

BERNA HASÇAKIR

Associate Professor

Flotek Industries, Inc. Career Development Professor

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EDUCATION

- 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, 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, 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, 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, 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, Phone: +90 232 301 7100

POSITIONS

- 09/2021-09/2022** **ADVANCE** Administrative Fellow, Texas A&M University
- 09/2018-Present** Associate Professor Texas A&M University, Petroleum Engineering Department, College Station, TX, USA
- 04/2012-08/2018** 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	<u>Postdoctoral Researcher</u> , Stanford University, Energy Resources Eng. Department, Stanford, CA, USA
09/2008-12/2008	<u>Research and Teaching Assistant</u> , Graduate School of Natural and Applied Sciences, Inonu University, Malatya, TURKEY
01/2004-09/2008	<u>Research and Teaching Assistant</u> , Petroleum and Natural Gas Engineering Department, Middle East Technical University, Ankara, TURKEY
08/2005-08/2007	<u>Project Assistant</u> , Supported by BAP (Scientific Research Projects) and TÜBİTAK (The Scientific & Technological Research Council of Turkey), METU, Ankara, TURKEY
02/2003-08/2003	<u>Environmental Engineer</u> , Harmandali Waste Disposal Site, Izmir, TURKEY
09/2001-08/2003	<u>Project Assistant</u> , Center for Environmental Research and Development, Dokuz Eylül University (ÇEVMER), Izmir, TURKEY
09/2001-06/2003	<u>Computer Instructor</u> , Altın Computer Course, Izmir, TURKEY and Mimar Kemalettin Elementary School, Izmir, TURKEY

TRAINING & NETWORKING

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

July 13, 2021*	<u>Assessing Understanding in Mentoring</u> , Center for Teaching Excellence, Texas A&M University, Competency 3.
July 8, 2021*	<u>Addressing Equity and Inclusion in Mentoring</u> , Center for Teaching Excellence, Texas A&M University, Competency 4.
June 28, 2021*	<u>Aligning Expectations in Mentoring</u> , Center for Teaching Excellence, Texas A&M University, Competency 2.
June 25, 2021*	<u>Fostering Independence in Mentoring</u> , Center for Teaching Excellence, Texas A&M University, Competency 5.
May 19, 2021*	<u>ADVANCE-STRIDE</u> (The Strategies and Tactics for Recruiting to Improve Diversity and Excellence), Texas A&M University
Nov 12, 2019*	<u>WE: What's My Bias? Understanding the Impact of Internalized Messages</u> , Women in Engineering- Fall 2019 Faculty Focus, Texas A&M University
May 1-2, 2019*	<u>Transformational Teaching and Learning Conference "Active and Inclusive Engagement"</u> , Texas A&M University
April 18, 2019*	<u>Articulating the Value of Diversity in Our Courses and Disciplines</u> , Center for Teaching Excellence, Texas A&M University
March 26, 2019*	<u>Visionary Women: Champions of Peace & Nonviolence</u> , 2019 Women's Research on Women, Texas A&M University, Education & Human Development, Education Leadership Research Center
March 20, 2019*	<u>Suicide Prevention Gatekeeper Training, QPR (Question Persuade Refer)</u> , Student Counseling Service, Division of Student Affairs, Texas A&M University

- March 19, 2019*** Digital Playgrounds as Learning Spaces: Leveraging Digital Games and Gaming Approaches for Engagement, Center for Teaching Excellence, Texas A&M University
- March 6, 2019*** Aggie Disability Awareness Workshop, Education & Human Development, Texas A&M University
- Feb. 26, 2019*** Practice, Practice, Practice: Designing Meaningful In-Class Learning Experiences for Students, Center for Teaching Excellence, Texas A&M University
- Feb. 20, 2019*** Promoting Classroom Climate: Laying the Social Groundwork for Better Learning, Center for Teaching Excellence, Texas A&M University
- June 2-3, 2018*** Program Evaluator Candidate Training, ABET (Accreditation Board for Engineering and Technology, Inc.), Baltimore, Maryland, USA
- Oct. 17, 2017*** Creating Inclusive Classrooms for LGBTQ+ Students, Center for Teaching Excellence, Texas A&M University
- April 18, 2017*** Faculty Feedback – It Matters What you Say, Women in Engineering (WE) Program-Faculty Focus, Texas A&M University.
- Mar. 23, 2017*** Increasing Diversity within YOUR Faculty Pool, Women in Engineering (WE) Program-Faculty Focus, Texas A&M University.
- Feb. 2, 2017*** Discussing Growth Mindset, Women in Engineering (WE) Program-Faculty Focus, Texas A&M University.
- 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)
& Feb 23, 2015

Workshop 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 Affiliations)

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

C. AWARDS (12 Awards)

1. Flotek Industries, Inc. Career Development Professor, 2019 for three years
2. Distinguished Member of Society of Petroleum Engineers (SPE), 2018 [LINK](#)

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

D. INVITED SPEAKER & PANELIST (27 Invited Talks)

1. **Seminar:** How to optimize a miscible EOR flood with minimal environmental impact, *SPE Gulf Coast Section, Reservoir Study Group*, 20 May 2021. [LINK](#).
2. **Lecture:** Can zero emissions be a realistic objective? : Future of Petroleum Engineering, *SPE Student Chapter –SPE Ecuador Section*, Ecuador, 14 May 2021.
3. **Lecture:** Environmental Impact of Oil and Gas Production- Part 1: Gas Emissions, *SPE Student Chapter –University of Belgrade*, Serbia, 7 December 2020. [LINK](#)
4. **Webinar:** Introduction to Thermal Enhanced Oil Recovery Methods, *SPE Student Chapter-Universidad del Noreste (UNE)*, Mexico, 13 November 2020. [LINK](#)
5. **29 October Republic Day Celebration Speaker:** Ataturk, Me, and Reformed Republic, Texas A&M University, Turkish Student Association, 29 October 2020. [LINK](#)
6. **Graduate Seminar Speaker:** Who to Blame for Climate Change, *Texas A&M University, Petroleum Engineering Department*, 5 February 2019.
7. **Graduate Seminar Speaker:** Contribution of Oil and Gas Industry to Global Warming, *Texas A&M University, Qatar Campus Doha Qatar*, 2 December 2018.
8. **Graduate Seminar Speaker:** Factors Affecting Asphaltenes Stability, *Petroleum and Geosystem Engineering Department, UT at Austin*, 26 November 2018.
9. **Webinar:** Factors Affecting Asphaltenes Stability, *Schlumberger Heavy Oil Special Interest Group*, October 19, 2017, Mexico City, Mexico. 55 people were attended.
10. **Workshop Leader:** Enhancing the proper management and treatment of produced water for reinjection purposes, *Unconventional Completions Conference*, September 18-20, 2017, Houston, Texas, USA.
11. **Seminar:** The Effectiveness of Microwave Heating for High Asphaltenes Content Oil Reservoirs, 7 April 2017, Chevron Cooperation, Richmond Technology Center, Richmond, California, USA.
12. **Guest Lecturer:** Enhanced Oil Recovery, *PETE 402-Section 502-503: Integrated Asset Development*, 14 March 2017, College Station, Texas.
13. **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.

15. **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](#)
16. **Graduate Seminar:** Fundamentals of Miscible Flooding, 28 June 2016, Petroleum Engineering Department, Kazan Federal University, Kazan, Russia. [LINK](#)
17. **Seminar:** Hydrocarbon Extraction from Unconventional Reservoirs, Centro de Investigación en Química Aplicada (CIQA), 4 December 2015 in Saltillo Coahuila, México. [LINK](#)
18. **Panelist for WE LEAD:** Faculty Insight Luncheon, Texas A&M University, Women in Engineering, 28 October 2015. [LINK](#)
19. **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.
20. **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.
21. **Panelist for New Faculty Perspectives,** New Faculty Orientation, the Office of the Dean of Faculties, Texas A&M University, 24 August 2015.
22. **Graduate Seminar:** Advanced Recovery Techniques for Unconventional Oil Resources, 28 October 2014, Process Engineering Department, Memorial University of Newfoundland and Labrador, Canada.
23. **Undergraduate Seminar,** Reservoir Fluids-Dry Gases, 27 October 2014, Mechanical Engineering Department, Memorial University of Newfoundland and Labrador, Canada.
24. **Seminar:** Oil Shale extraction with RF heating, 15 March 2013, SLAC-Stanford National Accelerator Laboratory, Stanford, CA, USA.
25. **Seminar:** Oil Shale extraction with RF heating, 15 March 2013, CPI-Communications & Power Industries, Palo Alto, CA, USA.
26. **Seminar:** Hydrogen Sulfide problem during steam injection processes, 27 March 2013, Ecopetrol, Bogota, Colombia.
27. **Seminar:** Complexity behind field-scale modeling of in-situ combustion, 15 February 2011, Schlumberger, Abingdon, UK.

E. MEDIA COVERAGE (www.hascakir.com/news) (18 Media Coverages)

1. Study Interprets Electromagnetic-Wave Penetration, Absorption for Bitumen Reservoir, Journal of Petroleum Technology, SPE-0121-0048-JPT. [LINK](#)
2. Cleaning up the oil industry's produced water concerns, Texas A&M University Engineering. [LINK](#)
3. Women in Academia, JPT Making a Difference. [LINK](#)
4. Berna Hascakir promotes student research engagement through National Science Foundation program. [LINK](#)
5. Research @Texas A&M, Solid crude oil: Researchers explore how to get clogged wells moving. [LINK](#)
6. Texas A&M University Engineering News, Solving the solid crude oil problem. [LINK](#)
7. Journal of Petroleum Technology (JPT), SPE Announces 2018 International Award Recipients, July 06, 2018. [LINK](#)
8. Catching the Wave, *New Technology Magazine*, 09/28/2015. [LINK](#)
9. Undergraduate Research: Find Your Fit!, *Honors and Undergraduate Research*, Texas A&M University, 09/04/2015. [LINK](#)
10. Thermal EOR, *Control Engineering, Oil & Gas Engineering*, 12/23/2014. [LINK](#)
11. Thermal EOR, *Upstream Technology*, The bimonthly magazine for oil& gas innovators, Issue 4-2014. [LINK](#)
12. Exploring new methods of thermal recovery, *Phys & Org*, Aug. 13, 2014. [LINK](#)

13. Berna Hascakir explores new methods of thermal recovery, College of Engineering, Texas A&M University, Aug. 12, 2014. [LINK](#)
14. Research from Middle East Technical University yields new findings on hydrologic engineering, Energy Weekly News, Aug. 27, 2010. [LINK](#)
15. Study Data from Stanford University Update Knowledge of Oil and Gas Research, Energy Weekly News, Nov. 21, 2008. [LINK](#)
16. Proposed Extraction Process may have economic and environmental benefits, Science Daily, Sep. 24, 2008. [LINK](#)
17. New hope for tapping vast domestic reserves of oil shale, Phys & Org, Sep. 22, 2008. [LINK](#)
18. Researchers Develop Process That Could Result in Higher Yield from Oil Shale, Green Car Congress, Sep. 22, 2008. [LINK](#)

F. 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)

Oct 11-14, 2020	SPE ATCE 2020, Houston, TX, USA-Virtual
April 18-22, 2020	SPE Improved Oil Recovery Conference, Tulsa, Oklahoma, USA-Virtual
Mar 18-19, 2020	SPE Canada Unconventional Resources Conference, Calgary, Alberta, CANADA-Virtual
Mar 18-19, 2020	SPE Canada Heavy Oil Conference, Calgary, Alberta, CANADA-Virtual
Sep 30- Oct 2, 2019	SPE ATCE 2019, Calgary, AB, Canada
Apr 23-26, 2019	SPE Western Regional Meeting, San Jose, California, USA
Sep 24-26, 2018	SPE ATCE 2018, Dallas, Texas, USA
Oct 9-11, 2017	SPE ATCE 2017, San Antonio, Texas, USA
May 22, 2017	NSF CAREER Mock Panel Review, College of Engineering, Texas A&M University
May 11-17, 2017	SPE Latin American and Caribbean Petroleum Engineering Conference, Buenos Aires, Argentina
May 1, 2017	NSF CAREER Workshop, College of Engineering, Texas A&M University
Apr 2-6, 2017	ACS 253 rd National Meeting, San Francisco, California, USA
Mar 23, 2017	Dean of Faculties - Demystifying the Tenure and Promotion Process, Texas A&M University
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 th 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
<u>Before A&M</u>	
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 th National Environmental Engineering Conference, Istanbul, TURKEY
Sep 2005	12 th National Clay Conference, Van, TURKEY
May 2005	15 th international petroleum conference of Turkey, Ankara, TURKEY
April 2005	World Geothermal Congress, Antalya, TURKEY
June 2004	9 th Industrial Contamination Congress, Istanbul, TURKEY

RESEARCH (www.hascakir.com/research)

A. PROJECTS/FUNDING (Total excluding start-up **2,773,327.69 USD**, Hascakir value excluding start-up **1,568,318.11 USD**) (24 funding sources)

1. APRA-E, Desalination with Asphaltene Cages, 2022-2025, **Award: 3,750,000 USD**. Under evaluation
2. Ocean Energy Safety Institute 2.0, Submitted to Bureau of Safety and Environmental Enforcement (DOI-BSEE), 2021-2026, **Award: 51,697,972 USD**. Awarded
4. Chemical and Physical Characterization of Heavy Crude Oils before and after Blending with VISRED, Carbon Chain Technologies, **Award: 73,293 USD**. Project Duration: Fall 2020-Spring 2021.
5. In-situ combustion in Lopez North Oil Field, submitted to Aspen Operating Company, LLC **Award: 60,000 USD**. Project Duration: January 2020-September 2020. Awarded and then suspended due to COVID19
6. Use of Biodegradable and Environmentally Friendly Solvents for EOR of Heavy Oils, Chevron, **Award: 50,000 USD**. Project Duration: Jan 2020- Dec 2020.
7. University Lands Water Management Project, University of Texas Systems-University Lands, **Award: 744,582 USD**. Hascakir's contribution: **119,133.12 USD (16 %)**. Project Duration: October 2019-September 2021. PI: Dr. Mukul Bhatia, Berg-Hughes Center.
8. Donation: Carbon Chain Technologies, UK. **41,000 USD**.
9. Feasibility of Steam Flooding in Edwards County, TX. Sponsor: ECB, LLC. **Award: 30,000 USD**. Project Duration: October 2017-March 2018.
10. Characterization of hydraulic fracturing produced water with high salinity content, Sponsor: Southwest through Crisman Institute for Petroleum Research. **Award: 100,000 USD**. Project Duration: September 2017-September 2019.
11. Enhanced Oil Recovery Utilizing the Piezoelectric or Inverse Piezoelectric Method, Sponsor: Litezon LLC. **Award: 100,000 USD**. Project Duration: April 2017- April 2018.
12. The Effect of Asphaltenes Precipitant and an Environmentally Friendly Solvent on Solvent-Steam Performance, Sponsor: Chevron, **Award: 20,000 USD**. Project Duration: March 2017- March 2018.
13. Asphaltenes Stability Determination, Sponsor: Clariant, PI: Berna Hascakir, **Award: 30,000 USD**. Project Duration: March 2017.
14. Second Renewal for Undergraduate Research in Energy and Propulsion for Summer 2017-2019, Sponsor: National Science Foundation, Award Number: 1560155-NSF. PI: Eric L. Petersen with 8 Co-PI, **Total Award: 443,921 USD**. Project Duration: Summer 2017. **Not included in total dollar amount** [LINK](#)
15. Solid and Soluble Products of Engineered Water/Rock Interactions in Eagle Ford Group Chemofacies, Sponsor: Berg-Hughes Center for Petroleum and Sedimentary Systems. Co-PI: Dr. Mike Tice. **Award: 204,913 USD**. Project Duration: January 2016 for 3 years.
16. Stephen A. Holditch Faculty Fellow, November 2015-November 2018. **1,000 USD/month**; 36,000 USD/3 years. **Not included in total dollar amount**
17. Effect of Solvent Dose and Type on Steam Assisted Gravity Drainage Performance, Sponsor: Chevron, **Award: 20,000 USD**, Project Duration: January 2016- January 2017.
18. Support for two graduate students over summer 2015, Sponsor: Crisman Institute for Petroleum Research, **Award: 25,000 USD** Project Duration: Summer 2015.
19. Field-Scale Simulation of In-Situ Combustion, Sponsor: Skoltech University, PI: Berna Hascakir, Co-PI: John Killough, **Total Award: 610,984.72 USD**, Hascakir's contribution: **100,201.49 USD (16.4%)**, Project Duration: 2014- 2015.

20. Effect of Solvent Dose and Type on Steam Flooding Performance, Sponsor: Chevron. **Award: 20,000 USD**. Project Duration: January 2015- January 2016.
21. 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**. Project Duration: January 2015-January 2017.
22. Emulsion Control and Prevention for In-Situ Combustion, Sponsor: Pacific Rubiales Energy. **Award: 150,000 USD**. Project Duration: November 2013-November 2014.
23. Donation: Cenovus FCCL Ltd., **99,000 USD**, October 2013.
24. Physicochemical Interactions of Shale with Injected Water-Based Fluids, Sponsor: Crisman Institute for Petroleum Research, PI: Robert H. Lane, Co-PI: Berna Hascakir, Award: 137,555 USD. **Hascakir's contribution: 68,777.5 USD** (50 %-34,388.75USD), Project Duration: September 2013- September 2015.
25. 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

1. Dr. Mukul Bhatia Berg-Hughes Center, Geosciences Texas A&M University, College Station, TX, USA [LINK](#)
2. Dr. Cesar Ovalles & Ian P. Benson Chevron Corporation, Richmond, California, USA [LINK](#)
3. Dr. Mike Tice, Geology and Geophysics Department, Texas A&M University, College Station, TX, USA [LINK](#)
4. Dr. Waruna Kulatilaka, Mechanical Engineering, Texas A&M University, College Station, TX, USA [LINK](#)
5. Dr. Eric Petersen, Mechanical Engineering, Texas A&M University, College Station, TX, USA [LINK](#)
6. Dr. Anthony H Knap, Geochemical and Environmental Research Group, Texas A&M University, College Station, TX, USA [LINK](#)
7. Dr. Claude St Thomas and Dr. Enrique Javier Jimenez, Centro de Investigación en Química Aplicada, Saltillo, Mexico [LINK](#)
8. Dr. Suresh Pillai, National Center for Electron Beam Research, Texas A&M University, College Station, TX, USA [LINK](#)
9. 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](#)
10. Dr. Carlos Dengo, Berg-Hughes Center, Geosciences Texas A&M University, College Station, TX, USA [LINK](#)
11. Dr. Ethan Grossman, Geology and Geophysics Department, Texas A&M University, College Station, TX, USA [LINK](#)
12. Dr. Ian Donald Gates, Chemical and Petroleum Engineering, University of Calgary, Calgary, AB, Canada [LINK](#)
13. SLAC National Accelerator Laboratory, Menlo Park, California, USA [LINK](#)

C. PUBLICATIONS www.hascakir.com/publications (*indicates MS, MEng, or PhD level students, **indicates Undergraduate level students, † indicates faculty collaborators, ‡ indicates industry collaborators) ([SCImago Journal Rank](#), website can be used to see the quality of the journals we are publishing)

Year	Number of		
	Peer Reviewed Publications	Conference Proceedings	Google Scholar Citation
2017-2021	18	30	1128
Till tenure (2012-2017)	15	57	427
At A&M Total	32	84	1,555
Before A&M Total	7	20	54
Total	40	107	1609

C.1. Patents (2 Patents)

1. **Hascakir, B.**, Punase, A.*, Method and system for stability determination of asphaltenes utilizing dielectric constant measurements, US20190113473A1, US [licensed by Clariant Corporation in November 2017](#). [LINK](#)
2. **Hascakir, B.**, Punase, A.*, Method and system for stability determination of asphaltenes utilizing dielectric constant measurements, US20180024084A1, EP, CA, US, WO, [licensed by Clariant Corporation in November 2017](#). [LINK](#)

C.2. Peer Reviewed Publications (40 Peer Reviewed Publications)

1. Seng, L.Y.**, **Hascakir, B.**, Role of Intermolecular Forces on Surfactant-steam Performance Into Heavy Oil Reservoirs, *SPE Journal*, 1-6, SPE-201513-PA. [LINK](#)
2. Kar, T.*, **Hascakir, B.**, Effect of Clay Type on Emulsion Formation in Steam and Solvent-Steam Flooding, *SPE Journal*, SPE 205363-PA. [LINK](#)
3. Zhang, L.*, **Hascakir, B.**, A Review of Issues, Characteristics, and Management for Wastewater due to Hydraulic Fracturing in the U.S., *Journal of Petroleum Science and Engineering*, Accepted. [LINK](#)
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C.3. Peer Reviewed Publications under review or in preparation stage (experimental studies finalized, paper writing in progress)

1. Barooah, A.* , Khan M.S.* , Rahman, M. A. †, Hassan, I. †, Hasan, R. †, Maheshwari, P. †, **Hascakir B.**, Investigation of cutting transport in Horizontal/Deviated annulus using pressure response data for two phase slurry flow, *International Journal of Multiphase Flow*, Under review.
2. Pope, C.* , **Hascakir B.**, Role of Reservoir rock and Oil Composition on reaction kinetics of a crude oil, *SPE Reservoir Evaluation & Engineering*. Under review.
3. Demir, A.B.* , Bilgesu H., **Hascakir B.**, The Effect of Clay and Salinity on Asphaltene Stability, *Journal of Petroleum Science and Engineering*, Under review.
4. Pettengell, K.* , **Hascakir B.**, Horizontal Water Injection to Sustain Production in a Low Oil Price Environment, *Petroleum*, Under review.
5. Al Atwah, I.* , Alshaikh, M.* , Sweet, S.T. †, Knap, A. †, Hascakir, B., Extension of Existing Screening Criteria Tables for Thermal Enhanced Oil Recovery Methods through Compositional Analyses of Heavy Oils, *Geology*, Under review.
6. Punase, A.* , Demir, A.B.* , Bilgesu H. †, **Hascakir B.**, Impact of Inorganic content of asphaltenes in asphaltenes' stability, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, Under review
7. Punase, A.* , **Hascakir B.**, Near Wellbore damage due to asphaltenes deposition, *Transport in Porous Media* , Under review.
8. Coelho, R.* , **Hascakir B.**, Factors Affecting CO2 Trapping Mechanisms and Oil Displacement in Porous Media during CO2 Flooding, *Transport in Porous Media* , Under review.

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) **(107 Conference Proceedings)** Paper links are activated on the first day of the conferences.

Summary Table for conference papers

Conference acceptance rate	At A&M		Before A&M
	After Tenure (Between 2017-2021)	Before Tenure (Between 2012-2017)	
i. Highly Selective (<30%)	14	6	4
ii. Selective (30-60%)	16	41	4
iii. General (>60%)	0	10	12
TOTAL	30	58	20

1. Kaishentayev, D. *, **Hascakir B.**, Reuse of Produced Waters Containing High Total Dissolved Solids (TDS) for Fracturing, *SPE Annual Technical Conference and Exhibition (ATCE 2020)*, 21-23 September 2021, Dubai, UAE, SPE-206371-MS. Selected among 2180 abstracts [LINK](#)
2. Mathews, T. *, Cortes, J. A. *, **Hascakir B.**, Bitumen Recovery by Steam And Solvent Injection Using A Novel Solvent, *SPE Annual Technical Conference and Exhibition (ATCE 2020)*, 21-23 September 2021, Dubai, UAE, SPE-206325-MS. Selected among 2180 abstracts [LINK](#)
3. Barooah, A. *, Khan M.S. *, Rahman, M. A. †, Hassan, I. †, Hasan, R. †, Maheshwari, P. †, **Hascakir B.**, Cutting transport in Horizontal/Deviated annulus using pressure response data for two phase slurry flow, OMAE, 40th International Conference on Ocean, Offshore & Arctic Engineering, Virtual Conference: June 21 – June 30, 2021. **(Peer reviewed)**
4. Morte, M.K. *, Alhafidh, H.M. **, **Hascakir, B.**, Sensitivity of Dielectric Properties to Varying Reservoir Properties, *SPE Annual Technical Conference and Exhibition (ATCE 2020)*, 11-14 October 2020, Houston, Texas, USA, SPE-201371-MS. [LINK](#)
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6. Pope, C. **, Ismail, N. *, **Hascakir, B.**, Catalytic Impact Of Clays During In-situ Combustion, *SPE Improved Oil Recovery Conference*, 18-22 April 2020, Tulsa, Oklahoma, USA, SPE-200381-MS. [LINK](#)
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10. Morte, M.K. *, Alhafidh, H.M. **, **Hascakir, B.**, Interpretation of Electromagnetic Wave Penetration and Absorption for Different Reservoir Mineralogy (Quartz-rich, Limestone-rich, and Clay-rich) and at High and Low Water Saturation Values for a Bitumen Reservoir, *SPE Canada Heavy Oil Conference*, 18-19 March 2020, Calgary, Alberta, CANADA, SPE-199941-MS. [LINK](#)
11. Alshaikh, M. *, Lee, Y.S. **, **Hascakir, B.**, Anionic Surfactant and Heavy Oil Interaction during Surfactant-Steam Process, *SPE Western Regional Meeting*, 23-26 April 2019, San Jose, California, USA, SPE-195254-MS. [LINK](#)

12. Zhang, L.^{*}, Tice, M.[†], **Hascakir, B.**, The Impact of Re-injection of Flowback Fluids on Formation Damage of Marcellus Shale, *SPE Western Regional Meeting*, 23-26 April 2019, San Jose, California, USA, SPE-195336-MS. [LINK](#)
13. Liao, H.^{*}, Morte, M.^{*}, **Hascakir, B.**, Determination of the Effectiveness of Microwave Heating for Heavy Oil Extraction, *SPE Western Regional Meeting*, 23-26 April 2019, San Jose, California, USA, SPE-195263-MS. [LINK](#)
14. Ng, A.^{*}, Vishnumolakala, N.^{*}, **Hascakir, B.**, The Use of Asphaltenes Precipitants and Environmentally Friendly Solvents during Solvent-Steam Processes, *SPE Western Regional Meeting*, 23-26 April 2019, San Jose, California, USA, SPE-195316-MS. [LINK](#)
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16. Ismail, N.^{*}, Siu, J.^{**}, **Hascakir, B.**, Kinetics Analysis Validation for In-Situ Combustion by Coupling Experimental Data with Analytical and Numerical Methods, *SPE Annual Technical Conference and Exhibition (ATCE 2018)*, 24-26 September 2018, Dallas, Texas, USA, SPE-191745-MS. [LINK](#)
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31. Kar, T.^{*}, **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](#)
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41. Kar, T.^{*}, **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](#)
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45. **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](#)
46. Stape, P.* , **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](#)
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50. Coelho, R.S.C.* , Ovalles, C.† , Benson, I.P.† , **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](#)
51. **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](#)
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54. 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](#)
55. Punase, A.* , **Hascakir, B.**, The Role of Deasphalted Oil in the Stability of Asphaltenes, *2016 AIChE Spring Meeting & 12th Global Congress on Process Safety, 4th International Conference on Upstream Engineering and Flow Assurance*, 10-14 April 2016. Houston, Texas, USA.
56. Stape, P.* , Ovalles, C.† , **Hascakir, B.**, Pore Scale Displacement Mechanism of Bitumen Extraction with High Molecular Weight Hydrocarbon Solvents, *20th SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179608-MS. [LINK](#)
57. Morte, M.* , **Hascakir, B.**, Relative Permeability Estimation in Steam Assisted Gravity Drainage (SAGD) Using a Fractional Flow Model, *20th SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179532-MS. [LINK](#)
58. Kar, T.* , **Hascakir, B.**, Effective Extraction of Green River Oil Shale via Combustion, *20th SPE Improved Oil Recovery Conference*, 9-13 April 2016, Tulsa, Oklahoma, USA, SPE-179610-MS. [LINK](#)
59. 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](#)

60. 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](#)
61. 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](#)
62. 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](#)
63. 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](#)
64. 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](#)
65. 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](#)
66. 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).
67. 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).
68. **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](#)
69. 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](#)
70. 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.
71. 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.
72. **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](#)
73. **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**
74. 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**
75. 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](#)
76. Guven, S.* , Akin, S.†, **Hascakir, B.**, Spectral and Thermal Analysis Explains the Mechanisms of Oil Shale Recovery with Microwave Heating, *20th International Petroleum and Natural Gas Congress and Exhibition of Turkey*, 27-29 May 2015, Ankara, Turkey. [LINK](#)
 77. **Hascakir, B.**, Soot Particle and Ash Analysis for Combustion, Combustion Institute, *9th U.S. National Combustion Meeting*, May 17-20 2015, Cincinnati, Ohio, USA, 114DI-0066.
 78. 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](#)
 79. Abdulsattar, Z.R.* , Agim, K.* , Lane, R.H.†, **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](#)
 80. 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](#)
 81. Guven, S.* , Akin S.†, **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](#)
 82. 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](#)
 83. **Hascakir, B.**, Kovscek A.†, 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](#)
 84. 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](#)
 85. 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](#)
 86. 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](#)
 87. 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 Conference Proceedings)

88. **Hascakir, B.**, Ross, C., Castanier, L. Kovsky, A.†, 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](#)
89. Glatz, G., **Hascakir, B.**, Clemens, T.†, Castanier, L., Kovsky, A.†, 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](#)
90. **Hascakir, B.**, Babadagli, T.†, Akin, S.†, Heavy Oil Recovery from Oil Shales by Electrical Heating, *SPE History Matching: Field Experiences and Lessons Learned*, Cartagena, Colombia, 29-31 August 2011.

Invited

91. **Hascakir, B.**, Castanier, L., Kavscek, A.[†], 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](#)
92. Karaca, H.[†], Kartal, O. E.[†], Akin, S.[†], **Hascakir, B.**, Characterization of Solid and Liquid Hydrocarbons Obtained from Liquefaction of Nigde-Ulukisla Oil Shales, *The 9th National Chemistry Congress*, 22-25 June, 2015, Ankara/Turkey. [LINK](#)
93. **Hascakir, B.**, Kavscek, A. [†], 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](#)
94. **Hascakir, B.**, Acar, C., Demiral, B. [†], Akin, S. [†], Microwave Assisted Gravity Drainage of Heavy Oils, *International Petroleum Technology Conference*, Kuala Lumpur, Malaysia, 3–5 December 2008, IPTC-12536-MS. [LINK](#)
95. **Hascakir, B.**, Babadagli, T.[†], Akin, S.[†], 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](#)
96. Karaca, H.[†], Kartal, O. E.[†], Akin, S.[†], **Hascakir, B.**, Liquefaction of Nigde-Ulukisla Oil Shales and the Waste Paper, *The 22nd National Chemistry Congress*, 6-10 October, 2015, Famagusta/Cyprus.
97. Acar, C., **Hascakir, B.**, Demiral, B.[†], Akin, S.[†], Karaca, H.[†], Kartal, O.E.[†], Microwave Heating of Heavy Oil Reservoirs: Effect of Wettability, *150 Years of Petroleum Industry: Tradition & Challenges*, Bucharest, ROMANIA, October 2007.
98. **Hascakir, B.**, Acar, C., Demiral, B.[†], Akin, S.[†], Karaca, H.[†], Kartal, O.E.[†], Heavy Oil Recovery from Thin Pay Zones by Microwave Heating, *International Petroleum and Natural Gas Congress & Exhibition of Turkey*, Ankara, TURKEY, May 2007 (Turkish).
99. **Hascakir, B.**, Akin S.[†], Effect of Metallic Additives on Upgrading Heavy Oil with Microwave Heating, *First World Heavy Oil Conference (WHOC)*, Beijing, CHINA, November 2006.
100. **Hascakir, B.**, Dolgen, D.[†], Investigation of Treatment Performance of Kaolinite onto Different Wastewater Types and Treatment Methods, *Fourth Mediterranean Clay Meeting*, Ankara, TURKEY, September 2006.
101. **Hascakir, B.**, Dolgen, D.[†], Evaluation of Treatment Efficiencies of Kaolinite for Various Wastewater Samples, *Bridging Clays*, Ile d'Oléron, FRANCE, June 2006.
102. **Hascakir, B.**, Hydraulic Potential of Turkey, *3rd Aegean Energy Symposium*, Mugla, TURKEY, May 2006 (Turkish).
103. **Hascakir, B.**, Dolgen, D.[†], Chemical Treatment of Wastewaters Originated From Printing Processes of Corrugated Box Industries, *6th National Environmental Engineering Conference*, Istanbul, TURKEY, November 2005 (Turkish).
104. **Hascakir, B.**, Dolgen, D.[†], Utilization of Clay Minerals in Wastewater Treatment: Organic Matter Removal with Kaolin (China Clay), *12th National Clay Conference*, Van, September 2005 (Turkish).
105. **Hascakir, B.**, Demiral, B.[†], Akin, S.[†], 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.
106. Dolgen, D.[†], **Hascakir, B.**, Akkus, M., Application of Clay Minerals in the Environmental Engineering: Experiments with Domestic Wastewater, *Ecology Congress*, Bolu, TURKEY, October 2004 (Turkish).
107. **Hascakir, B.**, Dolgen, D.[†], 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)

1. **Hascakir B.**, CO₂ Trapping Mechanisms in Porous Media, SPE Virtual Symposium: CCUS Management-Achieving Net Zero Carbon and Sustainability Goals, 28-30 September 2021, Virtual [UTC +8].
2. Zhang, L. *, **Hascakir B.**, Review of Eagle Ford and Marcellus Formations, Unconventional Resources Technology Conference, 26-28 July 2021, Houston, Texas, USA.
3. Mathews, T.A. *, **Hascakir B.**, Feasible and Less Toxic Mobility Enhancement for a Bitumen with A New Solvent Through Solvent-steam Injection, SPE Oklahoma City Oil and Gas Symposium, 5-9 April 2021, Oklahoma City, USA.
4. Badham, S. *, **Hascakir B.**, A Method To Determine Mobile Fluid Saturations In Oil Reservoirs Via Injection Of A Partitioning Tracer, SPE Oklahoma City Oil and Gas Symposium, 5-9 April 2021, Oklahoma City, USA.
5. Kaishentayev, D. *, **Hascakir B.**, Treatment of High Salinity Produced Waters For Reinjection In Hydraulic Fracturing Operation, SPE Oklahoma City Oil and Gas Symposium, 5-9 April 2021, Oklahoma City, USA.

C.6. Citation

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

Citations: 1570

h-index: 23 (Attempts to measure both the productivity and impact of the published work of a scientist or scholar)

i10-index: 50 (Indicates the number of academic publications that have at least ten citations from others)

ii- *Scopus*: Author ID: 23984761300: 83 Documents, 57 co-authors, 1,054 total citation by 511 documents [LINK](#)

iii- *Research Gate*: 104 Publications, 7,113 reads, 574 Citations: [LINK](#)

iv- *ORCID ID*: <https://orcid.org/0000-0001-6190-903X>

D. REPORTS

1. Karaca, H.[†], Akin, S.[†], Kartal, Ö.E.[†], **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 (www.hascakir.com/teaching)

To read comments from students about my teaching, please click on this [LINK](#)).

Example of one of my lectures (Date posted on March 12, 2021, for PETE 314-Transport Processes in Petroleum Production, <https://youtu.be/tsfelMXjOyo>

A. COURSES TAUGHT

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

NOTE for teaching evaluation interface used by A&M: starting from 2012 till the end of Summer 2020, my teaching evaluations are provided to be through PICA by A&M. Starting from Fall 2020, AEFIS is used to evaluate instructors' performances. PICA and AEFIS use different evaluation techniques. Thus, PICA evaluation results are summarized with two tables below; for before and after tenure. I have AEFIS evaluation results only for one class that I taught in FALL 2020. The results of AEFIS evaluation is given only for Fall 2020 –PETE 314 below, each metric in AEFIS has different weight, I normalized the results of each metric and adapt it to PICA norm by using direct correlation.

Itemized and Overall Teaching Evaluation Scores evaluated by 518 students between Spring 2017-Summer 2020-after tenure package submission through PICA

Level	Class Preparation	Communication	Responsiveness	Academic Concern	Environment	Overall
Undergraduate	4.57	3.99	3.95	4.38	3.93	4.09
Graduate	4.38	4.14	4.25	4.42	4.15	4.20
Overall	4.49	4.06	4.08	4.40	4.02	4.14

Itemized and Overall Teaching Evaluation Scores evaluated by 518 students between Fall 2012-Fall 2016-during tenure-track appointment through PICA

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 2021	PETE 314 – Transport Processes in Petroleum Production, Undergraduate Level (34)	
Fall 2020	PETE 314 – Transport Processes in Petroleum Production, Undergraduate Level (71)	3.87* evaluated by 60 students * AEFIS results and calculated by normalizing the data to PICA
Summer 2020	PETE 609 – EOR Methods, Graduate Level (7)	4.40 evaluated by 6 students

Summer 2020	PETE 409 – EOR Methods, Undergraduate Level (2)	4.00 evaluated by 1 student
Summer 2020	ICPE 614 – CO ₂ Sequestration, Graduate Level (13)	3.21 evaluated by 11 students
Fall 2019	PETE 491 – Undergraduate Research (2)	Not evaluated
Fall 2019	PETE 314 – Transport Processes in Petroleum Production, Undergraduate Level (62)	3.72 evaluated by 58 students
Summer 2019	PETE 609 – EOR Methods, Graduate Level (9)	4.51 evaluated by 9 students
Summer 2019	PETE 409 – EOR Methods, Undergraduate Level (8)	4.64 evaluated by 8 students
Spring 2019	PETE 314 – Transport Processes in Petroleum Production, Undergraduate Level (54)	4.65 evaluated by 50 students
Fall 2018	PETE 609 – EOR Methods, Graduate Level (0)	Not evaluated
Fall 2017	PETE 310 – Reservoir Fluids, Undergraduate Level (62)	4.06 evaluated by 62 students
Summer 2017	PETE 489 – Special Topics; Thermal EOR, Undergraduate Level (4)	4.88 evaluated by 4 students
Summer 2017	PETE 606 – EOR Methods-Thermal Processes, Graduate Level (26)	4.24 evaluated by 26 students
Spring 2017	PETE 489 – Special Topics; EOR Methods, Undergraduate Level (11)	4.28 evaluated by 10 students
Spring 2017	PETE 609 – EOR Methods, Graduate Level (15)	4.17 evaluated by 14 students

LECTURES I THOUGHT AS TENURE-TRACK ASSISTANT PROFESSOR (Before I submitted my tenure package)

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

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

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 th - 7 th grades
Fall 2002	Computer, Primary and Secondary School, 4 th - 7 th grades
Spring 2002	Computer, Primary and Secondary School, 1 st -7 th grades

B. ADVISING/SUPERVISING (www.hascakir.com/people) LINK

B. 1. Graduate Students-PhD (*: sponsored, **: Supported by Dr. Hascakir's research fund) **(7 graduated, 3 continuing)**

Name, Start Date, Graduation Date, Dissertation Title/Topic, Current Position

1. **Sudiptya Banerjee ****, Fall 2013, **Graduated in December 2016**, Dissertation Title: Flow Control Devices in SAGD Completion Design: Enhanced Heavy Oil/Bitumen Recovery Through Improved Thermal Efficiencies [LINK](#), **Global Technology Manager at Johnson Matthey-Tracerco**.
2. **Abhishek Punase ****, Summer 2015, **Graduated in May 2017**, Dissertation Title: Factors Affecting Asphaltenes Stability, **Engineer in Clariant Corporation, North Carolina**.
3. **Taniya Kar ****, Fall 2015, **Graduated in August 2017**, Dissertation Title: Emulsion Formation Mechanism for Solvent-Steam Processes, **Postdoctoral Researcher in Reservoir Engineering Research Institute, Palo Alto, California, US**.
4. **Norasyikin Ismail***, Fall 2015, **Graduated in December 2019**, Dissertation Title: Reaction Kinetics Study of In-situ Combustion:
Integration of Experimental & Analytical Approaches, **Faculty at Chemical & Process Engineering Technology, Universiti Malaysia Pahang**.
6. **Matthew Morte****, Fall 2016, **Graduated in December 2019**, Dissertation Title: Testing Electromagnetic Energy Penetration and Absorption Under Reservoir Conditions: The Influence of Piezoelectricity, **currently looking for faculty position in the US**.
7. **Murtdha Alshaikh***, Fall 2015, **Graduated in December 2019**, Dissertation Title: Impact of Ionic and Polar Interaction Between Heavy Crude Oil and Surfactants During Surfactant-Steam Flooding Processes, **Reservoir Engineer at Aramco**.
8. **Lifu Zhang (CoAd.)****, Spring 2016, **Graduated in December 2020**, Dissertation Title: Solid and Soluble Products of Engineered Water/Rock Interactions in Shale Reservoirs, **currently looking for faculty position in China**.
9. **Roly Simangunsong****, Spring 2016, **Expected Graduation Date: August 2020**-Passed the PhD Qualification, Dissertation Topic: Cyclic solvent-steam injection, **Student at Texas A&M University**.
10. **Abinash Barooah****, Spring 2019, **Expected Graduation Date: August 2022**, Dissertation Topic: Multi-phase fluid Flow in porous media, **Student at Texas A&M University**.
11. **Jairo A. Cortes****, Summer 2020, **Expected Graduation Date: August 2022**, Dissertation Topic: Viscosity reduction mechanism for heavy oils and bitumen, **Student at Texas A&M University**.

B.2. Graduate Students-MS (*: sponsored, **: Supported by Dr. Hascakir's research fund) [LINK](#) **(13 graduated, 2 continuing)**

Name, Start Date, Graduation Date, Thesis Title/Topic, Current Position

1. **Denis Aleksandrov***, September 2012, **Graduated in August 2013**, Thesis Title: Effect of Initial Oil Saturation on In-Situ Combustion Performance of a Canadian Bitumen [LINK](#), **Engineer-Lukoil-Russia**.
2. **Philipp Kudryavtsev***, September 2012, **Graduated in December 2013**, Thesis Title: An Experimental Investigation of Water Influence on Dry Forward In-Situ Combustion [LINK](#), **Engineer-Lukoil-Russia**.
3. **Albina Mukhametshina***, September 2012, **Graduated in December 2013**, Thesis Title: Reducing the Environmental Impact of Bitumen Extraction with ES-SAGD Process [LINK](#), **Engineer-Lukoil-Russia**.
4. **Yasin Unal ***, September 2012, **Graduated in December 2014**, Thesis Title: Thermally Induced Wettability Change during SAGD for Oil Sand Extraction [LINK](#), **Engineer-TPAO-Turkey**.
5. **Zade R. Satter (CoAd.)****, September 2013, **Graduated in May 2015**, Thesis Title: Physicochemical Interactions of Source-Rocks with Injected Water-Based Fluids [LINK](#)
6. **Maaz I. Ali ****, September 2013, **Graduated in August 2015**, Thesis Title: Produced Water Quality Based on Thermal Recovery Processes and After Interaction with Shale, **Engineer-Schlumberger, USA**.
7. **Kar, Taniya****, September 2013, **Graduated in August 2015**, Thesis Title: 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) [LINK](#), Postdoctoral Researcher in Reservoir Engineering Research Institute, Palo Alto, California, US.
8. **Raphael Coelho ***, September 2014, **Graduated in May 2016**, Thesis Title: Microscopic Displacement of Bitumen during Solvent-Steam flooding: Effects of Reservoir Clays and Solvent Type [LINK](#), **Reservoir Engineer in Shell Brazil**.
 9. **Philip Stape ***, September 2014, **Graduated in May 2016**, Thesis Title: Performance Evaluation of Solvent Assisted-Steam Injection Processes with Asphaltene Insoluble Solvents [LINK](#), **PhD Student at Universidade Federal do Rio de Janeiro, Brazil**.
 10. **Andreas Prakoso****, Summer 2015, **Graduated in May 2016**, Thesis Title: Physicochemical Characterization of Asphaltenes [LINK](#), **Energy Consultant in Accenture, Indonesia**.
 11. **Matthew Morte ****, Fall 2015, **Graduated in August 2016**, Thesis Title: Wettability Alteration for Steam Assisted Gravity Drainage (SAGD) and Solvent-SAGD [LINK](#), **PhD Student at Texas A&M University**.
 12. **Alwin Ng ***, Spring 2018, **Graduated in August 2018**, Thesis Topic: The use of environmentally friendly solvents to extract heavy oil and bitumen through solvent-steam processes, **Intern in Malaysia**.
 13. **Michael (Huaqi) Liao ***, Fall 2016, **Graduated in May 2019**, Thesis Topic: Efficiency of Microwave Heating on Breaking Polar Asphaltenes, **MS Student at Texas A&M University**.
 14. **Tanya Ann Mathews****, Fall 2019, **Expected Graduation in May 2021**, Thesis Topic: Use of Biodegradable and Environmentally-Friendly Solvents for EOR of Heavy Oils, **MS Student at Texas A&M University**.
 15. **Damir Kaishentayer****, Spring 2020, **Expected Graduation in December 2021**, Thesis Topic: Feasibility of low-cost pretreatment methods in the Permian Basin, **MS Student at Texas A&M University**.

B.3. Graduate Students- MEng (*: sponsored, **: Supported by Dr. Hascakir's research fund) [LINK](#) **(3 graduated, 2 continuing)**

Name, Start Date, Graduation Date, Thesis Title/Topic, Current Position

1. **Katherine Pettengell ***, Spring 2016, **Graduated in May 2016**, Research Topic: Horizontal Water Injection: From Initiation to Evaluation, **Reservoir Eng. in OMV in New Zealand**.
2. **Olivier Henri Armand Lancon ***, September 2016, **Graduated in December 2017**, Research Topic: Contribution of Oil and Gas Production within the U.S. to The Climate Change, **Engineer in Total in France**.
3. **Scott James Badham ***, September 2015, **Graduated in August 2019**, Research Topic: A Method to Determine Mobile Fluid Saturations in Oil Reservoirs via Injection of a Partitioning Tracer, **Lead Engineer at Chemical Tracers Inc..**
4. **Kevin Volz ***, September 2016, **Expected Graduation Date: May 2021**, Research Topic: TBD, **Field Engineer at Baker Hughes Oil Tools and MEng Student at Texas A&M University**.
5. **Harry Liu ***, September 2016, **Expected Graduation Date: December 2021**, Research Topic: TBD.
6. **Brittany L. Black**, August 2019, **Expected Graduation Date: May 2021**, Research Topic: TBD.

B.4. Graduate Students-Visiting Undergraduate (UG), MSc and PhD (*: sponsored, **: Supported by Dr. Hascakir's research fund) **(2 graduated MS)**

Name, Degree, Graduation Date, Institution

1. **Selin Guven (CoAd.)****, MSc-[LINK](#), **Graduated in December 2015**, Middle East Technical University
2. **Ahmet Birkan Demir (CoAd.) ****, MS, **Graduated in December 2016**, West Virginia University
3. **Elizabeth Seber***, UG, **Sophomore**, Pennsylvania State University-**NSF Sponsored**.
4. **Farooq Muhammad Zia ***, UG, **Sophomore**, Texas A&M University, Qatar.
5. **John Siu***, UG, **Sophomore**, University of Rochester-**NSF Sponsored**.
6. **Yeh Seng Lee***, UG, **Junior**, Universiti Teknologi Petronas, Malaysia.
7. **Connor Pope ***, UG, **Junior**, University of Rochester-**NSF Sponsored**.
8. **Rohit Singh***, Junior, Indian Institute of Technology (IITs)

B.5. Undergraduate Students (*: sponsored, **: Supported by Dr. Hascakir's research fund) **(26 completed, 0 continuing)**

Name, Starting Degree, Starting Semester, Research Topic

1. **Rohit Singh***, Junior, Indian Institute of Technology (IITs), **Summer 2019**, Research Topic: Surfactant Flooding
2. **Hasan Alhafidh****, Junior, **Summer and Fall 2019**, Research Topic: Solvent-Steam Efficiency
3. **Autumn Roberts****, Junior, **Fall 2019**, Research Topic: The use of Viscosity Reducers to Enhance Oil Mobility
4. **Connor Pope ***, UG, **Junior**, University of Rochester-**NSF Sponsored**.
5. **Yeh Seng Lee***, (**Visiting Scholar from Universiti Teknologi Petronas**), Junior, January 14-April 19, 2019. Research Topic: Surfactant-Steam Flooding
6. **John Siu*** (**Visiting NSF Scholar from University of Rochester**), Sophomore, **Summer 2018**, Research Topic: In-situ Combustion
7. **Alwin Ng ***, Junior-Honor Student, **Spring 2017-Fall 2017**, Research Topic: Emulsion Formation Mechanism.
8. **Hindi Mousa Wael**, Junior-Honor Student, **Fall 2017**, Research Topic: Calculation of reaction kinetics parameters.
9. **Priscilla Rodriguez Tovar**, Junior, **Fall 2017**, Research Topic: Solvent-Steam Processes.
10. **Shams Z. Al Bayati**, Junior-Honor Student, **Fall 2017**, Research Topic: The Use of Microwave as an EOR method.
11. **Tracey Onyinye Ike**, Junior-Honor Student, **Fall 2017**, Research Topic: Solvent-Steam Processes.
12. **Elizabeth Seber*** (**Visiting NSF Scholar from PennState**), Sophomore, **Summer 2017**, Research Topic: In-situ Combustion
13. **Farooq Muhammad Zia *** (**Visiting student from TAMU Qatar**), Sophomore, **Summer 2017**, Research Topic: Steam Processes
14. **Abrar Alshaikh ***, Senior-Honor Student, **Spring 2017**, Research Topic: Solvent-Steam Processes
15. **Philipos Melake ***, Junior, **Summer 2016**, Research Topic: Solvent –Steam Processes
16. **Pedram Bakhtiari Nezhad ***, Junior, **Summer 2016**, Research Topic: Solvent –Steam Processes
17. **Ryan Reyna***, Junior, **Summer 2015**, Research Topic: Review on Thermal EOR
18. **Hasun D. Kim***, Junior, **Summer 2015**, Research Topic: In-Situ Combustion
19. **Catherine E. Sparkes ***, Junior, **Summer 2015**, Research Topic: In-Situ Combustion
20. **Andreas Prakoso ****, Senior, **2014-2015**, Research Topic: Asphaltenes Characterization
21. **Kristina Klock ****, Sophomore, **2013-2016**, Research Topic: In-Situ Combustion and Reaction Kinetics
22. **Matthew Lee Kozlowski**, Junior, **Fall 2014**, Research Topic: In-Situ Combustion
23. **Jun Yeoh ****, Junior, **Summer/Fall 2014**, Research Topic: Steam Assisted Gravity Drainage (SAGD)
24. **Jennifer Nguyen ****, Junior, **Summer 2014**, Research Topic: Residual Oil Saturation Determination
25. **Anderson Morrow****, Junior, **Summer 2013**, Research Topic: Steam Flooding, In-situ Combustion, and SAGD
26. **Niraj Shah ****, Sophomore, **Spring 2014**, Research Topic: In-Situ Combustion
27. **Matthew Williamson ****, Sophomore-Honor Student, **Fall 2013**, Research Topic: 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, Duration, Mentoring Topic

1. **Narendra Vishnumolakala****, PhD, Summer-Fall 2019, Mentoring Topic: Radio Frequency Heating
2. **Ahmed Hanafy ****, PhD, 2014-2015, Mentoring Topic: Alternative Fracturing Fluids
3. **Nesreen Elsayed ***, PhD, Spring 2013, Mentoring Topic: Teaching in Higher Education
4. **Enrique Vidal ***, PhD, 2012-2013, Mentoring Topic: Research on Steam Processes

5. **Sherif Abdelmoneim ****, MS, Fall 2013, Mentoring Topic: 3D in-situ combustion test
6. **Mengdi Gao ****, MS, 2012-2013, Mentoring Topic: Research on Shales
7. **Sung Yun Han ****, MS, 2012-2013, Mentoring Topic: Research on Seismic
8. **Assiya Suleimenova ****, MS, 2012-2014, Mentoring Topic: Research on Thermal Recovery

B.7. Teaching Assistants

Name, Advisor, Semester, Class

1. **Masoud Alfi**, Dr. John Killough & Dr. Maria Barrufet, Spring 2013-Spring 2014, PETE 310-Reservoir Fluids
2. **Xiaoda Liu**, Dr. Peter Valko, Summer 2014, PETE 609-EOR
3. **Abhishek Punase**, Dr. Hisham Nasr-El-Din, Fall 2014, PETE 310-Reservoir Fluids
4. **Abhishek Punase**, Dr. Hisham Nasr-El-Din, Spring 2015, PETE 609/PETE 489-EOR
5. **Xiaoda Liu**, Dr. Peter Valko, Summer 2015, PETE 623-Waterflooding
6. **Abhishek Punase**, Dr. Berna Hascakir, Fall 2015, PETE 310-Reservoir Fluids
7. **Matthew Morte**, Dr. Berna Hascakir, Fall 2015, PETE 310-Reservoir Fluids
8. **Matthew Morte**, Dr. Berna Hascakir, Summer 2016, PETE 609/-EOR
9. **Abhishek Punase**, Dr. Berna Hascakir, Fall 2016, PETE 310-Reservoir Fluids
10. **Taniya Kar**, Dr. Berna Hascakir, Fall 2016, PETE 310-Reservoir Fluids
11. **Matthew Morte**, Dr. Berna Hascakir, Fall 2017, PETE 310-Reservoir Fluids
12. **Kiran Nandlal**, A New PhD Student, Fall 2017, PETE 310-Reservoir Fluids
13. **Matthew Morte**, Dr. Berna Hascakir, Spring-Fall 2019, PETE 314-Transport Processes in Petroleum Production
14. **Jairo A. Cortes**, Dr. Berna Hascakir, Fall 2020 AND Spring 2021, PETE 314-Transport Processes in Petroleum Production

B.8. Internal Committees

Name, Advisor, Degree, Thesis

1. **Viacheslau Kudrashou**, Dr. Hisham Nasr-El-Din, PhD
2. **Omer Kaldirim**, Dr. Jerome Schubert, PhD
3. **Xiaona Cui**, Dr. John Killough, PhD
4. **Paul Ofoche**, Dr. Sam Noynaert, PhD
5. **Mohammed Almobarky**, Dr. David Schechter, PhD
6. **Hessah Alrashidi**, Dr. Hisham Nasr-El-Din, PhD
7. **Omar S. Mahmoud**, Dr. Hisham Nasr-El-Din, PhD
8. **Ahmed M. Ibrahim**, Dr. Hisham Nasr-El-Din, PhD
9. **Jingjing Zhang**, Dr. David Schechter, MS
10. **Jun Hong**, Dr. Hisham Nasr-El-Din, MS
11. **Tuan Phi**, Dr. David Schechter, MS, [LINK](#)
12. **Candan Unal**, Dr. Hisham Nasr-El-Din, MS, [LINK](#)
13. **Thanakrich Pummarapanthu**, Dr. Hisham Nasr-El-Din, MS, [LINK](#)
14. **Erick Martinez Antunez**, Dr. David Schechter, MS, [LINK](#)
15. **Salar Afra**, Dr. Hisham Nasr-El-Din, MS, [LINK](#)
16. **Aymen Abduljalil Jafar Alramadhan**, Dr. David Schechter, MS, [LINK](#)
17. **Adrian Sukal**, Dr. Maria Barrufet, MEng
18. **Hammad A. Irshad**, Dr. Rashid Hasan, MEng

B.9. External Committees

Name, Advisor, Degree & Link, Institution

1. **Jingyi Guo**, Dr. Yuefeng Sun, PhD, Geology & Geophysics, Texas A&M University

2. **Sebastian Smith**, Dr. Tom Yancey, MS, Geology& Geophysics-2019, Texas A&M University
3. **Konstantinos Christou**, Dr. Vladimir Nikora, PhD-2018, School of Eng., The University of Aberdeen, UK
4. **Robert Geiger**, Dr. David Staack, PhD-[LINK](#), Mechanical Engineering, Texas A&M University
5. **Mehdi Majdi Yazdi**, Dr. Jerry Jensen, PhD-02/24/2013 [LINK](#), University of Calgary, Canada
6. **Hongcai Wang**, Dr. Reza Rezaee, PhD-[LINK](#), Curtin University, Australia
7. **Sebastian Smith**, Dr. Julia Reece, MS, Geology& Geophysics, Texas A&M University
8. **Noah Miller**, Dr. Yuenfeng Sun, MS, Geology& Geophysics, Texas A&M University
9. **Jingyi Guo**, Dr. Yuefeng Sun, MS, Geology& Geophysics, Texas A&M University
10. **Tyler F. Hussey**, Dr. Xingmao Ma, MS, Civil Engineering, Texas A&M University
11. **Ahmet Unal**, Dr. Frederick Chester, MS-TBD, Geology & Geophysics, Texas A&M University
12. **Harika Rao Damarla**, Dr. David Staack, MS-[LINK](#), Mechanical Engineering, Texas A&M University
13. **Celal Bilgi**, Dr. Erchin Serpedin, MS-[LINK](#), Electrical Engineering, Texas A&M University
14. **Selin Guven**, Dr. Serhat Akin & Dr. Berna Hascakir, MSc-[LINK](#), Middle East Technical University, Turkey

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.

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](#)
5. Bealesio, B.A., Blázquez Alonso, N. A., Mendes, N. J., Sande, A. V., Hascakir, B., A Review of Enhanced Oil Recovery (EOR) Methods Applied in Kazakhstan, *Petroleum*, Article in Press. [LINK](#)
6. Vishnumolakala, N., Zhang, J., Ismail, N. B., A Comprehensive Review of Enhanced Oil Recovery Projects in Canada and Recommendations for Planning Successful Future EOR projects, *SPE Canada Heavy Oil Conference*, September 28–October 2, 2020. SPE-199951-MS. [LINK](#)

Encouraging Undergraduate Research: In total, 21 undergraduate students contributed the research studies over 5 years. We published 20 conference papers with these undergraduate students (the undergraduate students are highlighted with bold fonts in the listed papers below).

1. **Pope, C.**, Ismail, N., Hascakir, B., Catalytic Impact Of Clays During In-situ Combustion, *SPE Improved Oil Recovery Conference*, 18-22 April 2020, Tulsa, Oklahoma, USA, SPE-200381-MS. [LINK](#)
2. **Pope, C.**, Ismail, N., Hascakir, B., Impact Of Carbonates On Reaction Kinetics Of Bitumen Combustion, *SPE Canada Heavy Oil Conference*, 18-19 March 2020, Calgary, Alberta, CANADA, SPE-199959-MS. [LINK](#)
3. **Alhafidh, H.M.**, Morte, M.K., Hascakir, B., Interpretation Of Electromagnetic Wave Penetration And Absorption For Different Reservoir Mineralogy (quartz-rich, Limestone-rich, And Clay-rich) And At High And Low Water Saturation Values For A Bitumen Reservoir, *SPE Canada Heavy Oil Conference*, 18-19 March 2020, Calgary, Alberta, CANADA, SPE-199941-MS. [LINK](#)

4. Alshaikh, M., **Lee, Y.S.**, Hascakir, B., Anionic Surfactant and Heavy Oil Interaction during Surfactant-Steam Process, *SPE Western Regional Meeting*, 23-26 April 2019, San Jose, California, USA, SPE-195254-MS. [LINK](#)
5. Liao, H., Morte, M., **Bloom, E.**, Huff, G., Hascakir, B., Controlling Microwave Penetration and Absorption in Heavy Oil Reservoirs, *SPE Western Regional Meeting*, 22-27 April 2018, Garden Grove, California, USA, SPE-190089-MS. [LINK](#)
6. **Ng, A.**, Ovalles, C., Benson, I.P., Hascakir, B., Asphaltenes Contribution in Emulsion Formation during Solvent-Steam Processes, *SPE Western Regional Meeting*, 22-27 April 2018, Garden Grove, California, USA, SPE-190057-MS. [LINK](#)
7. Ismail, N.B., **Seber, E.**, Hascakir, B., Role of Aromatics Fraction of Crude Oil on In-Situ Combustion Performance, *SPE Improved Oil Recovery Conference (IOR 2018)*, 14-18 April 2018, Tulsa, OK, USA. SPE-190307-MS. [LINK](#)
8. Morte, M., **Bloom, E.**, Huff, G., Hascakir, B., Factors Affecting Electromagnetic Wave Penetration in Heavy Oil Reservoirs, *SPE Canada Heavy Oil Technical Conference*, 13-14 March 2018, Calgary, Alberta, Canada. SPE-189746-MS. [LINK](#)
9. **Ng, A.**, Hascakir, B., Asphaltenes Contribution in Emulsion Formation during Solvent-Steam Processes, *SPE Western Regional Meeting*, 22-27 April 2018, Garden Grove, California, USA, SPE-190057-MS. [LINK](#)
10. Ismail, N.B., **Seber, E.**, Hascakir, B., Role of Aromatics Fraction of Crude Oil on In-Situ Combustion Performance, *SPE Improved Oil Recovery Conference (IOR 2018)*, 14-18 April 2018, Tulsa, OK, USA. SPE-190307-MS. [LINK](#)
11. **Ng, A.**, **Seber, E.**, Ovalles, C., Benson, I.P., Hascakir, B., The Use of Asphaltenes Precipitants and Environmentally Friendly Solvents during Solvent-Steam Processes, *SPE/EAGE Tar Mats & Heavy Oil Workshop: Fluid Characterization and Development/Operational Challenges*, 30-31 Jan 2018, Dubai, UAE. [LINK](#)
12. 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](#)
13. 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](#)
14. 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](#)
15. **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](#)
16. **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](#)
17. **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](#)
18. 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).
19. **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.
20. **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.

21. 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](#)
22. 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](#)
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](#)
24. 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](#)

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. Sudiptya Banerjee, 3rd Place, 7th Annual Berg-Hughes Symposium, 2016

SERVICE (www.hascakir.com/service)

A. UNIVERSITY and DEPARTMENTAL LEVEL SERVICE

1. Advance Administrative Fellow for 2021-2022, sponsored by the College of Engineering, 40,000 USD.
2. Faculty Senate to serve on the Committee on the Academic Freedom, Responsibility and Tenure (CAFRT), starting from September 1, 2021.
3. Faculty Senate to serve on the Committee on the Honor Council, September 1, 2021-2023.
4. Graduate Studies Committee, 2019-Cont.', Petroleum Eng. Department, Texas A&M University.
5. Engineering Faculty Advisory Council (EFAC), Sept.-2018-May. 2021 College of Engineering, Texas A&M University. [LINK](#)
6. ADVANCE Science Scholars, Mentoring Junior Female Faculty in College of Science, Texas A&M University, 2019-2024.
7. Multidisciplinary Engineering (MTDE) Faculty Steering Committee, April 2020-June 2020. [LINK](#)
8. Undergraduate Curriculum Committee, 2016-2020, Petroleum Eng. Department, Texas A&M University.
9. Honors Program Coordinator for Petroleum Engineering, 2016-2017, College of Engineering, Texas A&M University, [LINK](#)
10. Vice Chair, Junior Engineering Faculty Advisory Council (JEFAC), 2015 Sept.-2017 College of Engineering, Texas A&M University. [LINK](#)
11. Undergraduate scholarship committee, 2014-2016, Texas A&M University, Petroleum Engineering Department.

B. PROFESSIONAL SERVICE

1. ABET (Accreditation Board for Engineering and Technology, Inc.) Engineering Accreditation Commission (EAC) Program Evaluator, 2018-Cont.'
2. The SPE Faculty Innovative Teaching Award Committee (October 2016-October 2019). [LINK](#)

C. EDITORIAL BOARD **Total decision was made for more than 350 papers**

1. Associate Editor in *Journal of Petroleum Science and Engineering* by Elsevier BV – January 2014-Cont.', [LINK](#)
2. Associate Editor in Energy Reports, August 2019-March 2020 [LINK](#)
3. Guest Editor for the Thermal EOR Special Issue of *Journal of Petroleum Science and Engineering* by Elsevier BV. This issue will be published in 2019. [LINK](#)
4. Managing Guest Editor for the Thermal EOR Special Issue of *Journal of Petroleum Science and Engineering* by Elsevier BV. This issue will be published online on July 1, 2018. [LINK](#)
5. Managing Guest Editor for Enhanced Heavy Oil and Oil Shale Recovery Special Issue of Geosciences (ISSN 2076-3263) by Walter de Gruyter GmbH & Co. KG, [LINK](#)
6. Managing Guest Editor for the Thermal EOR Special Issue of *Journal of Petroleum Science and Engineering* by Elsevier BV. [LINK](#)

D. EXTERNAL COMMITTEE SERVICE

1. Technical Program Committee for SPE ATCE, SPE Annual Conference and Exhibition, 21-23 September 2021, Dubai, UAE. [LINK](#) (275 abstracts reviewed).

2. Technical Program Committee for Unconventional Resources Technology Conference Fueled by SPE AAPG and SEG. 26-28 July 2021 Houston, Texas. USA (120 abstracts reviewed). [LINK](#)
3. Technical Program Committee for SPE/IADC Middle East Drilling Technology Conference and Exhibition, 15-17 September 2020, Abu Dhabi, UAE. [LINK](#)
4. Technical Program Committee for the 4th Thermal EOR International Workshop, “Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications”, 6-8 May 2020, Bucaramanga, Colombia. [LINK](#)
5. Technical Program Committee for Unconventional Resources Technology Conference Fueled by SPE AAPG and SEG. 20-22 July 2020 Austin, Texas. USA (74 abstracts reviewed). [LINK](#)
6. Technical Program Committee for SPE ATCE, SPE Annual Conference and Exhibition, 5-7 October 2020, Denver, Colorado, USA. [LINK](#)
7. Technical Program Committee for SPE Heavy Oil Canada, 18- 19 March 2020, Calgary Canada. [LINK](#)
8. Technical Program Committee for SPE ATCE, SPE Annual Conference and Exhibition, 30 September- 2 October 2019, Calgary Canada. [LINK](#)
9. The SPE Faculty Innovative Teaching Award Committee (October 2016-October 2019). [LINK](#)
10. Technical Program Committee for Thermal EOR International Workshop, “Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications”, 16-19 October 2018, Chengdu, China. [LINK](#)
11. Steering Committee, 2018 SPE/EAGE Tar Mats & Heavy Oil Workshop, 30-31 January 2018, Dubai, United Arab Emirates, [LINK](#)
12. Technical Program Committee for SPE/IADC Middle East Drilling Technology Conference and Exhibition, 29-31 January 2018, Abu Dhabi, UAE. [LINK](#)
13. Technical Program Committee for SPE Heavy Oil Technical Conference, 13-14 March 2018, Calgary, AB, Canada. [LINK](#)
14. Technical Program Committee for Thermal EOR International Workshop, “Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications”, 19-24 June 2017, Kazan, Russia. [LINK](#)
15. Technical Program Committee for SPE Heavy Oil Technical Conference, 15-16 February 2017, Calgary, AB, Canada. [LINK](#)
16. Technical Program Committee for SPE Latin America and Caribbean Heavy and Extra-Heavy Oil Conference, 19-20 October 2016, Lima, PERU. [LINK](#)
17. Technical Program Committee for Thermal EOR International Workshop, “Thermal Methods for Enhanced Oil Recovery: Laboratory Testing, Simulation and Oilfields Applications”, 28 June-1 July 2016, Kazan, Russia. [LINK](#)

E. REVIEWING/EDITING (**Quartile**: Q1 means highest values and Q4 lowest values **SJR**: [SCImago Journal Rank](#),)

E.1. Journal Review (number of papers reviewed) More than 100 papers were reviewed

1. Energy & Fuel, (20 papers reviewed), **Q1**. [LINK](#)
2. Journal of Petroleum Science and Engineering (18 papers reviewed), **Q1**. [LINK](#)
3. Fuel, (15 papers reviewed) **Q1**. [LINK](#)
4. Fuel Processing Technology, (10 papers reviewed), **Q1**. [LINK](#)
5. International Journal of Oil, Gas, and Coal Technology (IJOGCT) (4 papers reviewed), **Q2**. [LINK](#)
6. SPE Journal, (5 papers reviewed), **Q1**. [LINK](#)
7. Industrial & Engineering Chemistry Research (2 paper reviewed), **Q1**. [LINK](#)
8. Journal of Canadian Petroleum Technology (2 papers reviewed), **Q1**. [LINK](#)
9. Combustion Science and Technology (2 papers reviewed), **Q1**. [LINK](#)

10. Chemical Engineering Journal (2 papers reviewed), **Q1.** [LINK](#)
11. Scientific Reports by Nature (1 paper reviewed), **Q1.** [LINK](#)
12. SPE Reservoir Evaluation & Engineering, (1 paper reviewed), **Q1.** [LINK](#)
13. Journal of Petroleum Exploration and Production Technology (1 paper reviewed), **Q2.** [LINK](#)
14. Journal of Petroleum Engineering (1 paper reviewed). [LINK](#)
15. Catalysis Reviews (1 paper reviewed), **Q1.** [LINK](#)
16. Energy, (1 paper reviewed), **Q1.** [LINK](#)
17. Journal of Energy Resources Technology, ASME (1 paper reviewed), **Q2.** [LINK](#)
18. Transport in Porous Media, (1 paper reviewed), **Q1.** [LINK](#)
19. Colloids and Surfaces A: Physicochemical and Engineering Aspects, (1 paper reviewed), **Q2.** [LINK](#)

E.2. Research Funding Review (number of research proposals reviewed) Total 13 proposals were reviewed

1. Department of Energy's Technology Commercialization Fund (TCF) administered by DOE's Office of Technology Transitions (OTT) (2 proposals reviewed)
2. Natural Science and Engineering Research Council of Canada (NSERC) (5 proposals reviewed), [LINK](#)
3. Canada Foundation for Innovation (1 proposal reviewed), [LINK](#)
4. Mitacs (3 proposals reviewed), [LINK](#)
5. American Chemical Society (ACS), Petroleum Research Fund (1 proposal reviewed), [LINK](#)
6. Research North Dakota Grant Program (2 proposal reviewed), [LINK](#)

F. 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.

G. MENTORING

1. ADVANCE Science Scholars, Mentoring Junior Female Faculty in College of Science, Texas A&M University, 2019-2024.
2. Junior Faculty Mentoring, at Petroleum Engineering Department, Texas A&M University, in 2015-2016.
3. Volunteer for Women in Engineering (WE) at Texas A&M University. [LINK](#)
4. The Academy of Future Faculty (AFF) at Texas A&M University. [LINK](#)
5. 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](#)
6. SPE Mentoring Program, 2013-cont.'. [LINK](#)
7. WITSON to encourage women's education in science and engineering, Summer 2012, [LINK](#)