

**SURNAME:** SALEM**FIRST NAME(S):** ALAA MOHAMED KAMEL**Civil Status:** married (2 children: Sarah 24, Mohamed 21)**Languages:** Arabic (mother tongue), English (excellent proficiency), and some Deutsch**Affiliation and official address:** Professor – Vice Dean for Community Service & Environmental Development

***Office:** Faculty of Science
Kafrelsheikh University
P.O. Box 33516 Kafrelsheikh,
Egypt
Fax: 002047-3215175
E-mail: alaa.salem@sci.kfs.edu.eg

Home: 38 Al-Alphy Street
Tanta 31111, Egypt
Tel: 002040-3339420
Mobile : 002012-22515807

*For correspondence, please use office address

Date and place of birth: 27 September, 1960, Tanta, Egypt**Nationality:** EGYPTIAN**Education (degrees, dates, universities)**

- 1) Ph.D. Degree, 1995: Sandwich Programme (Tanta University, Egypt and University of Texas at Austin, USA)
- 2) M.Sc. Degree, 1989: Faculty of Science, Tanta University, Egypt
- 3) B.Sc. Degree, 1983: Faculty of Science, Tanta University, Egypt

Career/Employment (employers, positions and dates)

- May 2016 – Now: Professor, Vice Dean for Community Service & Environmental Development, Faculty of Science, Kafrelsheikh University, Egypt
- June 2015 – May 2016: Professor, Vice Dean for Education & Student Affairs, Faculty of Science, Kafrelsheikh University, Egypt.
- Dec. 2011-Dec. 2014: Professor, Vice Dean for Graduate Studies and Research, Faculty of Science, Kafrelsheikh University, Egypt
- Feb. 2010-Dec. 2011: Professor and Head of Geology Department, Faculty of Science, Kafrelsheikh University, Egypt
- 2001- 2010: Associate Professor, Tanta University, Egypt, Now Kafrelsheikh University
- 1998-2001: Assistant Professor, Tanta University, Egypt
- 1997-1998: Postdoctoral fellow in Uppsala University, Sweden
- 1995-1997: Assistant Professor, Tanta University, Egypt
- 1994-1995: Assistant lecturer, Tanta University, Egypt
- 1992-1994: Ph.D. Position in the University of Texas at Austin, USA
- 1989-1992: Assistant lecturer, Tanta University, Egypt
- 1984-1989: Research Assistant, Tanta University, Egypt

Specialization

- **Main field:** Sedimentary and Environmental Geology
- **Other fields:** Evolution of Oil and Gas Reservoirs – Evolution of Coastal Wetlands

Computer experience: Excellent experience with the following certificates:

1. International Computer Driving Licence (ICDL), issued from the UNESCO Cairo.
2. Creating www web pages, issued from the University of Durham, UK.
3. Writing accessible web sites, issued from the University of Durham, UK.

Honours and Awards

1. University Incentive Award in the field of Environmental Sciences, April 2009
2. Best International Publishing Awards for the successive years from 2009-2015 issued from Kafrelsheikh University
3. Soliman's award for the best 1995's Ph.D thesis issued from the Sedimentological Society of Egypt
4. Professional Representative (Focal Point) of The European's Seventh Research Framework Programme (FP7, 2007-2013) at Kafrelsheikh University.
5. National Correspondent of the International Association of Sedimentologists (IAS) (2008 – 2010)

INTERNATIONAL EXPERIENCES**Scholarships & Fellowships:**

1. Post doctoral visit in East China Normal University, China (October-November, 2008).
2. Post doctoral visit in East China Normal University, China (May-June, 2007).
3. Post doctoral visit in Uppsala University, Sweden (June-July, 2006).
4. Post doctoral Fellowship in Durham University, UK (August-October, 2005).
5. Post doctoral Fellowship in Durham University, UK (October-December, 2004).
6. Post doctoral Fellowship in Heidelberg University, Germany (January-March, 2001).
7. Post doctoral visit in Uppsala University, Sweden (August-September, 2000).
8. Post doctoral Fellowship in Uppsala University, Sweden (Sept., 1997 –Aug., 1998).
9. Ph.D. Scholarship to the Univ. of Texas at Austin, USA (Oct., 1992 – Oct., 1994).

Implementing scientific/cultural cooperation with foreign countries:

1. **USA: Developing an Innovation Ecosystem in Egypt**, 13 – 24 March, 2011, Washington, D.C.; Anaheim and Los Angeles California; Stillwater, Oklahoma; and Washington D.C., USA. Cooperation Project By: Egyptian Network for Innovation and Technology (ENIT) & U.S. Department of Commerce.
2. **China**: Created a memorandum of understanding with East China Normal University (ECNU) in Shanghai (April, 2011).
3. **Poland**: Implemented the scientific and cultural cooperation scheme between Egypt and Poland represented by mutual cooperation between Kafrelsheikh University and University of Warsaw (April, 2012).
4. **Poland**: Created a memorandum of understanding with John Paul II University in Biala Podlaska (September, 2014).

Consultancy with National and International Oil Companies:

1. October, 1997 – October, 1998 – with PETROBRAS (Brazil), on the Diagenesis and reservoir-quality evolution of fluvial sandstones during progressive burial and uplift.
Evaluation and Dissemination:
 - A published article (Salem et al., 2000).
2. October, 1998 – October 2000 - with PETROBEL (Belayim Petroleum Company) in Egypt on the problem of high water saturation in Abu-Madi gas reservoirs, Nile Delta, Egypt.
Evaluation and Dissemination:
 - Abstract, AAPG international conference, New Orleans, USA, April 16-19, 2000.
 - A published article (Salem et al., 2005).
3. December 3-4, 2011 - Challenges in Reservoir Quality Prediction Workshop held in the Technical Exchange Centre, Saudi ARAMCO, Dahrán, Kingdom of Saudi Arabia

Project Investigator (PI) of on-going international joint research projects:

1. Predictive Siliciclastic Diagenesis in a Sequence Stratigraphic Framework. Evidence from the Early Paleozoic, Fluvio-Tidal Clastic Sediments, Sinai, Egypt – in cooperation with Prof. Brian Turner, Durham University in UK and Prof. Sadoon Morad, Uppsala Univ. in Sweden.
2. A comprehensive study on spatial and temporal distribution of heavy metals in the Nile and Yangtze coastal wetlands: A special reference to ecological safety – Grant : 5-II-6 with East China Normal University, Shanghai, China
3. Holocene climate change in northeastern Africa and its impact on ancient Egyptian civilization – Grant: 185179, OPUS, ST10 with Warsaw University, Warsaw, Poland
4. The Yangtze and Nile delta: Holocene climate, sea level change and human adaptation: Proposed with East China Normal University, Shanghai, China

Invitation of Foreign Scientists:

Invitations were through mutual cooperation programs, as to present lectures to students and staff, and initiate joint research projects.

1. Professor Zhongyuan Chen from East China Normal University, Shanghai, China: Two visits (26th March - 4th April, 2006), (20th February – 2nd March, 2008)
2. Professor Brian Turner from the University of Durham, Uk, (1-10 May, 2006)
3. Professor Leszek Marks from Warsaw University, Poland, (10-25 February, 2014)

Speaker in International Conferences and Workshops

- 1) **Salem, A.**, Morad, S., Abdel-Razik, R.R., and Al-Aasm, I.S., 2000. The origin and influence of grain-coating chlorite on water saturation in gas fields: Evidence from the Abu-Madi gas reservoirs (Upper Miocene), Nile Delta Basin, Egypt. American Association of Petroleum Geologists, Annual Convention, New Orleans, USA (Abst.), 16-19 April, 2000.
- 2) **Salem, A.** and El-Shishtawy, A. M., 2008. Diagenetic and Sedimentological Study of the Lower Miocene Succession at Gebel El-Hadid, Wadi El-Natron Area, Egypt. 9th International Conference on the Geology of the Arab World "GAW9", Cairo, Egypt, 24 - 27th March, 2008.
- 3) **Salem, A.**, 2008. Clay mineral authigenesis and Q-pore analysis in sandstones from different geologic settings, Egypt: Evidence from electron and digital imaging. 9th International Conference on the Geology of the Arab World "GAW9", Cairo, Egypt, 24 – 27 March, 2008.
- 4) Luo, J. , Morad, S., **Salem, A.**, Ketzer, J., Yan, S., Zhang, X., and Xue, J., 2008. Diagenesis and reservoir-quality evolution of fluvial and lacustrine-deltaic sandstones: evidence from Jurassic and Triassic sandstones of the Ordos basin, northwestern China. EGU General Assembly 2008, Vienna, Austria (Abst.), 13-18 April, 2008.
- 5) **Salem, A.** and Z. Chen., 2008. Heavy metals distribution on the Nile Delta Coast: A review emphasizing the eco-environmental challenge after Aswan Damming, Egypt. EMECS-8 International Conference, Shanghai, China, 27-30 October, 2008.
- 6) Turner, B.R., **Salem, A.**, and Fordham, C.E., 2009. The implications of reservoir facies and depth/diagenetic controls on the reservoir potential of sandstones: Evidence from the Fell sandstone, Northumberland Basin, Northeast England. The 6th International Conference on the Geology of Africa, Assuit, Egypt, 24-29 October, 2009.
- 7) Gu, J., Chen, Z., and **Salem, A.** Post-Aswan Dam Sedimentation Rate of Lagoons of the Nile Delta, Egypt. EMECS-9 International Conference, Baltimore, MD, USA, 28-31 August, 2011.
- 8) **Salem, A.** Impacts of Climate Change and Adaptation Policies on the Nile Delta Coastal Zones. Plenary Session on Climate Change, EMECS-9 International Conference, Baltimore, MD, USA, 28-31 August, 2011.
- 9) **Salem, A.** Challenges in Reservoir Quality Prediction from Sinai and Nile Delta, Egypt. Workshop, 3-4 December, 2011, Saudi ARAMCO, Dahrn, Kingdom of Saudi Arabia.
- 10) Chen, Z., **Salem, A.** Geochemistry of the Holocene lake sediments from the core FA-1, Faiyum Oasis, Egypt. Fourth Geoarchaeological Conference in Warsaw, Poland: Late Pleistocene and Holocene climatostratigraphy of Northeastern Africa reflected in lake sediments and geoarchaeological data, Warsaw, Poland, 8-9 April, 2016.

Membership of Professional Societies

1. Geological Society of Egypt
2. Sedimentological Society of Egypt
3. SEPM (Society of Sedimentary Geology), USA
4. AAPG (American Association of Petroleum Geologists), USA

Training Courses

- "Analytical Techniques and Applications in Geological Sciences" taught by: Prof. Douglas Smith in the University of Texas at Austin, USA, spring semester, 1993.
- "Sedimentary and Petroleum Systems" taught by: Prof. Maurice Tucker in Durham University, UK, October-December, 2004.
- E-learning course on Carbonate sedimentology tutored by Dr. Moyra Wilson in Durham University, UK, October-December, 2004.

Field Experience

I have done a lot of field work on both clastic and carbonate sequences, and mixed carbonate/clastic sequences in Egypt and elsewhere. Field experiences included analyzing sedimentary structures, recognize facies associations, identifying sequence/parasequence boundaries, record distinguished features, etc.

- In Egypt:
 1. Clastic sedimentary sequences in Sinai and along the Gulf of Suez
 2. Mixed carbonate/clastic sequences and tidal flats along the Red Sea coast
- Other areas in the world:
 1. Mixed carbonate/clastic sequences in Berwick area, Northern England
 2. Tidal flats in Showming Island, Northeastern China
 3. Student-field trips in Texas, USA and China.

WORKSHOPS AND TRAINING ACTIVITIES**I: As a Trainee****TOT (Training of Trainers) Programms**

- TOT1 (Preparatory): February 8th, 2008 from Cairo University
- TOT2 (Supplementary): June 30th, 2010 from Ain Shams University
- CT (Certified Trainers): December 2010-January 2011, Kafrelsheikh University

FLDC (Faculty and Leadership Development Project) Workshops

- Teaching Evaluation (04-06/03/2006) from Tanta University
- Using Technology in Teaching (22-25/05/2006) from Tanta University
- Organizing Scientific Conferences (12-14/01/2008) from Kafrelsheikh University
- Credit Hours System (16-18/02/2008) from Kafrelsheikh University
- Quality Assurance in Teaching (14-16/06/2008) from Kafrelsheikh University
- Strategic Planning (10-13/09/2009) from Kafrelsheikh University

External Reviewing of Higher Education Institutes Workshops

- Self Evaluation of Higher education Institutes (20-24/12/2009) from University
- External Reviewing of Higher Education Institutes (03-07/01/2010) from Kafrelsheikh University
- Intensive workshop on External Reviewers of Higher Education Institutes (19-21/04/2010) from NAQAAE, Cairo

II: As a Trainer

1. **Trainer in the ICTP Project:** for enhancing the ICT skills of the faculty staff and their assistants as well as the University employees in Egyptian Universities
2. **Trainer in the NCFLD (National Centre for Faculty and Leadership Development)** since 2008
3. **Trainer** on writing research proposals for international funding since 2008
4. **Certified reviewer of higher education institutes for quality assurance and accreditation** since 2013

Reference Names:

1. Prof. Antar Abdel-Wahab: Kafrelsheikh Univ., 33516 Kafrelsheikh, Egypt.
e-mail: antar_abdelwahab@hotmail.com – Phone: +2 0100 525 2195
2. Prof. Earle McBride: Univ. of Texas at Austin. Austin, Tx 78712, USA.
e-mail: efmcbride@jsg.utexas.edu – Phone: +1 512 471 1905
3. Prof. Sadoon Morad: Uppsala University, SE-752 36 Uppsala, Sweden.
Current address: The Petroleum Institute, P.O. Box 2533, Abu Dhabi, UAE.
e-mail: smorad@pi.ac.ae - Phone: +971 2 607 5596
4. Professor Zhongyuan Chen: East China Normal University, Shanghai 200062, China.
e-mail: Z.Chen@sklec.ecnu.edu.cn – Phone: +86-21-62232706
5. Prof. Maurice Tucker: Durham University, DH1 3LE Durham, UK:
e-mail: m.e.tucker@durham.ac.uk
6. Prof. Brian Turner: Durham University, DH1 3LE Durham, UK:
e-mail: b.r.turner@durham.ac.uk
7. Prof. Thilo Bechstaedt: Geologisch Palaeontologisches Institut der Universitaet Heidelberg,
Im Neuenheimer Feld 234, D-69120 Heidelberg, Germany.
e-mail: thilo.bechstaedt@urz.uni-heidelberg.de
8. Prof. Leszek Marks, Department of Climate Geology, Faculty of Geology,
University of Warsaw, Poland. E-mail: leszek.marks@uw.edu.pl

List of Publications

- 1) Abdel-Wahab, A. A., McBride, E. F., and Salem, A. M., 1995. Fabric, compaction analysis, and estimate of burial depth of diagenetic quartzarenites, Gebel El-Zeit area, Gulf of Suez. *Giornale Geologia*, v. 57, p. 245-257.
- 2) McBride, E. F., Abdel-Wahab, A. A., and Salem, A. M., 1996. The influence of diagenesis on the reservoir quality of Cambrian and Carboniferous sandstones, southwest Sinai, Egypt. *Journal of African Earth Sciences*, v. 22, p. 285-300.
- 3) Salem, A. M., and Hassanein, I. M., 1997. Diagenesis and petrophysical characteristics of the Lower Cretaceous sandstones (Malha Formation) in Gabal El-Minshereh area, north Sinai, Egypt. *Egypt. Jour. Petroleum*, v. 6, p. 67-83.
- 4) Salem, A. M., Abdel-Wahab, A. A., and McBride, E. F., 1998. Diagenesis of shallowly buried cratonic sandstones, southwest Sinai, Egypt. *Sedimentary Geology*, v. 119, p. 311-335.
- 5) Abdel-Wahab, A. A., Salem, A. M., and McBride, E. F., 1998. Quartz cement of meteoric origin in silcrete and nonsilcrete sandstones, Lower Carboniferous, western Sinai, Egypt. *Journal of African Earth Sciences*, v. 27, p. 277-290.
- 6) Salem, A. M., Morad, S., Mato, L. F., and Al-Aasm, I. S., 2000. Diagenesis and reservoir-quality evolution of fluvial sandstones during progressive burial and uplift: evidence from the Upper Jurassic Boipeba member, Reconcavo Basin, NE Brazil. *American Association of Petroleum Geologists Bulletin*, v. 84, no. 7, p. 1015-1040.
- 7) Salem, A. M., Abdel-Hameed, A. T., Hassanein, I., and Fouda, A.M., 2001. Diagenetic implications and provenance of the pre-Cenomanian sandstones in Sheikh Attia area, east-central Sinai, Egypt. *Sedimentology of Egypt*, v. 9, p. 57-72.
- 8) Salem, A. M., 2001. Diagenesis and porosity evolution of the pre-Cenomanian sandstones in Ras El-Naqb area, east-central Sinai, Egypt. *Sedimentology of Egypt*, v. 9, p. 73-87.
- 9) Salem, A. M., 2004. Carbonate cements in the Jurassic sandstones (Rieina Formation) at Khashm El-Galala area, Gulf of Suez, Egypt: Geochemical and electron Imaging study. 6th Inter. Conf. On Geochemistry, Fac. Sci., Alex. Univ., Alexandria, Egypt, 15-16 Sept. 2004, p. 123-139.
- 10) Salem, A.M., Morad, S., Ketzer, J.M., Rizk, R.R., and Al-Aasm, I.S., 2005. The diagenesis and reservoir-quality evolution of incised-valley fill sandstones: Evidence from the Abu-Madi Gas Reservoirs (Upper Miocene), the Nile Delta Basin, Egypt. *Journal of Sedimentary Research*, v. 75, p. 572-684.
- 11) Salem, I.A., Salem, A.M., El-Shishtawy, A.M., and El-Bahrawy, R.A., 2006. Petrography, geochemistry and origin of the ironstones in the Jurassic sequence of Khashm El-Galala area, Gulf of Suez, Egypt. 7th Intern. Conf. on Geochemistry, Fac. Sci., Alex. Univ., Alexandria, Egypt, 6-7 Sept., 2006, V. II, p. 133-151.
- 12) Mansurbeg, H., Morad, S., Salem, A., Marfil, R., El-ghali, M.A.K., Nystuen, J.P., Caja, M.A., Amorosi, A., Garcia, D., and La Iglesia, A., 2008. Diagenesis and reservoir quality evolution of Palaeocene deep-water, marine sandstones, the Shetland-Faroes Basin, British Continental Shelf. *Marine and Petroleum Geology*, v. 25, no. 6, p. 514-543.
- 13) Zhuang XU, Alaa SALEM, Zhongyuan CHEN, Weiguo ZHANG, Jing CHEN, Zhanghua WANG, Qianli SUN, Daowei YIN, 2008. Pb-210 and Cs-137 distribution in Burullus lagoon

sediments of Nile river delta, Egypt: sedimentation rate after Aswan High Dam. *Front. Earth Sci. China*, v. 2, no. 4, p. 434-438.

- 14) Luo J.L., Morad S., Salem A., Ketzer J.M., Yan S., Zhang X.L, Xue J.M. and Hlal O., 2009. Impact of diagenesis on reservoir-quality evolution in fluvial and lacustrine-deltaic sandstones: evidence from jurassic and triassic sandstones from the ordos basin, china. *Journal of Petroleum Geology*, v. 32(1), p. 79-102.
- 15) Zhongyuan CHEN, Alaa SALEM, Zhuang XU, Weiguo ZHANG, 2010. Ecological implications of heavy metal concentrations in the sediments of Burullus Lagoon of Nile Delta, Egypt. *Estuarine, Coastal and Shelf Science*, v. 86, p. 491-498.
- 16) Jiawei GU, Zhongyuan CHEN, Alaa SALEM, 2011. Post-Aswan dam sedimentation rate of lagoons of the Nile Delta, Egypt. *Environ Earth Sci.*, v. 64, p. 1807- 1813.
- 17) Kordi, M., Turner, B., and Salem, A., 2011. Linking diagenesis to sequence stratigraphy in fluvial and shallow marine sandstones: Evidence from the Cambrian-Ordovician lower sandstone unit in southwestern Sinai, Egypt. *Marine and Petroleum Geology*, v. 28, p. 1554-1571.
- 18) Jiawei GU, Alaa SALEM, and Zhongyuan CHEN, 2013. Lagoons of the Nile delta, Egypt, heavy metal sink: With a special reference to the Yangtze estuary of China. *Estuarine, Coastal and Shelf Science*, v. 117, p. 282-292.
- 19) Kassab, M.A., Hassanain, I.M., and Salem, A.M., 2014. Petrography, diagenesis and reservoir characteristics of the Pre-Cenomanian sandstone, Sheikh Attia area, East Central Sinai, Egypt. *Journal of African Earth Sciences*, v. 96, p. 122–138.
- 20) Marks, L., Salem, A., Welc, F., Nitychoruck, J., Chen, Z., Zalat, A., Majecka, A., Chodyka, M., Szymanek, M., Toloczko-Pasek, A., 2016. Preliminary report on unique laminated Holocene sediments from the Qarun lake in Egypt, *Studia Quaternaria*, vol. 33, no. 1, p. 35–46.
- 21) Kordi, M., Morad, S., Turner, B., and Salem, AMK., 2017. Sequence stratigraphic controls on formation of dolomite: Insights from the Carboniferous Um Bogma Formation, Sinai-Egypt. *Journal of Petroleum Science and Engineering*, vol. 149, p. 531-539.
- 22) Marks, L., Salem, A., Welc, F., Nitychoruk, J., Chen, Z., Zalat, A., Majecka, A., Szymanek, M., Chodyka, M., Toloczko-Pasek, A., Qianli S. & Jun J., 2017. Record of Holocene climate change in the core FA-1 from the Faiyum Oasis, Egypt. *BOREAS*, (in press).

Books and Review Articles

- 1) Noweir, A.M., Abdelhameed, A.T., and Salem, A.M., 2000. On the petrology of Paleozoic-Mesozoic Nubian (Nubia) type sandstones in Egypt, In: Soliman, S.M. (Ed.), *Sedimentary Geology of Egypt, Applications and Economics*, Book of the Century, Spec. Publ., part I, p. 89-112.
- 2) Salem, A.M., 2001. Behaviour of trace elements in sedimentary rocks and its implications in diagenesis: A review article, submitted to the Permanent Board of the Geological Sciences, Cairo University, 45p.
- 3) Salem, A.M., and El-Hadad, A., The Arabic version of "Sedimentary Petrology Book" of Maurice Tucker, 2001. (in prep.).