

السيرة الذاتية Curriculum vita

Personal information:

Name: Mohamed A. Elmelah (Elmellah)

Address: University of Tripoli

Faculty of Science
Chemistry Department
Tripoli – Libya

Date of Birth: 1953 – Benghazi - Tripoli – Libya

Educational back ground:

1976- B.Sc. Chemistry (major) – Zoology (minor), University of Tripoli, Tripoli – Libya.

1982– M.Sc. (Inorganic Chemistry), New Mexico State University, Las Cruces, New Mexico, U.S.A.

1984– Ph.D. (Inorganic Chemistry), New Mexico State University, Las Cruces, New Mexico, U.S.A.

Memberships:

1- Member of the American Chemical Society (1984- Current).

2- Member of the Libya Chemical Society since its establishment.

Experience:

1984 – 1987 – Lecturer (Chem.), University of Tripoli, Chem. Dept., Tripoli – Libya.

1987- Feb. 1998 – Assistant professor (Chem.), University of Tripoli, Chem. Dept., Tripoli – Libya.

Feb. 1998 – Nov. 2007 – Associate professor (Chem.), University of Tripoli, Chem. Dept., Tripoli – Libya.

Nov,2007- present - professor of chem., University of Tripoli, Chem. Dept., Tripoli – Libya.

1985 – 1986 – Head of the chem., Dept., University of Tripoli, Faculty of science, Tripoli – Libya.

Sep. 1989 – Member of the Organizing Committee of "The First National Basic Sciences Conference", held in Tripoli – Libya 1989.

Jan. 1990 – The chairman of the Organizing Committee of "The First Environmental Conference" held in Sabha – Libya, 1990.

Oct, 2008 - Sept. 2011- Head of the Chemistry Department, Faculty of Science, University of Tripoli, Tripoli – Libya.

1984 – Present, Teaching Theoretical and Practical General Chemistry, Inorganic Chemistry and Bioinorganic chemistry to University undergraduate and graduate students of faculties of science, Agriculture, medicine, pharmacy, education, and number of technical institutions in and around Tripoli - Libya. Also, advised many undergraduate projects and a number of M.Sc. Thesis.

Training:-

1)- Feb to May – 1998:-

Shimadzu company center in Duisburg Germany, Trained on the following instruments:-

HPLC:- RI- 5301Pc Vers. For windows, IJV-1201, UV- 2501 and UV- 2101.

10A, CMB-10A, SPD- 10AVP, SPD-M10AVP, RF- 10AXL, RID- IDA, and Rheodyne Manual injectors.

Atomic Absorption instruments including; AA- 6701, GFA 6500 and ASC6000.

2)- Mar.-April- 1998:-

Radiometer Product training included the following instruments:-

PH and Ion measurement with PHM250 (PH Ion meter, Ion selective electrodes),

Titral- 90 (installation, software Tim Talk – 9, development of titration methods).

3)- April- 1998:-

FT- IR training at Bruker Analytik GMBH factory in Rheinstetten Germany including hardware ,soft ware, service techniques and application.

4)- May 1998:-

Argon Laser Training at LIS Laser und Elektronik Service GMIBH in Jena Germany. The training included installation operation and service.

5)- May 1998:-

LSF Laser fluorescence spectrometer composed of MSG–800 Nitrogen Laser, IJDL – 200, Dye Laser, UJL- 300 Dye Laser, and SHG unit (frequency doubler) at the LTB Laser technik Berlin GMBH in Berlin Germany.

Research experience:

- 1- E.R.Birnbaum and **M.A.Elmelah** "Luminescence excitation Spectra of Eu⁺³ Carboxylate" , in the XXIV international conference on coordination chemistry, Aug. 24-29 1986, Athens, Greece.
- 2- S.K. Shakshooki, **M.A.. Elmelah**, E.A.Arafa, A.V. Siala, S.M. El-Hamruni, A.M. Beley and F.H. Bushewa "Adsorption of some Lanthanides on glassy Tin Arsenate" J. Radio anal. Nucl. Chem., 240, 2, (1999), 435436.
- 3- S.K. Shakshooli, **M.A. Elmelah**, H.B. Hanash, R.M. Elmehdawi, E.A. Arafa, and A.M. Bejay "Uptake of some lanthanides on γ -Zirconium phosphatephosphite and its 1,10- phenanthroline and 2,2- Bipyridyl intercalated products, J. Radio anal. Nucl. Chem, 240, 2, (1999), 433-434.
- 4- **M.A. Elmelah**, M. El-Arabe Ben Amer and Abdulbaset Abuissa "physical and chemical properties of selected locations from the Libyan Coast" Libyan Journal of Marine Science (2006), 11, 37-51".
- 5- **M.A. Elmelah**, Abdulbaset A. Abuissa and E.M. Gheat "Seashore water characteristics in the vicinity of Tripoli-Libya" Libyan Journal of Marine Science (2006), 11, 5-28.
- 6- T.M. Hassan, F.J. Shakhtoor, A.A. Ahmed, **M.A. Elmelah** "Monthly changes in fat composition of sardine (*Sardinella auritas*) caught from Libyan Coast" Libyan Journal of Marine Science (2006), 11, 5-22.

- 7- **Mohamed A. Elmelah**, Abdul Majid K. Najjar Ali Ammar "Determination of NH₃, H₂S, CO and CO₂ concentrations in the Organic fertilizer factory at Al-Sawani- Libya: Case Study, Chem. Environ Res., 15 (1& 2) 2006.
- 8- Abduealmajid K. Najjar,^a Mohamed A. Elmelah,^b Faiz K. Bannani,^c and Fawzia M. Ghania, "Estimation of Polyvinylchloride (PVC) in household solid waste at Tripoli-Libya",
- 9- Abduealmajid K. Najjar, **Mohamed A. Elmelah**, Rashid S. R. Ltayef and Fahima Abu Dher "Systematic Study to Convert Polyvinyl Chloride Waste into Commercial Chemicals, ", *International Journal of Environmental Science and Development*, Vol. 5, No. 6, December 2014.
- 10- Abduealmajid K. Najjar,^a **Mohamed A. Elmelah**, Faiz K. Bannani,^c and Fawzia M. Ghania Estimation of Polyvinylchloride (PVC) in household solid waste at Tripoli-Libya
- 11- **M.A. Elmelah** A. Ashawwf and T.Gerry "Heavy metal levels in near shore sea water of western coast of Libya" in the Proceedings of the Second Specialty Conference on Environmental progress in the petroleum & petrochemical Industries, Bahrain 1997.
- 12- **M.A. Elmelah**, A.Elbahi "Heavy metal content of the indoor dust from Tripoli residential areas" in the Proceedings of the Second Specialty Conference on Environmental progress in the petroleum & petrochemical Industries, Bahrain 1997.
- 13- Abdul Majid K. Najjar, Mohamed A. Elmelah, "Estimation of polyvinyl Chloride in household solid waste in Tripoli Libya" First Arab Enviromental conference, Cairo- Eygpt, 5- 7th Dec. 2006.
- 14- Abduealmajid K. Najjar, **Mohamed A. Elmelah**, Rashid S. R. Ltayef, and Fahima N. Abudher, " Systematic Study to Convert Polyvinyl Chloride Waste into Commercial Chemicals", *International Journal of Environmental Science and Development*, Vol. 5, No. 6, December 2014

15- د.محمد عبدالله الملاح وعادل محمد جامع "تأثير الكاديوم على كبد وكلى الأرنب المنزلي" الملتي العربي الأول للبيئة - القاهرة - جمهورية مصر العربية 7 - 5 ديسمبر 2006م.

16- د.محمد عبدالله الملاح ، د.عبدالمجيد خليفة النجار ، عبدالسميع محمد الهادي حصن ، فوزية المختار غنية "استخدام كربونات الكالسيوم في تحسين الخواص الميكانيكية لعديد الإثيلين المعاد تدويره" الندوة العربية لتدوير المخلفات البلاستيكية - المنظمة العربية للتنمية الصناعية والتعدين - جامعة الدول العربية ، القاهرة ، 24-26 يونيو 2007م.

17- د.عبدالمجيد خليفة النجار ، د.محمد عبدالله الملاح ، فوزية المختار غنية ، عبدالسميع محمد الهادي حصن "الخصائص الميكانيكية والحرارية لمخلفات عديد كلوريد الفايثيل المعاد تدويره" الندوة العربية لتدوير المخلفات البلاستيكية ، المنظمة العربية للتنمية الصناعية والتعدين ، جامعة الدول العربية ، القاهرة ، 24-26 يونيو 2007م.

Adviced Thesis:-

- 18- **Mohamed A. Elmelah**, "Luminescence Excitation Spectroscopy of Europium (III) Complexes", Ph.D. Thesis, New Mexico State University, USA, 1984.
- 19- M.E. Tarhuni "Traces of perimiphos Methyle and Dimethoate in vegetables and the isolation of micro organisms capable of degrading these insecticides" M.Sc.thesis, University of Tripoli, Faculty of Agriculture, Food Science department, Tripoli Libya, 1995. (2nd – Advisor).
- 20- Nurddine Abdussalam "Effect of extraction time and temperature and storage time on the organic acids and Antocyanine content of the Hibiscues Sabolaiffa plant water extract" Masters Scthesis, Universityof Tripoli, Faculty of Agriculture, Food Science department, Tripoli Libya, 1997. (2nd – Advisor).
- 21- Al- Rammah Al-Mahdee Ahmed "physical and Chemical properties of Libyan Caster beans" M.Sc. thesis, University of Tripoli, Faculty of Agriculture, Food Science department, Tripoli Libya, 1995. (2nd – Advisor).
- 22- فتحية شختور "تقدير محتوى الدهن الكلي والدهون المتعادلة والفسفورية والكوليسترول والأحماض الدهنية المشبعة وغير المشبعة في بعض عينات من الأسماك السطحية والقاعية المصادرة من الشواطئ الليبية ، رسالة ماجستير ، جامعة طرابلس ، كلية الزراعة، قسم علوم الأغذية، طرابلس – ليبيا، 2005 م، (عضو لجنة إشراف).
- 23- عبدالرؤوف مولود أحمد المحروق "تقييم لتلوث الهواء الناتج من عوادم المركبات الآلية في مدينة طرابلس" قسم علوم وهندسة البيئة – أكاديمية الدراسات العليا، طرابلس – ليبيا، 2008م (مشرف أول).
- 24- غادة عمر عشية "تأثير البقايا الجافة والمستخلصات المائية والعضوية من أوراق جذور نبات العفينة (Chenopodium album) على إنبات ونمو درنات السعد (Cyperus rotundus) رسالة ماجستير، جامعة طرابلس، كلية الزراعة، قسم المحاصيل، طرابلس – ليبيا، 2005 م، (عضو لجنة إشراف).
- 25- عادل مسعود جامع ، "إستيضاح الدور الوقائي لزيت الزيتون ضد السمية المستحثة بالكادميوم في الأرنب المنزلي - دراسة تجريبية "، رسالة ماجستير ، جامعة الزاوية قسم علوم الحياة ، الزاوية ، ليبيا، 2006 م ، (مشرف أول).
- 26- راشد سالم لطيف " تقنية خضراء لتحويل عديد كلوريد الفيل المستنفد إلى كربون نفي و مواد كيميائية صناعية أخرى "قسم علوم وهندسة البيئة – أكاديمية الدراسات العليا، طرابلس- ليبيا، 2008م (مشرف ثاني).
- 27- Mostafa El-Arabe Ben Amer "Investigation of chemical and physical properties of selected locations of Zawia Coastal water" M.Sc. Thesis, University of Tripoli, Faculty of science, Chemistry department, Tripoli Libya Nov. 2006. (Main – Advisor).
- 28- Elbashir M. Gheat "Investigation of chemical and physical properties of selected locations of Tripoli Coastal water", M.Sc. Thesis, University of Tripoli, Faculty of science, Chemistry department, Tripoli Libya Nov. 2006. (Main – Advisor).
- 29- Ali Ammar Al-Harabi "Determination of NH₃, H₂O, CO and CO₂, concentrations in the Organic fertilizer factory at Alswani – Libya: Case study. M.Sc. Thesis,

- Higher, studies Academy, School of Basic Sciences, Environmental Sciences, and Engineering Department, Spring (2006) (2nd-advisor).
- 30- Fawzia M.Ghnayya "Estimation of household plastics waste and some of its constituents in household solid waste in Tripoli (Libya), particularly PVC and the possibility of its recycling" M.Sc.Thesis, Higher studies Academy, School of Basic Sciences, Environmental Science and Engineering Department, Spring (2006)) (2nd-advisor).
- 31- Abdel samia M.A.Alhusn "Estimation of poly Ethylene in house hold solid wast in Tripoli Libya and possibility of its recycling" M.Sc. Thesis, Higher studies Academy, School Sciences, Environmental Science and Engineering Department, Spring (2006) (2nd-advisor).
- 32- Mysoon S.Aluba "Grafting of Amine ligands on Silica gel and Its Application in Trace metal determination" Department of Chemistry, Faculty of Science, Al-Mergeb Unversity, El-Mergeb – Libya, July 2009. (Main Advisor).

Scientific Interests:-

- 1- Inorganic Chemistry
- 2- Bio-Inorganic Chemistry.
- 3- Environmental Chemistry.