

**Dr. Fathi H. BOUKADI**  
**Curriculum Vitae**

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**PERSONAL INFORMATION :**

Name: Fathi H. BOUKADI  
Citizenship: US Citizen  
Age: 60 (last birthday)  
Local Address: University of Louisiana, Lafayette, Louisiana, USA  
Phone numbers: +1 337 482 6148 (O) - +1 337 255 2846 (Cell)  
E-mail: fxb1275@louisiana.edu  
Marital Status: Married, 5 children  
Speaks & Writes: English, French & Arabic

**PROFESSIONAL INTERESTS :**

Rock, Fluid, & Rock/Fluid Properties. Oil & Gas Reservoir Engineering with Emphasis on Reservoir Simulation & Well Testing. Improved/Enhanced Oil Recovery. Data Analytics & Machine Learning.

**EDUCATION :**

**Pennsylvania State University (1987-1991)**

University Park, Pennsylvania, USA

**Ph.D.** in Petroleum & Natural Gas Engineering.

Thesis Title: An Experimental & Theoretical Study to Relate Uncommon Rock/Fluid Properties to Oil Recovery by Waterflooding

Thesis Supervisors: Prof. T. Ertekin, Dr. R. Watson & Dr. R. Slingerland

**Pennsylvania State University (1985-1987)**

University Park, Pennsylvania, USA

**M.Sc.** in Petroleum & Natural Gas Engineering.

Thesis Title: The Effect of Crossflow on Oil Recovery by Waterflooding in a Layered Sandstone Reservoir

Thesis Supervisor: Dr. J. Abu-Kassem

**University of Southwestern Louisiana (1981-1985)**

Lafayette, Louisiana, USA

**B.Sc.** in Petroleum Engineering.

Senior Project Title: Use of Micellar Solution as a Tertiary Oil Recovery Method in a Quarter of Five-spot Plexiglas Model

**EMPLOYMENT HISTORY :**

**University of Louisiana (January 2021-Present)**

Lafayette, LA, USA

Professor

**United Arab Emirates University\* (August 2019-December 2020)**

Al-Ain, Abu Dhabi, United Arab Emirates

Professor

\*on leave of absence without pay

**University of Louisiana (January 2012-July 2019)**

Lafayette, LA, USA

Endowed Professor & Head

<b>University of Louisiana</b> Lafayette, LA, USA Endowed Professor & <u>Interim Head</u>	<b>(March 2010-December 2011)</b>
<b>University of Louisiana</b> Lafayette, LA, USA Endowed Professor	<b>(August 2007-Present)</b>
<b>Petroleum Institute</b> Abu Dhabi, UAE Associate Professor	<b>(July 2006-August 2007)</b>
<b>Sultan Qaboos University</b> Muscat, Sultanate of Oman <u>Department Head</u>	<b>(Sept. 2001-Aug. 2005)</b>
<b>Sultan Qaboos University</b> Muscat, Sultanate of Oman Associate Professor	<b>(June 2000-June 2006)</b>
<b>Sultan Qaboos University</b> Muscat, Sultanate of Oman Assistant Professor	<b>(June 1997-May 2000)</b>
<b>Sultan Qaboos University</b> Muscat, Sultanate of Oman Lecturer	<b>(Jan. 1993-June 1997)</b>
<b>Marathon Oil Company (MOC)</b> Tunis, Tunisia Reservoir Engineering Dept. (Emphasis on Reservoir Simulation) DST Company Man (Zarat, Didon & Elyssa Fields)	<b>(Sept. 1991-Dec. 1992)</b>
<b>Pennsylvania-State University</b> University Park, Pennsylvania Teaching Assistant (Drilling Engineering)	<b>(Spring 1991)</b>
<b>Pennsylvania-State University</b> University Park, Pennsylvania Teaching Assistant (Thermal Recovery)	<b>(Fall 1990)</b>
<b>Pennsylvania-State University</b> University Park, Pennsylvania Teaching Assistant (Well Testing Analysis)	<b>(Spring 1990)</b>
<b>US Department of Energy/PSU</b> University Park, Pennsylvania Graduate Research Assistant	<b>(1987-1991)</b>

#### **H O N O R S & A W A R D S :**

- ✓ Round Table Group Expert Consortium Member
- ✓ Who's who in America
- ✓ Phi Beta Delta (Honor Society for International Scholars) Member
- ✓ Who's Who in Engineering Higher Education (WWEHE)
- ✓ SQU-College of Engineering Best Researcher, 2005-2006
- ✓ SQU-Advisee Graduation Project won 2<sup>nd</sup> Place among ME Universities in SPE Regional Student Paper Contest, Dhahran, 16 May 2004
- ✓ SQU-Department Best Teacher, Fall 2003

**HONORS & AWARDS :**

- ✓ **Pennsylvania State University** (1985-1991)  
University Park, Pennsylvania, USA  
US DOE Research Grant of US \$260,000  
Dean's List, Engineering Honor Society, Petroleum Engineering Honor Society.  
Graduated with Honors (Summa Cum Laude)
- ✓ **University of Southwestern Louisiana** (1981-1985)  
Lafayette, Louisiana, USA  
Dean's List, Engineering Honor Society, Petroleum Engineering Honor Society.  
Graduated with Honors (Cum Laude)
- ✓ **USAID Scholarship Recipient** (1981-1991)

**PROFESSIONAL MEMBERSHIPS :**

Petroleum Engineering Department Heads Association (PEDHA) Member  
American Society of Petroleum Engineers (SPE) Member  
American Petroleum Institute (API) Member  
American Association for Drilling Engineers (AADE) Member

**CAREER DEVELOPMENT :****While @ UAEU**

- Attended Society of Petroleum Engineers Reservoir Characterization and Simulation Conference and Exhibition, Abu Dhabi, UAE, September 17–19, 2019

**While @ UL**

- Attended Society of Petroleum Engineers Annual Technical Conference and Exhibition, Dallas - TX, September 23– 27, 2018
- Attended Formation Damage Symposium and Exhibition, Lafayette - LA, February 7-9, 2018
- Attended Society of Petroleum Engineers Annual Technical Conference and Exhibition, San Antonio - TX, October 9–11, 2017
- Attended Formation Damage Symposium and Exhibition, Lafayette - LA, February 24-26, 2016
- Attended Society of Petroleum Engineers Annual Technical Conference and Exhibition, San Antonio - TX, October 6–11, 2012
- Attended Formation Damage Symposium and Exhibition, Lafayette - LA, February 15-17, 2012
- Attended Society of Petroleum Engineers Annual Technical Conference and Exhibition, Denver - CO, October 30–Nov. 2, 2011
- Attended Formation Damage Symposium and Exhibition, Lafayette - LA, February 10-12, 2010
- Attended Society of Petroleum Engineers Annual technical Conference and Exhibition, NO - LA, October 31–Nov. 3, 2009
- Attended Formation Damage Symposium and Exhibition, Lafayette - LA, February 08-10, 2008

**While @ Petroleum Institute**

- Participated in 2<sup>nd</sup> NOC-Shell Carbon Management & CO<sub>2</sub>-EOR Workshop, Abu Dhabi, May 29-30, 2007
- Participated in product training course, Dataphysics, Filderstadt, Germany, April 11-13, 2007
- Participated in ADNOC Projects' Prioritization Workshop, Abu Dhabi, Feb. 19, 2007

**While @ SQU**

- Attended Sixteenth Annual Industrial Affiliates Meeting, The Center of Subsurface Modeling, University of Texas @ Austin, October 16-17, 2006
- Attended "Schlumberger Interchange 2002 @ MEA", Oman, December 2002
- Attended "OTC 2002: Deep Into the Future", Houston, Texas, USA, May 2002

- Attended "Schlumberger Professor" Visit to Abu Dhabi, UAE and Paris, France, October 2001
- Visited "MI Technologies Headquarters", Houston, Texas, USA, June 2001
- Attended "SPE Reservoir Simulation Symposium", Houston, Texas, USA, Feb. 2001

### INVITED LECTURES:

#### While @ UL

- "The Petroleum Engineering Department at University of Louisiana Lafayette – An Update", SPE Teche Chapter, Lafayette, Louisiana, December 2012
- "The Petroleum Engineering Department at University of Louisiana Lafayette – An Update", SPE Teche Chapter, Lafayette, Louisiana, September 2011
- "Status of the Petroleum Engineering Department at University of Louisiana Lafayette", SPE Teche Chapter, Lafayette, Louisiana, January 2011
- "Gas Injection – An Enhanced Oil Recovery Strategy", The Petroleum Institute, Abu Dhabi, The United Arab Emirates, July 2009
- "Gas Injection – An Enhanced Oil Recovery Strategy", The Petroleum Institute, Abu Dhabi, The United Arab Emirates, September 2008

#### While @ SQU

- "Application of Thermally Assisted Gas-oil Gravity Drainage (TAGOGD) in Qarn Alam, Oman – A Novel EOR technique", The Petroleum Institute, Abu Dhabi, The United Arab Emirates, May 2006
- "Application of Thermally Assisted Gas-oil Gravity Drainage (TAGOGD) in Qarn Alam, Oman – A Novel EOR technique", The University of Missouri Rolla, MO, April 2006
- "Application of Thermally Assisted Gas-oil Gravity Drainage (TAGOGD) in Qarn Alam, Oman – A Novel EOR technique", École Polytechnique de Tunis, Tunis, Tunisia, Jan. 2006
- Huff n' Puff to Revaporize Liquid Dropout in Condensate Gas Reservoir, The Petroleum Institute, Abu Dhabi, The United Arab Emirates, May 2005
- "Mobilizing Condensate in Gas Reservoirs – A Numerical Simulation Study", Petroleum Development Oman, Muscat, Oman, May 2004

### NEW DEVELOPED COURSES:

#### While @ UAEU

CPSE 695	Non-Thesis Project
PETE 627	Advanced Reservoir Simulation
PETE 612	Advanced Natural Gas Engineering
PETE 608	Advanced Drilling Engineering
PETE 590	Graduation Project II
PETE 585	Graduation Project I
PETE 443	Transport & Storage of Petrol.
PETE 413	Applied Reservoir Geology
PETE 403	Well Logging
PETE 308	Drilling Engr. I

#### While @ UL

PETE 595	Theory and Techniques of Mathematical Reservoir Simulation
PETE 591	Transient Pressure Behavior
PETE 586	Secondary Recovery Processes

**While @ UL**

PETE 578	Advanced Principles of Natural Gas
PETE 497	Special Design Problems
PETE 496	Reservoir Engineering Lab
PETE 494	Reservoir Engineering
PETE 482	Imp. Pete Recovery
PETE 480	PETE Computer Applications
PETE 391	Phase behavior HC
PETE 101	Introduction to PETE

**TEACHING ACTIVITIES:****While @ UL**

Course # Title	Contact Hrs/week	Enrollment	Year
PETE 423 Imp. Pete Recovery	3	20	Sp '21

**While @ United Arab Emirates University (Leave Without Pay)**

Course # Title	Contact Hrs/week	Enrollment	Year
CPSE 695 Non-Thesis Project	3	4	Fa '20
PETE 608 Adv. Drilling Engr.	3	5	Fa '20
PETE 590 Graduation Project II	3	1	Fa '20
PETE 413 Applied Reservoir Geology	3	15	Fa '20
PETE 627 Advanced Reser. Sim.	3	4	Sp '20
PETE 590 Graduation Project II	3	7	Sp '20
PETE 308 Drilling Engr. I	3	7	Sp '20
PETE 612 Adv. Nat. Gas Engr.	3	3	Fa '19
PETE 585 Graduation Project I	3	7	Fa '19
PETE 443 Transport & Storage of Petrol.	3	15	Fa '19
PETE 413 Applied Reservoir Geology	3	13	Fa '19
PETE 403 Well Logging	3	10	Fa '19

**While @ UL**

Course #Title	Contact Hrs/week	Enrollment	Year
PETE 699 PhD Thesis Reserahc	2	2	Fa '18
PETE 586 Secondary Recovery Processes	3	14	Fa '18
PETE 494 Reservoir Engineering	3	37	Fa '18
PETE 599 MS Thesis Research	1	1	Sp '18
PETE 598 Special Topics	2	2	Sp '18
PETE 591 Transient Press. Behav.	3	13	Sp '18
PETE 599 MS Thesis Research	1	1	Fa '17
PETE 698 Special Topics	3	3	Fa '17
PETE 595 Reservoir Simulation	3	20	Fa '17
PETE 697 Special Topics	4	4	Sp '17
PETE 478 Natural Gas Engineering	3	81	Sp '17
PETE 101 Introduction to PETE	2	37	Sp '17

<b>Course #Title</b>	<b>Contact Hrs/week</b>	<b>Enrollment</b>	<b>Year</b>
PETE 699 PhD Thesis Research	1	1	Fa '16
PETE 599 MS Thesis Research	5	5	Fa '16
PETE 391 Phase Behavior of HC Sys	3	136	Fa '16
PETE 599 MS Thesis Research	3	3	Su '16
PETE 699 PhD Thesis Research	1	1	Sp '16
PETE 599 MS Thesis Research	4	4	Sp '16
PETE 482 Imp. Pete Recovery	3	95	Sp '16
PETE 101 Introduction to PETE	2	80	Sp '16
PETE 699 PhD Thesis Research	1	1	Fa '15
PETE 599 MS Thesis Research	11	11	Fa '15
PETE 595 Reservoir Simulation	3	44	Fa '15
PETE 497 Special Design Probs.	3	1	Fa '15
PETE 101 Introduction to PETE	2	150	Fa '15
PETE 599 MS Thesis Research	3	3	Su '15
PETE 699 PhD Thesis Research	1	1	Sp '15
PETE 599 MS Thesis Research	11	11	Sp '15
PETE 482 Imp. Pete Recovery	3	106	Sp '15
PETE 101 Introduction to PETE	2	143	Sp '15
PETE 699 PhD Thesis Research	1	1	Fa '14
PETE 599 MS Thesis Research	13	13	Fa '14
PETE 591 Transient Press. Behav.	3	47	Fa '14
PETE 101 Introduction to PETE	2	146	Fa '14
PETE 599 MS Thesis Research	3	3	Su '14
PETE 699 PhD Thesis Research	1	1	Sp '14
PETE 599 MS Thesis Research	12	12	Sp '14
PETE 482 Imp. Pete Recovery	3	51	Sp '14
PETE 480 PETE Comp. App.	3	25	Sp '14
PETE 699 PhD Thesis Research	1	1	Fa '13
PETE 599 MS Thesis Research	4	4	Fa '13
PETE 595 Reservoir Simulation	3	29	Fa '13
PETE 699 PhD Thesis Research	2	2	Sp '13
PETE 599 MS Thesis Research	9	9	Sp '13
PETE 578 Adv. Principles of Nat. Gas	3	16	Sp '13
PETE 482 Imp. Pete Recovery	3	48	Sp '13
PETE 480 PETE Comp. App.	3	30	Sp '13

<b>Course #Title</b>	<b>Contact Hrs/week</b>	<b>Enrollment</b>	<b>Year</b>
PETE 599 MS Thesis Research	8	8	Fa '12
PETE 591 Transient Press. Behav.	3	17	Fa '12
PETE 586 Secondary Recovery Proc.	3	16	Fa '12
PETE 899 Non-thesis Comprehensive	2	2	Su '12
PETE 599 MS Thesis Research	6	6	Su '12
PETE 899 Non-thesis Comprehensive	3	3	Sp '12
PETE 599 MS Thesis Research	10	10	Sp '12
PETE 595 Adv. Principles of Nat. Gas	3	16	Sp '12
PETE 482 Imp. Pete Recovery	3	44	Sp '12
PETE 480 PETE Comp. App.	3	33	Sp '12
PETE 599 MS Thesis Research	12	12	Fa '11
PETE 591 Transient Press. Behav.	3	15	Fa '11
PETE 586 Secondary Recovery Proc.	3	14	Fa '11
PETE 599 MS Thesis Research	4	4	Su '11
PETE 599 MS Thesis Research	16	16	Sp '11
PETE 578 Adv. Principles of Nat. Gas	3	26	Sp '11
PETE 482 Imp. Pete Recovery	3	44	Sp '11
PETE 480 PETE Comp. App.	3	17	Sp '11
PETE 599 MS Thesis Research	8	8	Fa '10
PETE 595 Reservoir Simulation	3	21	Fa '10
PETE 494 Reservoir Engineering	3	56	Fa '10
PETE 496 Reservoir Engineering Lab	1	41	Fa '10
PETE 391 Phase Behavior HC	2	42	Fa '10
PETE 599 MS Thesis Research	10	10	Sp '10
PETE 591 Transient Press. Behav.	3	36	Sp '10
PETE 480 PETE Comp. App.	3	31	Sp '10
PETE 599 MS Thesis Research	10	10	Fa '09
PETE 595 Reservoir Simulation	3	28	Fa '09
PETE 497 Special Design Problems	3	10	Fa '09
PETE 599 MS Thesis Research	13	13	Sp '09
PETE 586 Secondary Recovery Proc.	3	19	Sp '09
PETE 480 PETE Comp. App.	3	25	Sp '09
PETE 101 Introduction to PETE	2	20	Sp '09

<b>Course #Title</b>	<b>Contact Hrs/week</b>	<b>Enrollment</b>	<b>Year</b>
PETE 599 MS Thesis Research	7	7	Fa '08
PETE 578 Advanced Gas Engg.	3	26	Fa '08
PETE 101 Introduction to PETE	2	39	Fa '08
PETE 599 MS Thesis Research	4	4	Su '08
PETE 599 MS Thesis Research	4	4	Sp '08
PETE 591 Transient Press. Behav.	3	28	Sp '08
PETE 480 PETE Comp. App.	3	20	Sp '08
PETE 101 Introduction to PETE	2	16	Sp '08
PETE 599 MS Thesis Research	1	1	Fa '07
PETE 595 Reservoir Simulation	3	22	Fa '07
PETE 497 Special Design Problems	3	18	Fa '07
<b><u>While @ Petroleum Institute</u></b>			
PEEG 458 Special Topics	4	30	Su '07
PEEG 455 Senior Design Project	4	5	Sp '07
PEEG 436 Rsvr Eval. & Monitoring	4	10	Sp '07
PEEG 334 Reservoir Engineering II	4	7	Sp '07
PEEG 455 Senior Design Project	4	6	Fa '06
PEEG 436 Rsvr Eval. & Monitoring	4	6	Fa '06
PEEG 334 Reservoir Engineering II	4	11	Fa '06
<b><u>While @ SQU</u></b>			
PNGE 6101 Adv. Production Engg.	4	6	Sp '06
PNGE 6002 Adv. Reservoir Engg.	4	6	Sp '06
PNGE 6001 Adv. Fluid Flow	4	6	Fa '05
PNGE 5112 Petroleum Production	4	20	Fa '05
PMRE 5347 Reservoir Case Study	4	17	Sp '05
PMRE 5146 Process. of Nat. Gas Eng.	4	17	Sp '05
PMRE 5142 Petroleum Production	5	18	Fa '04
PMRE 5140 Reservoir Case Study	4	18	Fa '04
PMRE 5347 Reservoir Case Study	4	14	Sp '04
PMRE 5146 Process. of Nat. Gas Eng.	4	14	Sp '04
PNGE 3212 Rock & Fluid Properties	3	19	Sp '04
PMRE 5142 Petroleum Production	5	13	Sp '03
PMRE 5347 Reservoir Case Study	4	15	Sp '03
PMRE 5146 Process. of Nat. Gas Eng.	4	16	Sp '03



<b>Course #Title</b>	<b>Contact Hrs/week</b>	<b>Enrollment</b>	<b>Year</b>
PMRE 5142 Petroleum Production	5	17	Fa '02
PETR 3489 Petro. Comp. Appl.	4	16	Fa '02
PMRE 5146 Process. of Nat. Gas Eng.	4	8	Sp '02
PMRE 5142 Petroleum Production	5	7	Fa '01
PMRE 2102 Intro. to PMRE	4	33	Fa '01
PMRE 2102 Intro. to PMRE	4	40	Su '01
PETR 5799 FY Project Coordinator	1	12	Sp '01
PETR 4124 Natural Gas Engineering	4	11	Sp '01
PETR 3489 Petro. Comp. Appl.	4	11	Sp '01
PETR 4199 Final Year Proj. Coord.	1	9	Fa '00
PMRE 2102 Intro. to PMRE	4	7	Fa '00
PETR 5799 FY Project Coordinator	1	12	Sp '00
PETR 5132 Petroleum Production II	4	21	Sp '00
PETR 4284 Intro. to Res. Simulation	6	12	Sp '00
PMRE 2102 Intro. to PMRE	4	7	Sp '00
PETR 4199 Final Year Proj. Coord.	1	13	Fa '99
PETR 4132 Petroleum Production I	4	11	Fa '99
PMRE 2102 Intro. to PMRE	4	7	Fa '99
PETR 5799 FY Project Coordinator	1	13	Sp '99
PETR 5132 Petroleum Production II	4	13	Sp '99
PETR 4284 Intro. to Res. Simulation	6	10	Sp '99
PETR 3489 Petro. Comp. Appl.	4	11	Sp '99
PETR 5394 Reservoir Case Study	4	13	Fa '98
PETR 4199 Final Year Proj. Coord.	1	13	Fa '98
PETR 4132 Petroleum Production I	4	11	Fa '98
PETR 3489 Petro. Comp. Appl.	4	6	Fa '98
PETR 5799 FY Project Coordinator	1	13	Sp '98
PETR 5127 Process. of Nat. Gas Eng.	4	5	Sp '98
PETR 4284 Intro. to Res. Simulation	6	13	Sp '98
PETR 3489 Petro. Comp. Appl.	4	7	Sp '98
PETR 5394 Reservoir Case Study	4	13	Fa '97
PETR 4239 Rock & Fluid Properties	4	12	Fa '97
PETR 4199 Final Year Proj. Coord.	1	13	Fa '97
PETR 5799 FY Project Coordinator	1	5	Sp '97
PETR 5127 Process. of Nat. Gas Eng.	4	5	Sp '97
PETR 4284 Intro. to Res. Simulation	6	13	Sp '97

Course #Title	Contact Hrs/week	Enrollment	Year
PETR 5394 Reservoir Case Study	4	5	Fa '96
PETR 4239 Rock & Fluid Properties	4	5	Fa '96
PETR 4199 Final Year Proj. Coord.	1	5	Fa '96
PETR 4124 Natural Gas Engineering	4	5	Fa '96
PETR 5394 Reservoir Case Study	4	9	Sp '96
PETR 5132 Petroleum Production II	4	9	Sp '96
PETR 4284 Intro. to Res. Simulation	6	9	Sp '96
PETR 5127 Process. of Nat. Gas Eng.	4	9	Fa '95
PETR 4132 Petroleum Production I	4	6	Fa '95
PETR 5394 Reservoir Case Study	4	9	Sp '95
PETR 5132 Petroleum Production II	4	9	Sp '95
PETR 5127 Process. of Nat. Gas Eng.	4	9	Sp '95
PETR 4284 Intro. to Res. Simulation	6	9	Sp '95
PETR 5334 Adv. Reservoir Eng.	4	9	Fa '94
PETR 5184 Reservoir Simulation	6	9	Fa '94
PETR 5394 Reservoir Case Study	4	13	Sp '94
PETR 5132 Petroleum Production II	4	13	Sp '94
PETR 5334 Adv. Reservoir Eng.	4	14	Fa '93
PETR 5184 Reservoir Simulation	6	14	Fa '93
PETR 5184 Reservoir Simulation	6	14	Sp '93

### THESIS ADVISOR:

#### While @ UL

#### PhD Theses Supervised (1)

##### Completed

1. A Practical Approach for Formation Damage Control in Both Miscible and Immiscible CO<sub>2</sub> Gas Flooding in Asphaltenic Crude Systems Using Water Slugs and Injection Parameters (December 2016) – Student Name: Sergio David

#### MS Theses Supervised (65)

##### Completed

65. A Sensitivity Analysis of Intermittent Waterfloodig to Mitigate Asphaltene Deposition (December 2016) – Student Name: Edward Moorman

64. Determining Relative Permeability of North American Sandstone Utilizing Artificial Neural Networks (December 2016) – Student Name: Spencer Hamblin

63. Pressure Analysis during Bull Heading in a Deep-water Environment Using Fluid Modeling Simulations (December 2016) – Student Name: Gavin Parria

62. Fracture Conductivity and its Effects on Production Estimation in Shale (December 2016) – Student Name: Mr. Raymond Cozby

61. Production Optimization Using In-Situ Steam Generator in Rejuvenated Heavy Oil Field (December 2015) - Student Name: Mr. Vikram Bujarbarua

60. Horizontal Well Placement Evaluation Deep Offshore Nigeria (December 2015) - Student Name: Ms. Zegbe Nguessan
59. Fracture Geometry Modeling and Its Effects on Production Estimation in Shale (December 2015) - Student Name: Mr. Linh Luong
58. An Experimental Comprison of Three Scale Control Materials (May 2015) – Student Name: Mr. Kolade Cole
57. Porescale Investigation of Gas Shales Reservoir Dscription by Comparing the Barnett, Mancos, and Marcellus Formation (December 2014) Student Name: Mr. Ayodele Alaiyeabami
56. (December 2014) Student Name: Mr. Ebiotubose Damian Selemobri
55. Saline Waterflooding – A Case Study (December 2014) - Student Name: Ms. Kadiatou Coulibaly
54. Experimental Investigation of Iron Control Systems Used in Fracking and Well Stimulation Fluids at Higher pH (December 2014) - Student Name: Mr. Tsegaye Nigus
53. Vertical Lift Performance using System Analysis (Investigating Active variables on flowing well performance) Base Case (December 2014) – Student Name: SomtoChukwu Sibeudu
52. Improved Depleting Sand Fracture Model (December 2014) – Student Name: Mr. Kabir Sanni
51. Statistical Time Estmates for Deepwater Completions in the Gulf of Mexico: Integration of Neural Networking and Distribution Modeling (December 2014) - Student Name: Mr. Paul Robinson
50. Improved Depleting Sand Fracture Model (May 2014) – Student Name: Sanni Oyekunle
49. Investigating Constraint Pressure Residual Ability in Eclipse Using Petrel Functions (May 2014) – Student Name: Joy Okpala
48. Revisiting Well Design and Geo-pressure Modeling through Best Practices for Mud Weight Window Generation and Accuracy Assessment between Seismic-based Pore Pressure Prediction Methodologies for a Near-salt Field in Mississippi Canyon, Gulf of Mexico (December 2013) – Student Name: Timothy Mannon Jr.
47. A Statistical Analysis of Modern Perforation Equations and the Development of a New Perforation Method (May 2013) - Student Name: Frank Sebring
46. Shale Gas Post Fracture Effect on Relative Permeability – A Case Study - (May 2013) Student Name: Ms. Monica Buabeng
45. Carbonated Water Injection Performance Evaluation using Numerical Simulation - (May 2013) Student Name: Mr. Ahmed Temani
44. EOR Feasibility Study of a Mature Oilfield – A Comparative Approach (May 2013) - Student Name: Mr. Mr. Akintunde Ademola
43. Application of the Volumetric Method, Material Balance, And Finite Difference Reservoir Simulation: Pompano Field’s P38C-P38A Horizons Case Study – (May 2013) Student Name: Mr. Kyle Staude
42. Prevention of Liquid Loading with Microwave Heating (December 2012) - Student Name: Mr. Jamal Nabimeybody
41. Prevention of Asphaltene Induced Formation Damage in a Miscible CO<sub>2</sub> Gas Flooding Using both Injection Rate and Pressure as Tools (December 2012) - Student Name: Mr. Sergio David
40. Production and Economic Viability Comparison of Carbonated Water and CO<sub>2</sub> Injection Strategies (December 2012) - Student Name: Mr. Jonathan James

39. Prevention and Mitigation of Asphaltene Deposition through an Intermittent CO<sub>2</sub> Flood (December 2012) - Student Name: Mr. Edward Evans
38. Effects of Condensate Build up on Post Fracture Productivity Index in the Eagle Ford Shale (May 2012) – Student Name: Mr. Adeola Agboola
37. Reservoir Study/Simulation of 9950 FT Sand of UL 01 Field (May 2012) - Student Name: Mr. Charles Meikalike in coordination with Chevron
36. Analysis of SAGD Models for Faster Oil Sands Initial Response (May 2012) – Student Name: Mr. Varun Pai
35. Performance Prediction from Hydraulically Fractured Wells in Tight Oil Reservoir (December 2011) – Student Name: Mr. Yerramsetty Harish
34. Simulation of Scale Deposition in Oil Reservoirs (December 2011) – Student Name: Ms. Laetitia Moukouri
33. Effects of Scale Deposition Resulting from Waterflooding on Reservoir Performance (December 2011) – Student Name: Ms. Adaobi Irogbele
32. Effect of Polymer Composition & Concentration on Navette '410' Reservoir Performance (December 2011) – Student Name: Ms. Tamla Springer
31. Investigation of a Method in Sand Production Rate Measurement by Non-intrusive Devices (December 2011) – Student Name: Mr. Mohammad Kazemi
30. Petrophysical Rock Typing – An Effective Tool for Reservoir Characterization (May 2011) - Student Name: Mr. Samiran Barkakoti
29. Simulation of CO<sub>2</sub> Vaporization/Condensation and Sequestration Mechanisms – A Case Study – (May 2011) - Student Name: Mr. Eric Anim-Ansah
28. Intermittent Waterflooding to Mitigate Asphaltene Deposition (May 2011) – Student Name: Mr. Miguel Carrera
27. An Empirical Model to Predict Skin Factor for a Libyan Oilfield (May 2011) - Student Name: Mr. Talal Gamadi
26. Optimizing Recovery of the Haynesville Shale Gas using Selective Completion (May 2011) - Student Name: Mr. Ikenna Eric Obodozie
25. Gas Lift Optimization in Chirag Field (May 2011) - Student Name: Mr. Fuad Ramazanov
24. Non Thesis Option (December 2010) – Student Name: Mr. Chisom Okogbue
23. (December 2010) – Student Name: Mr. Behzad Bagherian
22. Simulating the Effect of Low Salinity on Waterflooding Performance (December 2010) – Student Name: Mr. Oladotun Osisami
21. Production Optimization of a Geopressed Reservoir – An Eclipse Compositional Study (December 2010) – Student Name: Mr. Keagan Gopaul
20. Diffusion of CO<sub>2</sub> in Brine As a Result of Sequestration (December 2010) – Student Name: Mr. Shahin Zarghami
19. New Fractional Flow Empirical Model for CO<sub>2</sub> EOR (December 2010) – Student Name: Mr. Amir Pishahang
18. Numerical Study of Condensate Banking in a Lean Gas Condensate Reservoir (May 2010) - Student Name: Ms. Anne Druide
17. Performance Evaluation of "G" Sand of Fault Block1: Amberjack MC109 G-Sand Case Study (My 2010) – Student Name: Mr. Orkhan Mukhtarli

16. Use of CO<sub>2</sub> as an Additive to Improve Oil Recovery Efficiency during Waterflooding (May 2010) - Student Name: Mr. Sylvain Djeukam
15. Optimizing Production from Tight Formations Bearing Heavy Oil (December 2009) - Student Name: Mr. Oyeyinka Solaru
14. Quantification of Permeability Coupling and Flow Conditions (December 2009) - Student Name: Mr. Rasta Rastegar
13. Huff n' Puff to Re-vaporize Liquid Dropout in Condensate Gas Reservoir (December 2009) - Student Name: Mr. George Tamunosaki
12. Development of Low Resistivity Pay Zone – A Simulation Study (December 2009) - Student Name: Mr. Mohammed Faheem Khan
11. CO<sub>2</sub> as an EOR Agent for Candidate South Louisiana Oilfields (December 2009) - Student Name: Mr. Wasiu Oladimeji
10. Experimental and Numerical Simulation Study of Surfactant De-emulsifier Added Steam Flooding in Heavy Oil Reservoirs (December 2009) - Student Name: Mr. Tiamiyu Olanrewaju
9. Experimental and Simulation Studies of Foam Flooding as an Enhanced Oil Recovery Process (December 2009) - Student Name: Ms. Seun Savage
8. Identification of Partially Sealing Faults from Pressure Transient Data (December 2009) - Student Name: Mr. Irewole Olukoya
7. Mathematical Model for Estimating Perforation Penetration Depth (May 2009) - Student Name: Mr. Fidelis Iluore
6. Improving Sweep Efficiency in Low Permeability Reservoirs with Over-lying High Permeability Thief Zones – A Simulation Study (May 2009) - Student Name: Mr. Noble Obi
5. Numerical Simulation Study of Nitrogen Injection (May 2009) - Student Name: Mr. Gerald Malizu
4. Modelling the Development of a Low Permeability Reservoir (December 2008) - Student Name: Mr. Varunendra Pratap
3. A Numerical Simulation Study of Flue Gas Injection (December 2008) - Student Name: Mr. Oluwaseun Oyinloye
2. Application of Finite Element Simulator: Amberjack Field's Green Horizon Case Study (May 2008) - Student Name: Mr. Joshua Durham
1. Simulation of Thermally Assisted Gas Oil Gravity Drainage (June 2006) – [Research in Conjunction with École Polytechnique De Tunisie] - Student Name: Ms. Amira Al-Barhoumi

## MEMBERSHIP IN MS THESES AND PHD DISSERTATION COMMITTEES

### PhD Theses Co-supervised (5)

#### In Progress

6. Jia Li
5. Peter Schexnayder

#### Completed

4. Shuxian Jiang (Fall 2018)
3. Zheng Zhang (Fall 2017)
2. Liyuan Cao (Fall 2017)

## 1. Ben Li (Fall 2015)

**MS Theses Co-supervised (57)**Completed

- 57. Hildah Nantongo\* (Fall 2020)
- 56. Mohamed Al-Jifri\* (Spring 2020)
- 55. Abhijet Chodankar (Spring 2019)
- 54. Kwabena Okyere-Nyako (Fall 2018)
- 53. Brandon Salazar (Fall 2018)
- 52. Bharatsai Alla (Fall 2017)
- 51. George Parapuram (Fall 2017)
- 50. Andreina Guedez (Summer 2017)
- 49. Louis Coutte (Spring 2017)
- 48. Ming Wang (Spring 2017)
- 47. Sanjeev Tulasigeri (Fall 2016)
- 46. Wadie Chalgham (Fall 2016)
- 45. Ogbugo Ananaba (Summer 2016)
- 44. Langfeng Mu (Spring 2016)
- 43. Sanchuan Li (Spring 2016)
- 42. Shuxian Jiang (Spring 2016)
- 41. Phillip Dunning (Spring 2016)
- 40. Chong Ren (Fall 2015)
- 39. Adedapo Adeoye (Spring 2015)
- 38. Bryce Meaux (Spring 2015)
- 37. Flyinfoluwa Lasisi (Spring 2015)
- 36. Oziengbe Ehigiator (Spring 2015)
- 35. Sadiq Tolulope Odubayo (Spring 2015)
- 34. Jia Li (Spring 2015)
- 33. Kolade Cole (Spring 2015)
- 32. Xiaohui Zhang (Spring 2015)
- 31. Botong Wang (Fall 2014)
- 30. Jinze Song (Fall 2014)
- 29. David Ugwu (Fall 2014)
- 28. Ben Li (Spring 2014)
- 27. Yin Gong (Fall 2013)
- 26. Jia Shan (Fall 2013)
- 25. Shuai Wang (Spring 2013)
- 24. Dustin Allen (Fall 2012)
- 23. Siavash Saberi (Spring 2012)
- 22. Neda Ganji (Spring 2012)
- 21. Linus Obuah (Fall 2011)
- 20. Shamsideen Akinrinlo (Fall 2011)
- 19. Mohammadhadi Namazirad (Fall 2011)
- 18. Minghui Gang (Spring 2011)
- 17. Ershad Ganju (Spring 2011)
- 16. Chengjie Yang (Spring 2011)
- 15. Mohammad Khoshghadam (Fall 2010)
- 14. Qingkui Wang (Fall 2010)
- 13. Xidu Qui (Fall 2010)

12. Wenjing Li (Spring 2010)
11. Yuan Yao (Fall 2009)
10. Nan Zhang (Fall 2009)
9. Tianyi Zhang (Fall 2009)
8. Xiance Yu (Fall 2009)
7. Yuan Jiang (Fall 2009)
6. Ling Jing (Fall 2009)
5. Chunlei Liu (Summer 2009)
4. Xianjun Yao (Fall 2008)
3. Yue Wang (Fall 2008)
2. Hao Ge (Fall 2008)
1. Yin Feng (Fall 2007)

\*United Arab Emirates University

## **SUPERVISED UNDERGRADUATE STUDENT PROJECTS: (40)**

### **While @ Petroleum Institute**

40. Arzanah Field Development Study (May 2007) - Student Names: Mr. Faisal Obaid Ali Kaabi, Mr. Humaid Jumaa Murshed Romaithi, Mr. Saeed Mohamed Saeed Yammahi, Mr. Abdel Rahman Abdalla Saif Shwaihi

39. Field Development Study – RBR Gas Field (December 2006) - Student Names: Mr. Jumaa Kaabi, Mr. Hilal Dhanhani, and Mr. Aref Marzooqi

### **While @ SQU**

38. Relating Petrophysical Properties to Relative Permeability in Omani Sandstone (June 2005) - Student Names: Mr. Saif Zidi and Mr. Nasser Wishahi

37. Pressure Transient of Faulted Naturally Fractured Reservoir; Modeling and Analysis (June 2005) - Student Names: Mr. Mohammed Amri and Mr. Nasser Riyami

36. Screening and Optimization of Chemicals to Alter Reservoir Wettability (June 2005) - [Research in Conjunction with Petroleum Development Oman] Student Names: Mr. Haitham Hassani and Mr. Hamed Kharousi

35. Eliminating Water Coning in a Heterogeneous Reservoir by Means of Producing the Water Leg (June 2005) - [Research in Conjunction with Petroleum Development Oman] Student Names: Mr. Jamal Rubiei and Mr. Salem Hashmi

34. Partial Communication between Layers as Detected by Pressure Transient Analysis (June 2004) - Student Names: Mr. Sultan Shoaibi and Mr. Ahmed Duwaiki

33. Stabilizing Oil Production by Means of Producing the Water Zone (June 2004) - [Research in Conjunction with Petroleum Development Oman] Student Names: Mr. Jasem Mohammed and Mr. Abdullah Dhuhouri

32. Estimation of Bypassed Oil Following Horizontal Completion (June 2004) - Student Names: Mr. Youssuf Zaabi and Mr. Mohammed Manhali

31. Relating Sealing Faults to Fractures Using Welltest Analysis (June 2004) - Student Names: Mr. Ali Lawati and Mr. Meshaal Areimi

30. Relating Two-phase (oil-water) Relative Permeability to Resistivity (June 2004) – Student Names: Mr. Yaqdhan Mandheri and Mr. Mohammed Shukeili

29. Identification of Partial Sealing Faults Using Pressure Transient Test Analysis (June 2003) - Student Names: Mr. Sultan Maamari and Mr. Ibrahim Waili

28. Reducing Uncertainty in the Estimation of Relative Permeability for Two-phase Fluid Flow [Research in Conjunction with Petroleum Development Oman] (June 2003) - Student Names: Mr. Salem Rahbi and Mr. Marwan Zadjali

27. Enhancing Condensate Flow in Gas Wells [Research in Conjunction with Petroleum Dev. of Oman] (June 2002) - Student Name: Mr. Zeid Mahroqi
26. Curing Injectivity Problems (June 2002) - Student Name: Mr. Ahmed Musallami
25. Sweep Efficiency Optimization in Heterogeneous Reservoirs Using Fractals (June 2001) - Student Name: Mr. Ibraheem Saleh
24. Nitrogen Injection in Tight Sandstones [Research in Conjunction with Petrogas LLC] (June 2001) - Student Name: Mr. Ahmed Hatali
23. A Statistical Model to Relate Permeability to Resistivity Using Omani Formations (June 2001) - Student Name: Mr. Hamdan Jadidi
22. Optimizing Gas Lift in Safah Field [Research in Conjunction with Occidental of Oman] (June 2000) - Student Name: Mr. Said Harasi
21. Effect of Slippage Velocity of Cuttings on Hole Cleaning Efficiency [Research in Conjunction with Petroleum Dev. of Oman] (May 2000) - Student Name: Mr. Mohammed Salti
20. Surfactant Flooding for Heavy Oils in Berea Sandstone [Research in Conjunction with Petroleum Dev. of Oman] (May 2000) - Student Name: Mr. Ishaq Haddabi
19. Developing an Empirical Equation Relating Resistivity and Capillary Pressure for Omani Sandstone (May 2000) - Student Name: Mr. Hilal Maamari
18. Investigating Water Shut-off Techniques in Marmul Oil Field [Funded Research in Conjunction with Schlumberger Overseas, Oman] (May 2000) - Student Name: Mr. Salem Hanshi
17. PVT Studies on Omani Black Oils [Research in Conjunction with Petroleum Dev. of Oman and Japanese Exploration of Oman] (May 1999) - Student Name: Mr. AbdulAziz Hashmi
16. Determination of Permeability Distribution-Type Using a Mini-Permeameter and Up-Scaling of Permeability to Grid Block-Size (May 1999) - Student Name: Mr. Said Hinai
15. Selective Completion of Horizontal Wells in Heterogeneous Fractured Reservoirs [Research in Conjunction with Petroleum Dev. of Oman] (May 1999) - Student Name: Mr. Anwar Salti
14. Improving Separator Efficiency [Research in Conjunction with Dowell - Schlumberger] (May 1999) – Student Name: Mr. Matar Habsi
13. Relating Petrophysical Properties to Reservoir Properties in Omani Limestone [Research in Conjunction with Petroleum Dev. of Oman] (May 1999) - Student Name: Mr. Khalid Jahwari
12. Exploring Ways to Suppress Excessive Water Production in Fahud Field, Oman [Research in Conjunction with Petroleum Dev. of Oman] (September 1999) - Student Name: Mr. Fahad Maamari
11. Horizontal Well Spacing in Tannum Field, Oman [Research in Conjunction with Petroleum Dev. of Oman] (May 1999) - Student Name: Mr. Ahmed Hosni
10. Optimization of Separator Sizing for Better Reservoir Management (May 1998) - Student Name: Mr. Nasser Waheibi
9. PVT Correlations for Omani Oils [Research in Conjunction with Petroleum Dev. of Oman and Japanese Exploration of Oman] (May 1998) - Student Name: Mr. Saif Qassabi
8. Investigating fracture Isolation in a Waterflooded Omani Field [Research in Conjunction with Petroleum Dev. of Oman] (May 1998) - Student Name: Mr. Talal Waheibi
7. Relating Petrophysical Properties to Reservoir Properties in Omani Limestone [Research in Conjunction with Petroleum Dev. of Oman] (May 1997) - Student Name: Mr. Khalid Marzouqi
6. Relating Petrophysical Properties to Reservoir Properties in Omani Sandstone [Research in Conjunction with Petroleum Dev. of Oman] (May 1997) - Mr. Mohammed Belushi
5. Quantifying Heterogeneity in Omani Reservoirs, A Simulation Sensitivity Study [Research in Conjunction with Occidental of Oman, Ltd.] (May 1996) - Student Name: Yasser Ajmi
4. Threshold Pressure as a Measure of a Degree of Rock Wettability and Diameter of Largest Pore in Oman Limestone (May 1995) - Student Name: Mr. Marash Kalbani



3. Effects of Capillary Pressure Magnitude on Transition Zone Oil Using Eclipse Black-oil Simulator (May 1994) - Student Name: Mr. Salem Hashmi
2. Use of Explicit Pressure Specified Producing Wells and Nodal Analysis Approach in Black-oil Simulation (May 1994) - Student Name: Ms. Nusrat Belushi
1. Use of Boast Black-oil Simulator to Match the Buckley-Leverett One-Dimensional Analytical Model (July 1993) - Student Name: Mr. Khalifa Abri

## DEPARTMENT ACTIVITIES:

### While at UL

11. Department Head (January 2012 to July 2019)
10. Interim Department Head (March 2010 to December 2011)
9. SPE and AADE Student Chapter Advisor (March 2010 to December 2012)
8. PETE Appeals Committee Chairman (May '09 to July 2019)
7. Graduate Admission Committee (August '07 to July 2019)
6. Department Board Member (August '07 to July 2019)
5. Recruitment Committee (August '07 to July 2019)
4. PhD Committee (August '07 to July 2019)
3. Scholarship Committee (August '07 to July 2017)
2. Undergraduate & Graduate Student Advisor (August '07 to July 2019)
1. Dept. Rep. at Freshmen Orientations (August '07 to July 2019)

### While @ Petroleum Institute

4. Program Graduate Studies & Research (Sep '06 to August '07)
3. Program Teaching & Research Lab Development & Procurement (Sep '06 to August '07)
2. Program Accreditation (Sep '06 to August '07)
1. Acting Head (Feb. 22 to March 8, '07; July 20 to August 11, '07)

### While @ SQU

12. Laboratory Coordinator (Spring '93 to '00):
  - ✓ Wrote most of laboratory manuals
  - ✓ Wrote computer package manuals
11. Department Board Secretary (Fall '94 to '00)
10. Petroleum & Mining Project Coordinator (Fall '94 to '00)
9. Petroleum Case Study Coordinator (Fall '94 to date)
8. Summer Training Course for SQU PE Students (June 8<sup>th</sup> - June 19<sup>th</sup>, '96)
7. Member of the Recruitment Committee (Fall '98 to June '06)
6. Participated in PETROLNEWS (a publication of the Student Chapter of SPE @ SQU) with the following article: Effective Separator Design, Issue 1, Fall '98, p. 3
5. Academic Staff Nominee for Students/Staff Committee (Jan. '99 to June '06)
4. Acting Head for the period of 24/06/99 to 02/07/99
3. Dept. Head for the period of 01/09/01 to 31/08/05
2. Dept. Appointment Committee (Fall '01 to June '06)
1. Active member of the Department ABET Accreditation Committee (Fall '01 to June '06)

**COLLEGE OF ENGINEERING ACTIVITIES:****While @ UL**

5. Honors Advisor for PETE (September 2010 to date)
4. Saudi Students Club Advisor (September 2011 to date)
3. CAVE Fellow (September 2010 to date)
2. College of Engineering Advisory Board (May '08 to date)
1. Graduate Faculty (September '07 to date)

**While @ Petroleum Institute**

4. Students Grievance Committee (Jan '07-Aug '07)
3. Interim Search Committee for Associate CAO for PGS&R (Jan-Aug '07)
2. Admission Policy Committee (Jan '07-Aug '07)

**COLLEGE OF ENGINEERING ACTIVITIES:****While @ Petroleum Institute**

1. High School Visits' Committee (Jan '07-Aug '07)

**While @ SQU**

15. Department College Board Representative ('93-'94/'98-June '06)
14. Physics Courses College Re-organization Committee ('95-June '06)
13. College Research Committee ('98-'01)
12. College Graduate Studies Committee ('98-'01)
11. Took Part in CE-Muscat Municipality Poster Presentation (Dec. '98)
10. Took Part in Organizing College Open Days (24/10 & 25/10/'99)
9. Math & Statistics Courses College Re-organization Committee ('99-June '06)
8. Internal Reviewer of College Research Proposals ('00-June '06)
7. College Sports Committee ('00 to '01)
6. College Board Member ('01-June '06)
5. College Executive Committee Member ('01-June '06)
4. College Accommodation Committee ('01-June '06)
3. Journal of Engineering Research (TJER) Associate Editor ('03-June '06)
2. SQU – Ministry of Commerce & Indus. Liaison Com. Member ('03-June '06)
1. SQU – PDO Study Center Liaison Committee Member ('03-June '06)

**SERVICE ACTIVITIES:****While @ UL**

8. API Board Member
7. SPE Evangeline Board Member
6. API Technical Committee
5. Session chairperson, 2010 SPE International Symposium and Exhibition on Formation Damage Control, 10-12 February 2010, Lafayette, Louisiana, USA
4. Judge, Louisiana Region VI Science Fair, March 1, 2008.
3. Session chairperson, 2008 SPE International Symposium and Exhibition on Formation Damage Control, 13-15 February 2008, Lafayette, Louisiana, USA
2. SPE Evangeline Chapter Section Member
1. API Teche Chapter Section Member

**While @ Petroleum Institute**

2. Member of Scientific Committee for Third International Conference on Advances in Mech. Engineering & Mechanics, Tunis, Tunisia, Dec. 17-19, '06
1. Session Chair, the 2<sup>nd</sup> International Conference on Modeling, Simulation, and Applied Optimization, Abu Dhabi, UAE, March 24-27, 2007

**While @ SQU**

3. SPE, Oman Section, Board of Directors (Sept. '94-May '97)
2. SQU Applied Research & Eng. (SQUARE) Member & Sec. (Jan '98-May '98)
1. Co-developed Strategic Plan for the Oil & Gas Research Center Creation of an "EOR Center of Excellence" (June '03)

**RESEARCH:****Externally Funded Research Projects****While @ UL**

- Dec. '15, "Foam-assisted CO<sub>2</sub> Flooding for the Depleted Reservoirs of Upper Assam Basin and Candidate Reservoirs in Louisiana," United States-India Educational Foundation,  
**\$90,270 (PI)**  
 Research with Dr. Subrata Borgohain (Dibrugarh University, India)  
 Experimental/Theoretical
- May '11, "Gulf Coast Initiative", US Department of Energy,  
**\$954,986 (PI)**  
 Research with Dr. B. Guo & Dr. Stalnaker

**While @ SQU**

- June '06, "Chemical Profile Control", Petroleum Development Oman, **\$1,100,000 (Co-PI)**  
 Research with Dr. A. Bemani & Dr. B. Yaghi  
 Experimental
- June '06, "Nimr EOR Identification: Phase II – Investigation of In Situ Combustion in Nimr Type of Oil Reservoirs", Petroleum Development Oman, **\$293,000 (Co-PI)**  
 Research with Dr. M. Wadhahi & Dr. A. Bemani  
 Experimental/Theoretical
- June '06, "Steam Injection in Qarn Alam", Petroleum Development Oman, **\$630,000 (co-PI)**  
 Research with Dr. A. Bemani, Dr. M. Wadhahi & Dr. R. Maamari  
 Experimental/Theoretical
- June '06, "Formation Damage Prevention and Mitigation (Phase II)", Petroleum Development Oman, **\$700,000 (PI)**  
 Research with Dr. H. Hadrami  
 Experimental
- May '05, "Nimr EOR Identification: Phase I", Petroleum Development Oman, **\$44,095 (Co-PI)**  
 Research with Dr. M. Wadhahi & Dr. A. Bemani  
 Experimental/Theoretical
- September '04, "Formation Damage Prevention and Mitigation", Petroleum Development Oman, **\$500,000 (PI)**  
 Research with Dr. A. Bemani  
 Experimental
- July '04, "A Loss Circulation Material as a Mud Loss Control Agent – Part II", Pet. Dev. Oman, **\$211,351 (PI)**  
 Research with Dr. Yaghi, Dr. Bemani & Dr. Hadrami  
 Experimental
- May '04, "Mobilizing Condensate in Gas Reservoirs – A Numerical Simulation Study", Petroleum Development Oman, **\$150,950 (PI)**  
 Research with Drs. Wadhahi, A. Bemani, R. Maamari & H. Hadrami  
 Theoretical

- June '03, "Investigating Ways to Reduce Uncertainty in Generating Relative Permeability Profiles", Petroleum Development Oman, **\$123,384 (PI)**  
Research with Drs. A. Bemani & Babadagli  
Theoretical
- July '02, "Investigations on Matrix Recovery during Steam Injection into Qarn Alam Field", Petroleum Development Oman, **\$117,691 (Co-PI)**  
Research with Drs. Babadagli & Bemani  
Theoretical, Experimental
- June '02, "A Lost Circulation Material as a Mud Loss Control Agent – Part I", Pet. Dev. Oman, **\$97,824 (PI)**  
Research with Drs. Bemani, Babadagli, & Yaghi  
Experimental
- September '01, "Investigations on the EOR Possibilities for Yibal Field", Pet. Dev. Oman, **\$54,400 (Co-PI)**  
Research with Drs. Bemani & Babadagli  
Experimental/Numerical Simulation (Eclipse 100 black-oil simulator)  
UNIX supported Sparc10/20 Sun platform
- December '00, "Evaluation of Air Injection Recovery Performance for Sahmah Field", PetroGas Oman, **\$25,259 (Co-PI)**  
Research with Drs. Bemani & Babadagli  
Experimental/Numerical Simulation (Eclipse 100 black-oil simulator)
- October '00, "Sahmah Reservoir Simulation Study", PetroGas Oman, **\$23,500 (PI)**  
Research with Drs. Bemani & Babadagli  
Numerical Simulation (Eclipse 100 black-oil simulator)  
UNIX supported Sparc10/20 Sun platform
- June '00, "Investigating Water Shut-off Techniques in Marmul Oil Field, Oman", Schlumberger Overseas, Oman, **\$2,500 (PI)**  
Experimental, Numerical
- May '98, "Study of Fracture Effect on Lekhwair Field Performance", Pet. Dev. Oman, **\$17,000 (PI)**  
Research with Dr. Bemani  
Numerical Simulation (Eclipse 100 black-oil simulator)  
UNIX supported Sparc10/20 Sun platform
- November '97, "Reservoir Simulation Sensitivity Study over Horizontal Well Applications in Lekhwair Field", Pet. Dev. of Oman, **\$13,600 (Co-PI)**  
Research with H.E. Dr. Rumhy & Bemani  
Numerical Simulation (Eclipse 100 black-oil simulator)  
UNIX supported Sparc10/20 Sun platform

### **Funded Services to the Industry** **While @ SQU**

- June '03, "Aydan Reservoir Simulation Study", Petrogas Oman, **\$27,400 (PI)**  
Numerical with Dr. A. Al-Bemani & Dr. M. Al-Wadhahi
- Jan. '01, "Technical Review of Omani Oil Fields", Ministry of Oil and Gas, **\$55,958 (PI)**  
Theoretical with Drs. Bemani & Babadagli
- Nov. '00, "Technical Review of Dunga Oil Field", Oman Oil Company, **\$10,363 (PI)**  
Theoretical with Drs. Bemani, Babadagli & Maamari

October '00, "Peer Review of two PDO Gas Condensate Fields", PDO, **\$10,376 (PI)**

Theoretical with Dr. Bemani

January '00, "Absolute Permeability of Different Proppant Types @ Different Mesh Mix Proportions", Pet. Dev. of Oman, **\$8,700 (PI)**

Completion Date: January, 2000

Experimental (Dr. Bemani & Mr. Afzal)

### **Internally Funded Research Projects**

#### **While @ UL**

May '08, "Numerical Simulation Gas Injection Studies", ULL Summer Research, **\$5,500 (PI)**

#### **While @ SQU**

May '99, "Recovering More Oil from Omani Oil Fields", SQU Internal Research Fund, **\$42,100 (Co-PI)**

Group Research with Drs. Bemani & Babadagli

Experimental

### **Proposed Funded Research Projects**

#### **While @ UL**

March '17, "Effects of Vibration and Nano-particles on Cement Sealing Capacity for Preventing Oil Spill in the Offshore Environment," Gulf Research Program/Oil Spill Prevention, **\$1,140,592 (Co-PI)**

Group Research with Boyun Guo

Experimental/Theoretical

Sep. '14, "Proposal for Lab Facility Improvement," Louisiana BOR Traditional and Undergraduate Enhancement Fund., **\$316,167 (PI)**

Feb. '13, "An Integrated Approach for Optimization of Stimulation Design by Investigating Geo-mechanical/Petro-physical Characteristics of Shale Plays," Abu Dhabi National Oil Co., **\$482,000 (Co-PI)**

Group Research with Saeed Salehi

Experimental/Theoretical

May '12, "University Research Partner for Unconventional Resources," Chevron Corp./Marathon Oil Co., **\$890,740 (Co-PI)**

Group Research with Boyun Guo

Experimental/Theoretical

May '12, "Development of an Industry-tied, Team-oriented Course to Enhance Laboratory-based, Hands-on Learning in Multi-disciplined Computational Analysis," NSF, **\$200,000 (Co-PI)**

Group Research with Yucheng Liu

Theoretical

May '11, "Source Characterization, Physical Distribution, Dispersion and Dilution of Oil Spill in the Oceanographic Conditions," BP, **\$597,432 (Co-PI)**

Group Research with LSU

Experimental/Theoretical

Jan. '10, "Design of a Power Plant: An Integrated System Approach", CLECO, Louisiana, **\$304,566 (PI)**

Group Research with UL MCHE & CIVE

Experimental/Theoretical

Oct. '09, "An Adaptive Low Cost in Situ Processing of Hydrocarbon-Bearing Formations with Reconfigurable Frequency Heating", Louisiana Board of Regents, **\$288,846 (PI)**

- Group Research with Prof. Ali Ghalambor  
Experimental/Theoretical
- Oct. '09, "Mitigation and Prevention of Asphaltene Deposition in Louisiana Oil Wells",  
Louisiana Board of Regents, **\$282,844 (PI)**  
Group Research with Prof. Ali Ghalambor  
Experimental/Theoretical
- Nov. '08, "Improved Reservoir Modeling and Simulation for Enhanced Oil Recovery Gas  
Injection Processes", Abu Dhabi National Oil Company, United Arab Emirates,  
**\$799,422 (Co-PI)**  
Group Research with Stanford University and University of Maryland  
Experimental/Theoretical
- Nov. '08, "Injection of Chemically-assisted N<sub>2</sub> Mist in Tight Carbonate Matrix – A Case Study",  
Wise Well Interventions, Lafayette, Louisiana, **\$126,528 (PI)**  
Group Research with Prof. Ali Ghalambor  
Experimental/Theoretical
- Oct. '08, "A Feasibility Study of CO<sub>2</sub> Sequestration for Enhanced Oil Recovery Purposes in  
Louisiana", BORSF, Louisiana, **\$398,950 (PI)**  
Group Research with Prof. Ali Ghalambor  
Experimental/Theoretical
- Sept. '08, "Estimating Perforation Penetration Length ", Halliburton, Louisiana, **\$50,000 (PI)**  
Group Research with Prof. Ali Ghalambor  
Theoretical

## Voluntary Research Projects

### While @ SQU

- June '00, "Optimizing Gas Lift in Safah Field" [Research in Conjunction with Occidental of Oman]  
 May '00, "Effect of Slippage Velocity of Cuttings on Hole Cleaning Efficiency" [Research in Conjunction with Petroleum Dev. of Oman]  
 September '99, "Exploring Ways to Suppress Excessive Water Production in Fahud Field, Oman" [Research in Conjunction with Petroleum Dev. of Oman]  
 May '99, "Horizontal Well Spacing in Tannum Field, Oman" [Research in Conjunction with Petroleum Dev. of Oman]  
 May '99, "Improving Separator Efficiency" [Research in Conjunction with Dowell - Schlumberger]  
 May '98, "PVT Correlations for Omani Oils" [Research in Conjunction with Petroleum Dev. of Oman and Japanese Exploration of Oman]  
 May '96, "Quantifying Heterogeneity in Omani Reservoirs, A Simulation Sensitivity Study" [Research in Conjunction with Occidental of Oman, Ltd.]

## Non-funded Research Projects

### While @ SQU

5. Capillary Pressure, Relative Permeability and Resistivity Correlations Involving Sandstone and Limestone Cores  
 Research with Dr. Bemani  
 Experimental (Relative Perm. Rig, Capillary Porous-plate, Resistivity Cell)
4. Injectivity Problems in Omani Oil Fields  
 Research with Dr. Bemani, Dr. Kalam & H.E. Dr. Rumhy  
 Experimental (Core Flooding and Relative Permeability Rigs)
3. Optimization Study Involving Horizontal Wells Performance  
 Research with Dr. Bemani  
 Numerical Simulation (Eclipse 100 black-oil simulator)  
 UNIX supported Sparc10/20 Sun platform
2. Hydrocarbon Gravity Segregation Study  
 Research with H.E. Dr. Rumhy & Dr. Bemani  
 Numerical Simulation/Experimental (Hydrocarbon Column, Eclipse 100)  
 UNIX supported Sparc10/20 Sun platform
1. Developing PVT Correlations for Omani Oils  
 Research with Dr. Bemani  
 Theoretical (Commercial Statistical Packages, SAS, Minitab, Microstat)

## PUBLICATIONS:

### Journal Papers (46)

#### While @ UL

##### Under Preparation

48. H. Trabelsi, N. Liu, N. Hutchings, and F. Boukadi "Development of a Hole Cleaning Coefficient Model Using Data Analysis, Analytics, and Machine Learning", paper to be submitted to Journal of Petroleum Exploration and Production Technology, Jan. 2021 (IF=1.10).  
 47. L. Luong, F. Boukadi, H. Trabelsi, and H. Nantongo "Effect of Fracture Geometry in Simulation on Production Estimation in Shale," paper to be submitted for publication to Petroleum Science and Technology, Sep. 2020 (IF=0.976).

##### Under Review

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10. F.H. Boukadi, A.S. Al-Bemani & T. Babadagli: "Technical Review of a Few Omani Oil Fields", Ministry of Oil and Gas Oman Approved Report # SQU/PE/001220, December 2000.
9. F.H. Boukadi, A.S. Al-Bemani & T. Babadagli: "Evaluation of Air Injection Recovery Performance for Sahmah Field", Petrogas Oman Approved Report # SQU/PE/001207, December 2000.
8. F.H. Boukadi, A.S. Al-Bemani & T. Babadagli: "Technical Review of DUNGA Oil Field", Oman Oil Company (OOC) Approved Report, November 2000.
7. F.H. Boukadi, A.S. Al-Bemani & T. Babadagli: "Sahmah Reservoir Simulation Study", Petrogas Oman Approved Report # SQU/PE/001004, December 2000.
6. F.H. Boukadi, A.S. Al-Bemani & N. Afzal: "Absolute Permeability Measurements of Different Proppant Types @ Different Mesh-Mix Proportions", Petroleum Development of Oman Approved Report # SQU/PE/20000123, January 2000.
5. F.H. Boukadi & A. S. Al-Bemani: "Study of Fracture Effect on Lekhwair-B Field Performance", Petroleum Development of Oman Approved Technical Report # SQU/PE/980506, May 1998.
4. F.H. Boukadi & A.S. Al-Bemani: "Reservoir Simulation Sensitivity Study over Horizontal Well Applications in Lekhwair Field - Oman", Petroleum Development of Oman Approved Technical Report # SQU/PE/971112, November 1997.

**While @ Marathon Oil Company**

3. D.S. Paterson: "Didon-2 Core Analysis and Inference on Aquifer Characteristics" referral to (Brickey, R. T., D. S. Paterson, F. H. Boukadi, and J. A. Brahm), Marathon Oil Company, Interim Report on Didon Field, September, 1992, page 14.
2. F.H. Boukadi & R.T. Brickey: "Didon Reservoir Study", Marathon Oil Company, TSR No. 2313400, Houston, Texas, USA, February 1992.

**While @ PennState University**

1. F.H. Boukadi, T. Ertekin & R.W. Watson: "An Experimental and Theoretical Study to Relate Uncommon Rock/Fluid Properties to Oil Recovery", Enhanced Oil Recovery, No. 61, DOE/BC-90/1, September 1990, pp. 66-71. [UC-122]

**CONSULTANCY:****While @ UL**

September 2008

Did thorough Gas Injection Studies with Foam and Heat Stimulation in Tight Reservoirs for Wise Well Interventions, Lafayette, Louisiana

**While @ SQU**

October 2005

Did thorough Technical Review of the Abu-Butabul Oil Field for Target Oilfield Services, Oman

April 2001

Did thorough Hydrocarbon Groundwater Contamination Study for SHIMIZU CORP., Japan

January 2001

Did thorough Peer Review of Two PDO Gas Condensate Fields for Petroleum Development Oman (PDO)

Sept. 2000 – Dec. 2000

Did thorough Technical Review of Reserves for Oman Oil Company (OOC): Dunga Oil Field (Republic of Kazakhstan)

Feb. 99 – Sept. 2000

Did thorough Technical Review of Reserves of the following fields for Oman Ministry of Oil and Gas (MOG):

7. Marmul Oil Field
6. Al-Huwaisah Oil Field
5. Fahud/Natih-E Oil Field
4. Yibal Oil Field
3. Qarn Alam Oil Field
2. Marmul/Haima-West Oil Field
1. Fahud/Natih-A to F Field

**SHORT COURSES:****While @ UL**

14. Linking Geosciences to Reservoir Simulation [January 2014]

\*Course offered at Faculté Des Sciences de Sfax, Sfax, Tunisia

13. Linking Geosciences to Reservoir Simulation [January 2012]

\*Course offered at Faculté Des Sciences de Tunis, Tunis, Tunisia

12. Gas Lift Design [December 2010]

\*Course Offered at SEREPT, Sfax, Tunisia

11. Gas Lift Design [July 2010]

\*Course Offered at SEREPT, Sfax, Tunisia

10. Capstone Design [June 2010]

\*Course Offered at ESPRIT, Tunis, Tunisia

9. Well testing [June 2010]

\*Course Offered at ResModTec, Abu Dhabi, UAE

8. Well Testing [April 2010]

\*Course Offered at KOC, Kuwait City, Kuwait

7. Reservoir Engineering I\* [June 7 to July 17, 2009]

\*Course offered at Petroleum Institute, Abu Dhabi, UAE

6. Reservoir Simulation\* [June 7 to July 17, 2009]

\*Course offered at Petroleum Institute, Abu Dhabi, UAE



**SHORT COURSES:****While @ SQU**

5. Petroleum Industry\* (Dec. 12 to 16, 2005)  
\*Course offered to École Polytechnique de Tunisie students (Tunisia)
4. Basics of Petroleum Engineering for non-Petroleum Engineers\*  
Drilling Technology (May 12 to 16, 2001)  
Production Engineering (May 19 to 23, 2001)  
\*Course offered to Petroleum Development Oman (PDO) (Non-Petroleum) Engineers
3. Basics of Petroleum Engineering for non-Petroleum Engineers\*  
Drilling Technology (January 6 to 10, 2001)  
Production Engineering (January 13 to 17, 2001)  
\*Course offered to Petroleum Development Oman (PDO) (Non-Petroleum) Engineers
2. Basics of Petroleum Engineering for non-Petroleum Engineers\*  
Drilling Technology (May 13 to 17, 2000)  
Production Engineering (May 20 to 24, 2000)  
\*Course offered to Petroleum Development Oman (PDO) and PetroGas Oman (Non-Petroleum) Engineers
1. Basics of Petroleum Engineering for non-Petroleum Engineers\*  
Drilling Technology (January 15 to 19, 2000)  
Production Engineering (January 22 to 26, 2000)  
\*Course offered to Petroleum Development Oman (PDO), Occidental Oman (Oxy) and Schlumberger-Geoquest Oman (Non-Petroleum) Engineers

**DONATIONS:****While @ UL**

- |  |                      |
|--|----------------------|
| 8. Dec. '15, "Lab Facility Improvement," AADE-Lafayette Chapter                                    | <b>\$37,637.99</b>   |
| 7. Dec. '14, "Lab Facility Improvement," SPE-Lafayette Chapter                                     | <b>\$99,291.30</b>   |
| 6. Nov. '14, "Lab Facility Improvement," AADE-Lafayette Chapter                                    | <b>\$38,934.84</b>   |
| 5. Acquired 35-user Schlumberger-GeoQuest licenses (INTERSECT, PIPESIM, OLGA, OFM, MEPO, MANGROVE) | <b>\$210,000,000</b> |
| 4. Acquired 17-user Roxar licenses   | <b>\$22,000,000</b>  |
| 3. Acquired 25-user GOHFER fracture simulator licenses   | <b>\$300,000</b>     |
| 2. Acquired 35-user Schlumberger Petrel licenses   | <b>\$4,757,120</b>   |
| 1. Acquired 36-user Fekete licenses  | <b>\$1,400,000</b>   |

**While @ SQU**

- |  |                    |
|--|--------------------|
| 6. Acquired Schlumberger-GeoQuest licenses   | <b>\$570,000</b>   |
| 5. Built a "Formation Damage Lab." in collaboration with COREX, UK.  | <b>\$1,200,000</b> |
| 4. Negotiated with PETROTECH to install own laboratory on SQU premises in exchange of operating PVT equipment that has never been commissioned |                    |
| 3. Initiated contacts with Total to provide industrial short courses to staff at no cost   |                    |
| 2. Helped in organizing a CMG computer simulation short course to staff at no cost   |                    |
| 1. Obtained 25-user WinGLUE 4.20 licenses for PCE students' use at no cost   |                    |

**SKILLS & EXPERTISE:**

- Excellent knowledge of Unix based Geoquest Eclipse 100 black-oil simulator:
  1. Simulated Didon, Zarat & Elyssa Fields [Marathon Pet.- Tunisia]

**SKILLS & EXPERTISE :**

- 2. Simulated & history matched Basma Field [PDO - Oman]
- 3. Simulated & history matched Wadi-Laitham Field [Occidental - Oman]
- 4. Simulated & history matched Tannum Field [PDO - Oman]
- 5. Sim./Opt. Horizontal Well Production in Lekhwair-B Field [PDO- Oman]
- 6. Sim./Opt. Fracture Isolation in Lekhwair-B Horizontal Wells [PDO - Oman]
- 7. History Matched & Opt. Production for Sahmah Field [Petrogas - Oman]
- 8. Simulated/Optimized Production for Butabul Field [Petrogas - Oman]
- 9. History matched/Optimized LDO in Saih-Rawl GC Field [PDO - Oman]
- Excellent knowledge of Unix based Geoquest VFPI, PVTi, graf and grid packages:
  - 1. Used contour mapping & grid digitizing for above listed fields
  - 2. Designed production & vertical flow performance (VFP) models for above listed fields
  - 3. Predicted & fine-tuned Pressure-Volume-Temperature (PVT) for above listed fields
- Excellent knowledge of Unix-based Geoquest STARTLOG II package
- Took part of a Schlumberger-Geoquest Training Program
- Good handling of Artificial Neural Network (ANN) commercial packages
- Excellent handling of most statistical packages (MINITAB, SAS, and MICROSTAT)

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SCAL Specialist - PDD

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