

1. **Name:** Yahya Al-Wahaibi                      **Birth Date:** 26/08/1975,                      **Citizenship:** Omani  
**Tel:** 2414-2217                      **E-mail:** [ymn@squ.edu.om](mailto:ymn@squ.edu.om)

2. **Position:** Assistant Professor

3. **Degrees:**    PhD: Petroleum Engineering, Imperial College, London, Nov. 2005  
                    MSc: Petroleum Engineering, Heriot-Watt University, Scotland, Oct. 2000  
                    BSc: Petroleum Engineering, Sultan Qaboos University, Oman, June 1998

4. **Number of Years in this Faculty:** (one year)

5. **Related Experience**

2005-            Petroleum and Chemical Engineering Department, Sultan Qaboos  
                    University, Sultanate of Oman, Assistant Professor  
2000-2005    Petroleum and Chemical Engineering Department, Sultan Qaboos  
                    University, Sultanate of Oman, Lecturer  
1998-2000    Petroleum and Chemical Engineering Department, Sultan Qaboos  
                    University, Sultanate of Oman, Demonstrator

6. **Principal Publications**

**Conference Papers**

- **Al-Wahaibi, Y.,** Muggeridge, A. H., and Grattoni, C.A.: ‘Experimental and numerical studies of gas/oil multicontact miscible displacements in homogeneous porous media’, SPE 92887, Presented at the SPE Reservoir Simulation Symposium, Texas, 31 January - 2 February (2005).
- **Al-Wahaibi, Y.,** Muggeridge, A. H., and Grattoni, C.A.: ‘The effect of cross-bedding laminations on the efficiency of gas/oil multi-contact miscible displacements’, SPE 94135, Presented at the 14<sup>th</sup> Europec Biennial Conference, Madrid, 13-16 June (2005).
- **Al-Wahaibi, Y.,** Muggeridge, A. H., and Grattoni, C.A.: ‘Gas-oil disequilibrium in multi-contact miscible displacements within homogeneous and cross-bedded porous media’, Accepted for presentation at the IOR Symposium which will be

held in Tulsa, Oklahoma, 22-26 April (2006).

### **Journal Papers**

- Boukadi, F.H., Al-Bemani, A.S., & **Al-Wahaibi, Y.**, “Horizontal Well Length Optimization for A South Oman Field”, PST 18, pp. 121-140 (2000).
- **Al-Wahaibi, Y.**, Grattoni, C.A., and Muggeridge, A. H. (2006): ‘Drainage and imbibition relative permeabilities at near miscible conditions’, Journal of Petroleum Science and Engineering, 53, 239-253.
- **Al-Wahaibi, Y.**, Muggeridge, A. H., and Grattoni, C.A. (2006): ‘Experimental and numerical studies of gas/oil multicontact miscible displacements in homogeneous and cross-bedded porous media’, Accepted for publication in SPE Journal.
- **Al-Wahaibi, Y.**, Muggeridge, A. H., and Grattoni, C.A. (2006): ‘Gas-Oil Non-Equilibrium in Multicontact Miscible Displacements within Homogeneous Porous Media’, Accepted for publication in SPE Journal.
- **Al-Wahaibi, Y.**, Grattoni, C.A., and Muggeridge, A. H. (2006): ‘Physical Properties (Density, Viscosity, Surface Tension, Interfacial Tension and Contact Angle) of the System Isopropanol/Cyclohexene/Water’, Accepted for publication in Journal of Chemical and Engineering Data.

### **7. Research Contracts**

- Research Title: “Experimental and Numerical Investigations into the Effect of Heterogeneity on Oil Recovery from Immiscible, First- and Multi-Contact Miscible Gas Injection ([Phase-I](#))”

Principle Investigator: *Dr. Yahya Al-Wahaibi*

Budget: US \$ 49,999

Sponsor: PDO

Status: completed (30<sup>th</sup> of June 2006)

- Research Title: “Experimental and Numerical Investigations into the Effect of Heterogeneity on Oil Recovery from Immiscible, First- and Multi-Contact Miscible Gas Injection ([Phase-II](#))”

Principle Investigator: *Dr. Yahya Al-Wahaibi*

Budget: US \$ 218,564

Sponsor: PDO

Status: In Progress
- Research Title: “pH-Sensitive Polymers for Novel Improving Reservoir Sweep and Conformance Control Applications ([Phase-I](#))”

Principle Investigator: *Dr. Yahya Al-Wahaibi*

Co-investigator: Dr. Talal Al-Wahaibi

Budget: US \$ 334,620

Sponsor: PDO

Status: In Progress
- Research Title: “Commercially Available EOR and Stimulation Tools ([Phase-I](#))”

Principle Investigator: *Dr. Yahya Al-Wahaibi*

Co-investigators: Dr. Talal Al-Wahaibi, Dr. Hamoud Al-Hadrami

Budget: US \$ 189,010

Sponsor: PDO

Status: In Progress
- Research Title: “Microbial Enhanced Oil recovery ([Phase-I](#))”

Principle Investigator: Dr. Saif Al-Bahry

Co-investigators: *Dr. Yahya Al-Wahaibi*, Dr. Ali Al-Bemani

Budget: US \$ 130,000

Sponsor: PDO

Status: In Progress

## **8. Support Services**

- Research Title: “Fracking Job Design”

Principle Investigator: Dr. Hamoud Al-Hadrami

Co-investigator: *Dr. Yahya Al-Wahaibi*

Budget: US \$ 32,410 (per job)

Sponsor: PDO

Status: In Progress

- Research Title: “Technical Evaluation of Production Chemicals”

Principle Investigator: Dr. Talal Al-Wahaibi

Co-investigator: *Dr. Yahya Al-Wahaibi*

Budget: US \$ 60,000 (for the first year)

Sponsor: PDO

Status: In Progress

## **9. MSc Students’ Projects Supervision**

- Project Title: ‘Quantifying bypassed oil in the vicinity of discontinuous shales during gas/oil multi-contact miscible displacements’

Main Supervisor: *Dr. Yahya Al-Wahaibi*

Co-supervisor: Dr. Hamed Al-Shuraiqi (PDO)

Student Name: Sultan Al-Maamari

Status: In Progress

- Project Title: ‘Experimental and Numerical Studies of First Contact Miscible Water Alternating Gas Injection within Shaley Porous Media’

Main Supervisor: *Dr. Yahya Al-Wahaibi*

Co-supervisor: Dr. Hamed Al-Shuraiqi (PDO)

Student Name: Faisal Al-Maamari

Status: In Progress

- Project Title: ‘Effects of Cross-bedded Heterogeneities on First Contact Miscible Water Alternating Gas Injection’

Main Supervisor: *Dr. Yahya Al-Wahaibi*

Co-supervisor: Dr. Hamed Al-Shuraiqi (PDO)

Student Name: Marwan Al-Zadjali

Status: In Progress

**10. PhD Student's Project Supervision (in collaboration with Imperial College, London)**

- Project Title: 'Experimental and Numerical Investigations of Oil Recovery by VAPEX'

Main Supervisor: Dr. Ann Muggeridge (Imperial College, London)

Co-supervisor: *Dr. Yahya Al-Wahaibi*, Dr. Carlos Grattoni (Imperial College, London) and Professor Richard A Dawe (University of West Indies)

Student Name: Abdullah Al-Kindi

Status: In Progress

**11. Scientific and Professional Societies:**

The Society of Petroleum Engineers (SPE), The European Association of Geoscientists and Engineers (EAGE)

**12. Honors and Awards:**

- Dean List, Sultan Qaboos University, 1997.
- Sultan Qaboos University Master Degree Scholarship, 1999-200.
- Sultan Qaboos University PhD Degree Scholarship, 2003-2005.

**13. Current Courses:**

Field Processing of Natural Gas, Production Engineering

**14. Courses Taught in Undergraduate and Graduate Levels**

Drilling Engineering, Field Processing of Natural Gas, Reservoir Engineering, Introduction to Engineering, Production Engineering.

**Prepared: December 2006**