

Name: Hisham A. Gahlan

Sex: Male

Date of Birth: 01/01/1976

Nationality: Egyptian

Current position: Assistant Professor in the Geology and Geophysics Department, College of Sciences, King Saud University, Riyadh 11451, Saudi Arabia.

Administrative positions: Academic Advisor of Geology;
Head of the Academic Affairs Unit, College of Science

Specialty: Mineralogy, Petrology and Mining Geology

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Fields of interest: "*Petrology and structure of igneous and metamorphic rocks, and the associated ore-deposits of economic value; Mantle petrology; Platinum Group Elements (PGE), Gold and Base Metals genesis, beneficiation and environmental impact; Geochemistry; Mineral exploration methods and programs, and mining industry".*

Education and Academic Records:

B.Sc. in Geology, June / 1997, Assiut University, Faculty of Science, Department of Geology, Assiut 71516, Egypt. (*General grade: Very Good*)

M.Sc. in Igneous and Metamorphic Petrology and the associated Ore-deposits of Economic Value, Nov. / 2003, Assiut University, Faculty of Science, Department of Geology, Assiut 71516, Egypt.

Ph.D. in Igneous and Metamorphic Petrology and the associated Ore-deposits of Economic Value, Sept. / 2006, Kanazawa University, Graduate School of Natural Science and Technology, Department of Earth Sciences, Kanazawa 920-1192, Japan.

Academic and Professional Experience:

Assistant Professor in the Geology and Geophysics Department, College of Sciences, King Saud University, Riyadh 11451, Saudi Arabia (from 2012–till now).

Regional Geological and Mining Consultant; and Chief of Mineral Exploration Team in the United Arabian Mining Company (**Manajem**), and the Khnaiguiyah Mining Company (**KMC**), Riyadh, Saudi Arabia (from 2011 to 2012).

Assistant Professor in the Department of Geology, Faculty of Science, Assiut University, Assiut 71516, Egypt (from 2007–till now).

Lecturer Assistant/ Researcher in the Department of Geology, Faculty of Science, Assiut University, Assiut 71516, Egypt (from 2006 to 2007).

Teaching Assistant/ Researcher in the Department of Earth Sciences, Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa 920-1192, Japan (from 2003 to 2006).

Lecturer Assistant/ Researcher Assistant in the Department of Geology, Faculty of Science, Assiut University, Assiut 71516, Egypt (during 2003).

Demonstrator in the Department of Geology, Faculty of Science, Assiut University, Assiut 71516, Egypt (from 1998 to 2003).

Teaching experience for the undergraduate and postgraduate students:

Mining Geology; Igneous Rocks; Metamorphic Rocks; Geotectonics; Ore-Petrology; Mineralogy; Optical Mineralogy; Internal Processes of the Earth; Geochemistry; Medical Geology; Volcanology; Field Geology; Geology of the Arabian-Nubian Shield; Physical Geology

Field Experience through: (Field Trips, Consultancy, and Overseas Research Projects):

Almost **19** years of hands-on international experience in the field of petrology, mineralogy and mining geology of igneous and metamorphic rocks in orogenic belts, and the associated ore deposits of economic value. The latter experience has been gained by overseas research through: the Eastern Desert of Egypt; the Anti-Atlas, Morocco; the Oman Mountains, UAE and Oman; the Japanese Alps, Hokkaido, Japan; the Salt Mountains and alkaline complexes, Belarus; and the Arabian Shield, Saudi Arabia (in ascending chronological order starting from **1997** till now).

Language Ability: (*Other than the Arabic language*)

English (Reading; Writing; Speaking and Listening) (Excellent)

French (Reading; Writing; Speaking and Listening) (Good)

Japanese (Reading; Speaking and Listening) (Good)

Faculty and Leadership Development Courses Experience:

- (1) Teaching, Learning and Researching Competency Courses
- (2) Management and Leadership Competency Courses
- (3) Group Communication and Interaction Competency Courses
- (4) Personal Competency Courses

Memberships:

Member of the: *Saudi Society for Geosciences; Geological Society of Egypt; Mineralogical Society of Egypt; Geological Society of Japan and the Journal of Mineralogical and Petrological Sciences (JMPS); International Center for Future and Strategic Studies*, Assiut University, Assiut, Egypt.

Scientific Projects and Research Groups:

Experienced the membership of seven (7) International Projects, and principle investigator (PI) of one (1) Research Group.

List of Selected Publications in Leading Periodicals:

- Gahlan H.A.**, Azer M.K., Asimow P., Al-Kahtany K. (2016) Late Ediacaran post-collisional A-type syenites with shoshonitic affinities, northern Arabian-Nubian Shield: a possible mantle-derived A-type magma. **Arabian Journal of Geosciences**, 9: 603. DOI 10.1007/s12517-016-2629-x
- Abdelfadil K.M., Asimow P., Azer M.K., **Gahlan H.A.** (2016) Genesis and petrology of Late Neoproterozoic pegmatites and aplites associated with the Taba metamorphic complex in southern Sinai, Egypt. **Geologica Acta**, Vol. 14, N° 3.
- Azer M.K., Obeid M.A., **Gahlan H.A.** (2016) Late Neoproterozoic layered mafic intrusion of arc-affinity in the Arabian-Nubian Shield: A case study from the Shahira layered mafic intrusion, southern Sinai, Egypt. **Geologica Acta**, Vol. 14, N° 3.
- Abu El-Rus M.A., Chazot G., Vannucci R., **Gahlan H.A.**, Boghdady G.Y., Paquette J.-L. (2016) Softening of sub-continental lithosphere prior rifting: Evidence from clinopyroxene chemistry in peridotite xenoliths from Natash volcanic province, SE Egypt. **Journal of Volcanology and Geothermal Research**. Online.
- Belkacim S., Gasquet D., Liégeois J.-P., Arai S., **Gahlan H.A.**, Ahmed H., Ishida Y., Ikenne M. (2016) The Ediacaran volcanic rocks and associated mafic dykes of the Ouarzazate Group (Anti-Atlas, Morocco): Clinopyroxene composition, whole-rock geochemistry and Sr-Nd isotopes constraints from the Ouzellarh-Siroua salient (Tifnoute valley). **Journal of African Earth Sciences**. Online.
- Chanouan L., Ikenne M., **Gahlan H.A.**, Arai S., Youbi N. (2016) Petrological characteristics of mantle xenoliths from the Azrou-Timahdite quaternary basalts, middle atlas, Morocco: A mineral chemistry perspective. **Journal of African Earth Sciences**. DOI: 10.1016/j.jafrearsci.2016.09.004.
- Gahlan H.**, Azer M., Khalil A.E.S. (2015) The Neoproterozoic Abu Dahr ophiolite, South Eastern Desert, Egypt: petrological characteristics and tectonomagmatic evolution. **Mineralogy and Petrology**, 109, 611–630.
- Gahlan H.**, Arai S., Almadani, S. (2015) Petrogenesis of carbonated meta-ultramafic lenses from the Neoproterozoic Heiani ophiolite, South Eastern Desert, Egypt: A natural analogue to CO₂ sequestration. **Journal of African Earth Sciences**, 102, 102–115.

- Ali K., Kröner A., Hegner E., Wong J., Li S-Q., **Gahlan H.**, Abu El Ela F. (2015) U–Pb zircon geochronology and Hf–Nd isotopic systematics of Wadi Beitan granitoid gneisses, South Eastern Desert, Egypt. **Gondwana Research**, **27** (2), 811–824.
- Azer M., Samuel M., Ali K., **Gahlan H.**, Stern R.J., Ren M. and Moussa H. (2013) Neoproterozoic ophiolitic peridotites along the Allaqi-Heiani Suture, South Eastern Desert, Egypt. **Mineralogy and Petrology**, **107**(5), 829–848.
- Gahlan H.**, Arai S., Abu El-Ela F. and Tamura A. (2012) Origin of Wehrlite Cumulates in the Moho Transition Zone of the Neoproterozoic Ras Salatit Ophiolite, Central Eastern Desert, Egypt: Crustal Wehrlites with Typical Mantle Characteristics. **Contributions to Mineralogy and Petrology**, **163** (2), 225–241. DOI: 10.1007/s00410-011-0669-5.
- Ali K., Azer M., **Gahlan H.**, Wilde S., Samuel M. and Stern R. (2010) Age constraints on the formation and emplacement of Neoproterozoic ophiolites along the Allaqi-Heiani Suture, South Eastern Desert of Egypt. **Gondwana Research**, **18** (4), 583–595.
- Gahlan H.** and Arai S. (2009) Carbonate-orthopyroxenite lenses from the Neoproterozoic Gerf ophiolite, South Eastern Desert, Egypt: The first record in the Arabian Nubian Shield ophiolites. **Journal of African Earth Sciences**, **53**, 70–82.
- Gahlan H.** and Arai S. (2007) Genesis of peculiarly zoned Co, Zn and Mn-rich chromian spinel in serpentinite of Bou-Azzer ophiolite, Anti-Atlas, Morocco. **Journal of Mineralogical and Petrological Sciences**, **102**, 69–85.
- Gahlan H.**, Arai S., Ahmed H., Ishida Y., Abdel-Aziz Y. and Rahimi A. (2006) Origin of magnetite veins in serpentinite from the Late Proterozoic Bou-Azzer ophiolite, Anti-Atlas, Morocco: An implication for mobility of iron during serpentinization. **Journal of African Earth Sciences**, **46**, 318–330.
- Ahmed A.A., Arai S., Abu El-Rus M.A., Malek A. and **Gahlan H.** (2005) Petrology and geochemistry of Wadi Shibani gneisses, Taiz, Yemen. Paper in: **The Fourth International Conference on the Geology of Africa**, Assiut, Egypt, **1**, 237–265.
- Ahmed A.A. and **Gahlan H.** (2005) The status of uncertain "Ophiolites" in the Eastern Desert of Egypt. Paper in: **The Fourth International Conference on the Geology of Africa**, Assiut, Egypt, **2**, 387–399.

International Conferences:

(**19** contributions between oral and poster presentations starting from 2005 till now).