

# The Ninth International Symposium

on



**"NEW TRENDS IN CHEMISTRY"**

*"Analytical Chemistry for Better Life"*

2-5 January 2017, Cairo University

Giza, Egypt

**Organized By**

**THE EGYPTIAN SOCIETY OF ANALYTICAL CHEMISTRY (ESAC)**

and

**Cairo University**

## **PROGRAM**

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# PROGRAM

	<b>Monday</b> <b>2/1/2017</b>	<b>Tuesday</b> <b>3/1/2017</b>		<b>Wednesday</b> <b>4/1/2017</b>	<b>Thursday</b> <b>5/1/2017</b>
<b>9.00-10.00</b>	Registration Opening Ceremony	Workshop 1	<b>9.30-1.30</b> Work Shop 3 see Annex 1	Plenary Lectures	Plenary Lectures
<b>10.00-11.00</b>					
<b>11.00-11.30</b>	Coffee Break	Coffee Break		Coffee Break	Coffee Break
<b>11.30- 1.00</b>	Plenary Lectures	Workshop 2		Oral Session	Oral Session
<b>1.00-3.00</b>	Lunch	Lunch			Lunch
<b>3.00-5.00</b>	Oral Session	Oral Session/Poster Session		Excursion & Lunch	Closing Session

**Monday**

**2/1/2017**

<b>9.00-10.00</b>	<b>Registration</b>
<b>10.00-11.00</b>	<b>Opening Ceremony</b> <b>Chairperson: Motaza M. Khater</b>
<b>11.00-11.30</b>	<b>Coffee Break</b>
<b>11.30-1.00</b>	<b>Session 1: Plenary Lectures</b> <b>Chairperson: Mama El-Rhazi</b> <b>Co-Chairperson: Hekmat Hassib</b>
	<b>PL<sub>1</sub>: Droplet Generation and its Application in Cell Analysis and Mass Spectrometry</b> <b>Jin-Ming Lin</b>
	<b>PL<sub>2</sub>: Challenges and Trends in Trace Elements Determination</b> <b>Erico Marlon de Moraes Flores</b>
<b>1.00- 3.00</b>	<b>Lunch Break</b>
<b>3.00- 5.00</b>	<b>Session 2: Oral Lectures</b> <b>Chairperson: Jin-Ming Lin</b> <b>Co-Chairperson: Mohamed A. Zayed</b>
	<b>O<sub>1</sub>: Chemically Modified Carbon Paste and Membrane Sensors for the Determination of Benzethonium Chloride and some Anionic Surfactants, Characterization Using SEM and AFM</b> <b>Sabrein H. Mohamed</b>
	<b>O<sub>2</sub>: Analytical Study of Saint Gregory Nazianzen Icon, Old Cairo, Egypt</b> <b>Mina Magdy</b>
	<b>O<sub>3</sub>: Disposable Screen Printed Electrochemical Sensor for Vitamin B<sub>1</sub> Determination: Potentiometric and Surface Morphology Studies</b> <b>Ahmed S. Abo Dena</b>
	<b>O<sub>4</sub>: Evaluation of Crude Oil's Influence on Infochemicals Signalling Released by Ulva Lactuca Using Ni-Cu/Nanoporous TiO<sub>2</sub> Sensor</b> <b>Sahar A. Fadlallah</b>
	<b>O<sub>5</sub>: Three New Triterpenoids from <i>Pergularia Tomentosa L.</i> (<i>Asclepiadaceae</i>) of Algerian Origin</b> <b>Zohra Y. Babaamer</b>
	<b>O<sub>6</sub>: Study of Kinetic Parameters of Thermal Decomposition of Ropinorile HCl under Isothermal and Non-Isothermal Conditions</b> <b>Mahmmoud S. Abd-Elmonem</b>
<b>O<sub>7</sub>: Isocratic Reversed-Phase High Performance Liquid Chromatographic Methods for Determination of Some Organic Acids in Vinegar</b> <b>Asmaa ELsayed Ali</b>	

**Tuesday**  
**3/1/2017**

<b>9.00-11.00</b>	<b>Session 3: (Work Shop 1)</b> <b>Chairperson: Ahmed F. Fahmy</b> <b>Co-Chairperson: Alyaa I. Salim</b>	<b>9.30-1.30</b>	<b>Session 5:</b> <b>(Work Shop 3)</b>  <b>Annex 1</b>  Analytical  Chemistry for Better  Food Safety Testing  Practices
	<b>Federation of Egyptian Industries/ Environmental Compliance Office Technical and Financial Services</b>		
	Federation of Egyptian Industries/ Environmental Compliance Office Technical and Financial Services <b>Ahmed Kamal</b>		
	Chemical Safety & Security Activities in Egyptian Industries <b>Adel Taha</b>		
	Energy Efficiency & Renewable Energy Activities in Egyptian Industries <b>Wafaa Ismail</b>		
<b>11.00-11.30</b>	<b>Coffee Break</b>		
<b>11.30-1.00</b>	<b>Session 4: (Work Shop 2)</b> <b>Chairperson: Omaima E. Sherif</b> <b>Co-Chairperson: Ahmed S. Abo- Dina</b>		
<b>11.30-1.00</b>	Ambient Air Quality in Egypt- Measurements& Analysis <b>Sabrein H. Mohamed</b> Egyptian Environmental Regularities for Chemical Industries <b>Ahmed F. Youssef</b>		
<b>1.00-3.00</b>	<b>Lunch</b>		
<b>3.00-5.00</b>	<b>Session 6: Oral Lectures</b> <b>Chairperson: Erico Flores</b> <b>Co-Chairperson: Faten A. Nour El-Dien</b>		
	<b>O<sub>8</sub>:Analytical Biotechnology For Biopharmaceutical Drug Discovery; Characterization and Control</b> <b>Medhat Al-Ghobashy</b>		
	<b>O<sub>9</sub>:Complexometric Titration Using Ionophore-Based Ion-Exchange Emulsion for Anion Determination</b> <b>Fatehy M. Abdel-Haleem</b>		
	<b>O<sub>10</sub>:Evaluation of Some Egyptian Vegetables for Some Mineral Salts and Vitamins</b> <b>Mahmoud S. Rizk</b>		

<b>3.00-5.00</b>	<b>Session 7: Posters</b> <b>Chairperson: Mahmoud S. Rizk</b> <b>Co-Chairperson: Maha F. Abu El-Ghar</b>
	<b>P<sub>1</sub></b> : Determination of Silver (I) in Tomato Fruits and Other Industrial Products Using New Chemically Modified Carbon Paste Sensor <b>Magda E. Sleem</b>
	<b>P<sub>2</sub></b> : A Cost Effective Ion-Pairing Extraction Technique for the Clopidogrel Bisulfate Analysis in the Raw Material and Pharmaceuticals Using Sulphonphthalein Dyes <b>Alyaa I. Salim</b>
	<b>P<sub>3</sub></b> : Corrosion Inhibition of Copper Alloy in Acid Solution Using Cationic Surfactant <b>Reham H. Tammam</b>
	<b>P<sub>4</sub></b> : Effect of Different Graphite Grades on the Response Characteristics of Clomipramine Hydrochloride Sensors and its Determination in Bulk, Pharmaceutical Formulations and Biological Fluids <b>Shaimaa A. Elfeky</b>
	<b>P<sub>5</sub></b> : Stability-Indicating Methods for the Determination of Tolterodine tartrate in Presence of its Base Degradation Product by Densitometry, pH-Induced $\Delta A$ and Colorimetry <b>Zainab M. Yousef</b>
	<b>P<sub>6</sub></b> : Spectrophotometric Studies on the Reaction of Diaveridine with Sulphonphthalein Dyes and $\pi$ -acceptor Reagents <b>Nora. S. Abdel-kader</b>
	<b>P<sub>7</sub></b> : Electrochemical Decolorization of Water Polluted with Carmoisine Dye Using Solar Cell <b>Gamal O. El-Sayed</b>
	<b>P<sub>8</sub></b> : Effect of Heavy Metals Concentration on River Nile Water Quality in El-Hawamdia and Shobra El-Khima <b>Nora Omar</b>
	<b>P<sub>9</sub></b> : Study of Parameters Governing the Recovery of Some Carboxylic Acids from Waste Water by Liquid-liquid Extraction <b>Moulai Kerroumia</b>
	<b>P<sub>10</sub></b> : Potentiometric and Surface Topography Studies of New Carbon-Paste Sensors for Determination of Thiamine in Multivitamin Ampoules <b>Ahmed S. Abo Dena</b>
	<b>P<sub>11</sub></b> : Synthesis, Characterization, Potentiometric and Thermal Studies of Transition Metal Complexes of some Derived Sulfa Drugs Azo Dyes <b>Aya M. Farghaly</b>
<b>P<sub>12</sub></b> : Elimination of Heavy Metals by Magadiite Na <b>K. Moulai</b>	



<p><b>P<sub>13</sub>:</b> Electroanalytical Determination of Escitalopram Oxalate Using Nickel Nanoparticles Modified Electrode <b>Ali K. Attia</b></p>
<p><b>P<sub>14</sub>:</b> The Use of Diphenylamine Sulfonate Redox Indicator in Spectrophotometric Micro-determination of Non-Steroidal Anti-inflammatory Drugs <b>Mahmoud F. ElSayed</b></p>
<p><b>P<sub>15</sub>:</b> Structural Investigation of Four Novel Maleanilic Acid Derivatives using Spectroscopic, Thermal Analysis Combined with MO-Calculations <b>Azza A. Eladly</b></p>
<p><b>P<sub>16</sub>:</b> Spectrophotometric Determination of Fluconazole, Voriconazole and Butoconazole by Ion-Pair Formation with Rose Bengal <b>Marwa A. Abdalh</b></p>
<p><b>P<sub>17</sub>:</b> Spectrophotometric Micro-Determination of Tretinoin, Isotretinoin and Tazarotene via Reactions with Iodine and Rose-Bengal Reagents <b>Marwa H. Abdel-Basset</b></p>
<p><b>P<sub>18</sub>:</b> Study of The Chemical Quality's Waters of Continental Intercalary (Calbien) of The Region of Metliliin Southern of Algeria <b>Bouamer Kheira</b></p>
<p><b>P<sub>19</sub>:</b> Implementation of Spectroscopic Techniques for Characterization of Icons of Deir El Sankoria, El Minia, Egypt <b>Mina Magdy</b></p>
<p><b>P<sub>20</sub>:</b> Molecularly Imprinted Polymer-Based Potentiometric Sensor for the Determination of Gemifloxacin Mesylate in Pharmaceutical Preparations. <b>Nayra H. Omran</b></p>
<p><b>P<sub>21</sub>:</b> Stability Indicating Methods for Selective Determination of Oxetacaine in the Presence of its Degradate Ion Products <b>Sara A. Galal</b></p>
<p><b>P<sub>22</sub>:</b> Corrosion Inhibition of Pure Zinc in 2.5 M HF Acid Solution Using Organic and Inorganic salts <b>Azza El-Sayed El-Shenawy</b></p>
<p><b>P<sub>23</sub>:</b> Cobalt Ferrite Nanoparticles Modified Carbon Paste Microelectrode with Enhanced Sensitivity for Electrochemical Sensing of Donepezil <b>Abeer Derar</b></p>
<p><b>P<sub>24</sub>:</b> Use of Validated Spectroscopic Methods for Simultaneous Analysis of Dapoxetine hydrochloride in Two Binary Mixtures <b>Suzan M. Soliman</b></p>
<p><b>P<sub>25</sub>:</b> Stability-Indicating HPLC and TLC Chromatographic Methods for Determination of Cyclobenzaprine HCl &amp; Asenapine Maleate. <b>Rowayda M. Fouad</b></p>

	<p><b>P<sub>26</sub>:</b> Different Stability-indicating Techniques for the Determination of Dapoxetine Hydrochloride  <b>Suzan M. Soliman</b></p>
	<p><b>P<sub>27</sub>:</b> Using Oxidation-Reduction Reaction for Determination of Tramadol HCl in Bulk and Pharmaceutical Formulations  <b>Ahmed Ismail Mahmoud</b></p>
	<p><b>P<sub>28</sub>:</b> Distribution of PAHs in Water, Sediments Samples of Suez Canal During 2011  <b>Ghada Y. Zaghloul</b></p>

**Wednesday**  
**4/1/2017**

9.00-11.00	<b>Session 8: Plenary Lectures</b> <b>Chairperson: Mahmoud Khodari</b> <b>Co-Chairperson: Rasha El-Nashar</b>
	<b>PL<sub>3</sub>:</b> Miniaturized Mid-Infrared Sensor Technologies: Towards IR-Lab-on-a-Chip for Biodiagnostics <b>Boris Mizaikoff</b>
	<b>PL<sub>4</sub>:</b> Green Synthesis of Silver Nanoparticles and Biological Applications: Chemical vs Plant Extracts Based Reduction <b>Abdulrahman Al-Warthan</b>
11.00-11.30	Coffee Break
11.30-1.00	<b>Session 9: Plenary Lectures</b> <b>Chairperson: Abdulrahman Al-Warthan</b> <b>Co-Chairperson: Soheir M. El-Reefy</b>
	<b>PL<sub>5</sub>:</b> New Strategies Towards Micro- and Nanobioanalytics <b>Christine Kranz</b>
	<b>PL<sub>6</sub>:</b> Applications in Pharmaceuticals and Drug Analysis of Modified Carbon Paste Electrodes Using Different Voltammetric Techniques <b>Mahmoud Khodari</b>
1.00-5.00	<b>Lunch/Excursion</b>

**Thursday**

**5/1/2017**

9.00 -11.00	<b>Session 10: Plenary Lectures</b> <b>Chairperson:Christine Kranz</b> <b>Co-Chairperson:Aisha Ouarzane</b>
	<b>PL<sub>7</sub>:</b> Electrochemical Sensors Based on Nanocomposites Prepared by Carbon Nano Structures and Conducting Polymers <b>Mama El Rhazi</b>
	<b>PL<sub>8</sub>:</b> Biogas Production from Wastewater Treatment Sludge <b>Nagwa Nawar</b>
11.00-11.30	<b>Coffee Break</b>
11.30-1.00	<b>Session 11: Oral Lectures</b> <b>Chairperson: Boris Mizaikoff</b> <b>Co-Chairperson: Aida L. El-Ansary</b>
	<b>O<sub>11</sub>:</b> Anticancer and DNA Interaction of New Transition Metal Complexes Containing N,N; N,O and N,S Donors <b>Sahar I. Mostafa</b>
	<b>O<sub>12</sub>:</b> Synthesis and Characterization of Schiff base-modified CuFe <sub>2</sub> O <sub>4</sub> Magnetic Nanoparticles for Solid Phase Extraction of Cu(II) from Water Samples <b>Asmaa M. Abdel Rahim</b>
	<b>O<sub>13</sub>:</b> Unearthing the Secrets of Fayum Mummy Portraits Using Scientific Analysis <b>Ahmed Tarek</b>
	<b>O<sub>14</sub>:</b> Determination of Carbaryl in Natural Sample Using New Modified Carbon Paste Sensor <b>Aisha Ouarzane</b>
	<b>O<sub>15</sub>:</b> Inhibitory Effects of Plant Extracts and Essential Oils on Mold Growth in Organic Archaeological Artifacts <b>Moamen Othman</b>
	<b>O<sub>16</sub>:</b> Chemically Modified Carbon Paste Electrodes: Investigation of the Microscopic Structure Provides New Insights for The Rational Design of Highly Selective Sensors <b>Hussein M. Abdel-Fattah</b>
	<b>O<sub>17</sub>:</b> Parallel Pathways of catecholamines Oxidation by Iron(III); A Closer Approach to Parkinson Disease <b>Usama El-Ayaan</b>
1.00-3.00	<b>Lunch Break</b>
3.00-5.00	<b>Closing Session</b> <b>Chairperson:Yousry M. Issa</b> <b>Co-Chairperson: Ahmed F. Youssef</b>

### Annex 1 (Workshop 3)

**Central Laboratory of Residue Analysis of Pesticides and Heavy Metals in Food (QCAP Lab)**

**Prof. Ashraf M. El-Marsafy**

**Director of Central Laboratory of Residue Analysis of Pesticides and Heavy Metals in Food [QCAP Lab]**

**Analytical Chemistry for Better Food Safety Testing Practices**

Date: Tuesday 3 January, 2017

Time: 9:30-1:30

Venue: **Central Laboratory of Residue Analysis of Pesticides and Heavy Metals in Food (QCAP Lab), Lecture Hall, building #2.**

Agenda:

<b>Time</b>	<b>Plenary Lectures &amp; Topics</b>	<b>Keynote Speaker</b>
9:30-10:00	<ul style="list-style-type: none"> <li>▪ Registration.</li> <li>▪ Welcome and Introduction of Participants.</li> <li>▪ Outline of the Agenda.</li> </ul>	Event Administration
10:00-10:30	<b>QCAP – Lab Overview and Capabilities</b>	Prof. Ashraf M. El-Marsafy
10:30-11:15	<p><b>Application of the Best Lab Practice In Pesticide Residue Analysis</b></p> <ul style="list-style-type: none"> <li>▪ QuEChERS as Reference Testing Method.</li> <li>▪ Single-Lab Validation Protocols.</li> <li>▪ Application of LC-MS/MS and GC-MS/MS as Spectrometric Techniques in Residues Testing.</li> </ul>	Prof. Emad R. Atalla
11:15-11:45	<p><b>Application of the Best Lab Practice In Heavy Metals Detection</b></p> <ul style="list-style-type: none"> <li>▪ Reference Method Requirements for Heavy Metals.</li> <li>▪ Single-Lab Validation Protocols.</li> <li>▪ Application of ICP-OES and ICP-MS as Spectroscopic Techniques in Heavy Metals Detection.</li> </ul>	Prof. Mona A. M. Khorshed
11:45-12:00	<b>Question and Answer Session.</b>	QCAP Speakers
12:00-12:15	Coffee Break.	
12:15-01:30	<b>QCAP Lab Touring and Demonstrations</b>	Dr. Mohamed A. E. Amer