

# Curriculum Vitae



## Personal Information

**Name :** Ahmed Mohamed Kamal EL-Sayed Youssef.

**Citizenship :** Egyptian.

**Marital Status :** Married.

**Work Address :** Chemistry Department , Faculty of Science , Assiut University ,  
Assiut,  
Egypt. 71516.

**Date of Birth :** 9 , March , 1975.

**Positions :** Lecturer . 25 , October , 2009.

( Chemistry Department , Faculty of Science , Assiut University ).

Assistant Lecturer , 1 , August , 2003.

( Chemistry Department , Faculty of Science , Assiut University ).

Demonstrator , 30 , October , 1997.

( Chemistry Department , Faculty of Science , Assiut University ).

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## Educational Records

1- Ph.D. ( Analytical Chemistry ) .28 , September , 2009.

Assiut University , Assiut , Egypt.

Thesis title : " Voltammetric Studies of Some Neurotransmitters and Their Interactions with Trace Elements. "

Supervisors : Prof. Dr. Mahmoud A. Ghandour & Prof. Dr. Azza M. M. Ali.

2- M. Sc. ( Analytical Chemistry ) . 29 , June , 2003.

Assiut University , Assiut , Egypt.

Thesis title : " Determination of Essential and Toxic non-Essential Elements in Infant Formulas and Milks Using Spectrometry and Stripping Voltammetry. "

Supervisors : Prof. Dr. Mahmoud A. Ghandour & Prof. Dr. Azza M. M. Ali. & Dr. Zaher A. Khafagy.

3- B. Sc. ( Chemistry ) . June , 1997.

Assiut University , Assiut , Egypt.

General Grade : Very Good ( First Rank ).

## Awards

Assiut University Awards for the Best Research Paper entitled :

“ Analytical Procedures for the Simultaneous Stripping Voltammetric Determination of Ni(II) and Co(II) in Powdered Milk Samples. ”

In The First Conference for the Young Scientists : Basic Science & Technology.

Assiut University , Assiut , Egypt.

May , 5-6 , 2007.

## Teaching & Instrument Experience

### Teaching :

1- In 1997 , I was appointed as a demonstrator at the chemistry department , Faculty of Science , Assiut University , Where my responsibility was to teach experimental chemistry for undergraduate students. During the study for the M. Sc. & ph.D. at Assiut University , I participated in teaching the following experimental topics for undergraduate students :

- Identification of simple salts and analysis of double salts and mixtures for the 1<sup>st</sup>. year students.
- Volumetric methods of analysis ( Oxidation-Reduction , Neutralization, Precipitation and Complexometry Reactions ) for the 2<sup>nd</sup>.year students.
- Gravimetric methods of analysis for the 3<sup>rd</sup>. year students.
- Instrumental methods of analysis for the 4<sup>th</sup>. year students ( Water analysis, Spectrophotometry, Voltammetry, pH-metry , Turbidimetry and Conductometry ).

2- After ph.D. , I was appointed as a lecturer in 2009 at the chemistry department, Faculty of Science , Assiut University , Where my responsibility to teach basic principles and applications of analytical chemistry. , I participated in teaching the following courses for postgraduate students ( The Environmental Analytical Chemistry Diploma Students ) in Assiut University , Assiut , Egypt. :

- Chem-502 : Instrumental Methods Of Analysis.
- C-504 : Practical Environmental Analytical Chemistry.
- Teaching course of C-100 (General Chemistry) for first level students of faculty of science “ Credit Hours System “.
- Teaching course of C-105 ( Analytical Chemistry part ) for first level students of faculty of science “ Credit Hours System “.
- Teaching course of C- 444 (Selected Topics in Analytical Chemistry ) for the fourth level students of faculty of science ) “ Credit Hours System “.
- Teaching course of C-240 ( Advanced Analytical chemistry ) for the second level students of faculty of science ) “ Credit Hours System “.

### **Instrument Experience :**

During the study for the M. Sc. and ph.D. at Assiut University , I was responsible for conducting the experiments and maintenance of the following instruments :

- UV-Visible Spectrophotometer.
- Voltammeter.
- Spectrofluorimeter.
- Turbidimeter.
- Conductometer.

### **Research**

#### **\* Research for the degree of M. Sc. :**

In this thesis , The stripping voltammetric technique is performed for the determination of toxic non-essential elements : Cd(II) , Pb(II) , Ni(II) , Cr(VI) and of nutrient essential elements : Zn(II) , Cu(II) and Co(II) in infant formulas under consideration. To validify the voltammetric method , the Cd , Pb , Ni , Co and total Cr ( trivalent and hexavalent ) ions are determined using electrothermal atomic absorption spectrometry ( graphite furnace ) , whereas for Zn and Cu contents , the flame atomic absorption spectrometry is used.

#### **\* Research for the degree of ph.D :**

In this thesis , The determination of important catecholamines ( dopa , dopamine and epinephrine ) using hanging mercury drop electrode via their interactions with copper (II) ions as a redox marker has been carried out. In the presence of copper, a complex is formed giving a new electroactive product where it is adsorbed onto the electrode surface which can undergo reduction at negative potentials and can be used for the detection of catecholamines without interferences from ascorbic and uric acids. The new proposed method is applied for the analysis of investigated catecholamines in urine , serum and pharmaceutical formulations.

**\* Post-Doctor Research :**

- UV-Visible Spectrophotometric determination of norepinephrine by oxidation with iodate in pharmaceutical formulations.
- Spectrophotometric determination of gabapentin by condensation in pharmaceutical formulations .
- Determination of fenopfen drug by voltammetric methods with modified electrodes.
- Determination of Cr(VI) and Mo(VI) in natural water and rocks using adsorptive stripping voltammetry.
- Determination of montelukast drug in pharmaceutical preparation form and study of interaction of drug with human albumin by stripping voltammetry.
- Spectrophotometric determination of secnidazole and metronidazole in pharmaceutical formulations by formation of dyes.

**Conferences**

1- Second International Conference of Basic Sciences and Advanced Technologies, Assiut University , Egypt. November , 5-7 , 2000.

( Member in the Organizing Committee ).

2- The Third International Conference on Electrochemistry and Its Applications , South Vally University , Qena , Egypt. , February , 13-15 , 2001.

" Determination of Trace Heavy Metal Ions in Powdered Milk Samples Using Stripping Voltammetric and Atomic Absorption Spectrometric Techniques ".

3- The Fourth International Conference on Electrochemistry South Vally University, Aswan , Egypt. , February , 16-19 , 2004.

" Simultaneous Determination of Ni(II) and Co(II) in Infant Formulas ( Free Milk-Based) By Adsorptive Cathodic Linear Sweep Stripping Voltammetry ".

4- The Fifth International Conference on Electrochemistry ( ICE-V )  
South Vally University , Luxor , Egypt. , February , 13-16 , 2006.

5- The First Annual Conference for Young Scientists : Basic Science & Technology, Assiut University , Assiut , Egypt. , May , 5-7 , 2007.

" Analytical Procedures for the Simultaneous Stripping Voltammetric Determination of Ni(II) and Co(II) in Powdered Milk Samples ".

6- The Second Annual Conference for Young Scientists : Basic Science & Technology, Assiut University , Assiut , Egypt. , October , 18-19 , 2008.

"Cathodic Adsorptive Stripping Voltammetric Determination of Dopamine at a Mercury Electrode ".

7- Workshop on " Circulation of house wastes and its Heathful and Environmental Effects ". Nile Center for Information, Education and Training, Assiut, Egypt. February,8-10, 2010.

8- Member in the Organizing Committee of The 3<sup>rd</sup>. Scientific Conference For Young Researchers For Basic Science & Technology.

Assiut University , Assiut , Egypt. , April 19-20 , 2011.

9- 5<sup>th</sup> Saudi science Conference, College of Applied Sciences, Umm Al-Qura University , Makkah, Saudi Arabia, 16-18 April, 2012 .

“ Spectrophotometric determination of secnidazole in pharmaceutical tablets based on the formation of dyes “ .

10-32<sup>nd</sup> European Congress on Molecular Spectroscopy,Dusseldorf ,Germany,24-29 August,2014."Facile spectrophotometric determination of sunset yellow dye by complexation with copper(ii) ions in commercial food products.

### List of Publications

1. Deia Abd el-Hady \* , Ahmed K. Youssef , “ Hyphenation of ionic liquid albumin glassy carbon biosensor or protein label-free sensor with differential pulse stripping voltammetry for interaction studies of human serum albumin with fenoprofen enantiomers“, *Analytica Chimica Acta*, Vol. 772, pp. 68-74, 2013.
2. E.Y. Hashem\*, A.K. Youssef, “ Spectrophotometric determination of norepinephrine with sodium iodate and determination of its acidity constants” . *Journal of Applied Spectroscopy*, Vol. 80 , No.2 , pp. 266-272, 2013.
3. Manal A.M. Hassan and Ahmed M.K. Youssef, “ Effect of toasting and microwaving on gross chemical composition, total phenolics, Antioxidant activity and phenolic acids fractionation of white beans flour (*Phaseolus vulgaris L.*), “ *World Applied Sciences Journal* ” , Vol. 18, No. 6, pp. 731 – 736, 2012.

4. Ahmed K. Youssef, Deia Abd El-Hady, “ Using of In-Situ Mercury Film Sensor Hyphenated with Affinity voltammetry for high throughput Drug-Protein Binding studies”, American Journal of Analytical Chemistry, Vol, 4, pp. 159-165, 2013.
5. Deia Abd el-Hady \* , Ahmed K. Youssef , “ Adsorptive and affinity linear sweep voltammetry for the determination of singulair in tablet and its interaction with human serum albumin” , Journal of Analytical Chemistry, Vol. 69, No. 7, pp. 666-673, 2014.
6. Magda M. S. Saleh, Ahmed K. Youssef, Doaa A. Abdel-Kader and Elham Y. Hashem, “A Novel Spectrophotometric Method for Determination of Gabapentin in Pharmaceutical Formulations Using 2, 5- dihydroxybenzaldehyde”, Computational Chemistry, Vol. 2, pp.22-30,2014.
7. Ahmed K. Youssef, Magda M. S.Saleh ,. Doaa A. Abdel-Kader and Elham Y.Hashem,"Facile spectrophotometric determination of metronidazole and secnidazole in pharmaceutical preparations based on the formation of dyes.",International Journal of Pharmaceutical Sciences and Research",Vol.6, No.1,pp. 1000-1008,2015.

#### Establishing New Projets

#### **Participated In The :**

New Project for Developing New Scientific Programme for Teaching Analytical Chemistry.

Chemistry Department , Faculty of Science , Assiut University , Assiut , Egypt. 2005-2006.

#### Languages

\* **Mother Language** : Arabic.

#### \* **Other Languages** :

**English** : Reading Skills / Excellent , Writing Skills / Excellent.

**German** : Reading Skills / Good , Writing Skills / Good.

## **Computer Skills**

Very good user of Ms. Office ( word , Excel , Internet explorer , Power point and Access) In addition , attended the following training courses in Assiut University , Assiut, Egypt.

- Introduction to PC's Dos. , year 1997 , Windows 98 , Ms. Word 2000 , year 2004.

## **Activities & Workshops**

- “Preparation of the Teacher” , year 2001.
- “Teaching for Learning” , year 2004.
- “Thinking Skills” , year 2006.
- “Legal Concepts of Universities” , year 2006.
- “Good Presentation Skills” , year 2006.
- “Job Ethics” , year 2006.
- “Application of Technology in Teaching” , year 2007.
- “Presentation and Writing Scientific Research for International Publication” , year 2007.
- Credit Hours System , year 2008.
- “Research Team Management” , year 2010.  
( All These Workshops Were Held In Assiut University , Assiut , Egypt. )
- “ University Administration” , year 2013.
- “ Time and conference Management ” , year 2013.

All these workshops were held at faculty and leadership development center – Assiut University – Assiut - Egypt .

## **Organization Membership**

Member of American Chemical Society as specified in the constitution , By laws , and regulations of the society since 11/2010 , Inorganic Division.