



## Sudad H Al-Obaidi

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### ABOUT ME

At various international institutions in Russia, Sweden, Iraq and Kurdistan, I hold faculty positions and guest professorships. My undergraduate studies were in Petroleum and Mining Engineering at Baghdad University in 1984, followed by a Master's in Petroleum Engineering from the same university in 1990. I began my academic career in 1988 teaching and conducting research in Iraqi universities, then in Russian, Swedish, and Kurdistan-Iraqi universities. My employment experience includes teaching (traditional, distance, and e-learning) as well as research, supervision at the undergraduate and postgraduate level, and consulting for both local and foreign oil companies. I have also served on numerous conference and workshop program committees. The areas in which I am interested can be divided into four main categories; Production Engineering (upstream and downstream), EOR, Reservoir Engineering, and Well Logging. Published articles in internationally respected journals have demonstrated my expertise in these areas. I have two primary goals for my research activities. The first is to continue these mature and well-established areas of research. Second, I intend to diversify and expand my research program in the growing and challenging field of Petroleum Engineering.

### WORK EXPERIENCE

#### Professor

**Mining Institute ( Technical University) [ 06/2016 – Current ]**

**Address:** Saint Petersburg (Russia)

**Country:** Russia

- Lecturing undergraduate and postgraduate courses of Petroleum Engineering.
- Supervising graduate works
- Coached and assessed national reservoir engineers for promotion and certification.
- Intensive summer courses
- Assessing of different works related to oil industry and postgraduate works.
- Researching and supervising different works and projects.

#### Professor of Petroleum Engineering

**Knowledge University [ 01/09/2019 – 07/2020 ]**

**Address:** Erbil (Iraq)

**City:** Erbil

**Country:** Iraq

- Lecturing undergraduate courses of Petroleum Engineering .

- E-Learning.
- Researching and supervising different works and projects.
- Prepared the syllabus of undergraduate Petroleum engineering courses for all stages.
- Workshops and seminars.
- Administration work, taking part in different commitments of the Petroleum Engineering Department and the Engineering Faculty.

### **Professor - Petroleum Engineering**

**Knowledge University** [ 01/10/2017 – 31/08/2019 ]

Address: Erbil (Iraq)

- Lecturing undergraduate courses of Petroleum Engineering .
- Researching and supervising different works and projects.
- Prepared the syllabus of undergraduate Petroleum engineering courses for all stages.
- Workshops and seminars.
- Administration work, taking part in different commitments of the Petroleum Engineering department and the Engineering Faculty.

### **Associate Professor at the Department of Petroleum Engineering**

**Hayat University for Science and Technology** [ 01/2013 – 31/05/2016 ]

Address: Erbil

#### **Courses Development:**

Developed and taught the following Petroleum Engineering courses:

Reservoir Engineering , Production Engineering , Advanced Production Engineering , Well logging 2 and HSE - Health, Safety and environment of oil industry.

#### **Administrative Work:**

- Prepared Petroleum Engineering program outcomes that are compatible with the requirements of Hayat University and the region of Kurdistan-Iraq.
- Prepared the syllabus of undergraduate Petroleum engineering courses for all stages.
- Prepared Petroleum Engineering Labs requirements that are compatible with Hayat University.

#### **Supervising graduate projects**

### **Associate Professor at the Faculty of Engineering**

**Koya University - Kurdistan -Iraq** [ 2012 ]

Address: Koya

Business or sector: Education

- Lecturing and developing undergraduate Petroleum Engineering courses.
- Supervising graduate projects.
- Administration work, Lab work and taking part in different commitments of the Petroleum Engineering department and the Engineering Faculty.
- Researching and supervising different works and projects.

### **Associate Professor**

**Technical University** [ 2008 – 06/2016 ]

Address: Saint Petersburg (Russia)

Country: Russia

- Lecturing undergraduate and postgraduate courses of Petroleum Engineering .
- Supervising graduate works
- Coached and assessed national reservoir engineers for promotion and certification.
- Intensive summer courses
- Assessing of different works related to oil industry and postgraduate works.
- Researching and supervising different works and projects.

## **Associate professor**

**Uppsala University** [ 2007 ]

Address: Box 25675105 Uppsala (Sweden)

City: Uppsala

Country: Sweden

Business or sector: Education

Lecturing in Petroleum Engineering full time

## **Lecturer - Assistant Professor**

**Mining Institute** [ 09/1996 – 2006 ]

Address: 21line, St. Petersburg (Russia)

Country: Russia

Business or sector: Education

- Lecturing and developing undergraduate and postgraduate courses - Petroleum Engineering and Well logging.
- Researching and supervising different works and projects.
- Administration and lab works.
- Coaching and mentoring Petroleum Engineers in cooperation with different oil companies.
- Developed formation testing interpretation techniques;
- Supervised summer interns to conduct research;
- Supported world-wide operations, data analysis and tool development.
- Participated in fields development Plan and studies

## **Teaching**

**Arlanda High School** [ 2001 ]

Address: Marsta (Sweden)

Teaching Mathematics Level C and D

## **Assistant lecturer**

**University of Al-Mustansyria** [ 1990 – 1992 ]

Address: Baghdad (Iraq)

Business or sector: Education

Lecturing Full time

## **EDUCATION AND TRAINING**

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### **Ph.D. in Petroleum Engineering**

**Saint Petersburg State Mining Institute** [ 1993 – 1996 ]

Address: Saint Petersburg (Russia)

Field(s) of study: Petroleum Engineering

National classification: PhD

### **Swedish Doctorate - Equivalent Certificate**

**Swedish ministry of higher education** [ 2001 ]

Address: Stockholm (Sweden)

Field(s) of study: Petroleum Engineering

National classification: PhD

Engineering Sciences( Petroleum Engineering)

## **M.Sc. in Petroleum Engineering**

*University of Baghdad - College of Engineering* [ 1988 – 1990 ]

Address: Baghdad (Iraq)

## **B.Sc. in Petroleum and Minerals Engineering**

*University of Baghdad - College of Engineering* [ 1980 – 1985 ]

Address: Baghdad (Iraq)

National classification: BSc.

Petroleum and Minerals Engineering

## **LANGUAGE SKILLS**

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Mother tongue(s): **Arabic**

### **Other language(s):**

**English - Certified by a certification (Eligibility for higher education)-Sweden,2004.**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

**Russian - Certified by a certification by Mining Institute -Russia, 1996.**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

**Swedish - Certified by a certification (Eligibility for higher education)- Sweden ,2004.**

**LISTENING B2 READING C1 WRITING C1**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

**Arabic**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

## **HONOURS AND AWARDS**

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### **Honours and awards**

- Asian Journal of Geographical Research - 2021, Certificate of Excellence in Reviewing.
- University services Award - July 2020, Knowledge University, Kurdistan-Iraq.
- Certificate of attendance, June 2018, SPE International, Erbil section.
- Faculty services Award - April 2012, Engineering Faculty - Koya University, Kurdistan-Iraq.
- Certificate of proficiency in Mathematics for teaching - November 2006, Mathematic Institute - Stockholm University, Sweden.
- Equivalent Certificate - Swedish MSc and Swedish Doctorate, Swedish ministry of higher education, Stockholm (Sweden).
- Received outstanding Reservoir Engineering work-1996 - Mining Institute, Russia.
- Faculty services Award - 1992 - Engineering Faculty - Almustansyria University, Iraq.

## **JOB-RELATED SKILLS**

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### **Job-related skills**

**(Mentoring -Target setting -Training- Administrative - IT skills - Funding - Researching - Planning - Quality assurance.)**

- Planning and supervising various fields operations training programs
- Planning and supervising training programs of the petroleum engineering students.
- Coaching and mentoring Petroleum Engineers in cooperation with different oil companies.
- Coaching and mentoring Petroleum Engineers in cooperation with different oil companies.
- Assessing of different works related to oil industry and postgraduate works.
- Participating in fields development Plan and studies.
- E-Learning ( Zoom , Google classroom , Other Universities private platforms)

## ACADEMIC TEACHING SKILLS CERTIFICATES

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### Academic Teaching Skills Certificates

- 1- Certificate - Professional Development in Teaching Methods and Skills For Academics- June 1998- Russia.
- 2- Certificate- Associate Professor training and teaching methods. June 2007- Sweden.
- 3- Diploma - Teaching Skills for Educators- August 2016- England.

## FIELDS OF INTEREST

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### Fields of Interest

- Development of unconventional resources
- Well-Testing Analysis
- Artificial Lift Methods
- Well Performance and Production Optimization
- Core Analysis
- Reservoir Engineering
- Well Logging and Formation Evaluation
- Multiphase Flow in Pipes and Separation Devices

## HIGHLIGHT OF EXPERIENCE

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### HIGHLIGHT of EXPERIENCE

- Lecturing most of undergraduate Petroleum Engineering courses
- Lecturing postgraduate Petroleum Engineering courses.
- Coaching and instructing Petroleum Engineers to different competences in oil industry.
- Working in different teams to manage and model giant oil Reservoirs .
- Designing and optimizing oil reservoir development plans.
- Integrating of well log, core and test data for estimating reservoir properties.
- Working in different operating systems.

## COURSES TAUGHT

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### Courses Taught

During my academic career, I have developed and taught many of Petroleum Engineering Curriculum Topics, among which

#### A- Undergraduate Courses

Oil and Gas Production Engineering I & II , Petroleum Reservoir Engineering I & II , Well Logging I & II, Properties Of Oil , Enhanced Oil Recovery , Well Testing and others...

#### B- Graduate Courses

Advanced Production Engineering , Advanced Well Logging, Advanced Reservoir Engineering, Enhanced Oil Recovery and Natural Gas Engineering.

## THESES SUPERVISED

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### Theses Supervised

#### M.Sc. Theses Supervised

- 1- Effect of pore space structure on the efficiency of displacement of the hydrocarbons in the low-permeability reservoirs.(May 2000)
- 2- Development of methods and techniques of processing well logging and core data in the construction of petrophysical models by means of PC.(August 2002).
- 3- Polymer-Polymeric compositions for enhanced oil recovery.(July 2004).
- 4- Complex of technical and technological solutions for oil production from heterogeneous multi-layer deposits with high gas content.( February 2006).
- 5- Development of a technology for determining the parameters of low-porosity fractured reservoirs based on well logging data.(October 2012).
- 6- Investigation of the water saturation of rock samples and the development of technology for increasing the injectivity of the oil reservoir.(August 2016).
- 7- The Method for Improving Water Shutoff Works Efficiency Using Water Repellent. August 2018.

#### Ph.D. Theses Supervised

- 1- Integrated EOR technology using new multi-functional chemical reagents and compositions.(December 2008).
- 2- Research and development of technical and technological solutions to improve the productivity of oil wells. ( June 2012)
- 3- Development of research methods and technologies to restore the flow characteristics of oil and gas reservoirs.(October 2014).
- 4- Technology development of hard-to-recover hydrocarbon reserves, confined to low-permeability rocks.( March 2017).
- 5- Enhanced oil recovery using nanotechnology. August 2018.
- 6- Development and research of technologies for limiting and eliminating water inflows in oil wells.July 2020.

## PUBLICATIONS

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### Part of Published Papers

1. SH AL-Obaidi, FH Khalaf(2020).PROSPECTS FOR IMPROVING THE EFFICIENCY OF WATER INSULATION WORKS IN GAS WELLS.IRMJETS, 2(9),1382-1389
2. Kamensky IP, AL-Obaidi SH, Khalaf FH(2020).SCALE EFFECT IN LABORATORY DETERMINATION OF THE PROPERTIES OF COMPLEX CARBONATE RESERVOIRS.IRMJETS, 2(1),1-6
3. AL-Obaidi, SH(2020).A WAY TO INCREASE THE EFFICIENCY OF WATER ISOLATING WORKS USING WATER REPELLENT.IRJMETS, 2(10),393-399
4. Al-Obaidi SH, Khalaf FH (2019) Development Of Traditional Water Flooding to increase Oil Recovery. IJSTR, 8(1),177-181
5. Al-Obaidi SH, Khalaf FH (2018) The Effects of Hydro Confining Pressure on the Flow Properties of Sandstone and Carbonate Rocks.J Geol &Geophys7: 327
6. Al-Obaidi SH, Khalaf FH (2017)The Effect Of Anisotropy In Formation Permeability On The Efficiency Of Cyclic Water Flooding. IJSTR, 6(11),223-226
7. Al-Obaidi SH, Khalaf FH (2017) Acoustic Logging Methods in Fractured and Porous Formations.J Geol Geophys 6:293
8. Sudad H. Al. , Guliaeva NI(2017) Thermal Adsorption Processing Of Hydrocarbon Residues.INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH, 6(4),137-140
9. Al-Obaidi, Sudad H, Patkin AA, and Guliaeva NI.2003."Advance Use for the NMR Relaxometry to Investigate Reservoir Rocks." OSF Preprints. doi:10.31219/osf.io/jmb9t
10. SH. Al-Obaidi (2016) Improve The Efficiency Of The Study Of Complex Reservoirs And Hydrocarbon Deposits East Baghdad Field.IJSTR,5(8),129-131

11. SH. Al-Obaidi(2016) High oil recovery using traditional water-flooding under compliance of the planned development mode. *Journal of Petroleum Engineering and Technology*,6(2),48–53
12. AL-OBAIDI, SH(2015)The use of polymeric reactants for EOR and waterproofing. *Journal of Petroleum Engineering and Emerging Technology*,1(1),1-6
13. SH Al-Obaid(2017) Calculation Improvement of the Clay Content in the Hydrocarbon Formation Rocks. *Oil & Gas Research*,3(1)
14. Al-Obaidi, Sudad H.2004."Modified Use of Microbial Technology as an Effective Enhanced Oil Recovery."OSF Preprints.doi:10.31219/osf.io/xgthz
15. Al-Obaidi, Sudad H. and Guliaeva NI.2002."Determination of Flow and Volumetric Properties of Core Samples Using Laboratory NMR Relaxometry."engrXiv.doi:10.31224/osf.io/t46wj
16. Al-Obaidi, Sudad H.2020."Improve the Efficiency of the Study of Complex Reservoirs and Hydrocarbon Deposits-East Baghdad Field."engrXiv.doi:10.31224/osf.io/sx5bz
17. Al-Obaidi, Sudad H.1996. "Разработка Методики И Технологии Обработки Данных ГИС." OSF Preprints.doi:10.31219/osf.io/e68us
18. VI, Smirnov, and Sudad H. Al-Obaidi.2008."Innovative Methods of Enhanced Oil Recovery." engrXiv. doi: 10.31224/osf.io/z3bku
19. AA, Patkin and Sudad H. Al-Obaidi. 2001."Influence of Temperature and Pressure of Incoming Oil-containing Liquid from Field Wells on the Gas Separation Process."engrXiv.doi:10.31224/osf.io/2vdyw.
20. Chang W.J., AL-Obaidi SH, Patkin A.A.2021."THE USE OF OIL-SOLUBLE POLYMERS TO ENHANCE OIL RECOVERY IN HARD TO RECOVER HYDROCARBONS RESERVES".*Irjmets*.3(1), 982-987

For full publication details, please visit the link below

Link: <https://scholar.google.com/citations?user=-2FYmsEAAAJ&hl=en>

## Books

1. Разработка методики и технологии обработки данных ГИС и керна для определения подсчетных параметров нефтегазовых месторождений Ирака :На прим. месторождения Вост. Багдад.( Development of methods and technologies for processing petrophysical and core data to determine the estimated parameters of oil and gas fields. Saint Petersburg State Mining Institute,Russia, 1996.)
2. Comparison of Different Logging Techniques for Porosity Determination to Evaluate Water Saturation,1990.
3. Разработка методики и технологии обработки данных ГИС. (Development of methods and technologies for processing Well logging data, Russia 1996) .

## CONFERENCES AND SEMINARS (SELECTED)

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### Proceedings of the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), Tunisia 2019

[ 12/2019 – 12/2019 ]

Advances in Geophysics, Tectonics and Petroleum Geosciences

Link: <https://link.springer.com/bookseries/15883>

### Strategic Cooperation in Higher Education in Pandemic Context -Romania

[ 12/2021 – 12/2021 ]

International workshop

### Society of Petroleum Engineers Distinguished lecturer Seminar - Erbil- Iraq

[ 06/2018 – 06/2018 ]

### The First Electronic Conference on Oil and Gas at Al Emara University- Iraq

[ 02/2022 – 02/2022 ]

**As a Speaker: A Review of Evaluation Methods for Carbonate Reservoirs Using Well-Log Data**

**Conference of the works of young scientists at Saint Petersburg State Mining Institute- Russia**  
[ 06/1996 – 06/1996 ]

**A Review of Evaluation Methods for Carbonate Reservoirs Using Well-Log Data- ( Seminar)**  
[ 12/2021 – 12/2021 ]

Seminar at Knowledge University- Department of Petroleum Engineering- Erbil-Iraq

## **PROFESSIONAL MEMBERSHIPS**

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### **Professional Memberships**

- Member of SPE, Society Of Petroleum Engineering , USA1985.
- Member of UIE , Iraqi Engineering Society, Baghdad, Iraq1985.
- Member of Swedish Civil Engineers - 2002.