

# BERNA HASÇAKIR

## Assistant Professor

### Stephen A. Holditch Faculty Fellow

3116 TAMU- 401N College Station, TX, 77843-3116, Phone: +1 979 845 6614,

E-mail: [hascakir@tamu.edu](mailto:hascakir@tamu.edu)

Website: <http://www.hascakir.com>

## EDUCATION

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- 2008-2010** **Postdoctoral Scholar** in Energy Resources Engineering, Stanford University, Stanford, CA, USA  
Research Area: “Visualizing In-Situ Combustion Dynamics with X-Ray Computed Tomography” and “Simulation of Cyclic Steam Injection with Temperature Induced Wettability Change”  
Advisor: Dr. Anthony R. Kovscek, [kovscek@stanford.edu](mailto:kovscek@stanford.edu), Phone: +1 650 723 1218
- 2003-2008** **Ph.D.** in Petroleum and Natural Gas Engineering, Middle East Technical University, Ankara, TURKEY  
Dissertation: “Investigation of Productivity of Heavy Oil Carbonates and Oil Shales Using Electrical Heating Methods” [LINK](#)  
Advisor: Dr. Serhat Akin, [serhat@metu.edu.tr](mailto:serhat@metu.edu.tr), Phone: +90 312 210 4892
- 2007-2008** **Visiting Ph.D. Student** in Petroleum Engineering, University of Alberta, Edmonton, AB, CANADA (6 months)  
Advisor: Dr. Tayfun Babadagli, [tayfun@ualberta.ca](mailto:tayfun@ualberta.ca), Phone: +1 780 492 9626
- 2001-2003** **M.Sc.** in Environmental Technologies, Dokuz Eylul University, Izmir, TURKEY  
MSc Thesis: “Utilization of Natural Polyelectrolyte in Wastewater Treatment” [LINK](#)  
Advisor: Dr. Deniz Dolgen, [deniz.dolgen@deu.edu.tr](mailto:deniz.dolgen@deu.edu.tr), Phone: +90 232 301 7139
- 1996-2001** **B.Sc.** in Environmental Engineering, Dokuz Eylul University, Izmir, TURKEY  
BSc Thesis: “Nutrient Removal in Sequential Batch Processing Reactor”  
Advisor: Dr. Necdet Alpaslan, [necdet.alpaslan@deu.edu.tr](mailto:necdet.alpaslan@deu.edu.tr), Phone: +90 232 301 7100

## POSITIONS

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- 04/2012-present** Assistant Professor Texas A&M University, Petroleum Engineering Department, College Station, TX, USA
- 05/2011-04/2012** Senior Heavy Oil Reservoir Engineer, Schlumberger PCE, Bogota, Colombia
- 06/2011-12/2011** Consultant on Thermal EOR Methods, Pacific Rubiales Energy, Bogota, Colombia
- 01/2011-03/2011** Reservoir Simulation Engineer, Schlumberger AbTc, Abingdon, UK
- 11/2010-05/2011** Reservoir Simulation Engineer, Schlumberger PTT, Puerto La Cruz, Venezuela
- 10/2008-06/2010** Postdoctoral Researcher, Stanford University, Energy Resources Eng. Department, Stanford, CA, USA
- 09/2008-12/2008** Research and Teaching Assistant, Graduate School of Natural and Applied Sciences, Inonu University, Malatya, TURKEY
- 01/2004-09/2008** Research and Teaching Assistant, Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, TURKEY
- 08/2005-08/2007** Project Assistant, Supported by BAP (Scientific Research Projects) and TUBİTAK (The Scientific & Technological Research Council of Turkey), METU, Ankara, TURKEY
- 02/2003-08/2003** Environmental Engineer, Harmandali Waste Disposal Site, Izmir, TURKEY
- 09/2001-08/2003** Project Assistant, Center for Environmental Research and Development, Dokuz Eylul University (ÇEVMER), Izmir, TURKEY
- 09/2001-06/2003** Computer Instructor, Altin Computer Course, Izmir, TURKEY and Mimar Kemalettin Elementary School, Izmir, TURKEY

# TRAINING & NETWORKING

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## A. SHORT COURSES AND INTERNSHIPS (\* Teaching Related Training)

- Nov. 29, 2016\*** The Seventh Pedagogy Project, Supporting Transformational Learning, Disciplines Related to Technology-Enabled and Distance Education Programs, Texas A&M University
- Nov. 22, 2016\*** The Sixth Pedagogy Project, Supporting Transformational Learning, Disciplines Related to Graduate and Professional Programs, Texas A&M University
- Oct. 27, 2016\*** The Second Pedagogy Project, Supporting Transformational Learning, Disciplines Related to Mathematics and the Physical and Earth Sciences, Texas A&M University
- August 4, 2015\*** FIT A Basic Guide to Digital Multimedia Production for Teaching and Learning 8-4, Center for Teaching Excellence, Texas A&M University.
- July 9, 2015\*** Working with Students with Disabilities 7-9, Center for Teaching Excellence, Texas A&M University
- June 25, 2015\*** Lecture Well 6-25, Center for Teaching Excellence, Texas A&M University
- April 28, 2015\*** Course Design Series Session III 4/28, Center for Teaching Excellence, Texas A&M University
- April 23, 2015\*** Diversity & Global Learning 4/23, Center for Teaching Excellence, Texas A&M University
- April 21, 2015\*** Course Design Series Session II 4/21, Center for Teaching Excellence, Texas A&M University
- April 14, 2015\*** Course Design Series Session I 14/14, Center for Teaching Excellence, Texas A&M University
- April 13, 2015\*** ADVANCE-STRIDE (The Strategies and Tactics for Recruiting to Improve Diversity and Excellence) Workshop
- & Feb 23, 2015** focuses on best practices for faculty searches such as inclusive advertising, reducing bias in the evaluation process, and hosting effective candidate visits
- Mar 30-31, 2015\*** Roadmap for a Successful Academic Career Workshop, Advance Center, Texas A&M University
- & April 6-8, 2014**
- March 31, 2014\*** Attention Faculty in STEM Disciplines: Do you want to reinvigorate your teaching but don't have the time or resources? Would you like to enhance the professional development of your graduate students and post-doctoral fellows with easy-to-access programs on campus?, CIRTL, Center for Teaching Excellence, and Office of Graduate and Professional Studies, Texas A&M University
- February 2013\*** Fair Use: Using Copyrighted Material in Your Thesis/Dissertation and Other Research Works - Copyright and Publishing Series, Texas A&M University
- February 2013\*** Creative Commons Licenses: A Prerequisite for Publishing Your Research via Open Access, Texas A&M University
- January 2013\*** Kick Start Your Teaching – Effectiveness and Efficiency, Texas A&M University (During Spring 2013)
- December 2012\*** Writing with P.O.W.E.R! A Writing Productivity Program for New Faculty, Texas A&M University
- March 2011** Petrel Reservoir Engineering, Schlumberger, Calgary, AB, CANADA (3 days)
- March 2011** Oil Field Manager (OFM) Fundamentals and Forecast Analysis, Schlumberger, Crawley, UK (3 days)
- February 2011** Eclipse Thermal, Schlumberger, Abingdon, UK (5 days)
- Summer of 2006** European School of English, Paceville, MALTA (3 weeks)
- Summer of 2006** International Summer School of Geothermal Exploration, Prospecting, and Reservoir Engineering Monitoring, Izmir, TURKEY (2 weeks)
- Summer of 2000** Summer Practice in Ministry of Environment, Office practice - Head Office, Antalya, TURKEY (1 month)
- Summer of 1998** Summer Practice at Dokuz Eylul University, Field practice; Topography, Izmir, TURKEY (2 weeks)
- 2002-2003** Intern at Kaplamın Corrugated Packaging Industry, Izmir, TURKEY (1 year)

## B. AFFILIATIONS

5. Society of Petroleum Engineers (SPE), since 2004 [LINK](#)
4. American Chemical Society (ACS), since 2015 [LINK](#)
3. The Combustion Institute, since 2015 [LINK](#)
2. American Association of University Professors (AAUP), since 2014 [LINK](#)
1. Chamber of Turkish Environmental Engineers, since 2002 [LINK](#)

### C. AWARDS

10. Stephen A. Holditch Faculty Fellow, Starting from November 1, 2015 for three years [LINK](#)
9. SPE Innovative Teaching Award, SPE Faculty Awards, 2015. Award Amount: 10,000 USD [LINK](#)
8. SPE Faculty Enhancement Travel Grant for the Gulf Coast North America Region, 2015. Award Amount: 2,000 USD [LINK](#)
7. Top 10 Associate Editors, Journal of Petroleum Science and Engineering, Elsevier, 2014 [LINK](#)
6. SPE Junior Faculty Research Grant, SPE Faculty Awards, 2014. Award Amount: 100,000 USD [LINK](#)
5. SPE Faculty Enhancement Travel Grant for the Gulf Coast North America Region, 2014. Award Amount: 2,000 USD [LINK](#)
4. Postdoctoral Scholarship, SUPRI A, Energy Resources Engineering, Stanford University, CA, USA (2008-2010) [LINK](#)
3. Clay Mineral Society Travel Grant to attend Bridging Clays Conference, FRANCE (2006) [LINK](#)
2. The Scientific & Technological Research Council of Turkey Travel Grant to attend the 1<sup>st</sup> WHOC, CHINA (2006) [LINK](#)
1. The Scientific & Technological Research Council of Turkey Visiting Researcher Grant, six months, CANADA (2007-2008) [LINK](#)

### D. INVITED SPEAKER & PANELIST

16. **Plenary Lecture:** Emulsion Formation Mechanism for Solvent-Steam Processes, 30 June 2016, *Thermal EOR International Workshop, "Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications"*, 19-24 June 2017, Kazan, Russia. [LINK](#)
15. **Panelist for New Faculty Perspectives**, New Faculty Orientation, the Office of the Dean of Faculties, Texas A&M University, 22 August 2016.
14. **Chevron Lunch and Learn:** Solvent-Steam Processes: Benefits and Drawbacks, 20 July 2016, RPE Chevron, Houston, Texas, USA.
13. **Plenary Lecture:** The Impact of Asphaltenes on Thermal EOR Performance, 30 June 2016, *Thermal EOR International Workshop, "Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications"*, 28 June-1 July 2016, Kazan, Russia. [LINK](#)
12. **Graduate Seminar:** Fundamentals of Miscible Flooding, 28 June 2016, Petroleum Engineering Department, Kazan Federal University, Kazan, Russia. [LINK](#)
11. **Seminar:** Hydrocarbon Extraction from Unconventional Reservoirs, Centro de Investigación en Química Aplicada (CIQA), 4 December 2015 in Saltillo Coahuila, México. [LINK](#)
10. **Panelist for WE LEAD:** Faculty Insight Luncheon, Texas A&M University, Women in Engineering, 28 October 2015. [LINK](#)
9. **Panelist in SPE Heavy Oil Workshop:** Lifting Recovery to the Next Level, In-situ electrical heating stimulation for heavy oil recovery, 22-23 September 2015 in Budapest, Hungary.
8. **Seminar:** Solvent-Steam Processes for Heavy Oil and bitumen Extraction: International Science and Practice Conference "Specific of Survey and Exploration of Alternative Hydrocarbon Fields", Kazan, Republic of Tatarstan, Russia.
7. **Panelist for New Faculty Perspectives**, New Faculty Orientation, the Office of the Dean of Faculties, Texas A&M University, 24 August 2015.
6. **Graduate Seminar:** Advanced Recovery Techniques for Unconventional Oil Resources, 28 October 2014, Process Engineering Department, Memorial University of Newfoundland and Labrador, Canada.
5. **Undergraduate Seminar**, Reservoir Fluids-Dry Gases, 27 October 2014, Mechanical Engineering Department, Memorial University of Newfoundland and Labrador, Canada.
4. **Seminar:** Oil Shale extraction with RF heating, 15 March 2013, SLAC-Stanford National Accelerator Laboratory, Stanford, CA, USA.
3. **Seminar:** Oil Shale extraction with RF heating, 15 March 2013, CPI-Communications & Power Industries, Palo Alto, CA, USA.
2. **Seminar:** Hydrogen Sulfide problem during steam injection processes, 27 March 2013, Ecopetrol, Bogota, Colombia.
1. **Seminar:** Complexity behind field-scale modeling of in-situ combustion, 15 February 2011, Schlumberger, Abingdon, UK.

**E. ATTENDED CONFERENCES-WORKSHOP-SYMPOSIUM** (SPE: Society of Petroleum Engineers, ACS: American Chemical Society, ATCE: Annual Technical Conference and Exhibition, HOLA: Heavy Oil Latin America, \* To be attended)

**May 11-17, 2017\*** SPE ATCE 2017, San Antonio, Texas, USA.

**June 19-23, 2017\*** Thermal Methods for Enhanced Oil Recovery, Kazan, Russia.

**May 11-17, 2017\*** SPE Latin American and Caribbean Petroleum Engineering Conference, Buenos Aires, Argentina.

**Apr 23-27, 2017\*** SPE Western Regional Meeting, Bakersfield, California, USA.

**Apr 2-6, 2017\*** ACS 253<sup>rd</sup> National Meeting, San Francisco, California, USA.

**Feb 15-16, 2017** SPE Canada Heavy Oil Technical Conference, Calgary, Canada.

**Dec 6-8, 2016** SPE International Heavy Oil Conference and Exhibition (HOCE), Mangaf, Kuwait.

**Sep 26-28, 2016** SPE ATCE 2016, Dubai, UAE.

**Jun 28-Jul1, 2016** Thermal Methods for Enhanced Oil Recovery, Kazan, Russia.

**June 7-9, 2016** SPE Canada Heavy Oil Technical Conference, Calgary, Alberta, Canada.

**May 23-26, 2016** SPE Western Regional Meeting, Anchorage, Alaska, USA.

**Nov 18-20, 2015** SPE Latin American and Caribbean Petroleum Engineering Conference, Quito, Ecuador.

**Oct 13-15, 2015** SPE Eastern Regional Meeting, Morgantown, West Virginia, USA.

**Oct 5-6, 2015** Western States Section of Combustion Institute, Fall Meeting, at Brigham Young University, Provo, UT, USA.

**Sep 28-30, 2015** SPE ATCE 2015, Houston, USA.

**Sep 22-23, 2015** SPE Heavy Oil Workshop, Budapest, Hungary.

**Sep 2-3, 2015** International Science and Practice Conference "Specific of Survey and Exploration of Alternative Hydrocarbon Fields", Kazan, Republic of Tatarstan, Russia.

**June 9-11, 2015** SPE Heavy Oil Conference, Calgary, Alberta, Canada.

**May 17-20, 2015** 9<sup>th</sup> US National Combustion Meeting, Combustion Institute, Cincinnati, Ohio.

**Mar 26-27, 2015** Center for Petroleum and Geosystems, Frontiers in Subsurface Energy Symposium, Austin, TX, USA

**Sep 24-26, 2014** SPE Heavy and Extra Heavy Oil Conference-Latin America, Medellin, Colombia.

**June 10-12, 2014** SPE Heavy Oil Conference, Calgary, Alberta, Canada.

**April 16-18, 2014** SPE Western North America and Rock Mountain Joint Regional Meeting, Denver, Colorado, USA.

**March 20, 2014** Dean of Faculties - Demystifying the Tenure and Promotion Process, Texas A&M University

**Oct 2012** SPE ATCE 2012, San Antonio, Texas, USA.

**Before A&M**

**Nov 2011** SPE ATCE 2011, Denver, USA

**Aug 2011** SPE History Matching: Field Experiences and Lessons Learned, Cartagena, Colombia

**Aug 2011** HOLA, Heavy Oil Latin America Congress, Bogotá, COLOMBIA

**Sep 2010** SPE ATCE 2010, Florence, ITALY

**May 2010** SPE Western Regional Meeting, Anaheim, California, USA

**Mar 2009** SPE Western Regional Meeting, San Jose, California, USA

**Nov 2006** First World Heavy Oil Conference-WHOC, Beijing, CHINA

**Sep 2006** Fourth Mediterranean Clay Meeting, Ankara, TURKEY

**June 2006** Bridging Clays, d'Oléron, FRANCE

**Nov 2005** 6<sup>th</sup> National Environmental Engineering Conference, Istanbul, TURKEY

**Sep 2005** 12<sup>th</sup> National Clay Conference, Van, TURKEY

**May 2005** 15<sup>th</sup> international petroleum conference of Turkey, Ankara, TURKEY

**April 2005** World Geothermal Congress, Antalya, TURKEY

**June 2004** 9<sup>th</sup> Industrial Contamination Congress, Istanbul, TURKEY

#### **F. MEDIA COVERAGE**

11. Catching the Wave, New Technology Magazine, 09/28/2015 [LINK](#)
10. Undergraduate Research: Find Your Fit!, Honors and Undergraduate Research, Texas A&M University, 09/04/2015 [LINK](#)
9. Thermal EOR, Control Engineering, Oil & Gas Engineering, 12/23/2014 [LINK](#)
8. Thermal EOR, Upstream Technology, The bimonthly magazine for oil& gas innovators, Issue 4-2014 [LINK](#)
7. Exploring new methods of thermal recovery, Phys & Org, Aug. 13, 2014 [LINK](#)
6. Berna Hascakir explores new methods of thermal recovery, College of Engineering, Texas A&M University, Aug. 12, 2014 [LINK](#)
- Before A&M**
5. Research from Middle East Technical University yields new findings on hydrologic engineering, Energy Weekly News, Aug. 27, 2010 [LINK](#)
4. Study Data from Stanford University Update Knowledge of Oil and Gas Research, Energy Weekly News, Nov. 21, 2008 [LINK](#)
3. Proposed Extraction Process may have economic and environmental benefits, Science Daily, Sep. 24, 2008 [LINK](#)
2. New hope for tapping vast domestic reserves of oil shale, Phys & Org, Sep. 22, 2008 [LINK](#)
1. Researchers Develop Process That Could Result in Higher Yield from Oil Shale, Green Car Congress, Sep. 22, 2008 [LINK](#)

# RESEARCH

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## A. PROJECTS/FUNDING (Total excluding start-up 1,453,452.72 USD, Hascakir value excluding start-up 771,435.49 USD)

18. Intermolecular interaction between asphaltenes molecules and reservoir rocks and their impact on asphaltenes phase behavior, will be submitted to National Science Foundation (NSF), Faculty Early Career Development Program (CAREER) on 19 July 2017, Award 400,000 USD, September 2017-August 2022. **Not submitted and not included in total dollar amount** [LINK](#)
17. Determination of oil migration Pathways through biomarkers present in crude oils, will be submitted to American Chemical Society Petroleum Research Fund-New Directions on 17 March 2017, Award 110,000 USD, January 2018-January 2020. **Not submitted and not included in total dollar amount** [LINK](#)
16. Estimation the efficiency of a viscosity enhancer for heavy crude oil transportation, sponsored by Carbon Chain Technologies, UK, PI: Berna Hascakir, Award 25,000 USD, March 2017- June 2017. **Pending-not included in total dollar amount**
15. Clay stabilization for Vicksburg Formation in Mississippi, sponsored by EOR Resources, PI: Berna Hascakir, Award 50,000 USD, March 2017- March 2018. **Pending-not included in total dollar amount**
14. The Effect of Asphaltenes Precipitant and an Environmentally Friendly Solvent on Solvent-Steam Performance, sponsored by Chevron, PI: Berna Hascakir, Award 20,000 USD, March 2017- March 2018. **Approved**
13. Asphaltenes Stability Determination, Clariant, PI: Berna Hascakir, Award 30,000 USD, March 2017. **Approved**
12. Second Renewal for Undergraduate Research in Energy and Propulsion for Summer 2017, National Science Foundation, PI: Eric L. Petersen, Total Award is 443,921 USD. With 8 Co-PI, renewal is approved by NSF for Summer 2017. **Not included in total dollar amount** [LINK](#)
11. Solid and Soluble Products of Engineered Water/Rock Interactions in Eagle Ford Group Chemofacies, by Berg-Hughes Center for Petroleum and Sedimentary Systems, Award 204,913 USD, January 2016 for 3 years, Co-PI: Mike Tice
10. Stephen A. Holditch Faculty Fellow, November 2015-November 2018. 1,000 USD/month; 36,000 USD/3 years
9. Effect of Solvent Dose and Type on Steam Assisted Gravity Drainage Performance, sponsored by Chevron, PI: Berna Hascakir, Award 20,000 USD, January 2016- January 2017.
8. Support for two graduate students over Summer 2015, Crisman Institute for Petroleum Research, 25,000 USD.
7. Field-Scale Simulation of In-Situ Combustion, sponsored by Skoltech University, PI: Berna Hascakir, Co-PI: John Killough, Total Award 610,984.72 USD, Hascakir's contribution: 100,201.49 USD (16.4%), 2014- 2015.
6. Effect of Solvent Dose and Type on Steam Flooding Performance, sponsored by Chevron, PI: Berna Hascakir, Award 20,000 USD, January 2015- January 2016.
5. SPE Junior Faculty Research Grant, The role of saturates, aromatics, resins, and asphaltenes (SARA) fractions of crude oils in the mechanism of asphaltenes destabilization, Award 100,000 USD, January 2015-January 2017.
4. Emulsion Control and Prevention for In-Situ Combustion, sponsored by Pacific Rubiales Energy, 1 Grad student, 2 undergraduate students are sponsored, Award 150,000 USD, November 2013-November 2014.
3. Cenovus FCCL Ltd., Donation 99,000 USD, October 2013.
2. Physicochemical Interactions of Shale with Injected Water-Based Fluids, sponsored by Crisman Institute for Petroleum Research, PI: Robert H. Lane, Co-PI: Berna Hascakir, 1 Grad student is sponsored, Award 137,555 USD, September 2013-September 2015.
1. Texas A&M University, Engineering Faculty, start-up fund to be used in 2012-2014, 250,000 USD. **Not included in total dollar amount**

## B. COLLABORATIONS

12. Dr. Cesar Ovalles, Chevron Corporation, Richmond, California, USA [LINK](#)
11. Dr. Mike Tice, Geology and Geophysics Department, Texas A&M University, College Station, TX, USA [LINK](#)
10. Dr. Waruna Kulatilaka, Mechanical Engineering, Texas A&M University, College Station, TX, USA [LINK](#)
9. Dr. Eric Petersen, Mechanical Engineering, Texas A&M University, College Station, TX, USA [LINK](#)
8. Dr. Anthony H Knap, Geochemical and Environmental Research Group, Texas A&M University, College Station, TX, USA [LINK](#)
7. Dr. Suresh Pillai, National Center for Electron Beam Research, Texas A&M University, College Station, TX, USA [LINK](#)
6. Dr. Hisham Nasr-El-Din, Dr. John Killough, Dr. Robert Lane, Dr. Maria Barrufet, Dr. Sam Noynaert, Petroleum Engineering, Texas A&M University, College Station, TX, USA [LINK](#)
5. Dr. Carlos Dengo, Berg-Hughes Center, Geosciences Texas A&M University, College Station, TX, USA [LINK](#)
4. Dr. Ethan Grossman, Geology and Geophysics Department, Texas A&M University, College Station, TX, USA [LINK](#)

3. Dr. Ian Donald Gates, [Chemical and Petroleum Engineering, University of Calgary](#), Calgary, AB, Canada [LINK](#)
2. Dr. Serhat Akin, [Petroleum and Natural Gas Eng. Department, Middle East Technical University](#), Ankara, TURKEY [LINK](#)
1. [SLAC National Accelerator Laboratory](#), Menlo Park, California, USA [LINK](#)

**C. PUBLICATIONS** (\*indicates MS, MEng, or PhD level students, \*\*indicates Undergraduate level students, † indicates faculty collaborators, ‡ indicates industry collaborators) (**Quartile**: Q1 means highest values and Q4 lowest values, **IF**: Impact Factor, **SJR**: [SCImago Journal Rank](#), **H**: H index- Journal's number of articles (h) that have received at least h citations over the whole period.)

Year	Number of		
	Peer Reviewed Publications	Conference Proceedings	Google Scholar Citation
2017	6	10	38
2016	5	18	195
2015	3	23	121
2014-2013	1	6	73
At A&M Total	15	57	427
Before A&M Total	7	20	54
<b>Total</b>	<b>22</b>	<b>77</b>	<b>481</b>

### C.1. Patents

1. Punase, A.\*, **Hascakir, B.**, Stability Determination of Asphaltenes through Dielectric Constant Measurements of Polar Oil Fractions, *US Provisional Patent 62/365831 - Pending*, Filed in Summer 2016.

### C.2. Peer Reviewed Publications

22. Aleksandrov, D.\*, Kudryavtsev, P.\*, **Hascakir, B.**, Variations in In-Situ Combustion Performance due to Fracture Orientation, *Journal of Petroleum Science and Engineering, Thermal EOR Special Issue*, *In Press*. **Q1, IF: 1.655, SJR: 4902, H: 61.** [LINK](#)
21. Kar, T.\*, **Hascakir, B.**, In-Situ Kerogen Extraction via Combustion and Pyrolysis *Journal of Petroleum Science and Engineering, Thermal EOR Special Issue*, *In Press*. **Q1, IF: 1.655, SJR: 4902, H: 61.** [LINK](#)
20. Prakoso, A.\*, Punase, A.\*, **Hascakir, B.**, A Mechanistic Understanding of Asphaltene Precipitation from Varying Saturate Concentration Perspective, *SPE Production & Operations*, 2017, 32(01), 86-98, SPE-177280-PA. **Q1, IF: 0.818, SJR: 5341, H: 31.** [LINK](#)
19. Ali, M.\*, **Hascakir, B.**, Water-Rock Interaction for Eagle Ford, Marcellus, Green River, and Barnett Shale Samples and Implications for Hydraulic Fracturing Fluid Engineering, *SPE Journal*, 2017, 22(01), 162-171, SPE-177304-PA. **Q1, IF: 1.442, SJR: 4244, H: 62.** [LINK](#)
18. Coelho, R.\*, Ovalles, C.†, Benson, I.†, **Hascakir, B.**, Effect of Clay Presence and Solvent Dose on Hybrid Solvent Steam Performance, *Journal of Petroleum Science and Engineering*, 2017, 150, 203-207. **Q1, IF: 1.655, SJR: 4902, H: 61.** [LINK](#)
17. Punase, A.\*, **Hascakir, B.**, Stability Determination of Asphaltenes through Dielectric Constant Measurements of Polar Oil Fractions, *Energy and Fuels*, 2017, 31(1), 65-77. **Q1, IF: 2.835, SJR: 2353, H: 123.** [LINK](#)
16. Kar, T.\*, Stape, P. \*, Mukhametshina, A. \*, **Hascakir, B.**, Effect of Solvent Type on Water-in-Oil Emulsion Formation for Steam Flooding and Steam-Assisted Gravity Drainage, *Canadian Heavy Oil Association Journal (CHAO Journal)*. October 2016 Edition, 13-19, 2016. [LINK](#) **Invited**
15. Morte, M.\*, **Hascakir, B.**, Estimation of Pseudo-Relative Permeability Curves through an Analytical Approach for Steam Assisted Gravity Drainage (SAGD) and Solvent Aided-Steam Assisted Gravity Drainage, *Journal of Unconventional Oil and Gas Resources*. 16, 45-52, 2016. **Q1, IF: 1.692, SJR: 3874, H: 6.** [LINK](#)
14. **Hascakir, B.**, How to select the right solvent for solvent-aided steam injection processes, *Journal of Petroleum Science and Engineering*, Volume 146, 746-751, 2016. **Q1, IF: 1.655, SJR: 4902, H: 61.** [LINK](#)
13. Mukhametshina, A.\*, Kar, T.\*, **Hascakir, B.**, Bitumen Extraction by Expanding Solvent-Steam Assisted Gravity Drainage (ES-SAGD) with Asphaltene Solvents and Non-Solvents, *SPE Journal*, Volume 21, Issue 02, 380-392, 2016, SPE-170013-PA. **Q1, IF: 1.442, SJR: 4244, H: 62.** [LINK](#)
12. Kar, T.\*, Ovalles, C. †, Rogel, E. †, Vien, J. †, **Hascakir, B.**, The Residual Oil Saturation Determination for Steam Assisted Gravity Drainage (SAGD) and Solvent-SAGD, *Fuel*, 2016, 172, 187-195. **Q1, IF: 3.611, SJR: 1562, H: 137.** [LINK](#)
11. Kar, T.\*, Mukhametshina, A.\*, Unal, Y.\*, **Hascakir B.**, The Effect of Clay Type on Steam Assisted Gravity Drainage Performance, *SPE Journal of Canadian Petroleum Technology*, 2015, 54(6), 412-423, SPE-173795-PA. **Q1, IF: 0.744, SJR: 5288, H: 37.** [LINK](#)



10. Kar, T.<sup>\*</sup>, Hascakir, B., The Role of Resins, Asphaltenes, and Water in Water-Oil Emulsion Breaking with Microwave Heating, *Energy and Fuels*, 2015, 29, 3684-3690, **Q1**, **IF: 2.835**, **SJR: 2353**, **H: 123**. [LINK](#)
9. Aleksandrov, D.<sup>\*</sup>, Hascakir, B., Laboratory Screening Tests on the Effect of Initial Oil Saturation for the Dynamic Control of In-Situ Combustion, *Fuel Processing Technology*, Volume 130, 224-234, February 2015. **Q1**, **IF: 3.847**, **SJR: 2108**, **H: 98**. [LINK](#)
8. Hascakir, B., Ross, C., Castanier, L. Kovscek, A.<sup>†</sup>, Fuel Formation and Conversion during In-Situ Combustion of Crude Oil, *SPE Journal*, Volume 18, Issue 6, 1217-1228, 2013, SPE 146867-PA. **Q1**, **IF: 1.442**, **SJR: 4244**, **H: 62**. [LINK](#)

#### **Before Texas A&M**

7. Hascakir, B., Glatz, G., Castanier, L. Kovscek, A.<sup>†</sup>, In-Situ Combustion Dynamics Visualized with X-Ray Computed Tomography, *SPE Journal*, Volume 16, Issue 3, 524-536, 2011, SPE 135186-PA. **Q1**, **IF: 1.442**, **SJR: 4244**, **H: 62**. [LINK](#)
6. Cinar, M., Hascakir, B., Castanier, L. Kovscek, A.<sup>†</sup>, Predictability of Crude Oil In-Situ Combustion by the Isoconversional Kinetic Approach, *SPE Journal*, Volume 16, Issue 3, 537-547, 2011, SPE 148088-PA. **Q1**, **IF: 1.442**, **SJR: 4244**, **H: 62**. [LINK](#)
5. Hascakir, B., Babadagli, T.<sup>†</sup>, Akin, S.<sup>†</sup>, Field Scale Analysis of Heavy-Oil Recovery by Electrical Heating, *SPE Reservoir Evaluation & Engineering*, 13-1, 131-142, 2010, SPE 117669-PA. **Q1**, **IF: 1.767**, **SJR: 3589**, **H: 47**. [LINK](#)
4. Hascakir, B., Akin, S.<sup>†</sup>, Recovery of Turkish Oil Shales by Electromagnetic Heating and Determination of the Dielectric Properties of Oil Shales by an Analytical Method, *Energy and Fuels*, 24(1), 503-509, 2010 **Q1**, **IF: 2.835**, **SJR: 2353**, **H: 123**. [LINK](#)
3. Hascakir, B., Acar, C., Akin, S.<sup>†</sup>, Microwave Assisted Heavy Oil Production: An Experimental Approach, *Energy and Fuels*, 23(12), 6033-6039, 2009. **Q1**, **IF: 2.835**, **SJR: 2353**, **H: 123**. [LINK](#)
2. Hascakir, B., Babadagli, T.<sup>†</sup>, Akin, S.<sup>†</sup>, Experimental and Numerical Simulation of Oil Recovery from Oil Shales by Electrical Heating, *Energy and Fuels*, 22 (6), 3976–3985, 2008. **Q1**, **IF: 2.835**, **SJR: 2353**, **H: 123**. [LINK](#)
1. Hascakir, B., Dolgen, D.<sup>†</sup>, Utilization of Clay Minerals in Wastewater Treatment: Organic Matter Removal with Kaolinite, *Ekoloji*, 66 (6), 47-54, 2008 (Turkish). **Q3**, **IF: 0.708**, **SJR: 11677**, **H: 11**. [LINK](#)

#### **C.3. Peer Reviewed Publications under review or in preparation stage (experimental studies finalized, paper writing in progress)**

10. Banerjee, S.<sup>\*</sup>, Abdulsattar, Z.R.<sup>\*</sup>, Agim, K.<sup>\*</sup>, Lane, R.H.<sup>†</sup>, Hascakir, B., Adsorption Mechanism of the Water-Based Fracturing Fluids on Shale Surface, *Petroleum*, Initially submitted on 08/30/2016, Revisions submitted on 02/01/2017.
9. Banerjee, S.<sup>\*</sup>, Hascakir, B., The use of Flow Control Devices for Steam Assisted Gravity Drainage, submitted to *Journal of Petroleum Exploration and Production Technology*, submitted on 10/12/2016.
8. Banerjee, S.<sup>\*</sup>, Hascakir, B., Coupling Analytical Modeling with Numerical Simulation for Steam Flashing for Proper Design of Flow Control Devices in SAGD Completion, plan to be submitted to *SPE Drilling & Completion*.
7. Prakoso, A.<sup>\*</sup>, Punase, A.<sup>\*</sup>, Rogel, E.<sup>†</sup>, Ovalles, C.<sup>†</sup>, Hascakir, B., Effect of Solubility on Asphaltenes Stability, plan to be submitted to *American Chemical Society Journal*.
6. Coelho, R.<sup>\*</sup>, Hascakir, B., CO<sub>2</sub> Storage in High Viscosity-Low API Gravity Oil Reservoir, plan to be submitted to *Langmuir*.
5. Hascakir, B., Feasibility of Air Fracturing, plan to be submitted to *Journal of Petroleum Science and Engineering*.
4. Ismail, N.<sup>\*</sup>, Hascakir, B., The Role of Clays on Success of in-situ combustion, plan to be submitted to *Fuel Processing Technology*.
3. Kar, T.<sup>\*</sup>, Hascakir, B., Effect of Clay Type in Water-in-Oil Emulsion Formation Mechanism, plan to be submitted to *Advances in Colloid and Interface Science*.
2. Ismail, N.<sup>\*</sup>, Klock, K.<sup>\*\*</sup>, Hascakir, B., Simplified reaction kinetics for in-situ combustion, planned to be submitted to *Fuel*.
1. Hascakir, B., Kovscek A.<sup>†</sup>, Workflow for modeling of in-situ combustion, planned to be submitted to *SPE Journal*.

#### **C.4. Conferences-Workshops-Seminars (SPE: Society of Petroleum Engineers, ACS: American Chemical Society, ATCE: Annual Technical Conference and Exhibition, AIChE: American Institute of Chemical Engineers, HOLA: Heavy Oil Latin America)**

77. Kar, T.<sup>\*</sup>, Hascakir, B., Impact of Clay Type on SAGD Performance Part I: Microscopic Scale Analysis of Clay-SARA Interactions in Produced Oil, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 17-19 May 2017, Buenos Aires, Argentina, SPE-185533-MS. [LINK](#). (Link will be available after May 17, 2017)
76. Kar, T.<sup>\*</sup>, Hascakir, B., Impact of Clay Type on SAGD Performance Part II: Microscopic Scale Analysis of Clay-SARA Interactions in Spent Rock, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 17-19 May 2017, Buenos Aires, Argentina, SPE-185547-MS. [LINK](#). (Link will be available after May 17, 2017)
75. Punase, A.<sup>\*</sup>, Demir, A.B.<sup>\*</sup>, Bilgesu, H.<sup>†</sup>, Hascakir, B., Inorganic Content of Asphaltenes Impacts Asphaltenes Stability, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 17-19 May 2017, Buenos Aires, Argentina, SPE-185543-MS. [LINK](#). (Link will be available after May 17, 2017)

74. **Hascakir, B.**, Carbon Dioxide Storage in High Viscosity and Low API Gravity Oil Reservoirs, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 17-19 May 2017, Buenos Aires, Argentina, SPE-185559-MS. [LINK](#). (Link will be available after May 17, 2017)
73. Kar, T.<sup>\*</sup>, Nezhad, P.B.<sup>\*\*</sup>, Ng, A.Z.Y.<sup>\*\*</sup>, Ovalles, C.<sup>†</sup>, Benson, I.P.<sup>‡</sup>, **Hascakir, B.**, Mobilization of Trapped Residual Oil via Secondary SAGD with Propane, *SPE Western Regional Meeting*, 23-27 April 2017, Bakersfield, California, USA, SPE-185684-MS. [LINK](#). (Link will be available after April 23, 2017)
72. Banerjee, S.<sup>\*</sup>, **Hascakir, B.**, Flow Control Devices in SAGD Completion Design: Enhanced Heavy Oil/Bitumen Recovery through Improved Thermal Efficiencies, *SPE Western Regional Meeting*, 23-27 April 2017, Bakersfield, California, USA, SPE-185703-MS. [LINK](#). (Link will be available after April 23, 2017)
71. **Hascakir, B.**, Carbon dioxide storage in heavy oil reservoirs, *13<sup>th</sup> International Symposium on Heavy Oil Upgrading, Production & Characterization, ACS 253<sup>rd</sup> National Meeting*, April 2-6, 2017, San Francisco, California, USA, PAPER ID: 2657158.
70. Kar, T.<sup>\*</sup>, Ovalles, C.<sup>†</sup>, Benson, I.P.<sup>‡</sup>, **Hascakir, B.**, Propane-Steam Assisted Gravity Drainage (propane-SAGD) as a follow-up process to SAGD, *13<sup>th</sup> International Symposium on Heavy Oil Upgrading, Production & Characterization, ACS 253<sup>rd</sup> National Meeting*, April 2-6, 2017, San Francisco, California, USA, PAPER ID: 2657699.
69. **Hascakir, B.**, Reservoir rock-asphaltenes interaction impacts asphaltene stability, *13<sup>th</sup> International Symposium on Heavy Oil Upgrading, Production & Characterization, ACS 253<sup>rd</sup> National Meeting*, April 2-6, 2017, San Francisco, California, USA, PAPER ID: 2657777.
68. Pettengell, K.<sup>\*</sup>, **Hascakir, B.**, Horizontal Water Injection: From Initiation to Evaluation, *New Zealand Petroleum Conference 2017*, 21-23 March, New Plymouth, NEW ZEALAND. [LINK](#).
67. Kar, T.<sup>\*</sup>, **Hascakir, B.**, The Interaction of Asphaltenes with Solvents, Water, and Clays during Bitumen Extraction through Solvent-Steam Injection, *SPE International Heavy Oil Conference & Exhibition*, 6-8 December 2016, Mangaf, Kuwait, SPE-184081-MS. [LINK](#).
66. Ali, M.<sup>\*</sup>, Banerjee, S.<sup>\*</sup>, **Hascakir, B.**, The Environmental Aspect of Produced Water Management for the Oil Field Waters Originated Thermal EOR, *SPE International Heavy Oil Conference & Exhibition*, 6-8 December 2016, Mangaf, Kuwait, SPE-184139-MS. [LINK](#).
65. Prakoso, A.A.<sup>\*</sup>, Punase, A.<sup>\*</sup>, **Hascakir, B.**, Pore Scale Representation of Near Wellbore Damage due to Asphaltene Deposition: Effect of Sand Grain Size and the Amount of Clay in Reservoir Rock, *SPE International Heavy Oil Conference & Exhibition*, 6-8 December 2016, Mangaf, Kuwait, SPE-184099-MS. [LINK](#).
64. Banerjee, S.<sup>\*</sup>, **Hascakir, B.**, Field Use of Tubing-Deployed Flow Control Devices to Improve the Economics and Environmental Costs of Albertan SAGD Operations, *The Seventh Annual Berg-Hughes Symposium*, 10-11 October 2016, Texas A&M University, College Station, Texas, USA (POSTER)
63. **Hascakir, B.**, In-Situ Combustion for Fracturing, *Thermal EOR International Workshop, "Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications"*, 28 June-1 July 2016, Kazan, Russia. [LINK](#).
62. Stape, P.<sup>\*</sup>, **Hascakir, B.**, Wettability Alteration during Solvent Assisted-Steam Flooding with Asphaltenes Insoluble Solvents, *SPE Latin America and Caribbean Heavy and Extra Heavy Oil Conference*, 19-20 October 2016, Lima, PERU, SPE-181148-MS. [LINK](#).
61. Demir, A.B.<sup>\*</sup>, Bilgesu, H.<sup>†</sup>, **Hascakir, B.**, The Effect of Brine Concentration on Asphaltene Stability, *SPE Annual Technical Conference and Exhibition (ATCE)*, 26-28 September 2016 in Dubai, UAE, SPE-181706-MS. [LINK](#).
60. **Hascakir, B.**, The Impact of Asphaltenes on Thermal Enhanced Oil Recovery Performance, *Thermal Methods for Enhanced Oil Recovery: Laboratory Testing Simulation and Oilfields Applications*, 28 June- 1 July 2016, Kazan-Republic of Tataristan, RUSSIA. **Invited**
59. Ismail, N.B.<sup>\*</sup>, Klock, K.<sup>\*\*</sup>, **Hascakir, B.**, In-situ Combustion Experiences in Heavy Oil Carbonates, *SPE Canada Heavy Oil Technical Conference*, 7-9 June 2016, Calgary, Alberta, Canada, SPE-180724-MS. [LINK](#).
58. Coelho, R.S.C.<sup>\*</sup>, Ovalles, C.<sup>†</sup>, Benson, I.P.<sup>‡</sup>, **Hascakir, B.**, Clay-Asphaltene Interactions during Hybrid Solvent-Steam Injection Into Bitumen Reservoirs, *SPE Canada Heavy Oil Technical Conference*, 7-9 June 2016, Calgary, Alberta, Canada, SPE-180723-MS. [LINK](#).
57. **Hascakir, B.**, Finding the Right Recipe to Effective Extraction of High Viscosity and Low API Gravity Hydrocarbon Resources, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180424-MS. [LINK](#).
56. Demir, A. B.<sup>\*</sup>, Bilgesu, H.I.<sup>†</sup>, **Hascakir, B.**, The Effect of Clay and Salinity on Asphaltene Stability, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180425-MS. [LINK](#).
55. Punase, A.<sup>\*</sup>, Prakoso, A.A.<sup>\*</sup>, **Hascakir, B.**, The Polarity of Crude Oil Fractions Affects the Asphaltenes Stability, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180423-MS. [LINK](#).
54. Prakoso, A.A.<sup>\*</sup>, Klock, K.<sup>\*\*</sup>, Punase, A.<sup>\*</sup>, Rogel, E.<sup>‡</sup>, Ovalles, C.<sup>†</sup>, **Hascakir, B.**, Determination of the Stability of Asphaltenes through Physicochemical Characterization of Asphaltenes, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180422-MS. [LINK](#).



53. Punase, A.\* , **Hascakir, B.**, The Role of Deasphalted Oil in the Stability of Asphaltenes, *2016 AIChE Spring Meeting & 12th Global Congress on Process Safety, 4<sup>th</sup> International Conference on Upstream Engineering and Flow Assurance*, 10-14 April 2016. Houston, Texas, USA.
52. Stape, P.\* , Ovalles, C.† , **Hascakir, B.**, Pore Scale Displacement Mechanism of Bitumen Extraction with High Molecular Weight Hydrocarbon Solvents, *20<sup>th</sup> SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179608-MS. [LINK](#).
51. Morte, M.\* , **Hascakir, B.**, Relative Permeability Estimation in Steam Assisted Gravity Drainage (SAGD) Using a Fractional Flow Model, *20<sup>th</sup> SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179532-MS. [LINK](#).
50. Kar, T.\* , **Hascakir, B.**, Effective Extraction of Green River Oil Shale via Combustion, *20<sup>th</sup> SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179610-MS. [LINK](#).
49. Banerjee, S.\* , **Hascakir, B.**, Management of Steam Flashing in SAGD Completion Designs via the Implementation of Flow Control Devices, *SPE Thermal Well Integrity and Design Symposium*, 23-25 November 2015, Banff, Alberta, Canada, SPE-178459-MS. [LINK](#).
48. Coelho, R.S.C.\* , **Hascakir, B.**, The Pore Scale Description of Carbon Dioxide Storage into High Asphaltene Content Reservoirs, *Carbon Management Technology Conference*, Sugar Land, Texas, USA, 17-19 November 2015, CMTC 439523. [LINK](#).
47. Coelho, R.S.C.\* , Barrufet, M.† , **Hascakir, B.**, Effect of Impurities in Carbon Dioxide Stream on Phase Behavior for Geological Storage of Carbon Dioxide in Low API Gravity Oil Reservoirs, *Carbon Management Technology Conference*, Sugar Land, Texas, USA, 17-19 November 2015, CMTC 439524. [LINK](#).
46. Aleksandrov, D.\* , Kudryavtsev, P.\* , **Hascakir, B.**, Impact of Fracture Orientation on In-Situ Combustion Performance, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177063-MS. [LINK](#).
45. Prakoso, A.\*\* , Punase, A.\* , **Hascakir, B.**, A Mechanistic Understanding of Asphaltene Precipitation from Varying Saturate Concentration Perspective, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177280-MS. [LINK](#).
44. Kozlowski M.L.\* , Punase, A.\* , Nasr-El-Din, H.† , **Hascakir, B.**, The Catalytic Effect of Clay on In-Situ Combustion Performance, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177166-MS. [LINK](#).
43. Klock, K.\*\* , **Hascakir, B.**, Simplified Reaction Kinetics Model for In-Situ Combustion, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177134-MS. [LINK](#).
42. Kar, T.\* , Punase, A.\* , **Hascakir, B.**, Investigation of Chemical Physical Properties of Oil Shales with Spectral and Thermal Methods, *The Sixth Annual Berg-Hughes Symposium*, 16 October 2015, Texas A&M University, College Station, Texas, USA (POSTER).
41. Kar, T.\* , Kozlowski M.L.\*\* , **Hascakir, B.**, Characterization of Kerogen for Green River Oil Shale, *The Sixth Annual Berg-Hughes Symposium*, 16 October 2015, Texas A&M University, College Station, Texas, USA. (POSTER).
40. **Hascakir, B.**, Real-Time Tracking of Fracture Propagation during Air Injection as an Alternative Fracturing Fluid, *SPE Eastern Regional Meeting*, 13-15 October 2015, Morgantown, West Virginia, USA, SPE-177303-MS. [LINK](#).
39. Ali, M.\* , **Hascakir, B.**, Water-Rock Interaction for Eagle Ford, Marcellus, Green River, and Barnett Shale Samples, *SPE Eastern Regional Meeting*, 13-15 October 2015, Morgantown, West Virginia, USA, SPE-177304-MS. [LINK](#).
38. Kozlowski, M.\*\* , Kar, T.\* , **Hascakir, B.**, Ex-situ Extraction of Green River Oil Shale by Combustion, *Western States Section of the Combustion Institute Fall Meeting*, Provo, Utah, USA. October 5-6, 2015. 134IE-0051.
37. Klock, K.\*\* , Prakoso, A.\* , Punase, A.\* , **Hascakir, B.**, The combustion behavior of various hydrocarbons with complex molecular structures, *Western States Section of the Combustion Institute Fall Meeting*, Provo, Utah, USA. October 5-6, 2015. 134CK-0042.
36. **Hascakir, B.**, Description of In-situ Oil Upgrading Mechanism for In-situ Combustion Based on a Reductionist Chemical Model, *SPE Annual Technical Conference and Exhibition (ATCE)*, 28-30 September 2015 in Houston, Texas, USA, SPE 175086-MS. DR: 47. [LINK](#).
35. **Hascakir, B.**, Evaluation of Thermal Enhanced Oil Recovery Methods, *SPE Heavy Oil Workshop: Lifting Recovery to the Next Level*, 22-23 September 2015 in Budapest, Hungary. [LINK](#). **Invited**
34. Stape, P.\* , **Hascakir, B.**, The Performance Evaluation of Solvent-Steam Processes for Bitumen Extraction, *International Science and Practice Conference "Specific of Survey and Exploration of Alternative Hydrocarbon Fields"*, 2-3 September, 2015, Kazan, Republic of Tatarstan, Russia. **Invited**
33. Kar, T.\* , Yeoh, J.\*\* , Ovalles, C.† , Rogel, E.† , Benson, I.P.† , **Hascakir, B.**, The Impact of Asphaltene Precipitation and Clay Migration on Wettability Alteration for Steam Assisted Gravity Drainage (SAGD) and Expanding Solvent SAGD (ES-SAGD), *2015 SPE Heavy Oil Conference*, 9-11 June, 2015, Calgary, Alberta, Canada, SPE-174439-MS. [LINK](#).
32. Guven, S.\* , Akin, S.† , **Hascakir, B.**, Spectral and Thermal Analysis Explains the Mechanisms of Oil Shale Recovery with Microwave Heating, *20<sup>th</sup> International Petroleum and Natural Gas Congress and Exhibition of Turkey*, 27-29 May 2015, Ankara, Turkey. [LINK](#).

31. **Hascakir, B.**, Soot Particle and Ash Analysis for Combustion, Combustion Institute, 9<sup>th</sup> U.S. National Combustion Meeting, May 17-20 2015, Cincinnati, Ohio, USA, 114DI-0066.
30. Unal, Y.\* , Kar, T.\* , Mukhametshina, A.\* , **Hascakir B.**, The Impact of Clay Type on the Asphaltene Deposition during Bitumen Extraction with Steam Assisted Gravity Drainage, *International Symposium on Oil Field Chemistry*, 13-15 April 2015, The Woodlands, Texas, USA, SPE-173795-MS. [LINK](#).
29. Abdulsattar, Z.R.\* , Agim, K.\* , Lane, R.H.<sup>†</sup> , **Hascakir, B.**, Physicochemical Interactions of Shale with Injected Water-Based Fluids, *International Symposium on Oil Field Chemistry*, 13-15 April 2015, The Woodlands, Texas, USA, SPE-173727-MS. [LINK](#).
28. Ali, M.\* , **Hascakir, B.**, A Critical Review of Emerging Challenges for the Oil Field Waters in United States, *SPE E&P Health, Safety, Security, and Environmental Conference-Americas*, 16-18 March 2015, Denver, Colorado, USA, SPE 173529-MS. [LINK](#).
27. Guven, S.\* , Akin S.<sup>†</sup> , **Hascakir, B.**, Comprehensive Spectral and Thermal Characterization of Oil Shales, *SPE Middle East Unconventional Resources Conference and Exhibition*, 26-28 January 2015, Muscat, Oman, SPE-172952-MS. [LINK](#).
26. Kar, T.\* , Williamson, M.\*\* , **Hascakir, B.**, The Role of Asphaltenes in Emulsions Formation for Steam Assisted Gravity Drainage (SAGD) and Expanding Solvent-SAGD (ES-SAGD), *2014 SPE Heavy and Extra Heavy Oil Conference-Latin America*, 24-26 September 2014, Medellin, Colombia, SPE-171076-MS. [LINK](#)
25. **Hascakir, B.**, Kovscek A.<sup>†</sup> , Analysis of In-Situ Combustion Performance in Heterogeneous Media, *2014 SPE Heavy Oil Conference*, 10-12 June, 2014, Calgary, Alberta, Canada, SPE 170008-MS. [LINK](#)
24. Mukhametshina, A.\* , **Hascakir, B.**, Bitumen extraction by expanding solvent-steam assisted gravity drainage (ES-SAGD) with asphaltene solvents and non-solvents, *2014 SPE Heavy Oil Conference*, 10-12 June, 2014, Calgary, Alberta, Canada, SPE 170013-MS. [LINK](#)
23. Morrow, A.\*\* , Mukhametshina, A.\* , Aleksandrov, D.\* , **Hascakir, B.**, Environmental Impact of Bitumen Extraction with Thermal Recovery, *2014 SPE Heavy Oil Conference*, 10-12 June, 2014, Calgary, Alberta, Canada, SPE 170066-MS. [LINK](#)
22. Mukhametshina, A.\* , Morrow, A.\*\* , Aleksandrov, D.\* , **Hascakir, B.**, Evaluation of Four Thermal Recovery Methods for Bitumen Extraction, *2014 SPE Western North America and Rocky Mountain Joint Regional Meeting*, 16-18 April 2014 Denver, CO, USA, SPE 169543-MS. [LINK](#)
21. Kudryavtsev, P.\* , **Hascakir, B.**, Towards Dynamic Control of In-situ Combustion: Effect of Initial Oil and Water Saturations, *2014 SPE Western North America and Rocky Mountain Joint Regional Meeting*, 16-18 April 2014 Denver, Colorado USA, SPE 169542-MS. [LINK](#)

#### **Before Texas A&M**

20. **Hascakir, B.**, Ross, C., Castanier, L. Kovscek, A.<sup>†</sup> , Fuel Formation During In-Situ Combustion of Heavy Oil, *SPE Annual Technical Conference and Exhibition (ATCE)*, 30 October-2 November 2011 in Denver, Colorado, USA, SPE-146867-PP. [LINK](#)
19. Glatz, G., **Hascakir, B.**, Clemens, T.<sup>†</sup> , Castanier, L., Kovscek, A.<sup>†</sup> , Kinetic Cell and Combustion Tube Results for a Central European Crude, *SPE Annual Technical Conference and Exhibition (ATCE)*, 30 October-2 November 2011 in Denver, Colorado, USA, SPE-146089-PP. [LINK](#)
18. **Hascakir, B.**, Babadagli, T.<sup>†</sup> , Akin, S.<sup>†</sup> , Heavy Oil Recovery from Oil Shales by Electrical Heating, *SPE History Matching: Field Experiences and Lessons Learned*, Cartagena, Colombia, 29-31 August 2011. **Invited**
17. **Hascakir, B.**, Castanier, L., Kovscek, A.<sup>†</sup> , In-Situ Combustion Dynamics Visualized with X-Ray Computed Tomography, *SPE Annual Technical Conference and Exhibition (ATCE)*, Florence, Italy, 20-22 September 2010, SPE-135186-PP. [LINK](#)
16. Karaca, H.<sup>†</sup> , Kartal, O. E.<sup>†</sup> , Akin, S.<sup>†</sup> , **Hascakir, B.**, Characterization of Solid and Liquid Hydrocarbons Obtained from Liquefaction of Nigde-Ulukisla Oil Shales, *The 9<sup>th</sup> National Chemistry Congress*, 22-25 June, 2015, Ankara/Turkey. [LINK](#).
15. **Hascakir, B.**, Kovscek, A.<sup>†</sup> , Reservoir Simulation of Cyclic Steam Injection Including the Effects of Temperature Induced Wettability Alteration, *2010 SPE Western Regional Meeting*, Anaheim, California, USA, 27-29 May 2010, SPE 132608. [LINK](#)
14. **Hascakir, B.**, Acar, C., Demiral, B.<sup>†</sup> , Akin, S.<sup>†</sup> , Microwave Assisted Gravity Drainage of Heavy Oils, *International Petroleum Technology Conference*, Kuala Lumpur, Malaysia, 3-5 December 2008, IPTC-12536-MS. [LINK](#)
13. **Hascakir, B.**, Babadagli, T.<sup>†</sup> , Akin, S.<sup>†</sup> , Experimental and Numerical Modeling of Heavy-Oil Recovery by Electrical Heating, *SPE International Thermal Operations and Heavy Oil Symposium*, Calgary, Alberta, CANADA, 21-23 October 2008, SPE-117669. [LINK](#)
12. Karaca, H.<sup>†</sup> , Kartal, O. E.<sup>†</sup> , Akin, S.<sup>†</sup> , **Hascakir, B.**, Liquefaction of Nigde-Ulukisla Oil Shales and the Waste Paper, *The 22<sup>nd</sup> National Chemistry Congress*, 6-10 October, 2015, Famagusta/Cyprus.
11. Acar, C., **Hascakir, B.**, Demiral, B.<sup>†</sup> , Akin, S.<sup>†</sup> , Karaca, H.<sup>†</sup> , Kartal, O.E.<sup>†</sup> , Microwave Heating of Heavy Oil Reservoirs: Effect of Wettability, *150 Years of Petroleum Industry: Tradition & Challenges*, Bucharest, ROMANIA, October 2007.
10. **Hascakir, B.**, Acar, C., Demiral, B.<sup>†</sup> , Akin, S.<sup>†</sup> , Karaca, H.<sup>†</sup> , Kartal, O.E.<sup>†</sup> , Heavy Oil Recovery from Thin Pay Zones by Microwave Heating, *International Petroleum and Natural Gas Congress & Exhibition of Turkey*, Ankara, TURKEY, May 2007 (Turkish).
9. **Hascakir, B.**, Akin S.<sup>†</sup> , Effect of Metallic Additives on Upgrading Heavy Oil with Microwave Heating, *First World Heavy Oil Conference (WHOC)*, Beijing, CHINA, November 2006.
8. **Hascakir, B.**, Dolgen, D.<sup>†</sup> , Investigation of Treatment Performance of Kaolinite onto Different Wastewater Types and Treatment Methods, *Fourth Mediterranean Clay Meeting*, Ankara, TURKEY, September 2006.

7. **Hascakir, B.**, Dolgen, D.<sup>†</sup>, Evaluation of Treatment Efficiencies of Kaolinite for Various Wastewater Samples, *Bridging Clays*, Ile d'Oléron, FRANCE, June 2006.
6. **Hascakir, B.**, Hydraulic Potential of Turkey, *3rd Aegean Energy Symposium*, Mugla, TURKEY, May 2006 (Turkish).
5. **Hascakir, B.**, Dolgen, D.<sup>†</sup>, Chemical Treatment of Wastewaters Originated From Printing Processes of Corrugated Box Industries, *6th National Environmental Engineering Conference*, Istanbul, TURKEY, November 2005 (Turkish).
4. **Hascakir, B.**, Dolgen, D.<sup>†</sup>, Utilization of Clay Minerals in Wastewater Treatment: Organic Matter Removal with Kaolin (China Clay), *12th National Clay Conference*, Van, September 2005 (Turkish).
3. **Hascakir, B.**, Demiral, B.<sup>†</sup>, Akin, S.<sup>†</sup>, Experimental and Numerical Analysis of Oil Shale Production Using Retort Technique, *15th International Petroleum and Natural Gas Congress and Exhibition of Turkey*, Ankara, TURKEY, May 2005.
2. Dolgen, D.<sup>†</sup>, **Hascakir, B.**, Akkus, M., Application of Clay Minerals in the Environmental Engineering: Experiments with Domestic Wastewater, *Ecology Congress*, Bolu, TURKEY, October 2004 (Turkish).
1. **Hascakir, B.**, Dolgen, D.<sup>†</sup>, Akkus, M., Treatability of Corrugated Paperboard Industry Wastewater by Physicochemical Treatment Methods, *9th Industrial Contamination Congress*, Istanbul, TURKEY, June 2004 (Turkish).

**C.5. Abstracts Under Review** (\*indicates MS or PhD level students, \*\*indicates Undergraduate level students, † indicates faculty collaborators, ‡ indicates industry collaborators)

9. **Hascakir, B.**, Microwave Heating-Induced Fractures to Reduce the Use of Hydraulic Fracturing Water, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
8. Al Atwah, I.\*<sup>†</sup>, Alshaikh, M.\*<sup>†</sup>, Sweet, S.T.<sup>†</sup>, Knap, A.H.<sup>†</sup>, **Hascakir, B.**, Integrated Geochemical Approaches as a Screening Tool for Determining Optimal EOR Technique, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
7. Lancon, O.\*<sup>†</sup>, **Hascakir, B.**, Contribution of Oil and Gas Production within the U.S. to the Climate Change, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
6. Zhang, L.\*<sup>†</sup>, Tice, M.<sup>†</sup>, **Hascakir, B.**, Solid and Soluble Products of Engineered Water/Rock Interactions in Eagle Ford Group Chemofacies, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
5. Ismail, N.B.\*<sup>†</sup>, **Hascakir, B.**, Increased Asphaltenes Surface Aides Fuel Formation with the Presence of Clays during In-situ Combustion, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
4. **Hascakir, B.**, Coke and Ash Analysis for In-Situ Combustion, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
3. Kar, T.\*<sup>†</sup>, **Hascakir, B.**, Emulsion Formation Mechanism for Solvent-Steam Flooding, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
2. Punase, A.\*<sup>†</sup>, **Hascakir, B.**, A New Approach to Determine Asphaltenes Stability, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.
1. Pettengell, K.\*<sup>†</sup>, **Hascakir, B.**, Horizontal Water Injection: From Initiation to Evaluation, SPE Annual Technical Conference and Exhibition (ATCE 2017), 9-11 October 2017, San Antonio, Texas, USA.

#### C.6. Citation

i- **Google Scholar for citation:** [LINK](#)

[Citations:](#) 481

[h-index:](#) 14 (Attempts to measure both the productivity and impact of the published work of a scientist or scholar)

[i10-index:](#) 20 (Indicates the number of academic publications that have at least ten citations from others)

ii- **Scopus:** Author ID: 23984761300: 53 Documents, 42 co-authors, total citation by 97 documents [LINK](#)

[Citations:](#) 170

[h-index:](#) 9

iii- **Research Gate:** 30 Articles, 23 Conference Papers: [LINK](#)

[Citations:](#) 116

[RG Score:](#) 21.10 (The RG Score takes all your research and turns it into a source of reputation. It is calculated based on the research in your profile and how other researchers interact with your content) [LINK](#)

[Reads:](#) 1,425

#### D. REPORTS

1. Karaca, H.<sup>†</sup>, Akin, S.<sup>†</sup>, Kartal, Ö.E.<sup>†</sup>, **Hascakir, B.**, Liquefaction of Nigde-Ulukisla Oil Shales by Catalytic and non-catalytic thermal methods, The Scientific & Technological Research Council of Turkey, 2007, Report No: 104M181. [LINK](#)

# TEACHING

## A. COURSES TAUGHT

### A.1. At Texas A&M University, Petroleum Engineering Department, College Station, Texas, USA, Role: Instructor

Itemized and Overall Teaching Evaluation Scores evaluated by 518 students between Fall 2012-Fall 2016

Level	Class Preparation	Communication	Responsiveness	Academic Concern	Environment	Overall
Undergraduate	4.54	4.17	4.17	4.57	4.07	4.15
Graduate	4.14	3.74	4.13	4.21	4.10	3.98
Overall	4.28	3.89	4.14	4.33	4.09	4.04

Texas A&M University, Petroleum Engineering Department, Teaching Evaluations Average for undergraduate classes 3.89 and graduate classes 4.02

Semester	Course Description, (number of enrolled students)	Teaching Evaluation over 5.00; 5: Excellent, 4: Very Good, 3: Good
Spring 2018	PETE 609 – EOR Methods, Graduate Level (xx)	
Spring 2018	PETE 409 – EOR Methods, Undergraduate Level (xx)	
Fall 2017	PETE 310 – Reservoir Fluids, Undergraduate Level (xx)	
Summer 2017	PETE 489 – Special Topics; Thermal EOR, Undergraduate Level (xx)	
Summer 2017	PETE 606 – EOR Methods-Thermal Processes, Graduate Level (xx)	
Spring 2017	PETE 489 – Special Topics; EOR Methods, Undergraduate Level (11)	
Spring 2017	PETE 609 – EOR Methods, Graduate Level (16)	
Fall 2016	PETE 310 – Reservoir Fluids, Undergraduate Level (80)	4.03 evaluated by 73 students
Summer 2016	PETE 489 – Special Topics; EOR Methods, Undergraduate Level (7)	4.35 evaluated by 6 students
Summer 2016	PETE 609 – EOR Methods, Graduate Level (39)	3.57 evaluated by 27 students
Spring 2016	PETE 485 – Directed Study (1)	Not evaluated
Spring 2016	PETE 681 – Graduate Seminar (65)	4.04 evaluated by 23 students
Spring 2016	PETE 489 – Waterflooding Undergraduate Level (1)	Not evaluated
Spring 2016	PETE 623 – Waterflooding, Graduate Level (7)	3.9 evaluated by 6 students
Fall 2015	PETE 685 – Directed Studies: Principles of IR, spectroscopy, calorimetry, gravimetric measurement methods, Graduate Level (4)	Not evaluated
Fall 2015	PETE 485 – Directed Studies: Combustion, Undergraduate Level (1)	Not evaluated
Fall 2015	PETE 681 – Graduate Seminar (108)	3.91 evaluated by 52 students
Fall 2015	PETE 310 – Reservoir Fluids, Undergraduate Level (94)	4.15 evaluated by 85 students
Summer 2015	PETE 485 – Directed Studies: Reaction Kinetics, Undergraduate Level (2)	Not evaluated
Summer 2015	PETE 623 – Waterflooding, Graduate Level (25)	3.84 evaluated by 21 students
Spring 2015	PETE 609 – EOR Methods, Graduate Level (28)	4.18 evaluated by 25 students
Spring 2015	PETE 489 – Special Topics; EOR Methods, Undergraduate Level (17)	3.71 evaluated by 17 students
Fall 2014	PETE 310 – Reservoir Fluids, Undergraduate Level (38)	4.34 evaluated by 27 students
Summer 2014	PETE 609 – EOR Methods, Graduate Level (33)	4.12 evaluated by 28 students
Spring 2014	PETE 485 – Directed Studies: Water/Oil Emulsion, Undergraduate Level (1)	Not evaluated
Spring 2014	PETE 310 – Reservoir Fluids, Undergraduate Level (56)	3.64 evaluated by 50 students
Fall 2013	PETE 685 – Directed Studies: PVT Behavior, Graduate Level (1)	Not evaluated
Fall 2013	PETE 606 – EOR Methods-Thermal Processes, Graduate Level (19)	4.32 evaluated by 18 students
Spring 2013	PETE 685 – Directed Studies: Thermal EOR, Graduate Level (4)	Not evaluated
Spring 2013	PETE 310 – Reservoir Fluids, Undergraduate Level (58)	4.39 evaluated by 44 students
Fall 2012	PETE 606 – EOR Methods-Thermal Processes, Graduate Level (23)	4.17 evaluated by 15 students

**STUDENT AVERAGE= 4.04 evaluated by 518 students**

**Students' and the peer reviewed teaching evaluations can be found at <https://www.hascakir.com/courses>**

**An example of my lecturing can be found in the following link**  
<https://pe-dl.pe.tamu.edu/ess/echo/presentation/50a1f936-02cf-4ec6-9c01-0a9e9afcf6c?ec=true>

**A.2. At Middle East Technical University, Petroleum and Natural Gas Engineering Department, Ankara, Turkey, Role: Teaching Assistant**

Semester	Course Description	Instructor
Spring 2007	PETE 342 – Petroleum Reservoir Engineering I, Undergraduate Level	Prof. Dr. Mahmut Parlaktuna
Fall 2006	PETE 211 – Introduction to Fluid Mechanics, Undergraduate Level	Prof. Dr. Serhat Akin
Fall 2005	PETE 342 – Petroleum Reservoir Engineering I, Undergraduate Level	Prof. Dr. Mahmut Parlaktuna
Fall 2005	PETE 441 – Petroleum Reservoir Engineering II, Undergraduate Level	Prof. Dr. Ender Okandan
Spring 2005	PETE 216 – Reservoir Rock & Fluid Properties, Undergraduate Level	Prof. Dr. Tanju Mehmetoglu
Fall 2004	ES 202 – Mathematics for Engineers, Undergraduate Level	Prof. Dr. Tanju Mehmetoglu
Spring 2004	PETE 110 – Introduction to Petroleum Engineering, Undergraduate Level	Prof. Dr. Birol Demiral

**A.3. At Mimar Kemalettin Elementary School and Altin Computer Course, Izmir, Turkey, Role: Instructor**

Semester	Course Description
Spring 2003	Computer, Primary and Secondary School, 4 <sup>th</sup> - 7 <sup>th</sup> grades
Fall 2002	Computer, Primary and Secondary School, 4 <sup>th</sup> - 7 <sup>th</sup> grades
Spring 2002	Computer, Primary and Secondary School, 1 <sup>st</sup> -7 <sup>th</sup> grades

**B. ADVISING/SUPERVISING**

**B. 1. Graduate Students-PhD** (\*: sponsored, \*\*: Supported by Dr. Hascakir's research fund)  
(1 graduated, 1 defended, 6 continuing)

Name	Start Date	Graduation Date	Current Position	Status
Banerjee, Sudiptya**	Fall 2013	December 2016	Reservoir Engineer	<b>Graduated</b>
<u>Dissertation Topic:</u> Management of Steam Flashing in SAGD Completion Designs via the Implementation of ICDs				
Punase, Abhishek**	Summer 2015	May 2017	Student at Texas A&M University	<b>Defended</b>
<u>Dissertation Topic:</u> Polarity and Stability of Asphaltenes				
Kar, Taniya**	Fall 2015	August 2017	Student at Texas A&M University	<b>Passed Qual. &amp; Passed Prelim</b>
<u>Dissertation Topic:</u> Emulsion Formation mechanism for Thermal EOR				
Ismail, Norasyikin*	Fall 2015	December 2018	Student at Texas A&M University	<b>Passed Qual.</b>
<u>Dissertation Topic:</u> Combustion kinetics of various crude oil				
Alshaikh, Murtdha*	Fall 2015	December 2018	Student at Texas A&M University	<b>Passed Qual.</b>
<u>Dissertation Topic:</u> Performance prediction of surfactant flooding with high polarity crude oils				
Simangunsong, Roly*	Spring 2016	August 2019	Student at Texas A&M University	<b>Passed Qual.</b>
<u>Dissertation Topic:</u> Cyclic solvent-steam injection				
Zhang, Lifu (CoAd.)**	Spring 2016	August 2019	Student at Texas A&M University	
<u>Dissertation Topic:</u> Water-Rock interaction				
Morte, Matthew**	Fall 2015	August 2016	Student at Texas A&M University	
<u>Dissertation Topic:</u> Effectiveness of Microwave Heating to Inhibit Asphaltenes Precipitation				

**B.2. Graduate Students-MS** (\*: sponsored, \*\*: Supported by Dr. Hascakir's research fund) [LINK](#)  
(11 graduated, 1 continuing)

Name	Start Date	Graduation Date	Current Position	Status
Aleksandrov, Denis*	September 2012	August 2013	Engineer-Lukoil-Russia	<b>Graduated</b>
<u>Thesis Title:</u> Effect of Initial Oil Saturation on In-Situ Combustion Performance of a Canadian Bitumen, August 2013. <a href="#">LINK</a>				
Kudryavtsev, Philipp*	September 2012	December 2013	Engineer-Lukoil-Russia	<b>Graduated</b>
<u>Thesis Title:</u> An Experimental Investigation of Water Influence on Dry Forward In-Situ Combustion, December 2013. <a href="#">LINK</a>				
Mukhametshina, Albina*	September 2012	December 2013	Engineer-Lukoil-Russia	<b>Graduated</b>
<u>Thesis Title:</u> Reducing the Environmental Impact of Bitumen Extraction with ES-SAGD Process, December 2013. <a href="#">LINK</a>				
Unal, Yasin*	September 2012	December 2014	Engineer-TPAO-Turkey	<b>Graduated</b>
<u>Thesis Title:</u> Thermally Induced Wettability Change during SAGD for Oil Sand Extraction, December 2014. <a href="#">LINK</a>				
Abdulsattar, Zaid (CoAd.)**	September 2013	May 2015	Engineer-Conoco Phillips, USA	<b>Graduated</b>
<u>Thesis Title:</u> Physicochemical Interactions of Source-Rocks with Injected Water-Based Fluids, May 2015				
Ali, Maaz I.**	September 2013	August 2015	Engineer-Schlumberger, USA	<b>Graduated</b>
<u>Thesis Title:</u> Produced Water Quality Based on Thermal Recovery Processes and After Interaction with Shale, May 2015				
Kar, Taniya**	September 2013	August 2015	Student at Texas A&M University	<b>Graduated</b>
<u>Thesis Title:</u> Analysis of Saturates, Aromatics, Resins, Asphaltenes (SARA), Water, and Clays in Water-Oil Emulsions for Steam-Assisted Gravity Drainage (SAGD) and Expanding Solvent-SAGD (ES-SAGD) <a href="#">LINK</a>				



Coelho, Raphael,*	September 2014	May 2016	Reservoir Engineer in Brazil	<b>Graduated</b>
<u>Thesis Title:</u> Microscopic Displacement of Bitumen during Solvent-Steam flooding: Effects of Reservoir Clays and Solvent Type <a href="#">LINK</a>				
Stape, Philip,*	September 2014	May 2016	Reservoir Engineer in Brazil	<b>Graduated</b>
<u>Thesis Title:</u> Performance Evaluation of Solvent Assisted-Steam Injection Processes with Asphaltene Insoluble Solvents <a href="#">LINK</a>				
Prakoso, Andreas**	Summer 2015	May 2016		<b>Graduated</b>
<u>Thesis Title:</u> Physicochemical Characterization of Asphaltenes <a href="#">LINK</a>				
Morte, Matthew**	Fall 2015	August 2016	Student at Texas A&M University	<b>Graduated</b>
<u>Thesis Title:</u> Wettability Alteration for Steam Assisted Gravity Drainage (SAGD) and Solvent-SAGD				
Liao, Michael (Huaqi)*	Fall 2016	May 2018	Student at Texas A&M University	
<u>Thesis Title:</u> Efficiency of Microwave Heating on Breaking Polar Asphaltenes				

### B.3. Graduate Students- MEng (\*: sponsored, \*\*: Supported by Dr. Hascakir's research fund) [LINK](#)

(1 graduated, 4 continuing)

Name	Start Date	Graduation Date	Current Position	Status
Pettengell, Katherine* (MEng)	Spring 2016	May 2016	Reservoir Eng. in OMV in New Zealand	<b>Graduated</b>
<u>Research Topic:</u> Horizontal Water Injection: From Initiation to Evaluation				
Rendall, Christopher*	September 2016	December 2019		
<u>Research Topic:</u> TBD				
Volz, Kevin*	September 2016	May 2020		
<u>Research Topic:</u> TBD				
Lancon, Olivier*	September 2016	December 2017		
<u>Research Topic:</u> Contribution of Oil and Gas Production within the U.S. to The Climate Change				
Badham, Scott James*	September 2015	May 2020		
<u>Research Topic:</u> TBD				

### B.4. Graduate Students-Visiting MSc and PhD (\*: sponsored, \*\*: Supported by Dr. Hascakir's research fund)

(2 graduated)

Name	Degree	Graduation Date	Graduated From
Guven, Selin (CoAd.)**	MSc- <a href="#">LINK</a>	December 2015	Middle East Technical University
Demir, Ahmet Birkan*	MS	December 2016	West Virginia University

### B.5. Undergraduate Students (\*: sponsored, \*\*: Supported by Dr. Hascakir's research fund)

(13 completed, 2 continuing)

Name	Starting Degree	Starting Semester	Research Topic
Ng, Alwin*	Senior	Spring 2017	Solvent-Steam Processes
Alshaikh, Abrar*	Senior	Spring 2017	Solvent-Steam Processes
Melake, Philipos*	Junior	Summer 2016	Solvent –Steam Processes
Bakhtiari Nezhad, Pedram*	Junior	Summer 2016	Solvent –Steam Processes
Reyna, Ryan*	Junior	Summer 2015	Review on Thermal EOR
Kim, Hasun, D.,*	Junior	Summer 2015	In-Situ Combustion
Sparkes, Catherine E.*	Junior	Summer 2015	In-Situ Combustion
Prakoso, Andreas**	Senior	2014-2015	Asphaltenes Characterization
Klock, Kristina**	Sophomore	2013-2016	In-Situ Combustion and Reaction Kinetics
Kozlowski, Matthew Lee	Junior	Fall 2014	In-Situ Combustion
Yeoh, Jun**	Junior	Summer/Fall 2014	Steam Assisted Gravity Drainage (SAGD)
Nguyen, Jennifer**	Junior	Summer 2014	Residual Oil Saturation Determination
Morrow, Anderson**	Junior	Summer 2013	Steam Flooding, In-situ Combustion, and SAGD
Shah, Niraj**	Sophomore	Spring 2014	In-Situ Combustion
Williamson, Matthew**	Sophomore	Fall 2013	Steam Assisted Gravity Drainage (SAGD)

### B.6. Mentoring (Students were mentored on research and teaching) (\*: sponsored, \*\*: Supported by Dr. Hascakir's research fund)

Name	Degree	Date	Mentoring Topic
Hanafy, Ahmed **	PhD	2014-2015	Alternative Fracturing Fluids
Elsayed, Nesreen*	PhD	Spring 2013	Teaching in Higher Education

Vidal, Enrique*	PhD	2012-2013	Research on Steam Processes
Abdelmoneim, Sherif**	MS	Fall 2013	3D in-situ combustion test
Gao, Mengdi**	MS	2012-2013	Research on Shales
Han, Sung Yun**	MS	2012-2013	Research on Seismic
Suleimenova, Assiya**	MS	2012-2014	Research on Thermal Recovery

#### B.7. Teaching Assistants

Name	Advisor	Date	Class
Alfi, Masoud	Dr. John Killough	Spring 2013-Spring 2014	PETE 310-Reservoir Fluids
Liu, Xiaoda	Dr. Peter Valko	Summer 2014	PETE 609-EOR
Punase, Abhishek	Dr. Hisham Nasr-El-Din	Fall 2014	PETE 310-Reservoir Fluids
Punase, Abhishek	Dr. Hisham Nasr-El-Din	Spring 2015	PETE 609/PETE 489-EOR
Liu, Xiaoda	Dr. Peter Valko	Summer 2015	PETE 623-Waterflooding
Punase, Abhishek	Dr. Berna Hascakir	Fall 2015	PETE 310-Reservoir Fluids
Morte, Matthew	Dr. Berna Hascakir	Fall 2015	PETE 310-Reservoir Fluids
Morte, Matthew	Dr. Berna Hascakir	Summer 2016	PETE 609/-EOR
Punase, Abhishek	Dr. Berna Hascakir	Fall 2016	PETE 310-Reservoir Fluids
Kar, Taniya	Dr. Berna Hascakir	Fall 2016	PETE 310-Reservoir Fluids

#### B.8. Internal Committees

Name	Advisor	Degree	Thesis Link
Almobarky, Mohammed	Dr. David Schechter	PhD	TBD
Alrashidi, Hessah	Dr. Hisham Nasr-El-Din	PhD	TBD
Hong, Jun	Dr. Hisham Nasr-El-Din	MS	TBD
Mahmoud, Omar S.	Dr. Hisham Nasr-El-Din	PhD	TBD
Ibrahim, Ahmed M.	Dr. Hisham Nasr-El-Din	PhD	TBD
Phi, Tuan	Dr. David Schechter	MS	<a href="#">LINK</a>
Unal, Candan	Dr. Hisham Nasr-El-Din	MS	<a href="#">LINK</a>
Irshad, Hammad A.	Dr. Rashid Hasan	MEng	TBD
Pummarapanthu, Thanakrich	Dr. Hisham Nasr-El-Din	MS	<a href="#">LINK</a>
Antunez, Erick Martinez	Dr. David Schechter	MS	TBD
Afra, Salar	Dr. Hisham Nasr-El-Din	MS	TBD
Alramadhan, Aymen Abduljalil Jafar	Dr. David Schechter	MS	<a href="#">LINK</a>

#### B.9. External Committees

Name	Advisor	Degree & Link	Institution
Hussey, Tyler F.	Dr. Xingmao Ma	MS	Civil Engineering, Texas A&M University
Unal, Ahmet	Dr. Frederick Chester	MS-TBD	Geology & Geophysics, Texas A&M University
Geiger, Robert	Dr. David Staack	PhD-TBD	Mechanical Engineering, Texas A&M University
Damarla, Harika Rao	Dr. David Staack	MS-TBD	Mechanical Engineering, Texas A&M University
Bilgi, Celal	Dr. Erchin Serpedin	MS- <a href="#">LINK</a>	Electrical Engineering, Texas A&M University
Yazdi, Mehdi Majdi	Dr. Jerry Jensen	PhD-02/24/2013	University of Calgary, Canada
Guyen, Selin	Dr. Serhat Akin	MSc- <a href="#">LINK</a>	Middle East Technical University, Turkey
Wang, Hongcai	Dr. Reza Rezaee	PhD- <a href="#">LINK</a>	Curtin University, Australia

## B.10. Opportunities Provided to Graduate or Undergraduate Level Students

**Encouraging Graduate Level Students to Publish Independent Studies:** The aim is to teach graduate level students on the selection of the right journal for their work, academic writing & publication ethics, working in teams to construct new ideas, and publishing an independent study by themselves. In total (among 18 groups), the manuscripts prepared by 4 groups have been published, please see the list of publications below. Because these published works are independent studies, my role is only to review their works and give some feedback on publication ethics. Hence, the listed authors are only graduate students and do not include any professors' name.

1. Yousef, Z., AlDaif, H., Al Otaibi, M., An Overview of Steam Injection Projects in Fractured Carbonate Reservoirs in the Middle East, *Journal of Petroleum Science Research (JPSR)*, Volume 3 Issue 3, July 2014. [LINK](#)
2. Alvarez, J., Hun S., Current Overview of Cyclic Steam Injection Process, *Journal of Petroleum Science Research*, Volume 2 Issue 3, July 2013, (The most downloaded article among all articles in this journal). [LINK](#)
3. Mukhametshina, A., Martynova, E., Electromagnetic Heating of Heavy Oil and Bitumen: A review of Experimental Studies and Field Applications, *Journal of Petroleum Engineering*, Volume 2013 (2013), Article ID 476519. [LINK](#)
4. Punase, A., Zou A., Elputranto, R. How Thermal Recovery Methods Affect Wettability Alteration?, *Journal of Petroleum Engineering*, Volume 2014. [LINK](#)

**Encouraging Undergraduate Research:** In total, 8 undergraduate students contributed the research studies over 4 years. 1 undergraduate student is currently working on different research projects. We published 13 conference papers with these undergraduate students (the undergraduate students are highlighted with bold fonts in the listed papers below).

13. Kar, T., **Nezhad, P.B.**, **Ng, A.Z.Y.**, Ovalles, C., Benson, I.P., **Hascakir, B.**, Mobilization of Trapped Residual Oil via Secondary SAGD with Propane, *SPE Western Regional Meeting*, 23-27 April 2017, Bakersfield, California, USA, SPE-185684-MS. [LINK](#). (Link will be available after April 23, 2017)
12. Ismail, N.B., **Klock, K.**, **Hascakir, B.**, In-situ Combustion Experiences in Heavy Oil Carbonates, *SPE Canada Heavy Oil Technical Conference*, 7-9 June 2016, Calgary, Alberta, Canada, SPE-180724-MS. [LINK](#).
11. Prakoso, A.A., **Klock, K.**, Punase, A., Rogel, E., Ovalles, C., **Hascakir, B.**, Determination of the Stability of Asphaltenes through Physicochemical Characterization of Asphaltenes, *SPE Western Regional Meeting*, 23-26 May 2016, Anchorage, Alaska, USA, SPE-180422-MS. [LINK](#).
10. **Prakoso, A.**, Punase, A., **Hascakir, B.**, A Mechanistic Understanding of Asphaltene Precipitation from Varying Saturate Concentration Perspective, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177280-MS. [LINK](#).
9. **Kozlowski M.L.**, Punase, A., Nasr-El-Din, H., **Hascakir, B.**, The Catalytic Effect of Clay on In-Situ Combustion Performance, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177166-MS. [LINK](#).
8. **Klock, K.**, **Hascakir, B.**, Simplified Reaction Kinetics Model for In-Situ Combustion, *SPE Latin American and Caribbean Petroleum Engineering Conference*, 18-20 November 2015, Quito, ECUADOR, SPE-177134-MS. [LINK](#).
7. Kar, T., **Kozlowski M.L.**, **Hascakir, B.**, Characterization of Kerogen for Green River Oil Shale, *The Sixth Annual Berg-Hughes Symposium*, 16 October 2015, Texas A&M University, College Station, Texas, USA. (POSTER).
6. **Kozlowski, M.**, Kar, T., **Hascakir, B.**, Ex-situ Extraction of Green River Oil Shale by Combustion, *Western States Section of the Combustion Institute Fall Meeting*, Provo, Utah, USA. October 5-6, 2015. 134IE-0051.
5. **Klock, K.**, Prakoso, A., Punase, A., **Hascakir, B.**, The combustion behavior of various hydrocarbons with complex molecular structures, *Western States Section of the Combustion Institute Fall Meeting*, Provo, Utah, USA. October 5-6, 2015. 134CK-0042.
4. Kar, T., **Yeoh, J.**, Ovalles, C., Rogel, E., Benson, I.P., **Hascakir, B.**, The Impact of Asphaltene Precipitation and Clay Migration on Wettability Alteration for Steam Assisted Gravity Drainage (SAGD) and Expanding Solvent SAGD (ES-SAGD), *2015 SPE Heavy Oil Conference*, 9-11 June, 2015, Calgary, Alberta, Canada, SPE-174439-MS. [LINK](#).
3. Kar, T., **Williamson, M.**, **Hascakir, B.**, The Role of Asphaltenes in Emulsions Formation for Steam Assisted Gravity Drainage (SAGD) and Expanding Solvent-SAGD (ES-SAGD), *2014 SPE Heavy and Extra Heavy Oil Conference-Latin America*, 24-26 September 2014, Medellin, Colombia, SPE-171076-MS. [LINK](#)
2. **Morrow, A.**, Mukhametshina, A., Aleksandrov, D., **Hascakir, B.**, Environmental Impact of Bitumen Extraction with Thermal Recovery, *2014 SPE Heavy Oil Conference*, 10-12 June, 2014, Calgary, Alberta, Canada, SPE 170066-MS. [LINK](#)
1. Mukhametshina, A., **Morrow, A.**, Aleksandrov, D., **Hascakir, B.**, Evaluation of Four Thermal Recovery Methods for Bitumen Extraction, *2014 SPE Western North America and Rock Mountain Joint Regional Meeting*, 16-18 April 2014 Denver, CO, USA, SPE 169543-MS. [LINK](#)

### **Provided Internship Positions:**

1. Schlumberger (1 grad student had a chance to have internship in Schlumberger Doll Center in Summer 2013 and part of the internship was completed at Harvard University Laboratories). Student Name: Assiya Suleimenova.
2. Petroriver (1 undergraduate student had his internship in Summer 2013). Student Name: Hammad Ahmed Irshad

Students Awards:

**- Texas A&M University Petroleum Engineering Department Student Paper Contest,**

1. The first place in BS division-Junior section among around 100 Junior students, January 2015 (Student Name: Kristina Klock)
2. The third place in MS division among around 100 MS students, January 2015 (Student Name: Raphael Coelho)
3. The first place in MS division among around 100 MS students, January 2014 (Student Name: Assiya Suleimenova)

**- The Texas A&M University Petroleum Engineering Department Faculty Excellence Awards – Outstanding Master of Science Award**

1. Albina Mukhametshina, May 2014
2. Taniya Kar, May 2016

**- Texas A&M University Geology Department, Annual Berg-Hughes Symposium Poster Competition**

1. Sudipta Banerjee, 3<sup>rd</sup> Place, 7<sup>th</sup> Annual Berg-Hughes Symposium, 2016

# SERVICE

## A. UNIVERSITY SERVICE

1. Undergraduate Curriculum Committee, 2016-Cont.', Petroleum Eng. Department, Texas A&M University.
2. Honors Program Coordinator for Petroleum Engineering 2016-Cont.', College of Engineering, Texas A&M University, [LINK](#)
3. Vice Chair, Junior Engineering Faculty Advisory Council (JEFAC), 2015 Sept.-Cont.' College of Engineering, Texas A&M University. [LINK](#)
4. Undergraduate scholarship committee, 2014-2016, Texas A&M University, Petroleum Engineering Department.

## B. EDITORIAL BOARD **Total decision was made for 266 papers**

1. Associate Editor in Journal of Petroleum Science and Engineering by Elsevier – January 2014- Cont., [LINK](#)
2. Managing Guest Editor for the Thermal EOR Special Issue of Journal of Petroleum Science and Engineering by Elsevier. This issue will be published online on March 1, 2017.

## C. EXTERNAL COMMITTEE SERVICE

1. The SPE Faculty Innovative Teaching Award Committee (October 2016-October 2019). [LINK](#).
2. Technical Program Committee for SPE Heavy Oil Technical Conference, 15-16 February 2017, Calgary, AB, Canada. [LINK](#).
3. Technical Program Committee for SPE Latin America and Caribbean Heavy and Extra-Heavy Oil Conference, 19-20 October 2016, Lima, PERU. [LINK](#)
4. Technical Program Committee for SPE/IADC Middle East Drilling Technology Conference and Exhibition, 29-31 January 2018, Abu Dhabi, UAE. [LINK](#).
5. Technical Program Committee for Thermal EOR International Workshop, "Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications", 28June-1July 2016, Kazan, Russia. [LINK](#).
6. Technical Program Committee for Thermal EOR International Workshop, "Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications", 28June-1July 2017, Kazan, Russia. [LINK](#)

**D. REVIEWING/EDITING** (**Quartile**: Q1 means highest values and Q4 lowest values, **IF**: Impact Factor, **SJR**: [SCImago Journal Rank](#), **H**: H index- Journal's number of articles (h) that have received at least h citations over the whole period.)

### D.1. Journal Review (number of papers reviewed) **Total 79 papers were reviewed**

1. Energy &Fuel, (17 papers reviewed), **Q1, IF: 2.835, SJR: 2353, H: 123.** [LINK](#)
2. Journal of Petroleum Science and Engineering (17 papers reviewed), **Q1, IF: 1.655, SJR: 4902, H: 61.** [LINK](#)
3. Fuel, (12 papers reviewed) **Q1, IF: 3.611, SJR: 1562, H: 137.** [LINK](#)
4. Fuel Processing Technology, (10 papers reviewed), **Q1, IF: 3.847, SJR: 2108, H: 98.** [LINK](#)
5. International Journal of Oil, Gas, and Coal Technology (IJOGCT) (4 papers reviewed), **Q2, IF: 0.464, SJR: 12930, H: 10.** [LINK](#)
6. SPE Journal, (4 papers reviewed), **Q1, IF: 1.442, SJR: 4244, H: 62.** [LINK](#)
7. Industrial & Engineering Chemistry Research (2 paper reviewed), **Q1, IF: 2.567, SJR: 4382, H: 161.** [LINK](#)
8. Journal of Canadian Petroleum Technology (2 papers reviewed), **Q1, IF: 0.744, SJR: 5288, H: 37.** [LINK](#)
9. Combustion Science and Technology (2 papers reviewed), **Q1, IF: 1.193, SJR: 4696, H: 56.** [LINK](#)
10. Chemical Engineering Journal (2 papers reviewed), **Q1, IF: 5.310, SJR: 1769, H: 117.** [LINK](#)
11. SPE Reservoir Evaluation & Engineering, (1 paper reviewed), **Q1, IF: 1.767, SJR: 3589, H: 47.** [LINK](#)
12. Journal of Petroleum Exploration and Production Technology (1 paper reviewed), **Q2, IF: 1.767, SJR: 12416, H: 6.** [LINK](#)
13. Journal of Petroleum Engineering (1 paper reviewed), **Not in the list of SJR.** [LINK](#)
14. Catalysis Reviews (1 paper reviewed), **Q1, IF: 7.526, SJR: 627, H: 77.** [LINK](#)
15. Energy, (1 paper reviewed), **Q1, IF: 4.292, SJR: 1016, H: 111.** [LINK](#)
16. Journal of Energy Resources Technology, ASME (1 paper reviewed), **Q2, IF: 1.347, SJR: 6917, H: 33.** [LINK](#)
17. Transport in Porous Media, (1 paper reviewed), **Q1, IF: 1.653, SJR: 5919, H: 57.** [LINK](#)

### D.2. Research Funding Review (number of research proposals reviewed) **Total 9 proposals were reviewed**

18. Natural Science and Engineering Research Council of Canada (NSERC) (4 proposals reviewed), [LINK](#)
19. Canada Foundation for Innovation (1 proposal reviewed), [LINK](#)
20. Mitacs (2 proposals reviewed), [LINK](#)
21. American Chemical Society (ACS), Petroleum Research Fund (1 proposal reviewed), [LINK](#)
22. Research North Dakota Grant Program (1 proposal reviewed), [LINK](#)



#### **E. CONSULTANCY**

1. Emulsion control for thermal recovery, Pacific Rubiales Energy, Bogota, Colombia, Nov.2013- Nov.2014.
2. Saleski Pilot Plans, Husky Energy, Calgary, AB, June 5-6, 2012.
3. Field-scale Simulation of In-Situ Combustion for SUPLACY Oil Field, Schlumberger-Stanford University, 2008-2012.
4. In-Situ Combustion of Mexican Heavy Crude Oils with PEMEX-Stanford, 2008-2010.

#### **F. MENTORING**

1. The Academy of Future Faculty (AFF) at Texas A&M University, [LINK](#).
2. Combustion Institute, The Central States Section, Mentoring High School Teachers for grant proposal writing on combustion to encourage high school students involvement in research and for a college degree, July 2015-2016. [LINK](#).
3. SPE Mentoring Program, 2013-cont.', [LINK](#)
4. WITSON to encourage women's education in science and engineering, Summer 2012, [LINK](#)