

First Day Tuesday, October 18, 2016**09:00-11:00 Registration****09:45-10:30 Opening Session****Opening Talks****Main Hall**

L-01: Prof. Medhat Ibrahim, Conference Co-Chairman

L-02: Prof. Ahmed Fakhry, Conference Chairman

L-03: Prof. Ashraf Shaalan, President of the National Research Centre

10:30-11:00 Coffee Break**Resurant****Oral Sessions: All the Oral Sessions are at the Main Hall****11:00-13:30 Scientific Session: I****Chair Persons: Prof. Ahmed Fakhry & Prof. Mustafa Soylak**

11:00-11:40 L-04: Prof. Richard B. Hoover

Perspectives in Astrobiology: Life in the COSMOS

11:40-12:20 L-05: Prof. Marina Frontasyeva

State-of-the-art of Neutron Activation Analysis at the Reactor IBR-2 of Joint Institute for Nuclear Research in Dubna, Russia

12:20-12:35 O-01: Dr. Wael Badawy

Assessment of the Environmental Situation in the River Nile Basin Based on Soil and Sediment Activation with Nuclear and Related Analytical Techniques in the Framework of JINR-Egypt Project (2011-2016)

12:35-12:50 O-02: Prof. Octavian Dului

Neutron Diffraction, Micro-Computed Tomography and Thin Sections Image Analysis of an Outokumpu (Finland) Mica Gneiss

12:50-13:30 L-06: Prof. Wolfram Baumann

Analytical Applications of Confocal Micro-Raman Spectroscopy**13:30-14:20 Lunch****Resurant****14:20-15:40 Scientific Session: II****Chair Persons: Prof. Medhat Ibrahim & Prof. Richard Hoover**

14:20-15:00 L-07: Prof. Fareed Aboul-ela

Spectroscopic, Statistical Mechanical and Computational Methods to Study Dynamics of Ribonucleic Acids (RNA)

15:00-15:40 L-08: Prof. Amal Kasry

Bio-Photonics in Life Sciences**Second Day Wednesday, October 19, 2016****08:45-11:00 Scientific Session: III****Chair Persons: Prof. Marina Frontasyeva & Prof. Medhat Ibrahim**

08:45-08:55 O-03: Dr. Ahmed Refaat

Applications of Spectroscopic Methods in the Characterization of Cultural Heritage Objects

08:55-09:05 O-04: Dr. Mina Magdy

09:05-09:15	Implementation of Spectroscopic Techniques for Characterization of Icons of Deir El Sankoria, El Minia, Egypt O-05: Dr. AbdelRahman Medhat	
09:15-09:55	Application of the Raman Spectroscopy on Experimental Samples A Better Understanding of the Media Behaviour L-09: Prof. Octavian Dului	
09:55-10:10	ENNA, Digital Radiography and UV Photography, XRF, FT-IR and Raman Spectroscopy Investigation of Nine Russian and Romanian Icons From XVIII- XIXth Century O-06: Dr. Wadea Malek	
10:10-10:25	Reconstruction Technique for Wood Sanctuary of Angel Gabriel: Characterization and Restoration O-07: Dr. Shaimaa El-Sayed	
10:25-10:40	An Investigative Study of the Archaeological Egyptian Alabaster Vessels Collapse from Atfiyah Museum Store O-08: Dr. Rabea Abdel Kader	
10:40-10:55	The Thermal Weathering of Atfiyah's Sarabium Archaeological Site from the Late Period: An Investigative Study O-09: Dr. Erkan Yilmaz	
11:00-11:30	Coffee Break	Resutrant
11:30-13:40	Scientific Session: IV	
	Chair Persons: Prof. Ahmed Fakhry & Prof. Hanan Ibrahim	
11:30-12:10	L-10: Prof. Mustafa Soy lak Recent Strategies on the Microextraction of Trace Species from Environmental Samples	
12:10-12:25	O-10: Dr. Funda Aydin A Novel Technique Based on the Using of Deep Eutectic Solvents (DESS) as Liquid Phase Microextraction Solvent for Determination of Malachite Green Residues in Aquarium and Fish Farm Waters	
12:25-12:40	O-11: Dr. Gulsah Kanberoglu Spectrophotometric Detection of Quercetin after Preconcentration by Deep Eutectic Solvent Based Liquid Phase Microextraction	
12:40-12:50	O-12: Dr. Mohammed A. Mannaa Surface Acidity and Catalytic Activity of Phosphomolybdic Acid/SnO₂ Catalysts	
12:50-13:00	O-13: Dr. Yasser Abdulhady Adsorption of Fe, Cu and Mn from Waste Waters of Kotchner Drain by Means of Iron Oxide Nanoparticles Coated by TiO₂ with Poly Vinyl Alcohol	
13:00-13:10	O-14: Dr. Hisham Essawy Potassium Fulvate-Modified Graft Copolymer of Acrylic Acid onto Cellulose as Efficient Chelating Polymeric Sorbent	
13:10-13:20	O-15: Prof. Osama Osman Spectroscopic Analyses of Dioxins on the Aquatic Environment of Alexandria	
13:20-13:30	O-16: Dr. Aly Okasha Setting Up Glow Discharge System for Determination of Rare Earth Elements	
13:40-14:30	Lunch	Resutrant
14:30-16:40	Scientific Session: V	

Chair Persons: Prof. Medhat Ibrahim & Prof. Octavian Dului

- 14:30-14:50 O-17: Prof. Diao Khalil
Technical Note: SiWare Company
- 14:50-15:30 L-11: Dr. Gihan Kamel
Infrared Beamline at SESAME: Strategy and Application
- 15:30-16:10 L-12: Dr. Afaf El-Sayed
X-ray Spectroscopy: From Fundamental to Applied Research
- 16:10-16:25 O-18: Dr. Gehan A. Raouf
The Mechanism of β -Amyloid Formation and Solubilisation in Induced Alzheimer's Disease Rat Hippocampus Brain Tissue
- 16:25-16:40 O-19: Prof. Richard B. Hoover
Evidence for Extraterrestrial Life in Carbonaceous Meteorites
- 16:40-17:50 **Scientific Session: VI**
- Chair Persons: Prof. Osama Osman & Prof. Hanan Elhaes**
- 16:40-16:50 O-20: Dr. AbdelAziz Mahmoud
Molecular Modeling Analyses of Glycine in Different Solvents
- 16:50-17:00 O-21: Dr. Ahmed Fahmy
Preparation of Microspheres from Natural Materials
- 17:00-17:10 O-22: Prof. Medhat Ibrahim
Modeling the Interaction Between Metal oxide/Carbon Nanotube and Ethanol
- 17:10-17:20 O-23: Dr. Walid Mosaad
Water Hyacinth/Chitosan Microsphere for the Removal of Pb From Wastewater
- 17:20-17:30 O-24: Dr. Mohamed A. M. El-Mansy
FT-IR, Molecular Structure, First Order Hyperpolarizability, HOMO and LUMO, NLO and MEP Analyses of 4-Cyanopyranoquinoline-2-One
- 17:30-17:40 O-25: Dr. Noha Saleh
Molecular Modeling Analyses of Modified Polyvinylalcohol/Hydroxyapatite Composite
- 17:40-17:50 O-26: Dr. Mina Magdy
Interaction between Amino Acid and Iron using Molecular Modeling Calculations

Last Day Thursday, October 20, 2016**08:00-09:10 Scientific Session: VII****Chair Persons: Prof. Osama Osman & Prof. Medhat Ibrahim**

- 08:00-08:10 O-27: Aya Ismail
Neutron Activation Analysis (NAA): An Overview
- 08:10-08:20 O-28: Alzahraa Alsayed
Clinical Radiation Oncology
- 08:20-08:30 O-29: Dr. Rageh Hussein
Molecular Modeling Analyses of Modified Zirconate Titanate
- 08:30-08:40 O-30: Dr. Mohamed Morsey
MWCNTs/ZnO Composite as Room Temperature Ethanol Vapor Sensor
- 08:40-08:50 O-31: Dr. Amina Omar
Molecular Modeling Analysis and Electronic Properties of Chitosan Interactions
- 08:50-09:00 O-32: Prof. Osama Osman

- Effect of Physical and Chemical Treatment on the Molecular Structure of Water Hyacinth**
09:00-09:10 O-33: Dr. Diaa Atta
- Computational Spectroscopic and Physical Analyses for the Effect of Hydrated Dioxin upon Organic Acids**
- 09:10-09:40 Coffee Break** **Resutrant**
- 09:40-12:00 Scientific Session: VIII**
- Chair Persons: Prof. Ahmed Fakhry & Prof. Kholmurzo Kholmurodov**
- 09:40-09:55 O-34: Prof. Amal Kasry
DNA Nanotethers: A Tool for Studying Biomolecular Interactions
- 09:55-10:05 O-35: Prof. Marina Frontasyeva
Neutron Activation Analyses of Terrestrial and Extraterrestrial Materials
- 10:05-10:45 L-13: Prof. Kholmurzo T. Kholmurodov
MD Developments and Recent Applications
- 10:45-11:00 O-36: Dr. Ibrahim Shabaan
Raman and DRIFT Spectra, Vibrational Assignments and B3LYP Calculations of Centrosymmetric meso-2,3-Dimercaptosuccinic Acid
- 11:00-11:10 O-37: Dr. Mohamed Mohamed
Analysis of One-dimensional Photonic Crystal Biosensor for Recording Urea Concentration
- 11:10-11:20 O-38: Dr. Sherif A. El-Khodary
Template-Free Synthesis of Hierarchical Nanoporous Polyaniline Nanorods for High-Performance Pseudocapacitors
- 11:20-11:35 O-39: Dr. Amr Abdelghany
Synchrotron Source: A Promising Tool for Structural Evaluation of Amorphous Solid
- 11:35-11:45 O-40: Dr. Diaa Atta
Setting Up Microscope to Follow Up Molecular Interactions
- 11:45-11:55 O-41: Dr. Diaa Atta
Structure Collapse of Alpha Amylases at Low Concentration of Guanidine Hydrochloride
- 12:00-14:00 Scientific Session: IX**
- Chair Persons: Prof. Medhat Ibrahim & Prof. Zeinab Abdel-Aziz**
- 12:00-12:15 O-42: Prof. Kholmurzo T. Kholmurodov
Molecular-Dynamics Studies of Nucleotide Chain and Gold Nanoparticles Binding Inside of a Carbon Nanotubes Matrix
- 12:15-12:30 O-43: Dr. Alaa El-Din A. Abdel-Gawad
Computational Exploration of Human γ D-Crystallin Mechanics by Steered Molecular Dynamics
- 12:30-12:45 O-44: Prof. Moustafa Ahmed
Ultra-High Speed Laser Diodes for use in Radio Over Fiber Networks
- 12:45-13:00 O-45: Prof. Yasser B. Saddeek
Investigations on Spectroscopic and Elasticity Studies of Nd₂O₃ Doped CANP Phosphate Glasses
- 13:00-13:10 O-46: Dr. Ammar Harmal
Preparation, Characterization and Application of Biodegradable Polymer Nanocomposites Based on PVA and Nano-Wood Flour Reinforced with Nanosilica
- 13:10-13:20 O-47: Dr. Fawzeya Gharghar
Structural Study of CeO₂-PbO-B₂O₃ Glasses by X-ray Diffraction, FTIR Absorbance and ¹¹B MAS NMR Techniques
- 13:20-13:30 O-48: Dr. Ali Al-Muntaser

	Investigation of Lithium Titanium Oxide Filler for Lithium Ion Polymer Batteries	
13:30-13:40	O-49: Dr. Mohamed Morsi	
	Influence of UV-Irradiation On (PEO/PVP) Nanocomposite Doped with Biosynthesized Gold Nanoparticles	
13:40-13:50	O-50: Dr. Mohamed Attallah	
	Modeling and Spectroscopic Studies of Copper-Doped Phosphate Glasses	
13:50-14:00	O-51: Dr. Dina Ezzat	
	AC Conductivity and Dielectric Properties of ZnO/Cellulose Acetate Blend	
14:00-14:15	O-52: Dr. Walid Tawfik	
	Ultra-Temporal Compression of Femtosecond Laser Pulses to Produce White-Light Ultrafast Pulses	
14:15-15:00	Lunch	Resurant
15:15-16:00	Closing Session	Main Hall
	Best Poster Award; Best Oral Award; Young Researcher Award	
	Recommendations and Conclusions	