

CURRICULUM VITAE

-Name : Tayel Mahmoud El-HASAN
 طایل محمود عليان الحسن
-Position : Associate Professor (April. 10. 2004)
-Place and Date of Birth : Sahab - Jordan, January 1st 1965
-Nationality : Jordan
-Marital Status : Married (5 sons)
-Language Proficiency : Arabic (Native), English (Good command in reading, writing, and conversation), with little Japanese.
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 Mu'tah University, 61710
 Al-Karak – Jordan
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Educational History:

Period	Institute Name	Degree	Remarks
1996 – 1999	Institute of Geoscience – University of Tsukuba. Tsukuba – Japan	Ph.D.	Geochemistry (Credit Hours and Thesis)
1987 – 1992	Faculty of Science – University of Jordan. Amman - Jordan.	M.Sc.	Geochemistry (Credit Hours and Thesis)
1983 – 1987	Faculty of Science - Yarmouk University. Irbid - Jordan.	B.Sc.	General Geology (Credit Hours)
1980 – 1983	Sahab Secondary School Sahab – Jordan	Secondary Certificate	

Working Profile:

Work Period	Place of Work	Nature of Work
Sep. 2006 - Recent	Dept. of Chemistry, Mu'tah University, Jordan.	Associate Professor
Sep. 2005 – Sep. 2006	Dept. of Environmental and Applied Geology, University of Jordan, Amman – Jordan	Associate Professor (Visiting Professor)
April 2004 – Sep. 2005	Dept. of Chemistry, Mu'tah University, Jordan.	Associate Professor
April 1999 – April 2004	Dept. of Chemistry, Mu'tah University, Jordan.	Assistant Professor
July 1993 – Oct. 1995	Dept. of Geology, Mu'tah University, Jordan.	Teaching Assistant
July 1992 – July 1993	Geochemistry Division, NRA, Jordan.	Geochemist Trainee
July 1991 – Feb. 1993	Marbco (Marble Manufacturing Co.), Jordan	Geological Supervisor
Jan. 1987 – Jan. 1992	Dept. of Geology, Univ. of Jordan, Jordan	Teaching Assistant
June '88 – June '90	Jordanian Armed Forces	Site Geologist

Publications:

- El-Hasan, T.M.** (1992): Geochemistry and Genesis of Wadi Umm Ghadah Mn Mineralization/ South Jordan. M.Sc. Thesis. Univ. of Jordan, Amman. P135.
- Saffarini, Gh. and **El-Hasan, T.** (1995): Wadi Umm Ghadah Manganese Occurrence/ South Jordan: Hydrothermal Mineralization?, Mu'tah Journal For Research and Studies Vol. 10, No. 4: 43-63.
- El-Hasan, T.M.** (1999) Geology, Mineralogy, and Geochemistry of the Cambrian manganese deposits of central Wadi Araba region, Jordan. Tsukuba Univ. Ph.D. Thesis, P133.
- El-Hasan, T.,** Al-Malabah, A., Kajiwaru, Y., and Komuro, K. (2000): Petrology, Mineralogy, and genesis of Wadi Dana Cambrian Manganese Deposit, Central Wadi Araba Region, Jordan. El-Sayed (Eds): Geology of the Arab world, Proceedings of the Fifth Int. Conference on the Geology of the Arab world, Cairo Univeristy, 2000. Volume 1: 391 – 404.
- El-Hasan, T.,** Al-Malabah, A.; Kajiwaru, Y., and Komuro, K. (2001): Geochemical Characteristics of the Cambrian Manganese Deposits of Central Wadi Araba, South Jordan. Iraqi J. Sci., Vol 42A (3) : 1-39.
- El-Hasan, T.,** Al-Malabah, A., and Kumoro, K.: (2008) Rare Earth Elements Geochemistry of the Cambrian shallow marine manganese deposits at Wadi Dana, South Jordan. Jordan Journal of Earth and Environmental Sciences (JJEES). 1(1):45-52.
- El-Hasan, T.,** and Jiries, A. (2001): Heavy Metal Distribution in Valley Sediments in Wadi Al-Karak Catchment Area, South Jordan. Environ. Geochem. and Health, Vol 23 (2): 105-116.
- El-Hasan, T.,** and Lataifeh, M.(2001): Differentiation between various manganese deposits of Jordan using magnetization measurments. AL-Manarah, Vol. 7(1): 71-86.
- Al-Malabeh, A., Al-Fugha, H. and **El-Hasan, T.** (2004) Petrology and Geochemistry of Late Precambrian Magmatic Rocks from Southern Jordan. Neues Jahrbuch fuer Geologie und Palaeontologie, 233 (3) 333-350, Germany
- El-Hasan, T.,** and Al-Malabeh, A. (2008): Geochemistry and pertology of Al-Lajjoun Basaltic flows, South Jordan. Jordan. Journal of Earth and Environmental Sciences. 1(2): 53-62.
- Al-Malabeh, A., and **El-Hasan, T.** (Under construction): Quantifying the partial melting degree of different stratogenic Tephra cones, using the genuine incompatible element concentration.
- Al-Malabeh, A., Al-Fugha, H., and **El-Hasan, T.** (2003): Volcanogenesis of Welded Pyrocalstic Rocks in Jabal Aritain volcano, Jordan. Abhath Al-Yarmouk, 12(2A): 345-361.
- El-Hasan, T.,** and Lataifeh, M. (2003): Environmental Magnetism: The Implication of Initial Magnetic Susceptibility and Saturation Magnetization for Detecting Roadside Pollution in Arid Regions. Dirasat, Pure Sciences, 30 (2):191-202.
- Al-Malabah, A., **El-Hasan, T.,** Lataifah, M., and O,Shea, M. (2002): Geochemical and mineralogical related magnetic characteristics of the Tertiary – Quaternary (Um Al-Qutein) Basaltic flows from the basaltic field of Hara El-Jabban, Northeast Jordan. Physica B: Physics of Condensed Matter. 321(1-4): 396-403.
- Jiries, A., **El-Hasan, T.,** and Manasrah, W., (2002): Qualitative Evaluation of the Mineralogical and Chemical Composition of the Settled Aeolian Dust Falling Over Central and Southern Highlands of Jordan. Comosphere, 48 (9):933-938.
- El-Hasan, T.** (2002): Urban Geochemistry: Heavy Metals Distribution on the Soils of Relatively Heavy Industrial City of Sahab, Central Jordan. Mu'tah Lil-Buhuth wad-Dirasat, Vol. 17 (3): 49-67.

- El-Hasan , T.**, Al-Omari, H., Jiries, A., and Al-Nasir, F., (2002): Cypress Tree (*Cupressus Semervirens* L.) Bark as an Indicator for Heavy Metal Pollution in the Atmosphere of Amman City, Jordan. *Environment International*, 28 (2002): 513-519.
- Jiries, A., **El-Hasan, T.**, Al-Hiwati, M., and Seiler, K. P., (2004): Evaluation of the Effluent Water Quality Produced from Phosphate Mines in Central Jordan. *Mine Water and the Environment*. 23 (3): 133-137.
- El-Hasan, T.** (2006): Geochemical dissociation of major and trace elements in bed and suspended sediment phases of the phosphate mines effluent water, Jordan. *Environmental Geology*. 51(4):621-629.
- Al-Omari, H., **El-Hasan, T.**, Al-Quoran, S., Al-Nasr, F., Abu-Abed, M., Jiries, A., (Under construction): The usefulness of phytoplankton as bio-indicator for the effectiveness of Khirbat As-samra wastewater plant in Zarqa river water.
- El-Hasan, T.**, Batarseh, M., Al-Omari, H., Ziadat, A., Jiries, A., Elali, A., Al-Naser, F., and Berdanier W. B. (2006): The Distribution of Heavy Metals in Urban Street Dusts of Karak City, Jordan. *Soil & Sediment Contamination*. 15:357-365.
- Ziadat, A., Batarseh, M., **El-Hasan, T.**, Berdanier W. B, and Jiries, A., (2006): Chemical and mineralogical characteristics of dry deposition in the surrounding of a cement factory in Jordan. *Forensic Environment*. 7:169-174.
- El-Hasan, T.** (2008): The Detection of Roadside Pollution of Rapidly Growing City in Arid Region Using the Magnetic Susceptibility and Saturation Magnetization as Proxies. *Environmental Geology*. 54(1):23-29.
- Al-Malabeh, A.;**El-Hasan, T.**; Al Qadi, G.; and Al-Fugha, H. (2008): Geochemistry of some Opaque Mineral Oxides Contained Within The Andesitic Dikes, Southern Jordan. *Abhath Al-Yarmouk "Basic Sci. & Eng."* Vol. 17(1A): 111-126.
- Al-Malabeh, A.; **El-Hasan, T.**; and Lataifeh, M. (2009): Comparative Study Between Geochemical and Magnetic Characteristics Of Spinel Lherzolite Mantle Xenoliths From Jabal Remah Volcano, Jordan. *American Journal of Applied Sciences*. (In press).
- El-Hasan, T.** (2008): Geochemistry of the redox-sensitive trace elements and its implication on the mode of formation of the Upper Cretaceous oil Shale, Central Jordan. *Neues Jahrbuch fuer Geologie und Palaeontologie Abh.* 249(3): 333-344.
- El-Hasan, T.**; Momani, K.; Al-Nawayseh, J. and Al-Nawayseh, K. (2008): The influence of Dead Sea on the chemistry and mineralogy characteristics of the dry deposition fallen over the eastern highlands, central Jordan. *Environmental Geology*. 54(1):103-110.
- Jiries, A.; Batarseh, M.; **El-Hasan, T.**; Ziadat, A. and Al-Naser, F. (2008): Lichens (*Rhizocarpon geographicum*) as Biomonitor for Atmospheric Pollution in Amman City, Jordan. *Environmental Bioindicators*. 3(2):106-113.
- Momani, K., **El-Hasan, T.**, Auaydeh, S. and Al-Nawayseh, K. (Submitted to publication *Environmental Geochemistry and Health*): Heavy metal chemical characteristics in the Black mud of the Dead Sea, Jordan.
- Batarseh, M., and **El-Hasan, T.** (2009): Toxic Element Levels in the Phosphate Deposits of Central Jordan. *Soil & Sediment Contamination*. 18:205-215.
- El-Hasan, T.**, Al-Anbar, Z., Batarseh, M., Al-Naser, F., Al-Anbar, M, Ziadat, A., Kato, Y. and Jiries, A (2008):Removal of Zn^{+2} Cu^{+2} and N^{+2} ions from aqueous solutions via Tripoli: Simple component with single phase model. *Current World Environment*. 3(1): 1-14.
- Al-Anbar, M, Al-Anbar, Z., Al-Ghzawi, N. Momani, I., and **El-Hasan, T.**, (Submitted to *Environmental Engineering Science*): Lead and Cobalt Removal from Aqueous Stream Using Natural Tripoli.
- Al-Malabeh, A.; and **El-Hasan, T.** (2009): Mineralogy and Chemistry of Coronadite from Middle Cambrian Manganese deposits at Wadi Dana, South Jordan. *American Journal of Applied Sciences*. 6(4): 576-581.

El-Hasan, T.; Al-Nawayseh, A.; and Lataifeh, M. (Submitted to Atmospheric Environment): Environmental magnetism: Relationship between heavy metals and magnetic properties in the soil of Sahab urban area.

Hamaiedah, H.; and **El-Hasan, T.** (Under construction): Chemical, mineological and grain analysis of the dry deposition generated from Al-Hisa phosphate mine and its environmental impact.

Manasrah, W., Hilat, I., and **EL-Hasan, T.** (Submitted to Environmental Geology): The influence of the wastewater treatment plant effluent output on the quality of Dam water and sediments, central Jordan.

Articles and Lectures:

- Lecturer on Environmental Impact Assessment (EIA).
- 10's of specialized cultural, geological and environmental related articles were published in many national newspapers and magazines.
- Several lectures about geological related issues in many high schools.

Conferences:

1. June 1996: Ore Resource Geology Annual Meeting, Tokyo.
2. June 1998: Ore Resource Geology Annual Meeting, Tokyo.
3. Dec. 1998: American Geophysical Union (AGU) Fall Meeting, San Francisco.
4. Sep. 7 – 20. 1999: Geochemical workshop “GEOCHIM’99”, Czech Republic, Prague.
5. Feb. 2000: The 5th Int. Conf. of the Geology of the Arab world, Egypt (GAW5), Cairo.
6. April. 2001: The 7th Jordanian Geological Conference, Amman, Jordan.
7. Oct., 2002: Workshop in Geology and Tourism, Yarmouk University, Irbid.
8. Feb., 2004: The 7th Int. Conf. of the Geology of the Arab world (GAW7), Cairo, Egypt.
9. April, 2004: The 8th International Conference for the Jordanian Geological Association, Amman, Jordan.
10. April, 2004: The First International Engineering Conference, Faculty of Engineering, Mu'tah Univ., Al-Karak, Jordan.
11. April 2007: The 9th international Jordanian Geological Conference. The Royal Cultural Center, Amman, Jordan.
12. Nov. 2007: Re-union conference, Ministry of Foreign Affairs, Tokyo, Japan.
13. Nov. 2007: The 4th Jordanian Conference on Environment. Mu'tah University, Al-Karak, Jordan.
14. May 2008: 1st Scientific week of the Faculty of Science / Mutah University.
15. November 2008: Synchrotron users meeting and JSPS school, Cairo, Egypt.
16. 4-6 March 2009: Int. Conf. On Materials in Jordan: Amman, Jordan

Associations Membership:

Association Name	Country	Duration
Jordanian Geological Association (JGA)	Jordan	Since 1987
Society of Ore Resource Geology	Japan	Since 1996
American Geophysical Union (AGU)	USA	1997-2000
Geochemical Society	USA	1997-1999
Jordanian – Japanese Academic Society (JJAS)	Jordan	2003

Taught Courses:

General Geology.
General Geology Labs.
Rocks and Minerals.
Earth Resources & Environment
Industrial Earth Resources
Advanced Industrial Earth Resources (Ph.D. Students)
Economic Geology
Natural Sciences.
Essentials of Environmental Sciences
Earth & Universe
Research Project
Environmental Impact Assessment (EIA)

Scholarships & Fellowships

- Monbusho Scholarship for Completing the Ph.D. Study – the Government of Japan, 1995 – 1999.
- DFG Consultative visit scholarship (Host institute: Erlangen University/Germany), June – September 2007.
- Sabbatical Leave at the Department of Geology and Mineralogy/ University of Jordan for the year (2005/2006).
- DFG preparatory short visit scholarship (Host institute: Erlangen University/Germany), June – 2006.

Scientific Grants

- Mu'tah University Scientific Research Grant, 2001/2002.
- Abdelhamed Shouman Foundation Grant For Scientific Research, 2001 – 2002.

Workshops & Training Courses

- JICA Advanced Training Course in The Evaluation System of National Research & Development Projects, Tokyo, 2005.
- Jordan representative in Re-union Conference of Monbushu graduates; Tokyo 11-17/2007.

Committees:

- Member of Prince Faisal center for Dead Sea Studies council, Mn'tah University, 2003.
- Member of the organizing committee of the 8th Jordanian Geological conference, 2004
- Member of many internal committee of the faculty of science, Mu'tah University.
- Member of committee for establishing Applied Geology Department, Mu'tah, Univ. 2000.
- Member of the committee for establishing Dead Sea Study Center, Mu'tah, University, 2002
- Member of the editorial board of Furasn Mu'tah Magazine, Mu'tah University, 2003.
- Member of the Social and Sport committee, Faculty of Science, Mu'tah University, 2004.
- Member of the Student behavior committee, Faculty of Science, Mu'tah University, 2004.
- Member of the Water and Research Study Center Council, Mu'tah University, 2004.
- Chairman of organizing committee for the 4th Jordanian conference on Environment, Mu'tah University, 2007.
- Advisor for the scientific club, Deanship of Students Affairs, Mu'tah University, 2007/2008.

- Member of the National Reference Sample Materials (RSM) project, 2007- 2008.
- Coordinator of the First Scientific Week of the Faculty of Science/ Mu'tah University, May 2008.
- Member of the national Synchrotron light users since 2004.
- Member of Science Faculty council / Mu'tah University, 2008/2009.
- Member of the scientific committee of the International Conference on Materials in Jordan, 4-6 March 2009, German –Jordanian University.
- Member of the Second Scientific Week of the Faculty of Science/ Mu'tah University, May 2009.

Supervision & Refereeing:

1. Supervision of several Master student theses in Geological and Environmental Sciences.
2. Refereeing Several Master theses.
3. Referee for several National and International journals.

Research Interest:

- e Geochemistry and genesis of ore deposits.
- e Environmental Impact Assessment
- n Mineral chemistry of ore mineral phases.
- i Standard Reference materials
- t Inorganic geochemistry of the Black Shales.
- n K/T boundary geochemical and isotopic investigations.
- / PGE geochemistry particularly those are Black shale - hosted.
- G Environmental implication of the geochemical exploration methods.
- n Environmental purification design using natural materials.
- nv Environmental Magnetism