

Curriculum Vitae

Personal details

Name: **Dr. Sardar Mohialdeen Hamad Ameen**

Family Name: Balaky

Title: **Professor**

Date and place of birth: 28/3/1972 Balakyan- Soran

Marital Status: married

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Date of first assignment in university: 6/11/2004

Place of recent work: Faculty of Science, Soran University

Job title: Lecturer (Professor in Sedimentology)

Education and qualification:

Type of diploma	University	College	Department	Graduation year	Country\ Governorate
Ph.D.	Salahaddin	Science	Geology	2013	Iraq-Erbil
M.Sc.	Salahaddin	Science	Geology	2004	Iraq-Erbil
B.Sc.	Salahaddin	Science	Geology	1994	Iraq-Erbil

Scientific titles attained:

Scientific title	Date of attainment
Professor	27/3/2019
Assistant Professor	26/3/2013
Lecturer	8/12/2007
Assistant Lecturer	7/12/2004

Assignments and posts:

Posts	Duration
Dean of Faculty of Science, Soran University	2/11/2014 - 21/12/2021
Rapporteur of Higher education of Geology Department, Salahaddin University	2013-30/10/2014
Rapporteur of Geology Department, Salahaddin University	2004-2009

Software:

Name of Program	Date of attainment
MS Word	Microsoft Office
MS Excel	Microsoft Office
MS Photoshop	Microsoft Office
Auto Cad	Mapping
Surfer	Mapping

Experiences

- 2004 -2009 Rapoteur of Geology Department, Salahaddin University
- 2005to 2009, Field Applications committee of Geology Department: for training the students studying of stratigraphy and relationships between beds and formations and assigning boundaries with drawing of geological map of study area, as well as the study of sedimentary igneous and metamorphic rock provenances at Zagros Thrust Zone, which is the only location of such Provenance in Iraq.
- 2004 Teaching as **Assistant Lecturer** in the applied General Geology, and Basin analysis in Department of Geology, College of Science, Salahaddin University.
- 2007 Teaching as **Lecturer** in stratigraphy, sedimentary rocks and Geology of Iraq in Department of Geology, College of Science, Salahaddin University.
- 2008 Training the students to how can they describe, sampling, and measuring the geologic formations in the field, and drawing geologic cross sections, and writing the geologic reports.
- 2009-2012 Ph.D. Student in Geology Department, College of Science, Salahaddin University-Erbil.
- 2013 Teaching **Assistant Professor** in Sedimentology, Basin analysis, Sedimentary petrology and Petroleum systems in Geology Department, College of Science, Salahaddin University.
- 2019 Teaching **Professor** in Basin analysis and sequence stratigraphy in Petroleum Geosciences, Faculty of Science, Soran University

Languages

- Kurdish (Mother Lang.)
- Arabic (Excellent)
- English (Very good)
- Persian (Medium)

Publications

The following scientific researches are done and published by me:

- 1- Sherwani, G. H. and **Balaky, S. M.** 2006. Black Chert an interesting Petrographic component within the Upper part of Sargelu formation, North and Northeastern Iraqi Kurdistan region. *Iraqi Bulletin of Geology and Mining Vol. 2, No. 1, pp 77 – 88.*
- 2- Sherwani, G. H., Naqishbandi, S. F. and **Balaky, S. M.** 2006. Microfacies and environmental analysis of Harur Formation (Early Carboniferous)-Northern Iraqi Kurdistan. *Iraqi Bulletin of Geology and Mining Vol. 2, No. 2, pp 39 – 55.*
- 3- **Balaky, S. M.**, 2006. Diagenetic History of Harur Formation (Early Carboniferous)-Northern Iraqi Kurdistan. *Iraqi Bulletin of Geology and Mining Vol. 2, No. 2, pp 83 – 102.*
- 4- **Balaky, S. M.**, 2008. Sedimentology and Stratigraphy of Harur Formation Early Carboniferous (Tournaisian)- Northern Iraq- Kurdistan Region. *Zanko Journal, Salahaddin University-Erbil. Vol. 20.*
- 5- **Balaky, S. M.**, 2008. Facies Associations and Depositional Environments of Naokelekan Formation (Late Jurassic), Northeastern Iraq-Kurdistan region. *Zanko Journal, Salahaddin University-Erbil. Vol. 21.*
- 6- **Balaky, S. M.** and Ibrahim, D. M., 2010. Stratigraphy, Facies analysis, and Source Rock Evaluation of Chia Gara Formation (M. Tithonian-Berriasian), Northeastern Iraq-Kurdistan Region. *Zanko Journal, Salahaddin University-Erbil. Vol. 22.*
- 7- **Balaky, S. M.**, 2014. Sequence Stratigraphic analysis of Naokelekan Formation (Late Jurassic), Barsarin area, Northeastern Iraq- Kurdistan region. *Arabian Journal of Geosciences, Volume 8, Issue 8, pp 5869-5878.*
- 8- Abdula, R. A., **Balaky, S. M.**, Nourmohamadi, M.S. and Piroui, M. 2015, Microfacies Analysis and Depositional Environment of the Sargelu Formation (Middle Jurassic) from Kurdistan Region, Northern Iraq. *Donnish Journal of Geology And Mining Research, Vol 1(1) pp. 001-026.*
- 9- **Balaky, S. M.**, Swrdashy, A. M. and Mamaseni, W. J., 2016. Permian-Triassic lithostratigraphic study in the Northern Thrust Zone (Ora), Iraqi Kurdistan region. *Arabian Journal of Geosciences, Vol. 9 Issue 5.*
- 10- **Balaky, S. M.**, Asaad, I. Sh. and Al-Juboury, A. I., 2016. Facies analysis and Sequence Stratigraphy of Kometan Formation (Upper Turonian- Lower Campanian), in the Kometan Village, Imbricated Zone - Iraqi Kurdistan Region. *Arabian Journal of Geosciences, Vol. 9 Issue 20.*
- 11- **Balaky, S. M.**, Abdula, R. A. and Perot, E. M., 2016. Facies Analysis and Depositional Environment of Garagu Formation (Valanginian- Hauterivian) in Gara Mountain, Gali Garagu, Sarsang District, Iraqi Kurdistan Region. *Journal of Zankoy Sulaimani, Special Issue, Geo Kurdistan II (51-68).*
- 12- **Balaky, S. M** and Tamar-Agha, M. Y., 2017. Sedimentology and Stratigraphy of Geli Khana Formation (Anisian- Ladinian), a contourite depositional system in the northeastern passive margin of Arabian Plate, northern Iraq-Kurdistan region, *Arabian Journal of Geosciences, published online, Vol.10, Issue 5*

- 13- Abdula, R.A., **Balaky, S.M.** and Miran, A. S., 2018. Sedimentology of Shiranish Formation in Mergasur Area, Iraqi Kurdistan. *Bulletin of the Geological Society of Malaysia*, Volume 65, pp. 37 – 43
- 14- Assad, I. Sh. and **Balaky, S.M.**, 2018. Microfacies analysis and Depositional Environment of Khurmala Formation (Paleocene-Lower Eocene), in the Zenta Village, Aqra District, Kurdistan Region, Iraq. *Iraqi Bulletin of Geology and Mining-Baghdad*. **Vol.14, No.2, pp. 1-15.**
- 15- **Balaky, S.M.**, Tamar-Agha, M. Y. and Naqishbandi, S.F. 2020. The sedimentology and sequence stratigraphy of contourites and associated rocks at the northeastern passive margin of Gondwana during the Early Triassic (Induan - Mirga Mir Formation), Iraqi Kurdistan. *Arabian Journal of Geosciences*, Vol.13, Issue 22.
- 16- Assad, I. Sh. and **Balaky, S.M.**, 2020. Petrography and diagenetic history of the Kometan Formation (Upper Cretaceous) in the Imbricated zone, Iraqi Kurdistan region. (*Bulletin of the Geological Society of Malaysia*), Volume 70, November 2020, pp. 195 – 208
- 17- Assad, I. Sh. and **Balaky, S.M.**, 2021. Geotourism potential of Akre area, Duhok Governorate, Iraqi Kurdistan region. (*Bulletin of the Geological Society of Malaysia*), Volum. 71 May 2021. pp. 99-112.
- 18- Sajadi, S. M., Kadir, D. H., **Balaky, S.M.** and Perot, E. M. 2021, An Eco - friendly nanocatalyst for removal of some poisonous environmental pollutions and statistically evaluation of its performance. *Surface and Interfaces Journal, Elsevier*. Vol. 23. available online since 31/12/2020 <https://doi.org/10.1016/j.surfin.2020.100908>.
- 19- **Balaky, S. M.** and Mahmud. K. S., 2021. Facies associations and sequence stratigraphy of the Middle - Late Eocene Pila Spi Formation in the High Folded Zone, Kurdistan region- Northeastern Iraq. (*Arabian Journal of Geosciences*, vol. 14, Issue 6, <https://doi.org/10.1007/s12517-021-06847-4>
- 20- Asaad, I. Sh., **Balaky, S. M.**, Hasan, G.F. and Aswad, M. Kh., 2021, Sedimentology of the Baluti Formation (Late Triassic) in the Warte area, northeastern Iraqi Kurdistan region. (*Geological Journal*, Vol. 56, Issue 8, pp, 3923-4428).
- 21- Abdullah, A. O. and **Balaky, S. M.**, 2022. Stratigraphy and Mineralogy of Balambo Formation (Aptian - Cenomanian) in Imbrication Zone, Iraqi Kurdistan region. *Tikrit Journal of Pure Science* Vol. 27 (5).
- 22- **Balaky, S.M.**, Al-Dabagh, M.M., Asaad, Sh I., Tamar-Agha, M., Ali, S.M., Radwan, E.A., 2023. Sedimentological and petrophysical heterogeneities controls on reservoir characterization of the Upper Triassic shallow marine carbonate Kurra Chine Formation, Northern Iraq: integration of outcrop and subsurface data. *Marine and Petroleum Geology*, 149, 106085 <https://doi.org/10.1016/j.marpetgeo.2022.106085>.
- 23- Aqrabi, A.M., Asaad, I. Sh., Khudhur, H. A. and, **Balaky, S.M.** 2023. Microfacies and Depositional Environment of Jeribe Formation (Middle Miocene) in the selected sections in Bekhair anticline, Northwestern Kurdistan region of Iraq (*Kuwait Journal of Science*, (50), pp. 359-367).

- 24- Saleh, S. A., Tamar- Agha, M.Y. and **Balaky, S.M.**, 2023. Petrography, Mineralogy and Diagenetic History of the Sarmord Formation (Valanginian-Aptian) in selected areas, northeastern Iraq. *Iraqi Journal of Science*, Vol. 64, No. 5, pp: 2306-2324.
- 25- Saleh, S. A., Tamar- Agha, M.Y. and **Balaky, S.M.**, 2023. Depositional Environment of the Sarmord Formation (Valanginian-Aptian) in selected areas, northeastern Iraq. *Iraqi Journal of Science*, Vol. 64, No. 7, pp: 4307-4323.
- 26- **Balaky, S.M.**, Hassan, G.F., Othman, A., Delizy, B.A., and Assad, I. Sh., 2023. Facies Association and Depositional Environment of Sarmord Formation (Valanginian-Aptian), Kurdistan Region- Northeastern Iraq. *Iraqi Geological Journal*. Vol.56, No. 2F, pp 132-147.
- 27- Al-Haj, M. A., Asaad, I. Sh., Al-Taee, N.T., and **Balaky, S.M.**, 2024. Depositional Model of Early -Middle Turonian deep water Gulneri Formation, In selected outcrop and subsurface sections in the northern Iraq. *Iraqi Geological Journal*. Vol.57, No. 1B, pp 26-39.
- 28- Delizy, B.A., Shingaly, W.S., and **Balaky, S.M.**, 2024. Dolomitization Model of the Lower Jurassic Sarki Formation depending on the stable Carbon and Oxygen Isotopes and Petrographic analysis, Northeastern Iraq-Kurdistan region. *Jordanian Journal of Earth Science*, Vol. 15, No. 3, 174-182 pp.
- 29- Asaad, I. Sh., Ahmad, A. M., and **Balaky, S.M.**, 2024. Lithostratigraphy and microfacies analysis of Middle-Late Eocene Pila Spi Formation in Sheikh Turab section, Safin anticline, Kurdistan region of Iraq. *Bulletin dela Georgica Mexicana Journal*, Vol. 76, No. 3.1-18pp.
- 30- **Balaky, S. M.**, Tamar-Agha, M, Y., Asaad, I. Sh. and Radwan A. E., 2025. Sedimentology of Lower Triassic (Induan stage) Mixed carbonate-siliciclastic succession of an epeiric carbonate ramp at the northeastern passive margin of Arabian Plate, Northern Iraq- Kurdistan region. *Geological Journal*, Vol.60, Issue 6.
- 31- Delizy, B.A., **Balaky, S. M.**, Assad, I. Sh., and Hassan, G.F., 2025. Facies Analysis and Depositional Environment of Lower Jurassic (Sehkaniyan Formation), Northeastern Iraq- Kurdistan Region. *Eurasian J. Sci. Eng.* Vol. 11(2), pp. 1-15.
- 32- Sharazwri, A.O., Delizy, B.A., **Balaky, S.M.**, Assad, I. Sh., and Hassan, G.F., 2025. Biostratigraphy and depositional setting of the carbonate unit within the upper part of the Maastrichtian Tanjero Formation in the Khanaqa Village, Imbrication Zone, NE Iraq- Kurdistan region. *GEOLOŠKI ANALI BALKANSKOGA POLUOSTRVA*, online available <https://doi.org/10.2298/GABP250502009S>
- 33- Pirot, EM., Edilbi, ANF., Mamash, MMP., Delizy, BA., **Balaky, SM.**, Salih,NAS., Khojasteh, H., 2025. Geochemical characteristics of Upper Cretaceous Asphaltene from bitumen seeps in the Kurdistan region, northern Iraq: Insights from trace metals and Fourier Transform Infrared (FTIR) spectroscopy, *Ore and Energy Resource Geology* (19) Available online, <https://doi.org/10.1016/j.oreoa.2025.100117>
- 34- Asaad, I. Sh., Omar, M. F., and **Balaky, S.M.**, 2026. Relative age determination of the sarki Formation in the northeastern margin of the Arabian plate: Reveled by foraminifera and dasycladacean algae. *Bulletin dela Geologica Mexicana Journal*. Vol. 78, No. .

- 35- Asaad, I. Sh., Omar, M. F., **Balaky, S.M.**, Brunarska, I., and Radwan, E.A. 2026. Multi-Stage Dolomitization of Late Triassic–Early Jurassic Carbonates in the Kurdistan Region, Northeastern Arabian Plate: Insights from Cathodoluminescence, SEM–EDX, and Stable-Isotope Data. *Journal of sedimentary Geology* (published online).
- 36- Hamid, A., **Balaky, S.M.**, Salae, A.T. 2025. Sedimentary Facies and Stable Isotope Evidence of the Middle Miocene Fatha Formation, the Zagros Foreland Basin, Kurdistan Region, NE-Iraq: Insights into the Icehouse - Warmer transition. Submitted to *Iraqi Geological Journal* for publication. Submitted to *Iraqi Geological Journal* for publication.
- 37- Pasha, S.M., **Balaky, S.M.**, Abid, A.A. 2026. Biostratigraphy of Shiranish Formation from selected sections in the Kurdistan region, Northern Iraq. Submitted to *Geological Journal* for publication (Under review).
- 38- Pasha, S.M., **Balaky, S.M.**, Abid, A.A. 2026. Depositional Environments of Shiranish Formation: Insights from the Microfacies analysis and Stable Carbon and Oxygen Isotopes, Kurdistan region, Northern Iraq. Submitted to *Iraqi National Journal* for publication (Under review).
- 39- Asaad, I. Sh., Omar, M. F., **Balaky, S.M.** and Radwan, E.A. 2026. First Evidence of the Toarcian Oceanic Anoxic Event in the Northeastern Arabian Plate margin (Iraqi Kurdistan Region): Insights from Stable Carbon Isotopes and Petrography. Submitted to *sedimentary research Journal* for publication (Under review).
- 40- **Balaky, S.M.**, Abdullah, A.O., Delizy, B.A., Assad, I. Sh. and Radwan, A.E., 2026. Calciturbidite and Contourite Interactions in a Deep-Water Carbonate System: Evidence from the Balambo Formation, Kurdistan region, NE Iraq, submitted to *geological Journal* for publication (Under review).

Post graduated supervised research titles:

- 1- Sedimentology and Stratigraphy of Kometan Formation (Upper Turonian- Lower Campanian), in the Kometan Village - Imbricated Zone, Iraqi Kurdistan Region. (*Irfan Sh. Asaad, Higher Diploma Dissertation, 2010*).
- 2- Sedimentology and Stratigraphy of Pila Spi Formation (Middle-Upper Eocene) in selected sections in Erbil Governorates, Iraqi Kurdistan Region. (*Kurdistan Saman Mahmoud, M.Sc. Thesis 2013*).
- 3- Geochemistry and Sequence Stratigraphy of Naokelekan and Barsarin formations (Upper Jurassic) , Warte area , Iraqi Kurdistan Region. (*Goran Fakher Hassan, MSc. Collaboration with Urmia University-Iran. October, 2021*).
- 4- Sedimentology of Sarmord Formation, Northern Iraq. (*Saafa Adib Salah, Ph.D. dissertation, collaboration with Baghdad University, 2021*).

- 5- Sedimentology and Stratigraphy of Balambo Formation (Lower Cretaceous) in two different tectonic zones, Zagros Foreland Basin, Kurdistan Region, Northeastern Iraq. (*Aheen O. Abdullah, MS. project from Salahaddin University, 2021*).
- 6- Sedimentology and Stratigraphy of Lower Jurassic succession in selected sections from Iraqi Kurdistan region. (*Irfan Sh. Asaad, Ph.D. Project from Salahaddin University*)
- 7- Sedimentology and Stratigraphy of Lower Fars (Fatha) Formation (Middle Miocene) in selected sections from Iraqi Kurdistan region. (*Avin Hameed, Ph.D. Project Soran University*)
- 8- Biostratigraphy and Sedimentology of Shiranish Formation in selected sections from Iraqi Kurdistan region. (*Sazan Maghded, Ph.D. Project from Salahaddin University*)

Some of under graduated supervised research titles:

- Sedimentology of Harur limestone Formation (Early Carboniferous), Northern Thrust Zone.
- Diagenetic History of Sargelu Formation (Middle Jurassic), NE Iraqi Kurdistan Region.
- Stratigraphic Relationship of Upper Jurassic succession in Barsarin area NE. Iraqi Kurdistan region.
- Diagenetic processes affecting carbonate rocks.
- Facies and environmental analysis of Sargelu Formation (Middle Jurassic) in Zarwa area.
- Facies analysis and Depositional Environment of Kurra Chine Formation (Upper Triassic) in the Northern Thrust Zone, Iraqi Kurdistan Region.
- Diagenetic History of Kurra Chine Formation (Upper Triassic) in the Northern Thrust Zone, Iraqi Kurdistan Region.

Scientific contribution (Applied)

- Teaching theoretical applied geology in Geology Department.
- Teaching Geology of Iraq, Basin analysis, sedimentary rocks and Stratigraphy of Northern Iraq (Kurdistan Region).
- Training and preparing the students for field Geology.
- Training the student to drawing geologic cross sections.
- Training for the Kurdistan Geological survey staffs for making thin sections.