

Radwan J. El-Kelani

Faculty of Science, An-Najah National University, Nablus, Palestine

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CURRENT POSITION

Associate Professor, Faculty of Science, An-Najah National University, 2008 – Present

EDUCATION

- **Ph.D., Applied Geophysics, Clausthal Technical University, Germany, 1994- 1997,**
Thesis: "Integrated 3-dimensional geophysical investigations of the Westerwald Volcanics, Germany",
- **M.Sc., Geology and Mineralogy, Jordan University, Jordan, 1989- 1991,**
Thesis: "Geophysical studies of Zarqa Ma'in area as a potential renewable source of geothermal energy",
- **B.Sc., Earth Sciences and Environment, Yarmouk University, Jordan, 1985- 1989.**

WORK EXPERIENCE

- **Associate Professor, Faculty of Science, An-Najah National University, Nablus, West Bank, Palestine, 2008-Present.**
- **Guest Professor, Department of Geophysics, Geosciences Institute, Johann Wolfgang Goethe Frankfurt University, Germany, 2010.**
- **Guest Professor, Department of Geophysics, Free University Berlin, Germany, 2003-2004.**
- **Assistant Professor, Department of Civil Engineering, Faculty of Engineering, An-Najah National University, Nablus, West Bank, Palestine, 2000-2007.**
- **Researcher, Earth Sciences and Seismic Engineering Center (ESSEC), An-Najah National University, Nablus, West Bank, Palestine, 1998-Present.**
- **Research and Teaching Assistant, Department of Geology and Mineralogy, Jordan University, Jordan, 1989-1992.**

PROFESSIONAL REGISTRATIONS

- **Jordanian Geologists Association, Amman/ Jordan**
- **Palestinian Geologists Association, Nablus/ Palestine**
- **German Geophysist Association, Germany**

ADDITIONAL CAREER EXPERIENCE - PART TIME

Researcher/Expert, Principal Investigator & Coordinator (1998-Present) for the following projects:

- Integrated Geophysical Study of the Dead Sea Rift Valley for Hazard Assessment and Mineral Resources
- Earthquake Hazard Assessments for Building Codes.
- Dead Sea Research Project: Crustal Structure and Evolution (DESERT 2000).
- GEOscientific Dead Sea Integrated Research Project (GEO-DESIRE), a multinational and interdisciplinary study.
- Earthquake and Seismic Risk in Eastern Mediterranean.
- Cross-border earthquake hazard and risk assessment in the Dead Sea Fault Region.
- Evaluation of earthquake-induced landslide hazard in Nablus and Hebron highlands.
- Geophysical and geotechnical investigations of proposed dams sites in Sanour area- Jenin.
- Advanced techniques for seismic risk (SE RISK) reduction in Mediterranean Regions.
- Study of the active faults of the West Bank area using new gravity data.
- Geophysical investigations of proposed Sanitary landfill sites in Hebron.

COMPUTER SKILLS

- IGMAS 3-dimensional Geophysical software.
- SeisImager/2D refraction software.
- Surfer mapping software.
- Microsoft word, Excel, Power point.

TRAINING

Several courses on seismic software (risk assessment, earthquake engineering, tsunami early monitoring systems) during RELEMR Workshops for Seismic Hazards Mitigation in the Mediterranean Region: Amman-Jordan 1998, Istanbul-Turkey, 1998, Nicosia-Cyprus, 1999 Istanbul 2000, Barcelona-Spain 2001, Larnaka-Cyprus 2002, Nicosia-Cyprus 2003, Aqaba-Jordan, 2004, Ankara-Turkey 2005, Chania-Crete-Greece, 2005, Valleta-Malta, 2006, Madrid-Spain, 2007, Valleta-Malta, 2012, Nicosia-Cyprus, 2012. Malaga-Sapain, 2013.

Non-Linear Dynamics and Earthquake Prediction, the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, October 2001.

AWARDS

Scholarships:

- Yarmouk University, Irbid, Jordan, Honor List 1987-1989 (B.Sc),
 - Jordan University, Amman, Jordan, Honor List 1989-1992 (M.Sc),
 - German Academic Exchange Service (DAAD), Germany 1993-1998 (Ph.D)
 - Equipment grant (2000), Federal Ministry for Economic Co-operation and Development, Germany (through the DAAD: German Academic Exchange Service)
 - Deutsche Forschungsgemeinschaft (DFG) Guest Professor grant (2003-2004), Department of Geophysics at the Free University Berlin, Germany

 - German Academic Exchange Service (DAAD), Germany 2010 (Guest Professor)
 - Grant of Islamic Development Bank in Technology and Science fields (2004) to Researcher Team from An-Najah National University, Nablus, Palestine
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COURSES TAUGHT:

BACHELOR COURSES:

- Engineering Geology
- Essentials of Geology
- Principles of Petrology
- Applied Geophysics
- Soil Geography
- Environmental Geology
- Geology and Earth Sciences

MASTER LEVEL COURSES:

- Exploration Geophysics
- Scientific Research
- Thesis

PUBLICATIONS

REFEREED JOURNAL PAPERS/PROCEEDINGS

- Al-Dabbeek, J. and El-Kelani, R. (2005): Dead Sea Earthquake of 11 February 2004, ML 5.2: post earthquake damage assessment, the International Earthquake Engineering Conference (TINEE), 21-24 November, Dead Sea, Jordan.
- El-Kelani, R. and Al-Dabbeek, J. (2005): 3-dimensional mapping of landslide in Nablus City, Palestine: a preliminary risk assessment, Conference of Urban Engineering, 12-13 October, Lille, France,

- Al-Dabbeek, J. and El-Kelani, R. (2008): Rapid Assessment of Seismic Vulnerability in Palestinian Refugee Camps. Journal of Applied Sciences, 8 (8):1371-1382.

- El-Kelani, R. J. (1991): Geophysical studies of Zarqa Ma'in area as a potential renewable source of geothermal energy, M.Sc. Thesis, University of Jordan, Amman.
- El-Kelani, R., Jahr T., Jentzsch G., Schreiber, U. (1996): 2-dimensionale gravimetrische Modellierung im westlichen Westerwald zur Ueber-prüfung geologischer Modellvorstellungen (abs.). 58 Conference of the German Geophysical Association (58 Jahrestagung der Deutschen Geophysikalischen Gesellschaft, DGG), Germany, Freiberg, PG11: 111.
- El-Kelani, R. (1997): Integrated 3-dimensional geophysical investigations of the Westerwald Volcanics, Germany. Ph.D. Thesis, Clausthal Technical University, Clausthal, Germany.
- El-Kelani, R. (1998): 3-dimensionale gravimetrische Modellierung der tertiären Vulkanite des Westerwaldes, TU Contact; Zeitschrift (Journal) der Technischen Universität Clausthal, Germany, V1: 59-61.
- El-Kelani, R., El-Isa, Z., Zaid, A. (1998): Interpretation of gravity data in Zarqa Ma'in hot springs area, preliminary evaluation of the geothermal resources of Jordan (abs.), 58 Conference of the German Geophysical Association (58 Jahrestagung der Deutschen Geophysikalischen Gesellschaft DGG), Germany, Goettingen, VS14: 210.
- El-Kelani, R., Jahr, T., Jentzsch, G., Schreiber, U. (1998): Qualitative und quantitative Interpretationen der Westerwald Bouguer-Karte: Wellen- laengenfilterung und 3-dimensionale Modellierung des Schwere-feldes (abs.), 58 Conference of the German Geophysical Association (58 Jahrestagung der Deutschen Geophysikalischen Gesellschaft DGG), Germany, Goettingen, GG43: 81.
- El-Kelani, R., Jentzsch, G., Schreiber, U. (1998): Gravity anomalies and subsurface geology in the Westerwald volcanic area, Germany, Geologische Rundschau, International Journal of Earth Sciences, 87/3: 381-393.
- El-Kelani, R. (2005): Crustal Structure of the Dead Sea Rift from Gravity Data: 3-dimensional modeling, the 1st International Conference of Science and Development (ICSD-1), 1-2 March, the Islamic University of Gaza, Gaza, Palestine.
- E-Kelani, R. (2005): 3-dimensional gravity Model of the southern Jordan Dead Sea Transform, An-Najah University Journal for Research-A (Natural Sciences), Vol. 19, 185-208.
- E-Kelani, R. (2007): Interpretation of gravity data in the Jericho area, Dead Sea Transform. The Islamic University Journal (Natural Studies and Engineering) Vol. 15, No. 2, 21-39.
- E-Kelani, R. and Jardaneh, I. (2011): Surface Soil Effects Study Using Microtremor Observations in Nablus City, Palestine. The Islamic University Journal (Natural Studies and Engineering) Vol. 19, No. 2, 99-112.
- Goetze, H.-J., Schmidt, S., El-Kelani, R., Rybakov, M., Hassouneh, M., Foerster, H.-J.,

Ebbing, J., (2006): Integrated 3-D density modeling and segmentation of the Dead sea Transform, International Journal of Earth Sciences, Vol. 96, No. 2, 289-302

- Haberland, Ch., Agnon, A., El-Kelani, R., Maercklin, N., Qabbani, I., Ruempker, G., Ryberg, T., Scherbaum, F., Weber, M. (2003): Modeling of seismic guided waves at the Dead Sea, Journal of Geophysical Research, Vol. 108, No. B7, 2342, doi: 10.10929/2002JB002309.
- Haberland, Ch., Maercklin, N., Kesten, D., Ryberg, T., Janssen, Ch., Agnon, A., Weber, M., Schulze, A., Qabbani, I., El-Kelani, R., (2006): Shallow architecture of the Wadi Araba fault (Dead Sea Transform) from high-resolution seismic investigations, Tectonophysics, 432, 37-50.
- Habib, I. and El-Kelani R. (2007): The Dead Sea Desiccation and the Proposed Canal (Red-Dead Sea), The Islamic University Journal (Natural Studies and Engineering) Vol. 15, No. 2, 283-317.
- Habib, I. and El-Kelani R. (2011): The Dead Sea and Sodom People, Scientific Miracles Center for Research and Studies, <http://www.smqs.ps>.
- Maercklin, N., El-Kelani, R., Haberland, Ch., Ryberg, T., Scherbaum, F., Weber, M. and the DESSERT 2000 Team: DESSERT 2000- CSA (2001): Seismic studies of the Araba Fault, Dead Sea Rift Transform, Jordan, San Francisco, USA, AGU Fall Meeting, 15.-20 Dezember,2000.
- Maercklin, N., Haberland, Ch., Ryberg, T., Weber, M., Bartov, V., and the DESSERT Group-(El-Kelani, R) (2004): Imaging the Dead Sea Transform with scattered seismic waves, Geophys. J. Int., Vol. 158, 179-186.
- Mohsen, A., Bock, g., Abdel-Hafes, W., Hofsetter, R., El-Kelani, R., Ruempker, G., Wylegalla, K. and the DESSERT 2000 Team (2001): A passive seismic array across the Dead Sea Transform, San Francisco, USA, AGU Fall Meeting.
- Mohsen, A., Hofstetter, A., Bock, G., Kind, R., Weber, M., Wylegalla, G., G. Rumpker, and DESERT Group-(El-Kelani, R) (2005): A receiver function study across the Dead Sea Transform, Geophys. J. Int., 160, 948-960, doi: 10.1111/j.1365-246X
- Tasarova, Z., Goetze, H.-J., El-Kelani, R., Ebbing, J., Hassoueh, and DESERT Group (2006): Small-scale gravity modeling of upper crustal structures in the Araba valley along the Dead Sea Transform, Geochemistry, Geophysics, Geosystem (G3) an Electronic Journal of the Earth Sciences, Vol. 7, Nr. 9, Q09012, doi: 10. 1029/2005GC001229.

REFERENCES

Available upon request
