session, International Groundwater Symposium, Istanbul, June 20, 2008.

Session Chairman, the 2008 SPE International Symposium & Exhibition on Formation Damage Control, Lafayette, Louisiana, 13-15 February 2008

International Organizing Committee, the ECI Conference on Porous Media and its Applications in Science, Engineering and Industry, Kauai, Hawaii, June 17-21, 2007

Moderator, Workshop 18: Contemporary Oil and Gas Well Completion and Work over Jobs, Petroleum Engineering Summer School, The Inter-University Center, Dubrovnik, Croatia, June 14, 2005

Gas Flow Systems session co-chair at the ATCE in Denver, 10/2003

Moderator, 2002 International SPE Undergraduate Student Paper/Presentation Contest, 10/02

SPE Colloquium for Petroleum Engineering Education, Brackenridge, Co, 7/2000, and Houston, TX, 6/2001
 Judge, SPE Student Paper Contest, Tulsa, OK, 4/2000
 Gulf of Mexico Hydrates R&D Planning Workshop, Houston, TX, 8/2000
 Member, SPE Gas Technology Symposium Program Committee, 1996
 Member, SPE ATM Gas Technology Program Committee, 1996
 Co-Chairman, Relative Permeability, Capillary Pressure, and Wettability Session, SPE Annual Tech. Conf. & Exhibition, Denver, Colorado, 10/06-09/96
 Chairman, Relative Permeability and Capillary Pressure Session, SPE 70th Annual Tech. Conf. & Exhibition, Dallas, TX, 10/95
 Co-Chairman, Relative Permeability and Capillary Pressure Session, SPE 69th Annual Tech. Conf. & Exhibition, New Orleans, LA, 09/25-28/94
 Chairman, Asphaltenes and Scales Session, 1994 SPE International Symposium on Formation Damage Control, Lafayette, LA, 02/09-10/94
 Member, Program Committee, 1994 SPE International Symposium on Formation Damage Control, Lafayette, LA, 02/09-10/94
 Chairman and Organizer, Coalbed Methane Session, 1994 AIChE Summer Nat'l Mtg., Denver, CO, 08/14-17/94
 Member, SPE Fluid Mechanics and Oil Recovery Processes Tech. Committee, 10/93 - 10/96
 Chairman and Organizer, Particulate Processes Involving Multiphase Flow Through Porous Media Session, 24th Annual Mtg. of the Fine Particle Society, Chicago, Illinois, 08/24-28/93
 Chairman, Acidizing and Stimulation Session, SPE Gas Technology Symposium, Calgary, Alberta Canada, 06/28-30/93
 Member, Program Committee, SPE Gas Technology Symposium, Calgary, Alberta, Canada, 06/28-30/93
 Co-Chairman, Perforating and Logging Session, SPE Production Operations Symposium, Oklahoma City, OK, 03/22/93
 Chairman, SPE Gas Technology Tech. Committee, 06/92 - 10/93
 Member, SPE Program Committee, 06/92 - 10/93
 Co-Chairman and Organizer, In-Situ Processing of Minerals and Fossil Fuel Session, AIChE Spring Mtg., New Orleans, LA, 03/29/92 - 04/02/92
 Session Chairman, SPE International Symposium on Formation Damage Control, Lafayette, LA, 02/26-27/92
 Chairman, Coal Bed Methane Session, SPE 66th Annual Tech. Conf. and Exhibition, Dallas, TX, 10/06-09/91
 Session Chairman, 32nd U.S. Symposium on Rock Mechanics, Norman, OK, 07/10-12/91
 Chairman and Organizer, Enhanced Oil Recovery I-IV Session, 65th Annual American Chemical Society Colloid and Surface Chemistry Symposium, 06/91
 Chairman, Fluid Flow Session, 1991 SPE Production Operations Symposium, Oklahoma City, OK, 04/91
 Chairman, Coalbed Operations Technology Session, 1990 SPE Tech. Conf. and Exhibition, New Orleans, LA, 09/23-26/90
 Member, SPE Gas Technology Committee, 1989-1992
 Instructor, Gas Gravity Measurement, International School of Hydrocarbon Measurement, Norman, OK, 1988-1995
 Chairman and Organizer, Rock-Fluid Interactions in Petroleum Reservoirs, Sessions I & II and Particulate Processes in Porous Media, Sessions I & II, AIChE Chicago Annual Mtg., 11/11-16/90

Chairman, Finite Analysis Session, IMSE-90, Integral Methods in Science and Engineering, Arlington, TX, 05/15-18/90
 Member, J. Calhoun's Petroleum Engineering Research Task Committee Mtg., Dallas, TX, 01/90
 Chairman, Systems Session, Twentieth Annual Modeling and Simulation Conf., University of Pittsburgh, PA, 05/04-05/89
 Chairman and Organizer, Enhanced Oil Recovery Session, AIChE, Orlando Spring National Mtg., Orlando, FL, 03/18-22/90, two sessions: I. CO₂ and Steam Processes, II. Chemical Processes.
 Co-Chairman, Well Testing II Session, SPE Production Operations Symposium, Oklahoma City, OK, 03/13-14/89
 Chairman, Discretization Methods Session, 10th SPE Reservoir Simulation Symposium, Houston, TX, 02/06/89
 Chairman, Hydrocarbon Technology Session, 8th Miami International Conf. on Alternative Energy Sources, Miami Beach, FL, 12/14-16/87
 Member, 10th SPE Reservoir Simulation Symposium Committee, 11/87 - 02/89
 Co-Chairman and Organizer, Enhanced Oil Recovery Session, 1988 Spring AIChE Mtg., New Orleans, LA, 03/06-10/88
 Co-Chairman, Stimulation II Session, 1987 SPE Production Operations Symposium, Oklahoma City, OK, 03/10/87
 Judge, 1986 International SPE Student Paper Contest, 10/86
 Chairman, Engineering Sciences Division, Oklahoma Academy of Science, 1984-1985
 Chairman, Quadrature Session and Fluid Dynamics Session, International Symposium on Integro-Differential Equations, University of Texas, Arlington, TX, 12/84 - 03/85.

University, College and School Administrative and Service Activities

Patent Advisory Committee, Term 2014-17
 MPGE Undergraduate Committee 2012
 The MCEE Executive Committee, 2011
 Committee for the Performance Evaluation of the Dean, September 1, 2010-January 30, 2012
 MPGE Faculty Search Committee 2010
 MPGE Undergraduate Committee 2010
 The Mewbourne College Executive Committee, 2008
 Academic Appeals/Misconduct Faculty Panel, 2008-2009
 Committee A, 9/07-2010
 MPGE Honors Coordinator, 01/07 – 08/2015
 University Libraries Advisory Committee for Serials Review, 09/06
 Library Representative, 09/06
 MPGE Faculty Search Committee, 05/06 – 07
 MPGE Graduate Program Committee, 01/05
 Representative to the University of Oklahoma Faculty Senate, 2004-07
 Committee A, 4/04-8/05
 Academic Appeals/Misconduct Faculty Panel, 2003-2004
 Patent Advisory Committee, 2002-2005.
 COE Dean's Evaluation Committee, 2002-2003
 PGE RMI Liaison, 01/01 - 02
 Session chair, Undergraduate Research Day, 4/01
 Representative to the University of Oklahoma Faculty Senate, 8/01-5/02
 PGE Director Search Committee, 01/01 – 12/02

Graduate Liaison of Natural Gas Engineering and Management, 01/01-01/07
 Ad hoc Committee on PGE Computing Needs, 2000
 Graduate College Academic Appeals Panel, 2000- 04
 Academic Appeal/Misconduct Faculty Board, 2000- 2004
 Associate Director for Reservoir Engineering, 9/99-04
 Committee A, 6/98-8/00
 PGE Outcomes Assessment Report for 1998-2001
 College of Engineering Academic Misconduct/Appeals Board, 9/97-04
 Representative to the University of Oklahoma Faculty Senate, 1996-1997
 Faculty Advisor for the Turkish Student Association, University of Oklahoma, 1996-1997
 Hughes Professorship Evaluation Committee Member, 10/96
 Graduate College Academic Misconduct Panel, 05/95
 Dean's Senior Faculty Advisory Committee, 1995-1997
 PGE Committee A, 09/92 - 09/95.
 University Libraries Committee, 1992-1995
 Search Committee for Associate Dean for Research, 09/92 - 10/92
 Graduate Advisor, School of Petroleum and Geological Engineering, University of Oklahoma,
 01/89 - 06/90
 PGE Director Search Committee Chairman, 09/89 - 06/90
 Ad Hoc PGE Computer Committee, 09/89 - 09/90
 Graduate Faculty Member, 1983-present
 PGE Honors' Coordinator, 03/87 - 03/89
 Academic Appeals and Misconduct Board, 04/87 - 04/89
 PGE Program Review Task, SSC Chair, 09/87 - 02/88
 PGE Committee A, 09/87 - 09/90
 McCasland Chair Search Committee, 10/87 - 10/88
 Instructional Facilities Sub-Committee of the Space and Facilities Planning, 11/87 - 11/88
 Mobil PVT Lab Committee, 1986 - 87
 ENGR 3001 Committee, 1985-1986
 PGE Alumni/Industry Relations Committee, 1985 - 86
 Undergraduate Programs Coordinating Committee, 1984-1986
 Ad Hoc Committee on Faculty Work Stations, 1984-1985
 University of Oklahoma United Way Campaign Representative, 1984-1985
 Petroleum and Geological Engineering Graduate Committee, 09/83 - Present
 Engineering Facilities Committee, 1983-1984
 Ad Hoc Task Force on Computing Needs of the College of Engineering, 1983-1984
 Commencement Committee, 1983-1986
 Engineering Convocation Committee, 09/82 - 09/83
 Engineering Computer Services Advisory Committee, 09/81 - 09/82
 Engineering Physics Program Committee, 09/81- 09/83
 Directed the Unit Operation Laboratory, ITU, 01/79- 09/80

Grant Proposal Review

Reviewed proposals for EPSCoR, National Science Foundation, U.S. Department of Energy,
 U.S. Department of Education, Natural Sciences and Engineering Research Council of
 Canada, and State of Louisiana

Editorial/Reviewing Service Position (15 Total)

Special Topics & Reviews in Porous Media-An International Journal (STRPM), Editorial Board Member, 01/10 - 2015

International Journal of Petroleum Science and Technology, Editorial Board Member, 01/06-2015

Journal of Porous Media, Editorial Advisory Board, 08/01 - 2015

ASME Journal of Energy Resources Technology, Associate Editors Board, 05/01- 2007.

Turkish Journal of Oil and Gas, Technical Editors Board, 05/95 – 2005.

Journal of Petroleum Science and Engineering, Associate Editors Board, 09/90 – 2007.

Guest Editor of a Special Issue of the Journal of Energy Resources Technology (JERT), Transactions of ASME, on “Advancements in the Evaluation and Mitigation of Formation Damage in Petroleum Reservoirs,” Journal of Energy Resources Technology, Vol. 127, September 2005

Editor, “Near Wellbore Damage and Remediation”, Special Issue, J. of Petroleum Science and Engineering, Vol. 17, No. 1/2, 02/97, 196 pages

Member, Journal of Petroleum Technology, Special Series Committee, 1996-1997

Technical Editor, SPE Reservoir Engineering J., 04/93 - 09/97

Co-Editor, “Hydrocarbon Recovery and Related Topics”, Special Issue, J. of Petroleum Science and Engineering, Vol. 3, Nos. 1/2, 10/89, 200 pages

Reviewed papers for Stimulation II Session, 1987 SPE Production Operations Symposium, Oklahoma City, OK, 1987

Editorial Assistant, J. of Petroleum Science and Engineering, 10/86 - 09/90

Book Review Editor, J. of Petroleum Science and Engineering, Elsevier Science Pub., 10/86 - 09/90

Reviewed papers for the Proceedings of the IMSE85, Integral Methods in Science and Engineering, University of Texas, Arlington, TX, 03/18-21/85

Reviewed papers for Journals of Society of Petroleum Engineers, Numerical Methods for Partial Differential Equations, J. Petroleum Science and Engineering, In-situ J., Integral Methods in Science and Engineering, Journal of Computational Physics, Journal of Canadian Petroleum Technology, Journal of Petroleum Technology, SPE Reservoir Engineering, J. Mathematical and Computer Modeling, Turkish Oil and Gas J., J. of Porous Media, ASME Journal of Energy Resources Technology, J. Colloid and Interface Science, AIChE J., Chemical Engineering Journal, Geophysical Research Letters, OGST Oil & Gas Science and Technology-Revue de l'IF, Transport in Porous Media, Powder Technology, European Polymer Journal.

RESEARCH GRANTS RECEIVED (49 Totals)

Devegowda, D., Civan, F., and Sigal, R., RFP 2009UN001, Simulation of Shale Gas Reservoirs Incorporating Appropriate Pore Geometry and the Correct Physics of Capillarity and Fluid Transport, \$1.3 Million, funded by PRSEA, 10/1/2010-10/1/2013.

Devegowda, D., Civan, F., and Sigal, R., Simulation of Organic Shale Reservoirs Industry Consortium for RPSEA Matching Required: BP, Total, Newfield, Exco, Chesapeake, Southwester Energy, Weatherford, \$45,000 per company, 2010-present. Web site: shale.ou.edu

Travel funds to participate in the Third ECI International Conference on Porous Media and its Applications in Science, Engineering and Industry, June 20-25, 2010, Montecatini Terme, Italy, pp. 53-58, 2010., The Office of the Vice President for Research, the University of Oklahoma, 2010, \$1,200.00.

- Travel funds to participate in The 6th International Conference: Dynamical Systems and Applications-2010. Antalya–Turkey, July 10-14, 2010, The Office of the Vice President for Research, the University of Oklahoma, 2010, \$735.00.
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation,” 1-12/2010, \$20,000
- Williams Midstream - Operation Performance Group, P.O. Box 3448, MD WRC3-9, Tulsa, OK 74101, “Measurement and correlation of the effect of mixing on solubility of BTEX in aqueous amine solutions,” \$20,000 OU Foundation, June 2009.
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation,” 1-12/2009, \$20,000
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation,” 1-12/2008, \$20,000
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation,” 1-12/2007, \$20,000
- Travel funds to participate in the Conference on Porous Media and its Applications in Science, Engineering and Industry Kauai, HI, June 2007, The Office of the Vice President for Research, the University of Oklahoma, February 16, 2007, \$1,200.00
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation,” 1-12/2006, \$20,000
- "Kinetics of Hydrate Formation and Dissociation," \$8,595 from the Parsons Corporation, co-PI (50%) with PI R. G. Hughes, 2005.
- "Non-equilibrium Kinetics of Hydrate Formation in Porous Media -Phase I," National Energy Technology Laboratory, \$8,595, co-PI (50%) with PI R. G. Hughes, NETL, and Collaborator: C. Taylor (2004)
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation,” 1/2003-12/2004, \$17,500 and 1/2004-12/2005, \$20,000
- (w/R. G. Hughes, C. J. Mankin, B. J. McPherson, and several others) "Southwest Regional Partnership on Carbon Sequestration", U.S. Department of Energy, (Civan contributes as a consultant on mineralization) 2003-2004, exact \$ amount depends on participation on a need basis
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation Related to Alkaline Flooding,” 1/2002-12/2003, \$12,000
- Undergraduate Design Project Grant, Schlumberger Ambassadors Program, \$5,000, 1-12/2002
- “Experimental studies for flow and downhole placement of corrosion inhibiting emulsions in wells,” Baker Petrolite, \$29,882, 2/1-12/31/02
- Phillips Petroleum OU PhD fellowship, “Formation Damage Removal and Remediation Related to Alkaline Flooding,” 1/2001-12/2002, \$24,000
- (w/Hughes) “Continuation of Experimental and Theoretical Studies on the Stability of Hydrate Bearing Formations,” The University of Oklahoma Research Council Funds, co-PI with PI R. G. Hughes, \$6,800., 01/01-12/31/02
- (w/Wiggins) “Development of Reservoir Characterization Techniques and Production Models for Naturally Fractured Reservoirs” U.S. Department of Energy, 7/99-6/02, \$762,742, Civan begun 16-5/2001
- (w/Dewers, Atkinson) “Formation Damage and Carbonate Scale During Sub-Salt Petroleum Production”, \$18,644. , Interdisciplinary Research Incentive Program, University of Oklahoma, 1/1/00-12/31/00 (Civan, Co-PI)

- (w/Wiggins) "Modeling of Flow through Fiber Preforms," subproject in "Artificial Hip Replacement" group project (PI: R. Shambaugh), Hawthorne York International, Ltd., \$313,517 total, 5/16-31/99
- "Evaluation of Gels for Profile Modification", Chemicals provided by Halliburton Energy Services, 1-6/98
- "Simulator Development for Interpretation of Laboratory Core Tests Involving Organic Deposition During the Flow of Oil", BDM Petroleum Technologies, \$12,622, 07/10/97 - 10/10/97
- "Experimental Investigation of the Corrosion Inhibiting Emulsion Placement in Vertical Wells", Petrolite Corporation, \$14,499, 06/01/96 - 07/19/96
- "Prediction of Waterflood Sweep Efficiency in Heterogeneous Reservoirs", GYPSY, DOE, Subproject in GYPSY Field Project in Reservoir Characterization, \$350,000, 04/06/95 - 04/05/96 (Civan, Co-PI)
- "Modeling Proppant Transport in Hydraulically Created Fractures", FFCF, DOE, GRI, University of Oklahoma, participated at 10% FTE as a research associate, 09/93 - 08/94
- "Prediction of Waterflood Sweep Efficiency in Heterogeneous Reservoirs", GYPSY, DOE, Subproject in GYPSY Field Project in Reservoir Characterization, \$348,000, 05/19/94 - 05/18/96 (Civan, Co-PI)
- (w/Bouhroum) "Analysis of Gravel Requirements for Productivity Optimization under Two-Phase Hydrodynamic Flowing Conditions", \$6,000, 01/93 - 12/93
- (w/Kukreti and Zaman) "Effect of Fluid Hydraulics on Petroleum Rock Behavior", OCAST, \$171,000, 07/01/92 - 06/30/95
- "Predictability of Formation Damage - An Assessment Study and Generalized Models", U.S. Department of Energy, Geoscience Applicable to Mobile/Immobile Oil, \$193,017, 04/90 - 10/92
- (w/Evans) "Characterization of Non-Darcy Multiphase Flow in Petroleum Bearing Formation", U.S. Department of Energy, Geoscience Applicable to Mobile/Immobile Oil, \$301,826, 04/90 - 06/93
- (w/Roegiers) "Formation Damage/Rock Mechanics Consortium", University of Oklahoma, Research Tasks, \$50,000, 01/91 - 03/31/92
- (w/Roegiers and Evans) "Fracturing Fluid Characterization Gas Research Institute", worked on the rheology models for non-Newtonian fluids used in fracturing, \$2,178.64, 01/01/91 - 05/31/91
- (w/Kukreti and Zaman) "Constitutive Modeling of Geological Formations Considering Permeability Alterations Due to Fluid Withdrawal", Oklahoma Mining and Mineral Resources Research Institute, \$50,864, 07/01/90 - 06/30/91
- (w/Roegiers) "Solvent Treatment for Enhanced Recovery of Coalbed Methane", Gas Research Institute, \$120,437, 07/01/90 - 08/31/91
- "Characterization of Fluid Behavior in Fractal Media", University of Oklahoma, Energy Center (67% FTE) and School of Petroleum and Geological Engineering (33% FTE), \$13,845, 05/16/89 - 08/15/89
- "Characterization of Formation Damage in Petroleum Reservoirs", University of Oklahoma Associate Research/Creative Activity Funds, Research Award for equipment and supplies, \$9,793, 02/89
- (w/Donaldson) "Conductivity Mapping to Determine Interwell Fluid Saturations in Geological Structures", Energy Center, University of Oklahoma, \$11,000, 09/88 - 06/89
- (w/Tiab) "Thermodynamic Analysis of Transient Fluid Flow in Porous Media (Research Experience for Undergraduates Supplement)", Oklahoma State University, (NSF-EPSCoR) \$6,000, 05/15/87 - 08/15/87 and \$2,990, 09/01/89 - 03/31/90

- (w/Donaldson) "Quantitative Evaluation of Rapid Flow in Porous Media", Energy Resources Institute, University of Oklahoma, \$24,414, 07/87 - 06/88
- (w/Tiab) "Thermodynamic Analysis of Transient Fluid Flow", National Science Foundation and EPSCOR Proposal, \$68,883, 09/01/86 - 01/31/89
- (w/Knapp) "Feasibility Study and System Design for an Operational Solvent Comminution System for Mining Deep and Thin Bituminous Coal Reserves", US DOE, \$97,966, 11/01/86 - 01/31/89
- "Analytical and Experimental Studies on the Generation, Migration and Retention of Fine Particles during Flow through Porous Formations", US DOE, \$50,000, 11/01/86 - 01/31/89
- (w/Zaman and Kukreti) "Modeling of Flow of Immiscible Fluids in Heterogeneous, Irregular Shaped Reservoirs for Efficient Oil Recovery", Energy Resources Institute, University of Oklahoma, \$24,080, 06/84 - 06/85
- (w/Knapp) "In-Situ Mining of Bituminous Coal via Solvent Comminution Process", Oklahoma Mining Mineral Resources Research Institute, \$10,000, 06/83 - 06/84
- "Solution of Equation for Convection-Diffusion through Porous Media by Special Transformations", Energy Resources Center, University of Oklahoma, Research Award, \$5,000, 07/81 - 06/82
- (w/Knapp) "Chemical Comminution for Deep and Thin Bituminous Coal of Oklahoma", Oklahoma Mining and Mineral Resources Research Institute, Oklahoma Geological Survey, \$7,500, 09/81 - 06/82

BOOKS AND BOOK CONTRIBUTIONS (25 Total)

- Civan, F., Reservoir Formation Damage- Fundamentals, Modeling, Assessment, and Mitigation, 3rd Ed., Gulf Professional Publishing, Elsevier, Burlington, MA, USA, ISBN-9780128018989, 1042 p., 2016, www.elsevier.com.**
- Devegowda, D., Xiong, X., Civan, F., and Sigal, R., The Role of Pore Proximity in Governing Fluid PVT Behavior and Produced Fluids Composition in Liquids-Rich Shale Reservoirs, Chapter 6 in Unconventional Oil and Gas Resources Handbook, Evaluation and Development, Ma, Y. Zee, and Holditch, Stephen A. (Eds), Gulf Professional Publishing, Elsevier, Burlington, MA, USA, ISBN: 978-0-12-802238-2, pp. 173-198, 2016.
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- Civan, F., Porous Media Transport Phenomena, John Wiley & Sons, Hoboken, New Jersey, NY, USA, ISBN: 978-0-470-64995-4, 463 p., 2011.**
- Civan, F., Reservoir Formation Damage- Fundamentals, Modeling, Assessment, and Mitigation, 2nd Ed., Gulf Professional Publishing, Elsevier, Burlington, MA, USA, ISBN-13: 978-0-7506-7738-7, ISBN-10: 0-7506-7738-4, 1114 p., 2007, www.elsevier.com.**

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- Civan, F.: "Modified Formulations of Particle Deposition and Removal Kinetics in Saturated Porous Media," *Transport in Porous Media*, DOI 10.1007/s11242-015-0600-z, Vol. 111, No. 2, pp. 381-410, January 2016.
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- Rasmussen, M.L. and Civan, F., "Analytical Modeling of Non-Fickian Wave-Diffusion of Gas in Heterogeneous Media," *Applied mathematical Modelling*, Vol. 39, Issue 2, pp. 862–880, January 2015.
- Civan, F., "Volume-Averaging Issues Illustrated for Porous-Media Thermo-Fluid Transport," *Special Topics & Reviews in Porous Media - An International Journal*, Vol. 5, No. 1, pp. 83-94, 2014.
- Barajas-Cortes, P.E. and Civan, F., "Effective Modeling and Analysis of Salt Cavern Natural Gas Storage," Paper SPE-164489-MS, *SPE Production & Operations*, Vol. 29, No. 1, pp. 51-60, 2014.
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- Liu, X. and Civan, F., "Characterization and Prediction of Formation Damage in Two-Phase Flow Systems", SPE 25429, Proceedings of the SPE Production Operations Symposium, Oklahoma City, OK, 03/21-23/93, pp. 231-248.
- Liu, X. and Civan, F., "A Multi-Phase Mud Fluid Infiltration and Filter Cake Formation Model", Paper SPE 25215, Proceedings of the SPE International Symposium on Oilfield Chemistry, New Orleans, LA, 02/28 - 03/03/93, pp. 607-621.

- Civan, F., "Finite Analytic-Cubature Based Numerical Method for Reservoir Simulation", Proceedings of the 3rd European Conf. on Mathematics of Oil Recovery, Delft University of Technology, The Netherlands, 06/17-19/92, pp. 263-271.
- Civan, F., "Determination of Specific Gravity of Gases", Proceedings of Sixty-Seventh International School of Hydrocarbon Measurement, Norman, OK, 05/19-21/92, pp. 487-494.
- Chang, F.F., and Civan, F., "Predictability of Formation Damage by Modeling Chemical and Mechanical Processes", Paper SPE 23793, Proceedings of the SPE International Symposium on Formation Damage Control, Lafayette, LA, 02/26-27/92, 1992, pp. 293-312.
- Civan, F., "Evaluation and Comparison of the Formation Damage Models", Paper SPE 23787, Proceedings of the SPE International Symposium on Formation Damage Control, Lafayette, LA, 02/26-27/92, 1992, pp. 219-236.
- Civan, F., and Tiab, D., "Steady and Semi-Steady State Radial Flow Equations for Bounded and Partial Water-Drive Oil and Gas Reservoirs using Darcy, Forchheimer, Brinkman, and Capillary- Orifice Models", Paper SPE 22923, Proceedings of the SPE 66th Annual Tech. Conf. and Exhibition, Dallas, TX, 10/06-09/91, pp. 381-386.
- Chang, F.F., and Civan, F., "Modeling of Formation Damage due to Physical and Chemical Interactions between Fluids and Reservoir Rocks", Paper SPE 22856, Proceeding of the 66th Annual Tech. Conf. and Exhibition of the SPE, Dallas, TX, 10/06-09/91.
- Ohen, H.A. and Civan, F., "Predicting Skin Effects Due to Formation Damage by Fines Migration", Paper SPE 21675, Proceedings of the 1991 SPE Production Operations Symposium, Oklahoma City, OK, 04/07-09/91, pp. 399-410.
- Civan, F. and Evans, R.D., "Non-Darcy Flow Coefficients and Relative Permeabilities for Gas/Brine Systems", Paper SPE 21516, Proceedings of SPE Gas Technology Symposium, Houston, TX, 01/23-25/91, pp. 341-352.
- Civan, F., "A Generalized Model for Formation Damage by Rock-Fluid Interactions and Particulate Processes", Paper SPE 21183, Proceedings of SPE 1990 Latin American Petroleum Engineering Conf., Rio de Janeiro, Brazil, 10/14-19/90, 11 pages.
- Civan, F., "Determination of Specific Gravity of Gases", Proceedings of Sixty-Fourth International School of Hydrocarbon Measurement, Norman, OK, 05/22-24/90, pp. 17-24 (Note: This paper was previously published in the Sixty-Third Proceedings).
- Ohen, H.A. and Civan, F., "Simulation of Formation Damage in Petroleum Reservoirs", SPE 19420, Proceedings of the 1990 SPE Symposium on Formation Damage Control, Lafayette, LA, 02/22-23/90, pp. 185-200.
- Ohen, H.A. and Civan, F., "Predicting Fines Generation, Migration and Deposition Near Injection and Production Wells", Proceedings of the First Regional Mtg., American Filtration Society, Houston, TX, 10/30/89 - 11/01/89, pp. 161-164.
- Civan, F., "Review of Methods for Measurement of Natural Gas Specific Gravity", SPE 19073, Proceedings of the SPE 1989 Gas Technology Symposium, Dallas, TX, 06/07-09/89, pp. 173-186.
- Civan, F., "Differential Cubature for Multi-Dimensional Problems", Proceedings of the Twentieth Annual Modeling and Simulation Conf., University of Pittsburgh, PA, 05/04-05/89, Eds.: Vogt, W.G., and Mickle, M.H., Vol. 20, Part 5, 1989, pp. 1843-1847.
- Civan, F., "Determination of Specific Gravity of Gases", Proceedings of Sixty-Fourth International School of Hydrocarbon Measurement, Norman, OK, 05/17/89, pp. 413-420 (Note: This paper was previously published in the Sixty-Third Proceedings).
- Civan, F. and Tiab D., "Second Law Analysis of Petroleum Reservoirs for Optimized Performance", Paper SPE 18855, Proceedings of the SPE 1989 Production Operations Symposium, Oklahoma City, OK, 03/12-14/89, pp. 285-294.

- Civan, F., "Differential Quadrature for Reservoir Simulation", short note, SPE 18446, Proceedings of the SPE Symposium on Reservoir Simulation, Houston, TX, 02/06-08/89, pp. 506.
- Knapp, R.M., Civan, F. and McInerney, M.J., "Modeling Growth and Transport of Microorganisms in Porous Formations", 12th IMACS World Congress on Scientific Computation, Paris, France, 07/18-22/88, IMACS 1988, Proceedings of 12th World Congress on Scientific Computation, Vichnevetsky, R., Borne, P. and Vignes, J. (Eds.), Vol. 3, 1988, pp. 676-679.
- Civan, F., "Determination of Specific Gravity of Gases", Proceedings of Sixty-Third International School of Hydrocarbon Measurement, Norman, OK, 05/88, pp. 362-369.
- Donaldson, E.C., Civan, F. and Alam, W., "Relative Permeabilities at Simulated Reservoir Conditions", Proceedings of 1987 SPE Annual Tech. Conf. and Exhibition, Paper SPE 16970, Dallas, TX, September 1987.
- Blick, E.F. and Civan, F., "Porous Media Momentum Equation for Highly Accelerated Flow", SPE 16202, Proceedings of SPE Production Operations Symposium, Oklahoma City, OK, 03/87, pp. 169-177.
- Civan, F. and Donaldson, E.C., "Relative Permeability from Unsteady State Displacements: An Analytical Interpretation", Proceedings of SPE Production Operations Symposium, Paper SPE 16200, Oklahoma City, OK, March 1987, pp. 139-155.
- Civan, F. and Knapp, R.M., "Effect of Clay Swelling and Fines Migration on Formation Permeability", SPE 16235, Proceedings of the SPE Production Operations Symposium, Oklahoma City, OK, 03/87, pp. 475-483.
- Kukreti, A.R., Zaman, Md., Civan, F., Perera, Y., and Biswas, G., "Simulation of Waterflooding in Heterogeneous, Compressible and Irregularly Shaped Reservoirs", Proceedings of the International Symposium on Variational Methods in Geosciences, 10/15-17/85, 1986, pp. 279-284.
- Iqbal, G.M. and Civan, F., "Reservoir Simulation Based on the Finite Analytic Method", SPE 15625, SPE Proceedings, 61st Annual Tech. Conf. and Exhibition, New Orleans, LA, 10/05-08/86.
- Cho, S. Civan, F. and Starling, K. , "A Correlation to Predict Maximum Condensation for Retrograde Condensation Fluids and Its Use in Pressure-Depletion Calculation", SPE 14268, SPE Proceedings 60th Annual Tech. Conf. and Exhibition, Las Vegas, NV, 09/22-25/85.
- Civan, F. and Knapp, R.M. , "Solution of Convection Dominated Transport Equations by Coordinate Stretching", Proceedings of the 10th IMACS World Congress on Systems Simulation & Scientific Computation, Vol. 1, Montreal, Canada, 08/08-13/83, 171-174.
- Candar, C., Civan, F., and Kadioglu, E., "Catalytic Tubular Reactor Design for Ethylene Oxide Production", VII Science Congress, 09/29/80 - 10/03/80, Kusadasi-Aydin, Turkey, the Scientific & Tech. Research Council Proceedings, 1982, pp. 61-72.
- Baykal, Y., Candar, V., Mirzai, A. and Civan, F., "Transport of Mass Due to Bulk flow and Diffusion along a Horizontal Packed Pipe", VII Science Congress, 09/29/80 - 10/03/80, Kusadasi-Aydin, Turkey, The Scientific and Tech. Research Council Proceedings, 1982, pp. 93-98.
- Civan, F., "Open Atmosphere Spray Cooling Units-A Transport Phenomenological Analysis and Macroscopic Model for the Calculation of the Thermal Cooling Efficiency", Proceedings of the 2nd Nat'l Conf. of Heat Science and Technique, 10/79, Istanbul, Turkey, pp. 87-105.

UNPUBLISHED CONFERENCE PRESENTATIONS (51 Total)

- Altunbay, M.M, Civan, F., Worthington, P.F., and Aziz, S.B., "Parity in Rock-Typing for Geology, Petrophysics, and Engineering by Tackling Interconnectivity with a Fractal Leaky-Tubes Description," Paper AAPG 1948226, the AAPG 2014 International Conference & Exhibition in Istanbul, Turkey, 14-17 September 2014.
- Cicek, M., Devegowda, D., Civan, F., Sigal, R., "Unconventional Reservoir Characterization with Upscaled Permeability Using SEM," Paper AAPG 1949035, the AAPG 2014 International Conference & Exhibition in Istanbul, Turkey, 14-17 September 2014.
- Civan, F., Exploring the Effective Utilization of Field Water and Optimized Value of Water Cycle in Petroleum Reservoir Operations," the speaker faculty for The Woodford Production Optimization Congress taking place August 27-28 in Oklahoma City.
- Civan, F., Challenges and Prospects of Hydrocarbons Recovery from the Worldwide Shale Oil, Condensate, and Gas Reserves: Key Issues, Proper Modeling, Critical Advancements, and Impact of Fracking Technology, 60 minutes Opening Keynote Talk, the 5th International Conference on Porous Media and Its Applications in Science, Engineering and Industry (ICPMV), Vafai, K. (ed.), June 22-27, 2014, Kona, Hawaii, USA.
- Civan, F., Impact of Fracking Technology and Production on the Worldwide Shale Oil and Gas Reserves, the VIII Annual Meeting of Energy and Petroleum (ENAEP) 2013, Quito, Ecuador, November 26, 2013.
- Civan, F., Theoretical and Design Requirements of a Rigorous Shale Gas and Condensate Reservoir Analysis, the VII Annual Oil and Energy Encounter (ENAEP) 2012, Quito, Ecuador, November 28, 2012.
- Civan, F., Determination of shale-gas reservoir parameters by Steady- and Unsteady-State Laboratory Methods, the VII Annual Oil and Energy Encounter (ENAEP) 2012, Quito, Ecuador, November 28, 2012.
- Civan, F., A Critical Review of Essentials, Assessment, and Mitigation of Water Quality, Compatibility, and Injectivity for IOR/EOR, SPE Applied Technology Workshop, Keynote speaker/panelist, Oil and Gas Water Management: From Reservoir to Reuse/Disposal, Dhahran, Saudi Arabia, 20–21 March 2012.
- Civan, F., "Comparison of Control Volume Analysis and Porous Media Averaging for Formulation of Porous Media Transport," Invited speaker to present a plenary lecture (50 minutes), Workshop on "Fluid Dynamics in Porous Media," September 12-14, 2011, Coimbra, Portugal.
- Civan, F., "Solving Nonlinear Transport Equations using the Practical Finite-Analytic Method (PFAM)," Invited speaker to present a plenary lecture (50 minutes), Workshop on "Fluid Dynamics in Porous Media," September 12-14, 2011, Coimbra, Portugal.
- Civan, F., "Formulation of Gas Transfer through Extremely Low-permeability Porous Materials," Invited speaker to present a plenary lecture (50 minutes), Workshop on "Fluid Dynamics in Porous Media," September 12-14, 2011, Coimbra, Portugal.
- Hudson, J., Civan, F., Michel, G.G., Devegowda, D., and Sigal, R. F., "Quad-Porosity Models for Accurate Characterization of Shale Gas Reservoirs," the SPWLA Unconventional Resources Special Interest Group Conference, Houston, Texas, July 27, 2011.
- Michel, G.G., Sigal, R. F., Civan, F., and Devegowda, D., "Modeling Transport in Nano-Porous Organic Pores," the SPWLA Unconventional Resources Special Interest Group Conference, Houston, Texas, July 27, 2011.
- Civan, F., "Applications and Problems of Clays and Clay Minerals in Petroleum Industry, Invited Lecture" the EUROCLAY 2011 Conference, June 26-July 1, 2011 Antalya-Turkey.
- Civan, F., "Response of Clayey Sandstone to Chemical, Hydrodynamic, and Thermal Shock Phenomena Formulated by Rate Equations," the EUROCLAY 2011 Conference, June 26-July 1, 2011 Antalya-Turkey.

- Civan, F., "Transient-State Modeling of Physico-Chemical Sensitivity and Reactivity of Clays and Consequent Porosity and Permeability Variation in Petroleum Reservoirs," the EUROCLAY 2011 Conference, June 26-July 1, 2011 Antalya-Turkey
- Triana, Bielenis Villanueva and Civan, F., "A Practical Approach to Modeling Production from Commingled Multilayer Reservoirs involving Cross-flow and Different Boundary Effects", oral presentation at SPE Bergen One Day Seminar on April 6th 2011.
- Devegowda, D., and Sigal, R., Civan, F., J. Andrade, "Issues with the Simulation of Shale Gas Reservoirs." Paper presented at the AAPG/SPE/SEG Hedberg Research Conference "Critical Assessment of Shale Resource Plays," Austin, Texas, December 5-10, 2010.
- Civan, F., "Practical Finite-Analytic Method (PFAM) for Accurate Numerical Solution of Ordinary and Partial Differential Equations," The 6th International Conference: Dynamical Systems and Applications-2010. Antalya–Turkey, July 10-14, 2010.
- Daneshfar, J., Civan, F., and Hughes, R.G., "Feasibility Investigation and Modeling Analysis of CO₂ Sequestration in Arbuckle Formation Utilizing Salt Water Disposal Wells," Paper No. 195, Sixth Annual Conference of Carbon Capture & Sequestration, Sheraton Station Square, Pittsburgh, PA, May 7-10, 2007.
- Tran, T., Civan, F., Taylor, C., and Deffenbaugh, P., "A Non-Equilibrium Model of the Kinetics of Hydrate Formation," the 2006 AIChE Annual Meeting, San Francisco, CA, November 12-17, 2006.
- Civan, F. "Production of Deep Coal Reserves through Wells by In Situ Chemical Comminution," 41st Forum on the Geology Of Industrial Minerals, Istanbul Technical University, Istanbul – Turkey, May 22-25, 2005, abstract published on p.9.
- Daneshfar, J., Civan, F., and Hughes, R. G., "Aquifer Sequestration Utilizing Commercial Disposal Wells," presented at the Petroleum Society's 5th Canadian International Petroleum Conference (55th Annual Technical Meeting), Calgary, Alberta, Canada, June 8-10, 2004.
- Sanghvi, G., Garcia, D., Civan, F., Shaw, M.T., Campbell, S.E., and Bartrip, K.A., "Down-Hole Placement and Optimization of Corrosion Inhibitor Containing Emulsion in Vertical Wells," Poster presentation at the 78th Annual Meeting of the American Association for the Advancement of Science Southwestern and Rocky Mountain Division, Tulsa, OK, April 11, 2003.
- Gonzalez, C.M.C., Hughes, R.G., Civan, F., and Taylor, C., "Equilibrium and Non-Equilibrium Models Applied to Hydrate Formation and Dissociation Experiments," Paper No. 82e, presented at the AIChE meeting, Advanced Gas Conversion 1, New Orleans, LA, March, 2003.
- Hughes, R.G., Martinez, L., Penuela, G., Civan, F., and Wiggins, M.L., "Integrated Modeling of Flow in Naturally Fractured Reservoirs," presented at the Naturally Fractured Reservoirs meeting, Oklahoma City, Oklahoma, June 4, 2002.
- Civan, F. and Rasmussen, M., "Asymptotic Analytical Solutions for Imbibition-Aided Waterfloods in Fractured Reservoirs", 36th Annual Technical Meeting, Society of Engineering Science, The University of Texas at Austin, Austin, Texas, October 25-27, 1999.
- Civan, F., "Modeling of Multi-Particle and Multi-Phase Flow and Rock-Fluid-Particle Interactions in Geological Porous Formations", presented at the 3rd SIAM Conf. on Mathematical and Computational Issues in the Geosciences, San Antonio, TX, 02/08-10/95.
- Civan, F., Roegiers, J-C., and Sarma, S.) "Chemical Treatment for Enhanced Recovery of Coalbed Methane", AIChE Summer Nat'l Mtg., Denver, CO, 08/15/94.
- Gupta, A. and Civan, F., "Characterization of Formation Damage and Adsorption/ Desorption in Coalbed Methane Reservoirs", AIChE Summer Nat'l Mtg., Denver, CO, 08/15/94.

- Gupta, A. and Civan, F., "Investigation of Interfacial Phenomena during Matrix to Fracture Mass Transfer in Fractured Porous Media", presented at 24th Annual Mtg. of the Fine Particle Society, Chicago, IL, 08/22-28/93.
- Bouhroum, A. and Civan, F., "Effect of Particulate Processes on Gravel Pack Performance", presented at 24th Annual Mtg. of the Fine Particle Society, Chicago, IL, 08/22-28/93.
- Lee, C.H. and Civan, F., "Modeling Interface Particle Transport in a Two-Phase System", presented at 24th Annual Mtg. of the Fine Particle Society, Chicago, IL, 08/22-28/93.
- Civan, F., "Modeling Multiphase Particulate Flow in Petroleum Bearing Formations", presented at 24th Annual Mtg. of the Fine Particle Society, Chicago, IL, 08/22-28/93.
- Civan, F., "Differential Cubature Method for Rapid and Accurate Solution of Transport Models", AIChE 1992 Annual Mtg., Miami Beach, FL, 11/01-06/92
- Civan, F., "Mud Fluid Invasion Damage Resulting from Drilling of Wells into In-Situ Mineral and Fossil Fuel Resources", presented at the AIChE 1992 Spring Nat'l Mtg., New Orleans, LA, 03/29/92 - 04/02/92.
- Chang, F.F., and Civan, F., "Modeling Formation Damage by Dissolution/Precipitation Processes", presented at the 65th Colloid and Surface Science Symposium of the American Chemical Society, Norman, OK, 06/17-19/91.
- Roegiers, J-C. and Civan, F., "Chemo-mechanical Stimulation of Coal beds", Progress Report presented at the Natural Gas Supply Project Advisors Mtg., Durango, CO, 09/19/90.
- Civan, F., "Fines Migration and Formation Damage in Petroleum Reservoirs - A Discussion of Applications to Microbial Enhanced Oil Recovery", presented during the workshop on "Modeling Flow through Porous Media with Application to Oil Reservoir Simulation", Los Alamos Nat'l Laboratory, 08/16-18/89.
- Civan, F., "Prediction of Reservoir Heterogeneity During Formation Damage", presented at the 21st Central Regional Mtg. of the American Chemical Society, John Carroll University, Cleveland, OH, 05/31/89 - 06/02/89.
- Civan, F., "Simulation of Fine Particle Processes in Porous Media", Keynote Speech given at the Eastern Simulation Conf., the Society for Computer Simulation, Tampa, FL, 03/28-31/89.
- Civan, F., "Chemical Comminution of Coal and Petroleum Bearing Formations", AIChE Chicago Mtg., 11/90.
- Civan, F., Knapp, R.M. and Ohen, H.A., "Automatic Estimation of Model Parameters for Swelling and Migration of Fine Particles in Porous Media", 1988 AIChE Mtg. in New Orleans, LA, 03/06-10/88
- Ariza, M., Civan, F., and Knapp, R.M., "Coal Slurry Transport in Vertical and Inclined Wells", 76th Annual Tech. Mtg., Oklahoma Academy of Science, Northwestern State University, Alva, OK, 03/11/87.
- Civan, F., Knapp, R.M. and Datta, S., "Solvent Mining of Deep Coal Reserves", 76th Annual Tech. Mtg., Oklahoma Academy of Science, Northwestern State University, Alva, OK, 03/11/87.
- Civan, F. and Sliepcevich, C.M., "Atmospheric Dispersion of Vapors From Liquefied Gas Spills", Conf. on Major Hazards in the Transport & Storage of Pressure Liquefied Gases, Fredericton, New Brunswick, Canada, 08/10-13/87.
- Kukreti, A.R., Civan, F., and Rajapaksa, Y., "Effect of Alternating Injection and Production Wells on the Recovery of Water Flooding", presented at the AIChE's Spring Nat'l Mtg., 03/87 - 04/87.
- Zaman, M.M., Kukreti, A.R., and Civan, F., "Modeling of Immiscible Displacement in Heterogeneous Reservoirs", 74th Annual Mtg. of the Oklahoma Academy of Science, Oklahoma Baptist University, Shawnee, OK, 11/15/85.

Civan, F. and Sliepcevich, C.M., "Application of Differential Quadrature for Engineering Problems", 73rd Annual Mtg. for the Oklahoma Academy of Science, East Central University, Ada, OK, 11/09/84.

Blick, E.F. and Civan, F., "The Modified Darcy Equation for Unsteady Flow", 73rd Annual Mtg. of the Oklahoma Academy of Science, East Central University, Ada, OK, 11/09/84.

Civan, F., Knapp, R.M. and McInerney, M.J., "A Simplified Model for Microbial Growth and Transport in Porous Media", 1984 Conf. on Microbial Enhanced Oil Recovery, Tulsa, OK, 07/84.

INVITED SEMINARS AND LECTURES (84 Total)

"Challenges and Prospects of Hydrocarbons Recovery from the Worldwide Shale Oil, Condensate, and Gas Reserves: Key Issues, Proper Modeling, Critical Advancements, and Impact of Fracking Technology," Seminar at the Petroleum Engineering Department, University of Tulsa, OK, 04/22/2015.

"Flow Assurance and Gelation of Oil in Sub-sea Oil Pipelines," The ERCOFTAC Oil, Gas, and Petroleum workshop, 9-10 March 2015, one hour invited lecture at TNO, Delft, The Netherlands.

"Determination of Gas-Permeability of Shale by Pressure Testing of Cores and Crushed Samples," Seminar at the Petroleum Engineering Department, Texas A&M University, College Station, TX, April 22, 2014.

"Modeling Gas Transport in Shale Reservoirs and Measuring Nano-Darcy Shale Permeability, Key Issues, and Critical Advancements," Seminar at the Department of Mechanical Engineering, Southern Methodist University, February 14, 2014.

"Key Issues, Critical Advancements, and Improved Modeling of Hydrocarbons Recovery from Shale Reservoirs," Seminar at the Petroleum & Geosystems Engineering, The University of Texas at Austin, February 3, 2014.

"Reservoir Modeling and Simulation," Seminar, SPE Student Chapter, the National Polytechnic School, Quito, Ecuador, November 29, 2012

"Determination of shale-gas reservoir parameters by Steady- and Unsteady-State Laboratory Methods," Seminar, SPE Student Chapter, the National Polytechnic School, Quito, Ecuador, November 29, 2012

"Reservoir Modeling and Simulation," Seminar presentation, Innovación tecnológica y desarrollo en la industria de Petróleo y Gas Natural, Universidad Nacional de Ingeniería, Lima - Perú, Monday, 5 November 2012.

"Theoretical and Design Requirements of a Rigorous Shale Gas and Gas/Condensate Reservoir Simulation," Seminar presented at the Petroleum Engineering Department, King Fahd University, Dhahran, Saudi Arabia, 22 March 2012.

"Theoretical and Design Requirements of a Rigorous Shale Gas and Gas/Condensate Reservoir Simulation," Seminar presented at the Petroleum Engineering Department, Louisiana State University, February 10, 2012.

"Theoretical and Design Requirements of a Rigorous Shale Gas and Gas/Condensate Reservoir Simulation," Seminar presented at the Petroleum Engineering Department, Colorado School of Mines, November 11, 2011.

"Practical Finite-Analytic Method for Solving Differential Equations by Compact Numerical Schemes," Seminar presented at the Chemical and Petroleum Engineering Department, University of Kansas, November 2, 2010.

"Formation Damage Mechanisms- Fines Migration and Mitigation," presented at the University of Oklahoma, December 11, 2009.

- "Formation Damage Mechanisms- Fines Migration and Mitigation," presented at the workshop on well productivity, Barco PTL, BP, Bogota-Colombia, November 23&24th, 2009.
- "Formation Damage Mechanisms," Seminar presented at the Young Professionals of the SPE Argentina, Buenos Aires, Argentina, October 29, 2009.
- "Formation Damage and Damage Tolerance In Coalbed Methane (CBM) and Naturally Fractured Reservoirs," Seminar presented at the University of Queensland, 18 March 2009.
- "Practical-Finite-Analytic Method (PFAM)," Seminar presented at ConocoPhillips, 600 N. Dairy Ashford, Houston, TX, November 18, 2008.
- "Correlation for Thermal Properties Based on the Vogel-Tammann-Fulcher-Hesse Equation," Seminar presented at ConocoPhillips, 600 N. Dairy Ashford, Houston, TX, November 18, 2008.
- "Nonisothermal Rapid Multiphase Flow in Wells under Nonequilibrium Conditions," Seminar presented at the Petroleum & Geosystems Engineering, The University of Texas at Austin, April 14, 2008.
- "Modeling Gas Storage in Underground Salt Caverns", Seminar presented at the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma, Norman, OK, October 26, 2007.
- "Porous Media Impairment during Flow by Particle Migration, Mobilization, and Deposition", Seminar presented in the Mechanical Engineering Speaker Series at the University of California, Riverside, California, April 27, 2007.
- Civan, F., "Formation Damage Mechanisms," 60 minutes Key-Note Speaker, IAPG Third Production Congreso, 19-22 September 2006, Mendoza, Buenos Aires, Argentina.
- "Importance and Challenging Aspects of Particulate Processes in Porous Media," talk given at Panel on Transport Phenomena in Porous Media at the AIAA/ASME Joint Thermophysics meeting in San Francisco at the Embarcadero Center, Monday June 5th, 2006.
- "Determining Relative Permeability from Unsteady-State Linear and Radial Fluid Displacements", Seminar presented at the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma, Norman, OK, 10/21/05.
- "Leaky-tube Model for Improved Equation of Permeability," invited speaker, presented at the 15th ITU Petroleum and Natural Gas Seminar and Exhibition, Maslak, Istanbul, Turkey, June 30-July 1, 2005, abstract published, p.47-48.
- "Improved Permeability Equation Based on Leaky-Tube Model", Seminar presented at the University of Miskolc, Hungary, June 19, 2005.
- "Leaky-tube Model for Improved Porosity and Permeability Relationship, Seminar presented at the Workshop 18: Contemporary Oil and Gas Well Completion and Work over Jobs, Petroleum Engineering Summer School, The Inter-University Center, Dubrovnik, Croatia, June 14, 2005.
- "Improved Permeability Equation Based on Leaky-Tube Model", Seminar presented at the Middle East Tech. University, Turkey, May 30, 2005.
- "Leaky-tube Model for Improved Porosity and Permeability Relationship," Seminar presented at the Petroleum Engineering Department, Louisiana State University, CA, March 15, 2005.
- "Leaky-tube Model for Improved Porosity and Permeability Relationship," Seminar presented at the Petroleum Engineering Department, Stanford University, CA, October 19, 2004.
- "Leaky-tube Model for Improved Porosity and Permeability Relationship," Seminar presented at the Petroleum Engineering Department, Texas A&M University, College Station, TX, September 16, 2004.
- "Leaky-tube Model for Improved Porosity and Permeability Relationship," Seminar presented at the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma, Norman, OK, September 3, 2004.

- "Hindered Matrix-Fracture Transfer in Naturally Fractured Reservoirs," invited speaker, presented at the 14th ITU Petroleum and Natural Gas Seminar and Exhibition, Maslak, Istanbul, Turkey, July 1-2, 2004.
- Guthrie, G., Bond, G.M.; Civan, F.; Evans, J.P.; Forster, C.; Hughes, R. G.; McKelvy; Brian; Widmann, B.; Ziock, CO₂ Mineralization as an Option in the Carbon Storage Strategy for the U.S. Southwest Region, [the Advanced Concepts session, 4 May 2004](#).
- "Hindered Matrix-Fracture Transfer Models of Naturally Fractured Reservoirs" Seminar at the Petroleum Engineering Department, University of Tulsa, OK, 01/23/2004.
- "Efficient Storage of Natural Gas," Seminar Sponsored by USAID, Dhaka, Bangladesh, 10/15/2003.
- "Environmental Issues Related to Natural Gas Exploitation," Seminar Sponsored by USAID and The Institution of Engineers, Dhaka, Bangladesh, 10/14/2003.
- "Formation Damage Modeling," Seminar presented at Aramco, Dahrn, Saudi Arabia, 7/7/03.
- "Practical Aspects of Formation Damage and Mitigation," Seminar presented at the Anadarko Petroleum Co., Houston, TX, 11/01/01.
- "Effect of Scale on Porosity and Permeability," Seminar presented at the Petroleum Engineering Department, University of Texas at Austin, 09/17/01.
- "Water Sensitivity and Swelling of Petroleum-Bearing Formations", Seminar presented at the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma, Norman, OK, 9/14/01.
- "Effect of Scale on Porosity and Permeability," Seminar presented at the School of Chemical Engineering and Materials Science, the University of Oklahoma, 9/13/01.
- "Compressible and Incompressible Filter Cake Models With and Without the NonDarcy Effects", Seminar at the Petroleum Engineering Department, Texas A&M University, College Station, TX, November 9, 2000.
- "Compressible and Incompressible Filter Cake Models With and Without the NonDarcy Effects", Seminar at the Schlumberger-Doll Research (SDR) in Ridgefield, Connecticut, September 25, 2000.
- "Compressible and Incompressible Filter Cake Models With and Without the NonDarcy Effects", Seminar at the Petroleum Engineering Department, University of Tulsa, OK, September 15, 2000.
- "Formation Damage Processes and their Modeling: A Review of Current Understanding", Seminar presented at the School of Geology and Geophysics at the University of Oklahoma, Norman, OK, 1/20/00
- "Cake Filtration: Mechanism, parameters, and modeling", Seminar presented at the School of Chemical Engineering and Materials Science, the University of Oklahoma, 1/28/99
- "Formation Damage and Their Modeling", Seminar presented at the Istanbul Technical University, 1/6/99.
- "Numerical Methods in Chemical Engineering" and "Cake Filtration", Seminars presented at the Yildiz Technical University, Istanbul, 12/23/98.
- "Formation Damage Processes and their Modeling: A Review of Current Understanding", Seminar presented at Petroleum Engineering Department, Penn State University, 11/14/97
- "Rapid and Accurate Numerical Simulation by the Quadrature and Cubature Methods", Seminar presented at the Petroleum Engineering Department, Penn State University, 11/14/97.
- "Formation Damage Processes and their Modeling: A Review of Current Understanding", Seminar presented at Amoco Co., Tulsa, OK, 09/29/97
- "Formation Damage Processes and their Modeling: A Review of Current Understanding", Seminar presented at Baker Petrolite, Houston, TX, 09/29/97

- "Formation Damage Processes and their Modeling: A Review of Current Understanding", Seminar presented at Halliburton Co., Duncan, OK, 09/12/97
- "Formation Damage Processes and their Modeling: A Review of Current Understanding", Seminar presented at Amoco Co., Tulsa, OK, 11/14/96
- "Finite Analytic Method", Seminar presented at the School of Mechanical Engineering at the University of Oklahoma, Norman, OK, 11/07/96.
- "Formation Damage Processes and their Modeling: A Review of Current Understanding", Seminar presented at the School of Petroleum & Geological Engineering at the University of Oklahoma, Norman, OK, 09/06/96.
- "Rapid and Accurate Numerical Simulation of Transport Processes by the Quadrature and Cubature Methods", Seminar presented at the Chemical and Petroleum Engineering Department, University of Kansas, 10/03/96.
- "Gas Measurement and Storage", Seminar presented at the Petroleum Engineering Department, Middle East Tech. University, Turkey, 07/11/96.
- "Rapid and Accurate Numerical Simulation of Transport Processes by the Quadrature and Cubature Methods", Seminar presented at the Chemical Engineering Department, University of Tulsa, 04/28/95.
- "Rapid and Accurate Numerical Simulation by the Quadrature and Cubature Methods", Seminar presented at the Petroleum Engineering Department, University of Texas at Austin, 02/20/95.
- "Overview of the Interpretation Methods for Relative Permeability and Capillary Pressure from Laboratory Core Flow Data", presented at Mobil Research and Development Co., Dallas, TX, 10/93.
- "Determination of Specific Gravity of Gases", Lecture presented at the Sixty-Eighth International School of Hydrocarbon Measurement, Oklahoma City, OK, 05/27/93.
- "Physicochemical Aspects of the Modeling Rock-Fluid Interactions in Geological Porous Media", Seminar presented at the Petroleum Engineering Department, Texas A&M University, College Station, TX, October 29, 1992.
- "Physicochemical Aspects of the Modeling Rock-Fluid Interactions in Geological Porous Media", Seminar presented at the Departments of Chemistry and Geological Sciences, Indiana University, Bloomington, IN, 10/22/92.
- "Modeling Formation Damage", Seminar presented at the Petroleum Engineering Department, University of Tulsa, 09/18/92.
- "Chemical Comminution of Coal", Seminar presented at the Department of Chemical and Petroleum Engineering, University of Kansas, 04/16/91.
- "Modeling for Formation Damage and Restoration in Oil and Gas Reservoirs", Seminar presented at the Department of Chemical and Petroleum Engineering, University of Kansas, 04/15/91.
- "Chemical Comminution of Coal", Seminar presented at the Chemical Engineering Department, University of Illinois at Chicago, 04/05/91.
- "Characterization of Multi-Phase Flow Parameters in Porous Media", Seminar presented at the School of Civil Engineering and Environmental Science, University of Oklahoma, 02/19/91.
- "Analysis and Modeling of Formation Damage in Oil and Gas Reservoirs", Seminar presented at the School of Petroleum & Geological Engineering at the University of Oklahoma, Norman, OK, 11/28/90.
- "Finite Analytic and Cubature Methods for Rapid and Accurate Solution of Engineering Problems", Seminar presented at the School of Mechanical Engineering at the University of Oklahoma, Norman, OK, 11/01/90.

- “Second Law Analysis of Fluid Flow in Tubes and Porous Media”, Seminar presented at the School of Mechanical Engineering at the University of Oklahoma, Norman, OK, 01/19/89.
- “Predictive Modeling of Formation Damage in Petroleum Reservoirs”, Seminar presented at Halliburton Services, Co., Duncan, OK, 12/09/88.
- “A Predictive Model for Formation Damage in Petroleum Reservoirs”, Seminar presented at the University of Kansas, Lawrence, KS, 11/30/88.
- “Solvent Comminution of Coal”, Seminar presented at the School of Chemical Engineering and Materials Science, the University of Oklahoma, Norman, OK, 11/03/88.
- “Relative Permeability via Unsteady State Displacement”, presented at the School of Petroleum and Geological Engineering, the University of Oklahoma, Norman, OK, 09/02/88.
- “Relative Permeability via Unsteady State Displacement”, presented at the Department of Petroleum Engineering, the University of Texas at Austin, 07/08/88.
- “Formulation and Solution of Heat Transfer Problems with Phase Change”, presented at the School of Aerospace and Mechanical Engineering, University of Oklahoma, Norman, OK, 10/15/87.
- “Finite Analytic Methods for Differential Equations”, Symposium on High-Performance Scientific Computing, University of Oklahoma, Norman, OK, 03/09-10/87
- “Finite Element and Finite Analytic Solutions of Porous Media Models”, Mathematical Modeling Seminar, Dept. of Mathematics, University of Oklahoma, 10/01/86.
- “The Quadrature Technique for the Rapid Solution of Transport Models”, presented at the School of Aerospace and Mech. Engineering, University of Oklahoma, 09/12/85.
- “Differential Quadrature Technique for the Rapid Solution of Transport Models”, presented at Mobil Research and Development Co., Dallas, TX, 07/85.
- “Differential Quadrature Technique for the Rapid Solution of Transport Models”, Enhanced Oil Recovery Seminar, presented at the Nat'l Institute for Petroleum and Energy Research, Bartlesville, OK, 12/07/84.

REPORTS (31 Total)

- (w/Devegowda, D., and Sigal, R.): RFP 2009UN001 PRSEA Project Report, Simulation of Shale Gas Reservoirs Incorporating Appropriate Pore Geometry and the Correct Physics of Capillarity and Fluid Transport, Contribution: 50%, November 2010- May 2014.
- (w/Osisanya): “Drilling Fluid Filtration Loss While Drilling,” Undergraduate Design Project Grant from the Schlumberger Ambassadors Program, 2003.
- Wiggins, M.L., Brown, R.L., Civan, F. and Hughes, R.G.: "Final Technical Report: Development of Reservoir Characterization Techniques and Production Models for Exploiting Naturally Fractured Reservoirs," Contract DE-AC26-99BC15212 submitted to the US DOE, February 2003.
- (w/Wiggins et al.) “Development of Reservoir Characterization Techniques and Production Models for Naturally Fractured Reservoirs” Final Report, U.S. Department of Energy, 8/2003.
- (w/Wiggins et al.) “Development of Reservoir Characterization Techniques and Production Models for Naturally Fractured Reservoirs” Semiannual Progress Report, U.S. Department of Energy, 12/31/2002.
- “Experimental Studies for Flow and Downhole Placement of Corrosion Inhibiting Emulsions in Wells,” Baker Petrolite, 10/2002
- (w/Wiggins et al.) “Development of Reservoir Characterization Techniques and Production Models for Naturally Fractured Reservoirs” Semiannual Progress Report, U.S. Department of Energy, 6/2001.

- (w/Prada) "Evaluation of Gels for Profile Modification", Final Report, 5/98, Halliburton Energy Services
- (w/Wang) "Simulator Development for Interpretation of Laboratory Core Tests Involving Organic Deposition during the Flow of Oil", Final Report, 09/20/97, BDM Petroleum Technologies
- (w/Shedid) "Experimental Investigation of the Corrosion Inhibiting Emulsion Placement in Vertical Wells", Final Report, 07/19/96, Petrolite Corporation.
- (w/Vinod and Shah) "Chapter 9, Proppant Transport Simulation", published in "Fracturing Fluid Characterization Facility", Annual Report for 01/95 - 12/95, prepared by the School of Petroleum and Geological Engineering, University of Oklahoma, published by the Gas Research Institute, 12/95.
- (w/Kukreti and Zaman) "Effect of Fluid Hydraulics on Petroleum Rock Behavior", Report No. CEES/OCAST-AR2-084/1994-1995/1, 08/95, Project No. AR2-084, Contract No. 4814, 360 pages
- "A Time-Space Solution Approach for Prediction of Sweep Efficiency of Water Flooding Using the Cubature Method", Final Report, 11/95, U.S. DOE Contract No. DE-FG22-94BC14970
- (w/Evans) "Characterization of Non-Darcy Multiphase Flow in Petroleum Bearing Formations", Final Report, 04/94, U.S. DOE Contract No. DE-AC22-90BC14659
- (w/Kukreti and Zaman) "Effect of Fluid Hydraulics on Petroleum Rock Behavior", Project No. AR2-084, Contract No. 4387, 05/93, OCAST Project Report
- "Predictability of Formation Damage: An Assessment Study and Generalized Models", Final Report, 04/94, U.S. DOE Contract No. DE-AC22-90BC14658
- (w/Roegiers and Sarma) "Chemo-Mechanical Treatment of Deep Coal Seam for Permeability Improvement", Final Report, 10/91, GRI Contract No. 5090-214-2029
- (w/Kukreti and Zaman) "Constitutive Modeling of Geological Formations Considering Porosity and Permeability Alterations Due to Fluid Withdrawal", Final Report, 07/26/91, U.S. Dept. of the Interior, Bureau of Mines, University of Oklahoma OMMRRI Grant No. G1104140.
- (w/Roegiers) "Chemo-mechanical Treatment of Deep Coal Seam for Permeability Improvement", Semiannual Report, 02/05/91, GRI Contract No. 5090-214-2029.
- "Analytical and Experimental Studies on the Generation, Migration, and Retention of Fine Particles During Flow Through Porous Formation", Final Report to the U.S. Department of Energy, Report No. DE-FG01-87FE61146, 01/89. (Research project report/University of Oklahoma technical paper) Funded research report
- (w/Knapp) "Feasibility Study and System Design for an Operational Solvent Comminution System for Mining Deep and Thin Bituminous Coal Reserves", Final Report to the U.S. Department of Energy, Report No. DE-FG01-87FE61146, 01/89. (Research project report/University of Oklahoma technical paper) Funded research report
- (w/Tiab) "Thermodynamic Analysis of Fluid Flow in Porous Media", Final Report to the Nat'l Science Foundation - EPSCoR Program, Report No. NSF-EPSCoR R11-8610676, 05/89. (Research project report/University of Oklahoma technical paper) Funded research report
- (w/Donaldson) "Quantitative Evaluation of Rapid Flow in Porous Media", Energy Resources Institute, University of Oklahoma, 07/87 - 06/88.
- (w/Knapp, Dosser, and Pucelik) "1986-87 University of Oklahoma Program Review: School of Petroleum and Geological Engineering Self Study Report", 11/87
- (w/Knapp, Evans, and Dosser) "School of Petroleum and Geological Engineering Strategy for Excellence Report", 04/88.
- (w/Knapp, McInerney, Menzie, and Jenneman) "The Use of Microorganisms in Enhanced Oil Recovery", Second Annual Report, 10/01/82 - 12/31/84, Work performed under Contract No. AS19-80BC10300 for Bartlesville Project Office, U.S. Dept. of Energy, Bartlesville, OK,

Report No. DOE/BC/10300-43, (DE85000132), 11/85. (Research project report/University of Oklahoma technical paper) Funded research report
 (w/Kukreti and Zaman) "Modeling of Flow of Immiscible Fluids in Heterogeneous Irregular Shaped Reservoirs for Efficient Oil Recovery", Report to Energy Research Institute, University of Oklahoma, Report No. CEES/PGE/ERI/84-85-1; 09/85 (Research project report/University of Oklahoma technical paper) Funded research report
 (w/Knapp) "In Situ Mining of Bituminous Coal via Solvent Comminution Process", Oklahoma Mining Mineral Resources Research Institute, 1985 Research Report (Research project report/University of Oklahoma technical paper) Funded research report
 "Solution of Equation for Convection-Diffusion Through Porous Media by Special Transformation", Energy Resources Center, University of Oklahoma, 1982 Research Report. (Research project report/University of Oklahoma technical paper) Funded research report
 Civan, F., "Solution of Transport Phenomena Type Models by the Method of Differential Quadratures as Illustrated on the LNG Vapor Dispersion Process Modeling", Ph.D. Dissertation, University of Oklahoma, 1978 (Research project report/University of Oklahoma technical paper)
 Civan, F., "Pilot-Plant Mixer Design and Determination of the Optimum Operation Conditions to Prepare a Suspension of CaCO₃ in Water", Technical University of Istanbul, 1971. (Research project report/Technical University of Istanbul technical paper.) Thesis for Advanced Engineering Degree

ACADEMIC COURSES TAUGHT

Undergraduate Courses (15 Total)

Unit Operations
 Unit Operations Laboratory
 Industrial Stoichiometry
 Computer Programming
 Introduction to Engineering
 Fluid Mechanics
 Natural Gas Laboratory
 Natural Gas Engineering
 Natural Gas Processing
 Petroleum Reservoir Fluids
 Oil Reservoir Engineering
 Engineering Numerical Methods
 Reservoir Engineering Fundamentals
 Applied Reservoir Engineering
 Freshmen Engineering Project Experience

Graduate Courses (17 Total)

Advanced Mathematical Analysis of Chemical Engineering
 Chemical Engineering Thermodynamics
 Process Analysis and Simulation
 Fluid Flow in Porous Media
 Mathematical Simulation Models
 Chemical Kinetics
 Engineering Analysis for Digital Computers
 Transport Phenomena in Porous Media

Non-Newtonian Fluid Mechanics
 Formation Damage
 Water Flooding
 Field Processing of Natural Gas
 Introduction to Natural Gas Engineering and Management
 Natural Gas Processing
 Oil and Gas Transportation and Storage
 Advanced Reservoir Engineering
 Enhanced Oil Recovery

INDUSTRY SHORT COURSES

Industry Short Courses Taught (29 Totals)

Oil and Gas Transportation and Storage, Universidad Nacional de Ingeniería, Lima - Perú, November 3-5, 2012.
 Formation Damage, the PDU exchange program, U. of Oklahoma, June 8-9, 2010,
 Oil and Gas Transportation and Storage, Universidad Nacional de Ingeniería, Lima – Perú, Talara in Perú, December 18-20, 2009.
 Formation Damage in Petroleum Reservoirs, Organized by Bauerberg & Klein Consultants S.A. Buenos Aires, Argentina, October 26-30, 2009.
 Oil and Gas Transportation and Storage, Universidad Nacional de Ingeniería, Lima - Perú, April 17-19, 2009.
 Mechanisms and Models of Formation Damage, SPE Section, South Brisbane, QLD, Australia, March 19-20, 2009.
 Oil and Gas Transportation and Storage, the VI INGEPET 2008 International Seminar, Lima, Peru, October 13-17, 2008.
 Mechanisms and Models of Formation Damage, SPE Denver Section, Denver, CO, March 13-14, 2007.
 Formation Damage in Petroleum and Subsurface Reservoirs, Buenos Aires, Argentina, September 11-15, 2006.
 Formation Damage in Petroleum and Subsurface Reservoirs, [Services](#) Pétroliers [Schlumberger, Division NExT, France](#), Pau, France, July 17-21, 2006.
 Formation Damage in Petroleum and Subsurface Reservoirs, [Services](#) Pétroliers [Schlumberger, Division NExT, France](#), Pau, France, November 21-25, 2005.
 Formation Damage in Petroleum and Subsurface Reservoirs, the V INGEPET 2005 International Seminar, Lima, Peru, November 8, 2005
 Effect of Completion Damage on Well Performance, Workshop 18: Contemporary Oil and Gas Well Completion and Work over Jobs, Petroleum Engineering Summer School, The Inter-University Center, Dubrovnik, Croatia, June 13-17, 2005.
 Mechanisms and Models of Formation Damage, SPE International Symposium on Oilfield Chemistry, the Woodlands, Texas, USA, 5-6 February 2005.
 Petroleum and Natural Gas Pipeline Systems, Universidad Privada de Santa Cruz de la Sierra, UPSA, Santa Cruz, Bolivia, January 24-29, 2005.
 Natural Gas Processing, Universidad Privada de Santa Cruz de la Sierra, UPSA, Santa Cruz, Bolivia, November 8-13, 2004.
 Formation Damage - An Overview, Society of Petroleum Engineers-OKC, Oklahoma City, OK, May 25, 2004.

Formation Damage in Petroleum and Subsurface Reservoirs, NExT, Network of Excellence in Training, Schlumberger, Sugarland, Houston, Texas, May 17-21, 2004.
 (with/Pilehvari) Modern Trends in Engineering Design, and Operation and Management of Natural Gas Processing Systems, Workshop Sponsored by USAID, Dhaka, Bangladesh, 10/13-18/2003.
 Natural Gas Processing, Compression, Transportation, and Storage, Universidad Privada de Santa Cruz de la Sierra, UPSA, Santa Cruz, Bolivia, 9/8-15/03.
 Natural Gas Engineering, Universidad Privada de Santa Cruz de la Sierra, UPSA, Santa Cruz, Bolivia, 9/1-6/03
 (w/Ohen) Production Optimization- Application of Formation Damage Control Strategies, Aramco, Dhahran, Saudi Arabia, 7/5-9/03
 Simulation of Naturally Fractured Reservoirs, NExT, Network of Excellence in Training, Schlumberger, Aramco, Dahran, Saudi Arabia, 3/16-23/02.
 Mathematical Modeling and Simulation For General Engineering Applications and Environmental Pollution Processes, Marmara Scientific and Technical Research Institute, Istanbul, Turkey, 12/14-25/98.
 Formation Damage and Enhanced Oil Recovery by Alkaline Waterflooding, Jingham Petroleum University, China, 11/15-29/98
 Modeling Formation Damage in Petroleum Reservoirs, Universidad Surcolombiana, Colombia, 06/02-06/97
 Modeling Formation Damage in Petroleum Reservoirs, Middle East Tech. University, Turkey, 07/01-05/96
 Modeling Formation Damage in Petroleum Reservoirs, Universidad Nacional de Colombia, 08/14-16/95
 Formation Damage in Petroleum Reservoirs, CEPET, Caracas, Venezuela, 10/28-30/91

Industry Short Courses (17 Totals)

Unconventional Reservoir Engineering: Shale Gas, Condensate, and Oil
 Reservoir Formation damage: Diagnosis, assessment, and mitigation.
 Well Damage and Flow Assurance: Wellbore hydraulics, diagnosis, assessment, and mitigation.
 Well Flow Modeling and Simulation
 Applied Petroleum Reservoir Engineering: Analyses, performance, and simulation
 Natural Gas Reservoir Engineering
 Natural Gas Engineering and Management
 Natural Gas Processing and Conditioning
 Oil and Gas Transportation and Storage
 Secondary Oil Recovery: Waterflooding and Immiscible Gas Flooding
 Enhanced Oil Recovery: Miscible, Chemical, MEOR, and Thermal Processes
 Petrophysics and Reservoir Characterization
 Multi-Phase Transport in Porous Media
 Fluid Flow in Porous Media
 Petroleum Reservoir Fluids
 Mathematical Simulation Models
 Environmental Pollution Modeling and Simulation (Ground, Sea and Lake, and Air)

SHALE GAS PROJECT AND INDUSTRY CONSORTIUM

Funding:

Devegowda, D., Civan, F., and Sigal, R., Simulation of Organic Shale Reservoirs Industry Consortium for RPSEA Matching, Total Funding: \$405,000. Project Duration: November 2010- November 2013.

Program Objectives: The ultimate objective of this project is to provide to the exploration and production industry commercial simulators for shale gas reservoirs that incorporate appropriate equations for transport and capillarity and appropriate pore geometries to provide a valid model of gas, condensate and water production. To facilitate adoption and use by E&P professionals the objective is to modify current commercial simulators by substitution of new modules containing more appropriate approximations and pore geometries.

Consortium Members: RPSEA, BP, Shell, Total, SM Energy, Pioneer Natural Resources, Southwestern Energy, Weatherford, CMG, Exco Resources and Chesapeake Energy.

NEWS ARTICLES

OU Researchers Given Funds for Petroleum, Gas Projects Detail Only Available By: AP. The Daily Oklahoman, September 14, 1990 Business, p. 19.

Enhanced Simulation Technology is Key to Unlocking Potential of Tight Formations, Gentry Braswell, Journal of Petroleum Technology Online Technology Editor 11 May 2012.

Simulating Shale Gas Production, University of Oklahoma research team to test 'quad porosity simulation model' for shale gas reservoirs early 2012, Jana Smith, Director of Strategic Communications for R&D, Earth & Energy Magazine, the University of Oklahoma, p. 11, fall 2012.

Article about shale oil and gas, interviewed by the journalist of El Telegrafo, Quito, Ecuador.

Review article about "Barajas-Cortes, P.E. and Civan, F., "Effective Modeling and Analysis of Salt Cavern Natural Gas Storage," Paper SPE-164489-MS, SPE Production & Operations, Vol. 29, No. 1, pp. 51-60, 2014" published in Journal of Petroleum Technology, vol. 66, No. 4, pp. 96-98, 2014 by JPT Technology Editor Chris Carpenter of SPE.