

ESEM Conference 2022

in Collaboration with

Theodor Bilharz Research Institute

Tanta University & Assiut University

Nanostructures: The Science of Today and Tomorrow 12 October 2022

Introduction

10:00 a.m.- 10.10 a.m.

Overview of the day sessions

Prof.Naglaa Sarhan

Workshop I

Transmission Electron Microscopy Applications in Material Science at the Multidisciplinary Research Centre of Excellence- Assiut University.

Chairpersons

Prof. Ayman Ghalab

Prof. Ghada Mahmoud

Zagazig University & BU Egypt

*National Center of Radiation Research &
Technology Egyptian Atomic Energy Authority*

10:15p.m. - 12: 00 p.m.

*Multidisciplinary Research Centre
of Excellence: An Overview*

Prof. Abdel- Hamid Abu- Sehly
*Dean of the Faculty of Science, Assiut
University.*

*Manager- Multidisciplinary Research
Centre of Excellence, Assiut University*

Prof. Nagwa Abo El-Maali
*Prof. Analytical Chemistry, Department of
Chemistry, Faculty of Science.*
*Executive Manager- Multidisciplinary
Research Centre of Excellence, Assiut
University .*

*NanoMaterials: Preparation and
Applications*

Dr. Mohamed Abdel- Megeed Ibrahim Said
*Assist.Prof. – Department of Chemistry,
Faculty of Science, Assiut University.*

Dr. Hani Nasser Abdelhamid
*Lecturer – Advanced Multifunctional
Materials Laboratory, Department of
Chemistry, Faculty of Science, Assiut
University,*

Dr. Asmaa Yehia Wahman
*Lecturer – Applied Analytical Chemistry,
Faculty of Science, New Valley University,
New Valley,*

Break 12: 00 – 12:15 p.m.
During Break documentary Video for ESEM will be displayed

Workshop II
AFM & the Analysed Samples

Chairpersons

Prof. Nermine Maysour *Egyptian Petroleum Research Institute.*

12:15 p.m. – 1.00 p.m.

*AFM versus SEM in Material Science:
Principles and Applications*

Prof. Manar Abdel-Raouf
*Prof. of Polymer Science at the Egyptian
Petroleum Research Institute.*

Dr. Alaa Ibrahim AbdelAziz
*Assist. Researcher at the Egyptian
Petroleum Research Institute*

Webinar IV
EM impact in life Science

Chairpersons

Prof. Amal Abou ElGhait *Sphinx University* **Prof. Hoda Yehia** *Theodor Bilharz Research Inst.*

1:00 p.m. – 1:30 p.m.

*Artificial intelligence for Electron
Microscopy Image Processing:
Methods, Techniques and Tools*

Dr. Omar Sayouh
*Clinical Microbiologist, EM Department
Director of IPC unit, Theodor Bilharz
Research Institute & Clinical Microbiology
Consultant, US Naval Medical Research
Unit-3*

1:30 p.m.-2.00 p.m.

*Electron Microscopy in Pathology, Cell
Biology, and Biochemistry Research*

Dr. Emine Korkmaz
*Product Specialist at Thermo Fisher
Scientific in Eindhoven, the Netherlands.*

Break 2:00p.m.– 2:30 p.m.
During Break documentary Video for ESEM will be displayed

Workshop III
*Spotlight on the Centre for Excellence in
Research of Advanced Agricultural Sciences*

Chairpersons

Prof. Yasser Shabana *Mansoura University*

2:30 p.m.-3:30 p.m

*Examination & Characterization of
Nanoparticles Using Transmission
Electron Microscopy*

Prof. El-Metwally Mostafa Selim
*Dean of the Faculty of Agriculture and the
Head of the Centre for Excellence in
Research of Advanced Agricultural Sciences
Damietta University.*

Dr. Khaled Sayed- Ahmed

		<p><i>Assistant Professor of Chemistry, Agricultural Chemistry Department, Faculty of Agriculture, Damietta University.</i></p> <p><i>Eng./ Olaya Adel Tafah Damietta University Eng/ Shimaa Kamel Helaleya Damietta University</i></p>
3:30 p.m.:3: 40 p.m.	<i>Event Wrap up</i>	<i>Prof. Naglaa Sarhan Conference General Secretsary</i>
3:40 p.m.-3:45 p.m.	<i>Closing Message</i>	<i>Prof. Soheir Mansy President of the conference</i>