

Curriculum Vitae

Najah Abd

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Department of Geology
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Name: Najah Abd Al- Hassan Abd
Nationality: Iraqi
Place and date of birth: Iraq- Baghdad- 06/13/1976
Status: Married

EDUCATION

Ph.D.	Applied Science Induced Seismicity of Central of Arkansas University of Arkansas at Little Rock, Little Rock, AR	2013
M.Sc.	Applied Science Induced Seismicity of Central of Arkansas University of Arkansas at Little Rock, Little Rock, AR	2012
M.Sc.	Earth Science, earth magnetic survey in the Western desert of Iraq University of Baghdad, Baghdad-Iraq.	2003
B.S.	Earth Science General Geology University of Baghdad, Baghdad-Iraq.	2000

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

RESEARCH INTERESTS

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

EXPERIENCE

RESEARCH ASSISTANT **2012 –2013**
GEOPHYSICS LABORATORY
University of Arkansas at Little Rock
A member in Earthquake Center / GIT –UALR

- Worked as a member of the University of Baghdad consultation incorporation from 2000 to 2007 and 2014 to 2015.
- Worked as Geophysics in Al- Amaq Company for the Geophysical applications from 2002 to 2007 and 2014 to 2016.
- Responsible for setup and maintenance of seismic stations in Osceola, De Queen, Batesville, AR
- 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.
- 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.

TEACHING

Assistant lecturer

Baghdad University, College of Science, Geology Department from 06/2003 to 07/ 2007.

Lecturer

Baghdad University, College of Science, Geology Department from 04/2014 to 08/ 2016.

- Geology
- Advanced Seismology
- Hydrogeology
- English language
- Gravity method
- Applied Geophysics
- Refraction Method
- Engineering Seismology
- Computer

PUBLICATIONS

Papers:

- 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
- 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, 33th United States

- Society on Dams (USSD) 2013 Annual Meeting and Conference, Phoenix, AZ, Feb 11-15, 2013, pp. 33-47.
- Chlaib, H. K., Abdulnaby, 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
 - 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

PRESENTATIONS, CONFERENCES AND WORKSHOPS

- **"Broadband and high frequency seismological array in Thi-Qar"**, Thi-Qar University- 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 and participation in the student research and creative works Expo, Graduate competition, UALR, Little Rock, Arkansas, USA, April 2013.**
- **"Earthquakes' risk in Al- Refae city and the surrounding areas", Sumer University-10-04-2016.**

EQUIPMENT KNOWLEDGE

- All kinds of the equipment in Seismology
- Seismic and Resistivity applications equipment.
- 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.

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, (honors Award), 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.

APPRECIATIONS

- ✓ One appreciation from Minister of higher education and scientific research.
- ✓ Two appreciations from the president of Thi-Qar University.
- ✓ Two 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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