



Curriculum Vitae Hussein Khalefa Chlaib

University of Sumer-College of Agriculture-
Department Soil Sciences and Water Resources.

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Name: Hussein Khalefa Chlaib Al-Shehmani

Nationality: Iraqi

Religion: Muslim

Sex: Male

Place and date of birth: Iraq/Wast /1/3/1976

Status: Married

EDUCATION

Ph.D.	Applied Science (GPA: 4) Specialization in geophysical applications for geotechnical problems University of Arkansas at Little Rock, Little Rock, AR	2013
M.Sc.	Applied Science (GPA: 4) Specialization in geophysical applications for geotechnical problems University of Arkansas at Little Rock, Little Rock, AR	2012
M.Sc.	Earth Science, Geophysics Specialization in groundwater investigation University of Baghdad, Baghdad-Iraq.	2001
B.S.	Earth Science (GPA: 3.6) General Geology University of Baghdad, Baghdad-Iraq.	1998
	Secondary school , Scientific, Thi-Qar- Iraq (GPA: 3.6)	1994

RELATED GRADUATE COURSES

Advanced Seismology

Elastic Wave Theory
Potential Theory
Hydrogeology
Engineering Geology
Introduction to remote sensing
Gravity method
Paliomagnetic
Electric method
Theoretical Geophysics
Applied Geophysics
Refraction Method
Engineering Seismology
Magnetic Exploration

Ph.D. Dissertation title

GEOPHYSICAL APPLICATIONS FOR LEVEE ASSESSMENT

M.Sc. thesis title

USING THE SCHLUMBERGER ARRAY FOR GEOHYDROLOGICAL INVESTIGATION BETWEEN BAIJI AND TIKRIT-IRAQ.

RESEARCH INTERESTS

- GPR and CCR applications for near surface and engineering exploration.
- Near-surface methods for geotechnical applications.
- High frequency and broad band seismic stations installation.

EXPERIENCE

RESEARCH ASSISTANT

5/2013 – 8/2013

GEOPHYSICS LABORATORY

University of Arkansas at Little Rock

A member in Earthquake Center / GIT –UALR

- Conducting 2D, 3D and Super-3D GPR surveys on Marianna sandblows in Marianna, AR (project funded by USGS)
- Responsible for setup and maintenance of ACEETT seismic stations in Osceola, De Queen, Batesville, AR
- A scientific reviewer in the Frontiers of Earth Science journal (Springer publication) which has an impact factor of 0.516.
- A scientific reviewer in the EIT Image Processing journal which has an impact factor of 0.68.

- Responsible for setup and maintenance of 7 high frequency seismic stations in Thi-Qar governorate / Iraq.
- Responsible for setup and maintenance of 3 Broad band seismic stations in Thi-Qar governorate / Iraq.
- Responsible of GPR training for international students and visitors in geophysical labs/ Applied Science and Earthquake Center- UALR .
- Worked on Induced Seismicity of Central Arkansas Project (Project funded by Arkansas Oil & Gas Commission)
- Analyzed induced/triggered earthquakes
- Created subsurface/surface earthquake location-magnitude maps
- Installed and maintained seismic stations in Batesville,Di Queen, and Enola, AR.
- Conducting a level and Theodolite field survey.
- Open free English language courses in Summer University to enhance and improve the English level of the university staff.

TEACHING

Assistant lecturer

Thi-Qar University, College of Science, Physics Department from 10/2003 – 7/2007.

Assistant lecturer

Thi-Qar University, The open Educational College from 9/2005 – 6/2007.

Lecturer

Thi-Qar University, College of Science, Physics Department from 10/2007 – present.

Lecturer

Sumer University, College of Basic Education, Natural Science Department from 2/2014 – present.

Sumer University, College of Agriculture, Soil Science and Water Resources Department from 9/2014 – present.

Sumer University, College of Computer Science and Information Technology, Computer Department from 2/2016 – present.

- Geology
- English language
- Remote sensing
- Engineering drawing
- Plane surveying
- Principles of Pedology
- Hydrology and water resources

- Land leveling
- Desertification

PUBLICATIONS

Papers:

- **Chlaib, H. K.**, Flaih, T.H., 2005. Evaluation of environmental and geological parameter for ground water in Am-Auneej in Thi-Qar. Journal of Qadasia, Pure Sciences, Vol.10, No.1, pp.131-138.
- **Chlaib, H. K.**, 2012. Determination of Geoelectrical and saturated zones by using electrical resistivity method between Samara and AL-Dour-central Iraq. Journal of Thi-Qar University, Vol. 7, Issue 4.
- Abd Almuhsin, S. M., Ahmed, A., **Chlaib, H. K.**, Ali. N. M., 2015. The radiological survey of the river sediments passing in Thi Qar Governorate, Published in: Journal of Babylon University/Pure and Applied Sciences, Vol.23, No.4, pp. 1501-1508.
- **Chlaib, H. K.**, Su, M., Mahdi, H., Al-Shukri H., Abd, N., Detecting lateral changes in soil compaction in the levee body with Ground Penetrating Radar using Energy Variation Method (*EVM*), Near Surface Geophysics, 2013 (revised)
- **Chlaib, H. K.**, Su, M., Abd, N., Catakli, A., Mahdi, H., Al-Shukri H., Detection of weakness zones in Helena levee using Ground Penetrating Radar, 34th United States Society on Dams (USSD) 2014 Annual Meeting and Conference, San Francisco, CA, April 7-11-2014., pp. 1015-1029.
- **Chlaib, H. K.**, Mahdi, H., Al-Shukri H., Su, M., Catakli, A., Abd, N., 2014. Using Ground Penetrating Radar in levee assessment to detect small scale animal burrows, Journal of Applied Geophysics, Vol. 103 (121-131). DOI:10.1016/j.jappgeo.2014.01.011
- **Chlaib, H. K.**, Al-Shukri H., Mahdi, H., Su, M., Catakli, A., Abd, N., Levee evaluation with Ground-Penetrating Radar, United States Society on Dams (USSD) 2013 Annual Meeting and Conference, Phoenix, AZ, Feb 11-15, 2013, pp. 33-47.
- **Chlaib, H. K.**, Abdalnaby, W., Abd, N., Application of the ground penetrating radar to detect weapons caches and unexploded ordnance: laboratory experiments. IOSR Journal of Applied Geology and Geophysics (IOSR-JAGG) e-ISSN: 2321-0990, p-ISSN: 2321-0982. Volume 2, Issue 5 (Jul-Aug. 2014), PP 41-50. DOI: 10.9790/0990-0254150
- Su, M., Mahdi, H., Al-Shukri, H., **Chlaib, H.**, Abd, N., Attenuation of GPR signal to detect variation in mineral concentration, Istanbul International Geophysical Conference and Oil & Gas Exhibition, Istanbul, Turkey, 17-19 September 2012, pp. 1-4. doi: 10.1190/IST092012-001.122
- Abd, N., Mahdi, H., Al-Shukri, H., Catakli, A., **Chlaib, H.**, Su, M., Induced Seismicity of Central Arkansas, Istanbul International

- Geophysical Conference and Oil & Gas Exhibition, Istanbul, Turkey, 17-19 September 2012, pp. 1-4. doi: 10.1190/IST092012-001.139
- Hayder Al-Shukri, H. Mahdi, N. Abd, **H. Chlaib**, A. Ramthan and R. Gok, Installation of high frequency array and broadband seismic stations in south central Iraq. 9th GULF SEISMIC FORUM, 6 - 9 April, 2015, Kuwait.
 - H. Mahdi, Wathiq, A, Hayder Al-Shukri, Najah Abd, **Hussein Chlaib**, Ali Ramthan, Sany Hannina, Maher Mahdi, Rafed Al-Mohaned, Zainab Al-Zubairi, and Rengin Gok, preliminary results of crustal structure beneath Nasiriyah and basra areas, southern Iraq, using inversion of fundamental mode Rayleigh wave dispersion curves. . 9th GULF SEISMIC FORUM, 6 - 9 April, 2015, Kuwait.
 - **Chlaib, H.K.**, Abd, N.A., Hussein, A.R., Sep. 2015. The ability of the ground penetrating radar in subsurface pipes situation identification computer simulations. Journal of University of Thi-Qar, Vol. 10 (3): 14-32

Books:

Chlaib, H. K. 2014. Geophysical applications for Levee Assessment. Scholar's press, ISBN: 978-3-639-71054-0, Deutschland, Germany.

PRESENTATIONS, CONFRENCES AND WORKSHOPS

- "**Levee evaluation with Ground-Penetrating Radar**", United States Society on Dams (USSD) 2013 Annual Meeting and Conference, Phoenix, AZ, Feb 11-15, 2013
- "**Earthquakes and their risk**", Thi-Qar University- 2006.
- "**Broadband and high frequency seismological array in Thi-Qar**", Thi-Qar University- 2014.
- "**Using of the Ground penetrating radar to study the soil compaction**", Sumer University-2015.
- **Attendance and participation in the 33th annual United States Society of Dams (USSD) conference in Phoenix, Arizona USA, February 11-15, 2013.**
- **Participation in the 34th annual United States Society of Dams (USSD) conference in San Francisco, California USA, April 7-11, 2014.**
- **Participation in the Istanbul International Geophysical Conference and Oil & Gas Exhibition, Istanbul, Turkey, 17-19 September 2012.**

- **Attendance and participation in the 2015 Seismological Society of America (SSA) Annual Meeting in Pasadena, California, USA, April 21-23, 2015.**
- **Participation in the 9th Gulf Seismic Forum, Kuwait, April 6-9, 2015.**
- **Attendance the (Seismology and earthquake risk assessment in Iraq) workshop as a visiting scientist in Arkansas Earthquake Center, GIT, UALR, Arkansas, USA, April 11-20, 2015.**
- **Attendance the Eastern Section SSA 2011 Annual Meeting, Little Rock, Arkansas USA, October 16-18, 2011.**
- **Attendance the (Seismology and earthquake risk assessment in Iraq) workshop in Erbil, Iraq, June 9-21, 2014.**
- **Attendance the Environment Protection and Improvement council meeting as a representative of University of Sumer, Al-Refaee, Thi-Qar, Iraq, 3-11-2014.**
- **Attendance and participation in the student research and creative works Expo, Graduate competition, UALR, Little Rock, Arkansas, USA, April 2013.**
- **"Earthquakes' risk in Al- Refaee city and the surrounding areas", Sumer University-10-04-2016.**

EQUIPMENT KNOWLEDGE

- GSSI SIR-10, SIR-30 (multi-channel), SIR-3000 GPR systems.
- Bi-static GPR antennas: 16 MHz, 40 MHz, 80 MHz.
- Mono-static GPR antennas: 200 MHz, 270 MHz, 400 MHz, 900 MHz, 1.5 GHz, 2.0 GHz (Horn antenna).
- Geometrics OhmMapper TR1, Capacitively Coupled Resistivity (CCR) system.
- Stevens HydraProbe II Soil Moisture and Salinity Sensor.
- The Level and Theodolit.

COMPUTER SKILLS

- Modeling Software: GprMAX.
- Microsoft Office tools: Word, Excel, Access, PowerPoint.

- Linux OS and Linux Based software: CentOS, Computer Programs in Seismology, GSAC and GMT.

HONORS

- Student Award, 2nd place, Life and physical science, UALR, Expo conference 2013.
- Certificate of attendance, First annual conference of the scholarship students in the USA, Little Rock, Arkansas, April 2011.
- Certificate of appreciation, the student research and creative works Expo, Graduate competition, April 2013.
- Certificate of highest GPA at the IELP, UALR, 2009.
- Certificate of highest overall GPA at the IELP, UALR, 2009.

APPRECIATIONS

- ✓ Three appreciations from Minister of higher education and scientific research.
- ✓ Seven appreciations from the president of Thi-Qar University.
- ✓ Four appreciations from the president of Sumer University.
- ✓ One appreciation from the president of Basrah University.

MEMBERSHIPS

- AGU, American Geophysical Union
- UALR Alumni
- Earthquake center, UALR
- Seismological Society of America (SSA).

LANGUAGES

- Arabic, native tongue.
 - English, fluent in speaking, reading, and writing.
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