



**11th International Conference on
Nuclear
Sciences and Applications
ESNSA-11
and
Second IRPA-EGYPT Radiation Protection Workshop**

AGENDA

Organized by

**The Egyptian Society of Nuclear Sciences
and Applications
(ESNSA)**

Held at

**Hurgada - Egypt
Sonesta Pharaoh Beach Resort
20-24 February 2016**



برنامج

المؤتمر الدولي الحادي عشر

للعلوم النووية وتطبيقاتها

20 - 24 فبراير

الغردقة - مصر - 2016

تنظيمه

الجمعية المصرية للعلوم النووية وتطبيقاتها

المنعقد بفندق سونستا الفرعون - الغردقة

البحر الاحمر - مصر

20-24 Feb.2016

ESNSA - 11
11th International Conference on Nuclear Sciences and Applications

Hurghada - Egypt

11th INTERNATIONAL CONFERENCE ON NUCLEAR SCIENCES AND APPLICATIONS

**and
Second IRPA-EGYPT Radiation Protection Workshop**



AGENDA

Organized by

**The Egyptian Society of Nuclear Sciences and
Applications (ESNSA)**

Member of the International Nuclear Societies Council (INSC)

The Egyptian Atomic Energy Authority (EAEA)

February (20-24), 2016

Hurghada, Red Sea, Egypt, Sonesta Pharaoh Beach Resort 5*

Preamble

The Egyptian Society of Nuclear Sciences and Applications
(ESNSA)

Organizes an international conference every four years that deals with the current activities in nuclear sciences and applications. It aims at providing a forum for exchange of knowledge in the interdisciplinary fields on nuclear sciences and their applications.

The conference scientific activities will include invited talks and keynote presentations by international and national recognized scientists to highlight recent progress in nuclear sciences, as well as contributed papers dealing with ongoing research

CONFERENCE STEERING COMMITTEE

Chairman: Prof. Hisham F. Aly

Deputy Chairman: Prof. Ibrahim Yassin Moustafa

General Secretary :Prof. Abdel Fattah Helal

Prof. Abdelwahab Elsayed

Prof. Abdel Shafy Ragab

Prof. Sofia YahiaAfifi

Prof. Farid Abou El- Nour

Prof. Mohamed.A.Gomaa

Prof. El-Sayed Hegazy

Prof. Ahmed Ashour

Prof. Azza Shahin

Prof. Hamdi M. H. Gad

Prof. Sayed S. Metwally

Dr. Safwat Salama

Dr. Seham El-Marakby

Acknowledgement

The conference organizing committee expresses gratitude for the financial support of the following organizations:

Sinai University

Satco (SCIENTIFIC AND TECHNICAL CONSULTATION OFFICE)

ESNSA Conference Awards

The ESNSA Conference board is pleased to inform junior scientists that several awards are offered by senior Professors in different disciplines of the Conference.

These awards will be given for the best presentation in the different sections.

The ESNSA conference Board invites all the junior scientists to make their affords to get the honorable awards. The prizes are awarded by:

Prof. Hisham F. Aly

Prof. Ibrahim Yassin Moustafa

Prof. Abdel Fattah Helal

Prof. Abdelwahab Elsayed

Prof. Abdel Shafy Ragab

Prof. Sofia Yahia Afifi

Prof. Farid Abou El- Nour

Prof. Mohamed.A.Gomaa

Prof. El-Sayed Hegazy

Prof. Ahmed Ashour

Prof. Azza Shahin

11th International Conference on Nuclear Sciences and Applications
20-24 Feb.2016

Abbreviations

IT	Invited Talk
KN	Key Note
Phys.	Physics
Rad. Chem.	Radiation Chemistry
Bio.	Biology
Radio. Chem.	Radio Chemistry
Agr.	Agriculture
Ex & Sep. Chem.	Extraction & Separation Chemistry
WWT	Water and Waste Treatment
Mat. Sci.	Material Sciences
Nucl. Safety	Nuclear Safety
Rad. Prot.	Radiation Protection
Med. Rad. Prot.	Medical Radiation Protection
IRPA-Eg.	IRPA Egypt Radiation Protection Workshop
P	Poster

Time Table

Saturday 20/2/2016 (Hall A)			
5:00	Registration and opening ceremony		
Sunday 21/2/2016			
Time	Hall (A)		
9:00 – 10:00	Invited Talks		
	Hall (A)	Hall (B)	Hall (C)
11:00 – 1:00	Phys. 1	Rad. Chem.	Bio.
1:00 – 3:00	Lunch Break		
3:00 – 5:00	Phys. 2	Radio. Chem.	Agr.
Monday 22/2/2016			
Time	Hall (A)	Hall (B)	Hall (C)
9:00 – 11:00	Ex & Sep. Chem.	Workshop (IRPA-Eg)	Reactors
11:00 – 1:00	WWT	Workshop (IRPA-Eg)	Reactors
1:00 – 3:00	Lunch Break		
3:00 – 5:00	Mat. Sci.	Workshop (IRPA-Eg)	Nucl. Safety
5:00 – 7:00		Poster Sessions	
Tuesday 23/2/2016			
Time	Hall (A)		
9:00 – 11:00	Milestones in the History of Atomic Energy in Egypt (In Arabic)		
11:00 – 1:00	Closing Ceremony		

Saturday

20/2/2016

Opening Ceremony

Saturday 20/2/2016

5.00 : 6.00 PM

Sunday

21/2/2016

Invited Talks

Hall (A)

Sunday 21/2/2016

Invited Talk 9.00 - 10.00:

Chairmen :

Prof. Dr. H. F. Aly

Prof. Dr. Ibrahim Y. Moustafa

أ.د/ هشام فؤاد علي

أ.د/ ابراهيم يس مصطفى

	Title	Author
IT 1	Review of Some Treatment Technologies for Radioactive Solid and Liquid Wastes James D. Navertil	James D. Navertil
IT 2	UNSCEAR's Global Survey of Medical Exposure Ferid Shannoun	Ferid Shannoun

Sunday 21/2/2016**Chairmen :****Prof. Dr. M.N. Comssan**

أ.د/ محمد ناصف قمصان

Prof. Dr. S. U. El. Kameesy

أ.د/ سمير يوشع الخميسي

Prof. Dr. K. Essa

أ.د/ خالد عيسى

Hall (A)**1) Physics (1) 11:00 -1:00 am:**

	Title	Author
Phys. 1-1	Theoretical Solution of the Diffusion Equation in Unstable Case Khaled S.M. Essa, Aziz N. Mina, Hany S. Hamdy and Ayman A. Khalifa	Khaled S.M. Essa
Phys.1- 2	Excitation of Surface Modes by Electron Beam in Semi-Bounded Quantum Plasma B. F. Mohamed and N. M. Elbasha	Bahaa F. Mohamed
Phys.1- 3	Studying The Sensitivity of Halo Nucleus – Nucleus Elastic Scattering to the Halo Nucleus Density Distribution M.A.M. Hassan, M.S.M. Nour El-Din, A. Ellithi and H. Hosny	H. Hosny
Phys.1- 4	Differential Elastic Cross Section for K^- Meson with ^{12}C and ^{40}Ca Nuclei by Mesons Exchange Potential Sh.M.E. Sewailem.	Sh.M.E. Sewailem.
Phys.1- 5	Non-Gaussian Stochastic Radiation Transfer in Finite Planar Media with Rayleigh Scattering M. Sallah	M. Sallah

Sunday 21/2/2016**Chairmen :****Prof. Dr. A. H. Zahran**

أ.د/ عبد الحميد زهران

Prof. Dr. El-Sayed Hegazy

أ.د/ سيد حجازي

Prof. Dr. Nabila A. Maziad

أ.د/ نبيلة مزيد

Hall(B)**2) Radiation Chemistry 11:00 -1:00 pm:**

	Title	Author
Rad. Chem. 1	Gamma-Radiation Induced Copolymerization of Sodium Alginate/Acrylamide for Application in Water Decontamination of Some Heavy Metals Nabila Ahmed Maziad, Mona Mohsen, Ehsan Gomaa, Reem Mohamed	Nabila Ahmed Maziad
Rad. Chem. 2	Colloidal Copper Nanoparticles: Synthesis, Characterization and Catalytic Behavior Z. I. Ali, O.A. Ghazy, G. Meligi, H. H. Saleh and M. Bekhit	Z. I. Ali
Rad. Chem. 3	Radiocarbon Dating and Paleoclimatic Reconstruction M.A.Sadek	M.A.Sadek
Rad. Chem. 4	Effect of Ilmenite on the Attenuation Coefficient of Gamma Ray Shielding Cementious Matrix N. A. El-Faramawy, Wageeh R, T. El-Zakla, M. S. Sayed, M. I. El-Dessouky and K. Sakr	Khaled Sakr

Sunday 21/2/2016**Chairmen :****Prof. Dr. R. Yossri**

أ.د/ رأفت يسري

Prof. Dr. Samir Abd Elazziz

أ. / سمير عبد العزيز

Prof. Dr. A. I. Hammad

أ.د/ علي حماد

Hall (C)**3) Biology : 11:00 -1:00 pm:**

	Title	Author
Bio. 1	Horizontal gene transfer of trxB in new selenite reducing bacteria <i>Zobellella denitrificans</i>. Saeed, A.M.1, El-Baghdady, K.Z.1, Zakaria, A.E.2, El Shatoury, E.H.1, Magdi, M.3 and Osman, A.M.4	A.E.Zakaria
Bio. 2	Identification of Polycyclic Aromatic Hydrocarbon Degrading Bacterial Strain and its Ability to Degrade Phenanthrene and its Pathway Abo-State ,M.A.M. Saleh,Y. and Partila,A.M.	M.A.M Abo-State
Bio. 3	Monitoring Growth and Lipid Production of Some Egyptian Microalgae Z.K. El-Baghdady, A.E. Zakaria, M.H. Abd El Fatah , L.A. Mousa. and H.N. Sadek.	H.N. Sadek
Bio. 4	The Possible Protective Role of Amygdaline Against 99m Tc - Phytate Induce Certain Biochemical and Cytogenetic Changes in Albino Mice I.F. Alwan , F. M. Abid	I.F. Alwan
Bio. 5	Thermal Treatment and Gamma Irradiation Induced Alterations in Certain Biological Aspects of the Cotton Leaf Worm <i>Spodoptera Littoralis</i> (Boisd) Abd El-Rahman, H.A. Ibrahim, S.M. And Hazaa, M.A.M.	Magdia Hazaa
Bio. 6	Effect of <i>Salvia Aegyptiaca</i> Aqueous Extract on Some Neurohormonals Disorders Induced by Carbon Tetrachloride in Adult Male Albino Rats Seham, M. Abdel Kader	Seham, M. Abdel Kader
Bio. 7	Effect of Gamma Irradiation on Some Tissue Elements of <i>Tribolium Confusum</i> Adults and Some Their Diets H. F. Mohamed, S. A. Mohamed and A. I. Attia	H. F. Mohamed

Sunday 21/2/2016**Chairmen :**

Prof. Dr. A. I. Helal

أ.د/ عبد الفتاح هلال

Prof. Dr. A. H. Ashour

أ.د/ أحمد عاشور

Prof. Dr. M.A. Amr

أ.د/ محمد أحمد عمرو

Hall (A)**4) Physics (2) 3:00 - 5:00 pm:**

	Title	Author
Phys.2- 1	Precise Measurements of the Natural Radioactivity Background in King Saud University, Girls Branch Using Different Nuclear Techniques S. U. El. Kameesy, M. S. Garawi, H.A. Saudi and A. Al Qahtani	S. U. El. Kameesy
Phys. 2-2	Elemental and Isotopic Characterization of Date Palm (<i>Phoenix Dactylifera</i> L.) Collected from North Arabian Peninsula M. A. Amr, N. Dawood, A. I. Helal	M. A. Amr
Phys. 2-3	Ultra-Trace Determination of ⁹⁰Sr, ¹³⁷Cs, ²³⁸Pu, ²³⁹Pu, and ²⁴⁰Pu By Collision/Reaction Cell-ICP-MS/MS: Establishing a Baseline for Global Fallout in Qatari Soil and Sediments M. A. Amr, S. S. Al-Rumaihi, A. I. Helal, A.T. Al-Kinani	M. A. Amr
Phys.2- 4	Optical and Electrical Properties of Ion Beam Effects in Ge₁₀Se₇₀Bi₂₀ Thin Films A.M. Abdel Reheem, A.H. Ashour, N. E. Kassem, M.M. Abdelhamid	M.M. Abdelhamid
Phys.2- 5	Surface Modification and Metallization of Polycarbonate using Low Energy Ion Beam A.M. Abdel Reheem, A.H. Ashour, M.I.A. Abdel Maksoud	M.I.A. Abdel Maksoud
Phys.2- 6	Structure Study of Aluminum Coating on Magnesium Alloy by Cold Cathode Ion Source A. M. Abdel reheem , A.H. Ashour , M. Nabil Yasein , M.I.A.Abdel Maksoud	A.m. Abdel Reheem

Sunday 21/2/2016**Chairmen :****Prof. Dr. M. Raiehe**

أ.د/ مجد الدين رعية

Prof. Dr. Sohir Elreefy

أ.د/ سهير الزيفي

Prof. Dr. Emad H. Borai

أ.د/ عماد برعي

Hall (B)**5) Radiochemistry 3:00 - 5:00 pm:**

	Title	Author
Radio. Chem. K N 1	Chemical Distribution of Hazardous Natural Radionuclides During Monazite Mineral Processing Emad H, Borai	Emad H, Borai
Radio. Chem. K N 2	Recent Advanced Research on Superheavy Elements, Seaborgium-106, using Automatic SISAK Technique M.F. Attallah	M.F. Attallah
Radio. Chem. 3	Technical Methodology to Save the Amount of Enriched Zinc Exploited in the Production of Radiogallium S. A. Kandil, M. Al-Abyad, Z Szucs	M. Al-Abyad
Radio. Chem. 4	Risk Analysis and Exposure Dose to Radionuclide and Other Elements Released from Porcelain Pots. By: R. A. Hegazy., T. M. Morsi., N. H. M. Kamel	N. H. M. Kamel

Sunday 21/2/2016**Chairmen :****Prof. Dr. Hafez El Fouly**

أ.د/ حافظ الفولي

Prof. Dr. Abdel Shafy I. Ragab

أ.د/ عبد الشافي رجب

Prof. Dr. Soliman M.Soliman

أ.د/ سليمان محمد سليمان

Hall (C)**6) Agriculture 3:00 - 5:00 pm:**

	Title	Author
Agr. 1 K N	Contribution of Nuclear Science in Agriculture Sustainability Soliman M.Soliman	Soliman M.Soliman
Agr. 2	Comparative Study of Organic and/or Mineral Nitrogen Fertilizers in Growth and Yield of Wheat (<i>Triticum Aestivum</i> L.) Using ¹⁵N Tracer Technique. Ismail, M.M and Ahmed, A. Moursy	Ismail, M.M
Agr. 3	Barley Nitrogen Acquisition as Affected by Water Regime, Fertilizer Rates and Application Mode using ¹⁵N Stable Isotope Gaber, El. I., Samak, M. R., Galal, Y.G.M. and Mohamed, M.A.	Galal, Y.G.M.
Agr. 4	Effect of Organic Fertilizer on Nitrogen Fixed by Sorghum Grown on Sandy Reclaimed Soil using ¹⁵N Tracer Technique Abdel Aziz, H.A., EL Hassanin, A.S., Galal, Y.G.M., Khalifa, A.M., Abdel Salam, M.F	Abdel Aziz, H.A
Agr. 5	Influence of Gamma Irradiation and Nitrogen Fertilization levels on Growth and Yield of Maize (<i>Zea mays</i> L.) grown on sandy soil Ismail, M.M , Mousa, E. A ,Moursy, A. A. and Rizk, M. A.	Moursy, A. A.
Agr. 6	Evaluation of Some Rice Mutants Induced by Gamma Radiation for Yield and its Attributes in Two Different Locations. Eman M. Fahmy, S.E.E. Sobieh,	S.E.E. Sobieh
Agr. 7	Evaluation of Promising Mutant Lines of Canola Grown Under New Reclamation Lands (Harsh Lands) I.M. Amer, Mona E. Farrag ,S.S. Soliman , and Amina A. Hassan	Ibrahim Amer

Monday

22-2-2016

Monday 22/2/2016**Chairmen :****Prof. Dr. James D. Navertil**

أ.د/ جايمس نافارتيل

Prof. Dr. J. Daoud

أ.د/ جاكلين داوود

Prof. Dr. Sofia Y. Afifi

أ.د/ صوفيا يحيي عفيفي

Hall (A)**7) Extraction and Separation Chemistry 9:00 -11:00 am:**

	Title	Author
Ex. & Sep. Chem. 1 K N	CYANEX Reagents as Potential Extractants for Valuable and Hazardous Elements from Different Aqueous media J. A. Daoud	J. A. Daoud
Ex. & Sep. Chem. 2	Mathematical Modeling of the Extraction of Uranium from Waste Solution Using Liquid Emulsion Membrane Y.A.Abdelaziz, Y.T.Mohamed, N.Abdelmonem and AKaramelden	Y.A.Abdelaziz
Ex. & Sep. Chem. 3	Optimization of Factors Affecting Leaching of Copper from Oxidized Minerals by Sulfuric Acid Using Orthogonal Array Design Methodology Z.H. Ismail, and H.F. Aly	Z.H. Ismail
Ex. & Sep. Chem. 4	Possible Mechanisms for the Binding of Organic and Hybrid Organic Resin with Copper Ions in Aqueous Solutions A. Massoud and S. A Abd El Aal	A. Massoud
Ex. & Sep. Chem. 5	Mineral Chemistry and Genesis of Wadi Abu Rusheid Beryl, South Eastern Desert, Egypt. Khaleal F. M.	Khaleal F. M

Monday 22/2/2016**Chairmen :****Prof. Dr. M. A. Gomaa**

أ.د/ محمد أحمد جمعة

Prof. Dr. E. H. Amin

أ.د/ عصمت هاتم أمين

Prof. Dr. A.Z. Hussein

أ.د/ عبد الرازق زكي حسين

Hall (B)**8) Radiation Protection Workshop:****Session (I): Invited Talks 9:00 -11:00 am**

	Title	Author
Rad. Prot. 1	From Radiation Shielding to Security Screening Dr. Mohamed Gomaa	Mohamed Gomaa
Rad. Prot. 2	Radioactive Materials Transport, Experience Gained Over 50 Years In Egypt Rifaat Mohamed Kamel El-Shinawy.	Rifaat El-Shinawy
Rad. Prot. 3	Shielding Of Nuclear Power Plants E.H.Amin	E.H.Amin
Rad. Prot. 4	On the Regulatory Requirements to Combat Illicit Trafficking of Hazardous Materials A.Z. Hussein and Kh. M. Zakaria	A.Z. Hussein

Monday 22/2/2016**Chairmen :****Prof. Dr. N. Ashoub**

أ.د/ نجيب عشوب

Prof. Dr. Moustafa Aziz

أ.د/ مصطفى عزيز

Prof. Dr. A.A. El-Kafas

أ.د/ عبد الرحمن القفص

Hall (C)**9) Reactors (1) 9:00 -11:00 pm:**

	Title	Author
Reactors 1-1 K N	مصادر الطاقة الكهربائية الحالية والمستقبلية بجمهورية مصر العربية ابراهيم داخلي عبد الرازق ، أحمد حسام الدين شاهين ، محمد عزت عبد العظيم متولى ، ابراهيم على العسيري	محمد عزت
Reactors 1-2	Thorium-Based Spent Fuel Characteristic Parameters Evolution After Irradiation in Candu Reactors C. A. Margeanu, G. Olteanu	C. A. Margeanu
Reactors 1-3	STGR-20 Reactor for Egypt Ragae Zaghoul	Ragae Zaghoul
Reactors 1-4	Parity Simulation of A Neutronic Transient Studies for PWR 900-MW (e) Tarek Nagla	Tarek Nagla
Reactors 1-5	Effect of MOX Utilization on the Design Parameters of BN-600 Fast Reactor Core Moustafa Aziz and Mohga Hassan	Moustafa Aziz
Reactors 1-6	Loss of Flow Accident (LOFA) Analysis using LabView-based NRR Simulator Arafa A., Saleh H. I. and Ashoub N	Ashoub N

Monday 22/2/2016**Chairmen :****Prof. Dr. Farid Abou El-Nour**

أ.د/ فريد حسني أبو النور

Prof. Dr. N. Belacy

أ.د/ نبيل بلاسي

Prof. Dr. E. Zakarya

أ.د/ عصام زكريا

Hall (A)**10)Water and Waste Treatment 11:00 -1:00 am:**

	Title	Author
WWT 1 K N	Desalination Studies Using Forward Osmosis Technology Farid Abou El-Nour	Farid Abou El- Nour
WWT 2	Massive Production of Natural Absorbents from Recycling of Date Pits and Camel Bones for Water Treatment Nasser Awad	Nasser Awad
WWT 3	Sorption of Cesuim from Aqese Soliution by Some Egyptian Pottery Materials Mobarak A.Sayed, A.I.Helal, S.M.Abdel Wahab and H.F.Aly	Mobarak A.Sayed
WWT 4	NORM in Waste Drived From Oil And Gel Production M.F.Abdel-Sabour	M.F.Abdel- Sabour
WWT 5	Natural Attenuation Capacity Indicators (NACI) for Groundwater Remediation, to the East of Cairo M. A. Sadek, A.A.Imbaby, R.A.Rayan	R.A.Rayan

Monday 22/2/2016**Chairmen :****Prof. Dr. R. M. El Shinawy**

أ.د/ رفعت الشناوي

Prof. Dr. Cristina Margeanu

أ.د/ كرسيتينا مارجينو

Hall (B)**11) Session (II): Radiation Protection Research 11:00 - 1:00 pm**

	Title	Author
Rad. Prot. 1	Luminescent Nanophosphors and their Applications in Radiation Dosimetry Nagamani Suriya Murthy	Nagamani Suriya Murthy
Rad. Prot. 2	Theoretical Approach to Calculate the Exposure Dose Rate Due to Gamma Rays from a Contaminated Pipe with Radioactive Material W. M. Badawy and S.V. Mamikhin	Wael Badawy
Rad. Prot. 3	Thermoluminescence Features of Nanosized H-Bn after UV Irradiation A.M. Henaish1, D.M. Spiridonov , A.S. Vokhmintsev , I.A. Weinstein	Ahmed Maher Ahmed Henaish
Rad. Prot. 4	Study of Some Parameters Affecting the Biosorption of ¹³⁷Cs Radionuclide by Non-living Biomass S.A.Abu Khedra,H.M.Killa,W.E.Y. Abdelmalik and M.Elrafie	Wasfi Abdel malik
Rad. Prot. 5	Radiation Protection and its Relevant Radiation Processing Facilities at NCRRT, AEA Egypt A.M.Eid and M.A.Abdelrhman	Mostafa Abdelrhman

Monday 22/2/2016**Chairmen :****Prof. Dr. M. Salama**

أ.د/ محمد سلامة

Prof. Dr. E. Amin

أ.د/ عصمت هانم أمين

Prof. Dr. M.K.Shaat

أ.د/ محمد كمال شعت

Hall (C)**12) Reactors (2) 11:00 -1:00 pm:**

	Title	Author
Reactors 2-1	Coefficients of the Six Factors Formula in Reactor Moderated by Mixtures of Light and Heavy Waters at Different Ratios Mohamed E. Nagy, Mohamed N. Aly, Fatma A. Gaber, Mahmoud E. Dorrah	Mahmoud El-Sayed Ahmed Dorrah
Reactors 2-2	Availability Evaluation for Auxiliary Feed Water System Mohamed Ahmed Elbaz, Ahmed Sultan and Tarek Nagla	Mohamed Ahmed Elbaz
Reactors 2-3	Main Steam Line Break Accident Analysis in 2775 MWth PWR Reactor Core Muhammad Eissa , Tarek Nagla, Alya Badawi	Muhammad Eissa
Reactors 2-4	Nuclear Emergencies in Nuclear Reactors M.K.Shaat	M.K.Shaat
Reactors 2-5	Recent Advances in Nuclear Power Plants A.A. El-Kafas	A.A. El-Kafas
Reactors 2-6	Processing and Characterisation of Simulant Non-Oxide Fuel for Generation IV Reactors O. Farid	O. Farid

Monday 22/2/2016**Chairmen :****Prof. Dr. A. A. El-Sayed**

أ.د/ عبد الوهاب عبد الرازق السيد

Prof. Dr. M.E. Abd El-Azim

أ.د/ محمد عزت عبد العظيم

Prof. Dr. M. Ashour

أ.د/ محمود عاشور

Hall (A)**13) Material Sciences 3:00 - 5:00 pm:**

	Title	Author
Mat. Sci. 1	GPU-Based Implementation of Crystal Identification Algorithms M. Sayed, A.A. Arafa and H.I. Saleh	H.I. Saleh
Mat. Sci. 2	Effect of Natural and Pre-aging on Artificial Aging of 6061 Al Alloy M.E. Abd El-Azim, O. E. El-Desoky and M. R. El-Koussy	M.E. Abd El-Azim
Mat. Sci. 3	Cylindrical-Design, Dehydration and Sorption Properties of Easily Synthesized Magnesium Phospho-silicate Nanopowder Ismail M. Ali, M. Y. Nassar, Y. H. Kotp and M. M. Khalil	Ismail M. Ali
Mat. Sci. 4	Application of Taguchi Methodology on the Preparation of Mullite Precursor by Hydrolysis Method S. H. El-Bialy, M. A. A. El-Masry, M. A. M. El-Saeed, G. M. M. El-Kady	S. H. El-Bialy

Monday 22/2/2016**Chairmen :****Prof. Dr. M. A. Gomaa**

أ.د/ محمد أحمد جمعة

Prof. Dr. Azza Hammoh

أ.د/ عزة حمو

Hall (B)**14) Session (III): Medical Radiation Protection 3:00 -5:00 pm**

	Title	Author
Med. Rad. Prot. 1	Radiation Health Effects Mahmoud Hassan Shabon	Mahmoud Hassan Shabon
Med. Rad. Prot. 2	Hazard of Radiotherapy in Oncologic Patients A. Abaza	A. Abaza
Med. Rad. Prot. 3	Occupational radiation exposure in Tunisian Nuclear medicine Department. A. Hammou,, H.Kamoun, C. Chouchane	A. Hammou
Med. Rad. Prot. 4	Radiation Protection Round Table Discussion M.A.Gomaa	M.A.Gomaa

Monday 22/2/2016**Chairmen :****Prof. Dr. M. Barakat**

أ.د/ محمود بركات

Prof. Dr. A.Z. Hussein

أ.د/ عبد الرازق حسين

Prof. Dr. W. Salem

أ.د/ وفاء سالم

Hall (C)**15) Nuclear Safety 3:00 -5:00 pm:**

	Title	Author
Nucl. Safety 1	On The Right Track of Investigations; Nuclear Accidents Between Fact and Fictions N. S. Mahmoud	N. S. Mahmoud
Nucl. Safety 2	A Hypothetical Accident Scenario for a Fire Accident with UF₆ Packages Traversing Water Path Canal Close to a Highly Densely Populated City M. Salama	M. Salama
Nucl. Safety 3	Design and Simulation of 5-DOF Vision Based Manipulator Increases Radiation Safety for Industrial Co-60 Irradiators A. E. Salman, M. R. Roman, A. B, Keshk,, K. A. Sharshar,	Ahmed Eslam
Nucl. Safety 4	Steady-State Neutronic Calculations for AP1000 using QUARK E.H. Amina, Hamdy M. Husseinb, Hala K. Selim	Hala K. Selim
Nucl. Safety 5	Denatured Molten Salt Reactors (DMSR), Nuclear Option For Developing Countries Badawy M. El-sheikh	Badawy M. El-sheikh

Monday 22/2/2016**Chairmen :****Prof. Dr. Ragaee Zaghoul**

أ.د/ رجائي زغلول

Prof. Dr. N. El Sawy

أ.د/ نعيم الصاوي

Prof. Dr. S. Elhemamy

أ.د/ سهير توفيق

Hall (B)**16) Posters (I) 5:00 - 7:00 pm:**

	Title	Author
P. I -1	Evaluating of The Effect of Nuclear Power Plant Buildings on the Atmospheric Dispersion Behavior of Released Radioactive Materials N.N.Nassar, F.S.Tawfik, S. A. Agamy, and T.F.Nagla	N.N.Nassar
P. I -2	Regulatory Aspects for Site Selection for Radiological and Nuclear Installation N. M. Sirag	N. M. Sirag
P. I -3	Effect of Developing Glass Efficiency Reducing Energy Usage Amer, H.H , Kamel, R , Haleem, A , Alaraby, N.A	Alaraby, N.A
P. I -4	Review of Geophysical and Environmental Engineering Methods, for Site Characterization of Nuclear Waste Disposal Sites, by Using GIS Soheir el hemamy, Nadia Mahmoud Sirag	Soheir Elhemamy
P. I -5	Grading of Requirements for Radioactive Waste Activities in Nuclear Research Reactors: Radioisotope Production Facilities Yasser E. Tawfik	Yasser E. Tawfik
P. I -6	Radiological Impact Assessment to the Environment Due to Waste From Disposal of Porcelain T. M. Morsi, R. A. Hegazy and W. M. Badawy	T. M. Morsi
P. I -7	Water Hyacinth for Phytoremediation of Radioactive Wastes Simulate Contaminated with Cesium and Cobalt Radionuclides Saleh, H.M.	Hosam El-Din Mostafa Saleh

Monday 22/2/2016**Chairmen :****Prof. Dr. F.A.Shehata**

أ.د/ فاطمة عبدة شحاتة

Prof. Dr. Azza Shahin

أ.د/ عزة عبد الفتاح شاهين

Prof. Dr. A. El Kmash

أ.د/ أحمد القماش

Hall (B)**16) Posters (II) 5:00 - 7:00 pm:**

	Title	Author
P. II -1	Recycling of Aluminum Waste for Production of Alumina as a Sorbent Material Sohair Elreefy, Monira Ghoniem, Tarek Sami, Saad Abdel Wahab	Sohir Elreefy
P. II -2	Application of Hydrochemical and Isotopic Techniques to Study Groundwater Resources Along Ismailia Canal, Egypt W.M. Salem, A.M.Khoudary , M.M.K.Fouad	W.M. Salem
P. II -3	Increase the Selectivity and Capacity of Silica Extracted from Rice Husk Ash for Adsorption of Cobalt: A fixed Bed Column Study Hoda Ahmed Omar	Hoda Ahmed Omar
P. II -4	Removal of Co²⁺ and Ni²⁺ using Natural Bentonite and Kaolin Clays from Simulated Liquid Waste F.A.Shehata ,M.A.E.Youssief, Y.F.Lasheen, A.F.Seliman, M.M.Abo-Aly	Fatma Shehata
P. II -5	TL-Properties of Some Environmental Materials and Assessment the Effects of Other Different Parameters. H.S. Hafez, Emad R. Shehaa, K.E. Abd-Elmageed, M.A. El-Kolaly and M.S. Sayed	Emad R. Shehaa
P. II -6	Purification of Wastewater Effluent from Organic Ligand using one Step Chemically and Physically Rice Husk Activated Carbon: Ar(III) as a Case Study. H.M.H. Gad, T.F. Mohammeden and M.A. Mahmoud	H.M.H. Gad
P. II -7	Adsorption Behavior of ¹³⁴Cs Radionuclide onto Grafted Chitosan Deravative Acrylic Acid Polymer E. Metwally, R.R. Ayoub , M. Atrees and Hend Salem	E. Metwally

Monday 22/2/2016**Chairmen :****Prof. Dr. Z. Ismail**

أ.د/ زكريا اسماعيل

Prof. Dr. E. Metwally

أ.د/ عصام متولي

Prof. Dr. K. Sakr

أ.د/ خالد صقر

Hall (B)**16) Posters (III) 5:00 - 7:00 pm:**

	Title	Author
P. III -1	Dispersion Modeling: Methodology and New Trends I. M. Aly, F. S. Tawfik and H. B. Hassan	H. B. Hassan
P. III -2	A Preliminary Probabilistic Risk Assessment of a Hypothetical Accidental Release from Radioactive Waste Repository. M. A. Sadek , k.hagagg, M.F.ElShahat	Kamelia Hagag
P. III -3	Comparative study of Cadmium(II) Removal from Chloride and Nitrate Solution using Amberlite IR-120 and Dowex 1X10 M. M. Shehata, S. A. Waly and H.H. Mahmoud	Hazem Hassan Mahmoud
P. III -4	Effect of Organic/Mineral-N Sources on Fe, Zn and Cu uptake by Sorghum Grown on Clay Soil Galal, Y.G.M., Abdel Aziz, H.A., and Degwy, Sh. M.	Degwy, Sh. M
P. III -5	Characterization of Glaze Layer on Clay Irradiated by Plasma Immersion Ion Implantation S. A. Abd El Aal, A. A. El-Shaftawy, A. Hassan, M. M. Shehata and M. H. Ebrahim	S. A. Abd El Aal
P. III -6	Neutron Capture Cross-Section Measurements and Theoretical Calculation for 186W (n, g) 187W Reaction M. Al-abyad, Gehan Y. Mohamed	Gehan Y. Mohamed
P. III -7	Radiation Protection and Regulatory Aspects of Waste NORM Petroleum Samples Talaat Salah El din Ahmed	Talaat Salah El din Ahmed
P. III -8	Characterization of Solid/Liquid Waste Samples Produced from Oil Production Fields M.E.M. Amin, Y.M. Abass, M.A.M. Gomaa, A.I. Helal and H.S. Eissa	M.E.M. Amin

Tuesday
23/2/2016

Tuesday 23/2/2016**Hall (A)****Reporters :****Prof. Dr. A. I. Helal**

أ.د/ عبد الفتاح هلال

Prof. Dr. A. H. Ashour

أ.د/ أحمد عاشور

Dr. S. M. El-Marakby

د. / سهام المراكبي

Dr. S. Salama

د. صفوت سلامة

17 Milestones in the History of Atomic Energy in Egypt (In Arabic) 9:00-11:00 am :

	Title	Author
1	علامات مضيئة في المسيرة العلمية للطاقة الذرية المصرية من 1955 حتي الآن (باللغة العربية)	مقرر الجلسة أ.د/ هشام فؤاد على

Hall (A)	
11:00 – 1:00	Closing Ceremony