



## السيرة الذاتية

الاسم: صفية محمد على حسن

تاريخ الميلاد: ١٩٧٣/١/٥

الجنسية: مصرية

الحالة الاجتماعية: متزوجة

العنوان: طريق الحى الايطالى - حدائق اكتوبر - الجيزه

التليفون: ٠١٠٠٨٩٦٦٧٦٧

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### الشهادات العلمية:

- بكالوريوس العلوم فى الجيولوجيا, كلية العلوم جامعة القاهرة فرع بنى سويف ١٩٩٥
- ماجستير فى جيولوجيا الرسوبية والترسيب, كلية العلوم جامعة القاهرة ٢٠٠٥
- دكتوراه فى جيولوجيا الرسوبية والترسيب كلية العلوم جامعة القاهرة ٢٠١١

### المهام بالكلية

- تدريس العديد من المقررات العلمية لمختلف الفرق الدراسية مثل الصخور الرسوبية, الصخور الطباقية المتقدمة و بيئات الترسيب والسحنات.

### وظيفة سابقة:

- قائم باعمال رئيس قسم الثروة المعدنية بكلية علوم الارض فى فترة ٢٠٢١/٨ الى ٢٠٢٢/٧

### الوظيفة الحالية

- استاذ مساعد بقسم الثروة المعدنية, كلية علوم الارض جامعة بنى سويف و وكيل الكلية لشئون خدمة المجتمع وتنمية البيئة

الاهتمامات الرئيسية:

أهتم بدراسة البيئات القديمة مثل الدلتا والاستورى والانهار والبحيرات والتتابع الطباقى الخاص بها والسحنات المكونة لهم، والصخور الرسوبية بانواعها ودراسة علم الطبقات واحتساب العمر الجيولوجى للصخور، ودراسة عمليات ما بعد الترسيب للصخور الفتاتية والغير فتاتية. بالإضافة الى دراسة البتروجرافية للصخور تحت الميكروسكوب سواء قتاتية او غير فتاتية لكل الاعمار بالعمود الجيولوجى.

المؤتمرات وورش العمل:

**S. Hassan, R.J.Steel, A. El-Barkooky and M.Hamdan:** Stacked, Lower Miocene tide dominated estuaries, Northwestern Egypt. Potsdam, Germany 26-30 November 2012, Geo-Future Inkaba yeAfrica and Beyond 9<sup>th</sup> Annual Workshop.

J.A. Mondon, M.J.de Wit, B. Linol, **S. Hassan:** A re-investigation of the lithostratigraphy, depositional history, structure and tectonics of the Seychelles Continental shelf. Potsdam, Germany 26-30 November 2012, Geo-Future Inkaba yeAfrica and Beyond 9<sup>th</sup> Annual Workshop.

Safiya Hassan, Ron J. Steel, Ahmed El-Barkooky, Mohamed Hamdam: Stacked, Lower Miocene Tide Dominated Estuaries, Northwestern Egypt. 23 - 28 June 2012, VI<sup>th</sup> International Sandy Beach Symposium (Poster and five minutes oral presentation).

**Hassan, Safiya M.;** Christie-Blick, Nicholas; Steel, Ronald; El Barkooky, Ahmed; Hamdan, Mohamed: Lower Miocene Sequence Development in Northwestern Egypt and the U.S. Mid-Atlantic Continental Margin. April 22-25, 2012, Long Beach, California (Abstract).

Cornel Olariu, Ronald J. STEEL and **Safiya M. HASSAN:** Grain Size Distribution In Fluvial Dominated Delta Front Deposits; Case Study From The Upper Cretaceous Panther Tongue, Utah, USA. April 22-25, 2012, Long Beach, California (Poster).

Cornel Olariu, Ronald J. STEEL and **Safiya M. HASSAN:** Grain Size Distribution In Fluvial Dominated Delta Front Deposits; Case Study From The Upper Cretaceous Panther Tongue, Utah, USA. 3rd International Symposium on the Geology of the Black Sea Region, 1-10 October 2011, Bucharest, Romania.

**Safiya Hassan, Ron J. Steel, Ahmed El-Barkooky, Mohamed Hamdam, Ahmed Abu Khadrah, Gouda Abdel Gawad:** Presented Abstract 'Stacked, Lower Miocene-Burdigalian Tide Dominated Estuaries, Western Desert, Egypt'. In AAPG Conference (2011), Houston TX.

Abdel Gawad, M. K., Miller, E. R., Hamdan, M. A., Ali, S. M., El-Sharkawy, M.A., El-Barkooky, A.: Stratigraphic Distribution of Fossil mammals in the Early

Miocene Moghra Formation, North Western Desert, Egypt, (Abstract, 10th International Conference on the Geology of the Arab World , GAW10, 2010). Clementz M, Miller ER, El-Barkooky A, Hamdan M, Abdel Gawad M, **Hassan Safia** Mohamed Ali. Paleoenvironmental reconstruction of the Old World monkey locality; Wadi Moghra, early Miocene, Egypt. Am J Phys Anthropol 50:82A. (Poster, 2010).

A.El-Barkooky, M. Hamdan, **S. Hassan**, N. Christie-Blick, S. Goldstein, Y. Cai: Presented Abstract Sequence Stratigraphy of the Lower Miocene Moghra Formation in the Qattara Depression, North Western Desert, Egypt. In AAPG Conference (2009).

“High-resolution sequence stratigraphy of stacked incised valley fills: an Example from Upper Paleozoic outcrop of Aheimer formation, Western side Of The Gulf Of Suez, Egypt, Geology of Assiut Conference (Presented abstract, 2005).

### بعض الابحاث المنشورة:

Safiya, M. Hassan (Under Review): Sedimentology of Alluvial Fan Deposits Near Nature's Valley, South Africa. Journal of African Earth Sciences.

Safiya M. Hassan and Callum (Under Review): Petrography and Depositional Environments of Alexandria Formation, Algoa Basin, South Africa. Journal of African Earth Sciences.

Mohamed A. Hamdan, Giulio Lucarini, Maria Cristina Tomassetti, Giuseppina Mutri, Walid Salama, Safiya M. Hassan, Barbara E. Barich (2020, Accepted): Source of Pigments of the Holocene Wadi Sura Paintings, Gilf Kebir, Western Desert (Egypt), Archaeological Review, African.

Hamdan, M. A., Flower, R.J., Hassan, F.A., and Hassan, S. M. (2020): The Holocene history of the Faiyum Lake (Egypt) based on sediment characteristics, diatoms and ostracods content. Journal of Great Lakes Research.

Georgios L. Georgalis, Mohamed K. Abdel Gawad, Safiya M. Hassan, Ahmed N. El-Barkooky, Mohamed A. Hamdan (2020): Oldest co-occurrence of *Varanus* and *Python* from Africa—first record of squamates from the early Miocene of Moghra Formation, Western Desert, Egypt. Paleontology and Evolutionary Science. Published May 22, 2020

Ahmed S. A. A. Abu Sharib, Ali Q. Selim, Mohamed M. Abdel Fattah, Safiya M. Hassan, and Ioan V. Sanislav (2019) : Thermal Alteration of Organic Matter in the Contact of A Rift-Related Basaltic Dyke: An Example From The Black Limestone, Wadi Matulla, West Central Sinai, Egypt.

Ellen R. Miller, Gregg F. Gunnell, Mohamed Abdel Gawad, Mohamed Hamdan, Ahmed N. El-Barkooky, Mark T. Clementz, and Safiya M. Hassan (2014): Anthracotheres From Wadi Moghra, Egypt. Journal of Paleontology, 88 (5):967-981.

Safiya M. Hassan, Ronald J. Steel, Ahmed El Barkooky, Mohamed Hamdan, Cornel Olariu, Mark. A. Helper (2012): Stacked, Lower Miocene tide-dominated estuaries, Western Desert, Egypt. Sedimentary Geology, 282, 241-255.

Miller ER, Benefit BR, McCrossin ML, Plavcan JM, Leakey MG, El-Barkooky AN, Hamdan MA, Abdel Gawad MK, Hassan SM, Simons EL (2009): Systematics of early and middle Miocene Old World monkeys. J. Hum. Evol., 57(3):195-211.

Abou Khadra, A. M., El-Barkooky, A.N., Gharieb, S. E. and Hassan, S. M., (2011): Sedimentological Studies on The Aheimer Formation, Western Side of The Gulf of Suez, Egypt. Annals of Egyptian Geological survey, XXX11.

### كتب منشورة:

Upper Palaeozoic Stratigraphic Evolution and Sea-Level Change, Examples: Western Side of the Gulf of Suez (2012)

<http://www.amazon.com/Palaeozoic-Stratigraphic-Evolution-Sea-Level-Change/dp/3659295973>

Sequence Stratigraphy of the Lower Miocene Moghra Formation in the Qattara Depression, North Western Desert, Egypt (2013), (Springer International Ag publishing, ISBN 978-3-319-00329-0).

<http://www.springer.com/earth+sciences+and+geography/geology/book/978-3-319-00329-0>

### الإشراف على الرسائل العلمية:

**2017**

Geoenvironmental Studies on Soils from North Western Desert, Egypt. Doctor of Philosophy (PhD) in Geology 2017 by **El-Shawadfi, Taha Moustafa Mohamad**

### مشاريع بحثية بجامعة نيسلون مانديلا بجنوب أفريقيا ٢٠١٣:

1- The interplay of salt and fresh water in the coastal zone between Cape St Francis and Port Alfred and its effects on groundwater quality and availability in the area.

This is research proposal relating to NMMU RTG grant from Geosciences Department.

Applicant: Prof Daniel MIKEŠ, Marine Geologist/Sedimentologist, Associate Professor Geoscience, Coastal and Marine Research Unit, Geology Division, Geosciences Department, Nelson Mandela Metropolitan University Collaborators (staff): Mrs Zoe George (Geohydrologist), Dr Safiya Hassan (Sedimentologist) Prof Eileen Campbell (Botanist), Prof Maarten de WIT (Earth Stewardship Scientist) Zanele Hobongwana (Geology Hon student), Ms Emang Ntilhaile (Geology HON student) and Ms Jaclyn Smith (Geology Hon student).

2- Structure and facies analysis of the Enon sequences near Nature's Valley and the Biton-Keurbooms Rivers, Plettenberg Bay.

- 3- Sedimentary facies and chronostratigraphy of Sundays River and Alexandria Formations in Algoa Basin, Easter Cape, Port Elizabeth, South Africa.
- 4- Nature's Valley Research (Observations and discussions close to Nature's Valley and Bitou River Along the coast from Port Elizabeth to George (and beyond) a wide, flat marine-cut platform traverses across sub-vertical and folded Table Mountain Group (TMG) quartzites and associated sandstones).

الإشراف على كورسات حقلية بجامعة نيلسون مانديلا بجنوب أفريقيا:

- 3 June 2014 NMMU honours students at NMMU to Hankey area and *Utinage* city to compare between Kirkwood Formation in Algoa Basin and Gamtoos Basin, Eastern Cape, South Africa.
- 10 May 2014: NMMU undergraduate Geology students (module first year, GGL 123) in the field for one day to Sardinia bay, Eastern Cape, South Africa.
- 29 September – 06 October 2012: Geoscience Department, Nelson Mandela Metropolitan University, 2012, including teaching field sedimentology, stratigraphy, and creating and advising a field course for NMMU undergraduate Geology students in the field for up to 10 days in Geology major field requirement.

	start	stop	geology
Sat-29-Sep	Port Elizabeth	Plettenberg Bay	Uitenhage Group, Cape Supergroup
Sun-30-Sep	Plettenberg Bay	Plettenberg Bay	Mesozoic Robberg formation and quaternary
Mon-01-Oct	Plettenberg Bay	Plettenberg Bay	Mesozoic Robberg formation
Tue-02-Oct	Plettenberg Bay	George	pre-Cape Kaaimans Formation and quaternary
Wed-03-Oct	George	Victoria Bay	George granites and the pre-Cape Kaaimans Formation
Thu-04-Oct	George	Eagles Nest	Cape Supergroup
Fri-05-Oct	Eagles Nest	Uniondale	Cape Supergroup
Sat-06-Oct	Eagles Nest	Port Elizabeth	Cape Supergroup

كورسات تم تدريسها بجامعة نيلسون مانديلا بجنوب أفريقيا (٢٠١٢ و ٢٠١٣):

**2014**

I am teaching course in the Physical Geology (GGL123), NMMU (2014) for first year undergraduate students (13 students). Included a series of classroom lectures, field and lab design, individual tutoring and grading/assessment. (completed with high percentage for students between 70 to 81)

**2012**

1-I taught one week an intensive sequence stratigraphy course (GGL302), NMMU May (2013) for third year undergraduate students

(22 students). This course included a series of classroom lectures, and lab exercises, individual tutoring and grading/assessment.

2-I taught two weeks an intensive sedimentology and stratigraphy course in the sedimentary and petroleum section of Economic geology (GGL304), NMMU (2012) for third year undergraduate students (13 students). Included a series of classroom lectures, field and lab design, individual tutoring and grading/assessment. In addition to my teaching responsibilities, I have enjoyed the opportunity to collaborate with other NMMU honours and master students, to contribute to independent student research projects (specifically Jean Luc A. Mondon, Master Student).

كورسات تم حضورها في جامعة حاكسون اسكول بتكساس وجامعة كولمبيا في امريكا :

#### **Graduated courses completed, fall, 2007, Columbia University**

- Attending Course Sedimentary Geology (EESC W4223x/y) of **Professor, Nicholas Christie-Blick, Columbia University.**

#### **Graduated courses completed, Spring, 2009, And Fall, 2009, Texas University At Austin**

- **Attending Courses**
- 1- (09SP) Environmental Isotope Geochem (26950).
- 2- (09SP) Sedimentary Basin Analysis (26905).
- 3- (09SP) Sequence Stratigraphy (26880).
- 4-(09SP) Morphology of the Vertebrate Skeleton.
- 5- (09F) Petrog of Carbonate Evaporite (27310).
- 6- (10SP) Gis & Gps Applics in Earth Sci (26885).
- 7- (09F) Clastic Depositional Systems (27300).

#### خبرات معملية:

- More than 15 years expertise in:  
Thin section investigation using polarizing microscope,  
Heavy mineral separation,  
Macrofossil identification &  
Mechanical analysis of sedimentary rocks.
- Three months expertise in Isotope Geochemistry Lab at Lamont -Doherty Earth Observatory, Columbia University, under host Advisor, Professor (Dr. Steven L. Goldstein, Geochemistry).
- Three months grain size analysis in lab of Jackson School, Austin, Texas, under host Advisor, Professor (Dr. Ronald Steel, chair of the department).