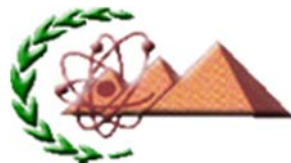


**12 th Radiation Physics and Protection Conference**  
**27-29 October 2018 - Cairo**

**Under the Auspices of**  
**Prof Mohamed Shaker**  
**Minister of Electricity and Renewable Energy**

**And**

**Prof Atef Abdel Hamid Abdel Fattah**  
**Chairman of**  
**Egyptian Atomic Energy Authority (EAEA)**



**And**

**National Network of Radiation Physics (NNRP)**



**Conference Chairman**

**Prof Mohamed Ahmed Mahmoud Gomaa**

**invite you to attend 12<sup>th</sup> Radiation Physics and protection conference that  
shall be held at EAEA Headquarter, Nasr City, Cairo, Egypt from 27-29  
October 2018 .**

# Day-1      27 Oct. 2018

9-10 Registration

10-10.30 Opening

11-12

Invited Talks-1

Chairman ; Prof M N H Comsan

1-1) IAEA Approach on Safety Enhancement of Research Reactors

Amgad M Shokr

2-2) The United Nations Scientific Committee on the Effects of Atomic Radiation ( UNSCEAR)

Mohamed Gomaa , Ferid Shannon

3-3) History of IRPA and Radiation Protection Challenges in Africa

Mohamed Gomaa

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12-13

SS-1 Medical Physics & Radiation Protection

Chairman : Prof A A Ahmed

4-1-1) Medical Physics Education and Training in MEFOMP Countries

Ibrahim Duhaini

5-1-2) Improving Access to Quality Cancer Management through Sustainable Capacity Building

Khaled El Shahat

( Parellel session)

12-13

SS-2 Theoretical Physics

Chairman : Prof M A Farid

7-2-1) Direct Mathematical Calculation of the Solid Angle Subtended by a Circular Detector at Linear Sources

Mahmoud I. Abbas

8-2-2 )GeoEfficiency Software Package Usage Tutorial

Mohamed Krar

13-14

SS-3 Medical Physics -1

Chairman : Prof Ehab Marouf

9-3-1) CT Isotope Imaging Using Nuclear Resonance Fluorescence for Future Nuclear Safeguards: Monte Carlo Simulation of Prototype Experiment with Pb-208

Hani Negm

**10-3-2) Limiting Exposure to Children to gamma radiation from released patients treated with I-131**  
**Eman. Ibrahim**

**11-3-3) Breast Cancer: From Diagnosis to Therapy**  
**Ibrahim Duhaini**

**12-3-4) Egyptian Association for Medical Physics, (EAMP) from 1998 - 2018**  
**Historical Overview, Present Activities and International Position**  
**Nashaat A. Deiab**

**( parallel session)**

**13-14** **SS-54 Environmental Physics** **Chairman : Prof Atef E I Taher**

**13-4-1) Evaluation of Anthropogenic and Geogenic Impacts on Marine Sediments of Egyptian Sector of the Red Sea by NAA and ICP-MS**

**Atef El-Tahar**

**14-4-2) Analysis of Petroleum Sludge of Eastern Desert Using an INNAA and (ICP/OES)**

**Mohamed H Ahmed**

**15-4-3) Deposition pattern of Inhaled Radon Decay Product ( $^{214}\text{Pb}$  and  $^{214}\text{Bi}$ ) in Human Lung for Various Levels of Physical Exertion.**

**A.A. Ahmed**

**14-15 Break**

**15-16** **SS - 5** **Education and Training** **Chairman : Prof. Khaled Sakr**

**16-5-1) Radiation Safety Training in Medicine**

**Ibrahim Duhaini**

**17-5-2) Beni Suef University proposed Nuclear Institute**

**Fayez Shahin**

**18-5-3) Activities of Egyptian Atomic Energy Authority Training Centre**

**Ahmed El Mohamady**

**16-17** **SS-6 Experience Gained and NIR** **Chairman : Prof R ElShinawy**

**19-6-1) Main Activities and Responsibilities in my carrier Life**

**Salahuddin Moustafa Kamal Ahmed**

**20-6-2) From Chemical Physics to Physical Chemistry**

**Farid Abo Elnour**

**21--6 -3)The Effects of Electromagnetic Fields on Human Health.**

Ibrahim Duhaini

## **Day-2 28 October 2018**

**9.30-10.30**

**SS-7- Env Phys (2)**

**Chairman: Prof Atef El Taher**

**22-7-2) Assessment of NORM in Waste Samples Associated with Oil Production Fields**

Mahmoud.E.M. Amin

**23-7-5)Present Status of TENORM Treatment Technology**

M.F. Attallah, H.F. Aly

**10-30**

**Break**

**11-12**

**SS -8 AFRA Medical Physics Projects**

**Chairman : Prof Ehab Marouf**

**24-8-1) Strengthening Medical Physicists Capacities to Ensure Safety in Medical Imaging, with an Emphasis on Pediatric Imaging Safety**

Ehab Marouf

**25-8-2) IAEA/WHO TLD POSTAL DOSE AUDIT SERVICE FOR HOSPITALS; RADIOTHERAPY**

**LEVEL IN EGYPT**

Nashaat A. Deiab

**12-13**

**Invited Talk And 2**

**Chairman: Prof H F Aly**

**26—1 ) Neutron Sources – Status and Prospects**

M.N.H. Comsan

**27-2) Recent Developments in the Operational Parameters in the Inductively Coupled Plasma Mass Spectrometer**

A.I. Helal

**13-14**

**SS-9 Radiation Physics**

**Chairman: Prof Hoda Ashry**

**29-<sup>9</sup>-2) Dosimetry Calculation and Measurements around Radioiodine Contaminated Individual**

Noha S. Sayed

**30-9-3) Study on the Thermoluminescence Dosimetry of Standard and Prepared Materials**

Atef Yousef

31-9-4) Role of Dosimetry in Quality Control of Radiation Processing

34-9-5)-Yasser S. Soliman

**Parellel session**

**13-14**

**SS-10 RADON**

**CHAIRMAN :A. ABDEL HALEEM**

32-10-1 Radon Emanation Coefficients of Some Egyptian Rocks

Yassin A. Abdel-Razek etal

33-10--2) CPRD Supplied With Native Scintillator for Radon Gas Detection

Ayman M Abdalla

34-10-3)Calculation of the indoor radon concentrations due to the public use of some Egyptian rocks

Yassin A. Abdel-Razek etal

**14-15**

**Break**

**15-16**

**SS (11) Radiation Protection**

**Chairman: Prof Wasfi AbdelMalik**

35-11-1) Concepts of Radioactive Decontamination After Radiation Accident and Emergency Planning and Environmental Monitoring

Wasfi E.Y. Abdelmalik

36-11-2) Experience Gained in the field of Transport, Waste disposal and decontamination and Environmental Radioactive Pollution

R M K ELShinawy

37-11.3) Radiation Dose Measurements in Nuclear Medicine Hot Lab

Medhat Shaban El Saied

**15-16**

**SS(12) Emergency**

**Chairman: Prof A M Gaheen**

38-12-1) Medical Preparedness and Response in Nuclear and Radiological Accident

Aya Abaza

39-12-2

نجوى رياض

16-18

SS- 13 Regulations

Chairman: Prof Gaber Hassib

40-13-1 ) Development of Criteria for NORM Management In Existing Exposure Situations  
Hafez Ahmed El Fouly

41-13-2) Proposed Regulations for Handling Radioactive Cadaver

Mahmoud Hassan Shabon

42-13-3 ) Role of Ministry of Health as Radiation Regulatory Body according to Egyptian Laws

Mahmoid EL Gammal

Parallel Session

16-18

SS ( 14) Material and Shielding

Chairman: Prof Yehia Abbas

43-14-4 ) Characteristics of Polyvinyl Alcohol/Tungsten Oxide Composite ( PVA/WO3) for gamma ray Shielding

Yasser Abdou

44-14-5) Influence of alpha particle irradiation on the structural properties of graphene oxide

M. Mobarak

19-22 Conf. Dinner

Day -3      29 October 2018

9.30-11

SS ( 15) Safety

Chairman: Prof Esmat Amin

45-15-1) Some Safety issues related to the VVER 1200/VR91 from the prospective of The WENRA Safety Objectives for new NPPs  
by E.H.AMIN

46-15-2) Environmental Impact Assessment for nuclear power plants& spreading a Safety Culture

Wafaa Mohamed Moustafa Salem

11-12

Round Table: Radiation Protection

G M Hassib, A Eid, R. Shinawy, M Gomaa

12-12.30 Break

12.30-13

Youth Awards

13.30-14

Recommendations

**Closing**