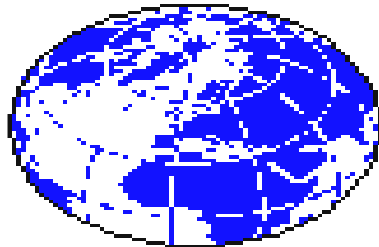


# Programme

## 4<sup>th</sup> Environmental Physics Conference



**EPC' 10**

**10-14 March 2010  
Hurghada, Egypt**

**Programme of**

**4<sup>th</sup> Environmental Physics  
Conference  
10-14 March 2010  
Hurghada, Egypt**

**EPC' 10**

**Organized by**

**Egyptian Nuclear Physics Association (ENPA)  
Cairo, Egypt**

**Conference Chairperson**  
**Prof.Dr. M.N.H. Comsan**

**Conference Coordinator**  
**Prof.Dr. A.Z. Hussein**

**EPC' 10**  
**Conference Programme**

**Wednesday, 10 March 2010**

**ENPA Board**

M. Abdel-Khalek	M.A.M. Gomaa
M. Adib	A.M. Hassan
M.N.H. Comsan	A.Z. Hussein
A.A. El-Kady	Z.A. Saleh
M.S.M. El-Tahawy	

**Scientific Advisory Board**

Y. Abbas, Suez Canal Univ., Egypt	A. El-Kamel, Assiut Univ., Egypt
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H.F. Aly, AEA, Egypt	A. Kist, INP, Uzbekistan
	M. Nasrallah, NRC, Egypt

**Executive Committee**

Kh. Zakareya	M. Tohamy
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<b>9:30 - 11:00</b>	<b>Registration</b> Headquarter Building, Egyptian Atomic Energy Authority, El-Zohour District, Nasr City, Cairo
<b>10:30 – 11:00</b>	<b>Coffee Break</b>
<b>11:00 - 11:30</b>	<b>Gathering</b> EAEA site, Nasr City
<b>11:30</b>	<b>Bus Departure to Hurghada</b>
<b>15:00 – 15:30</b>	<b>Midway Rest</b>
<b>19:00</b>	<b>Arrival Hurghada</b> Hotel accommodation

## Thursday, 11 March 2010

**9:00 - Registration Desk**

**9:20 - 9:30 Opening Ceremony**

**9:30 - 11:00 Session KN [64/67/76]**

**Chairperson: M.N.H. Comsan**

- 1 Use of neutron activation analysis techniques in environmental research: A.M. Hassan [64]
- 2 On the theory of pyramids effects: I. Abdullayev [67]
- 3 Shams El-Nil and pyramids science: H.R. El-Kady [76]

**11:00 – 11:30 Break**

**11:30 - 13:00 Session AC [47/44/52/58/40/19/28/73]**

**Chairperson: H.R. El-Kady**

- 1 Regional environment simulator: Atmosphere ocean land surface hydrology coupled model: Mohammed Haggag and Takao Yamashita [47]
- 2 Evaluation of rain quality within Erbil Province – Iraq: Jewan Jalal Abdullah [44]
- 3 Environmental studies of the Kenyan atmosphere via aerosol analysis by use of multivariate chemometrics-assisted energy dispersive x-ray fluorescence (EDXRF) spectrometry and sun spectrophotometry: K.H. Angeyo, G.W.

Wepukhulu, J. Makokha, J. Kimani, A.O. Mustapha, J.M. Mangala and B.N. Holben [52]

4 Factors affecting formation and growth rate of atmospheric aerosols: V.V. Levdansky, J. Smolik and P. Moravec [58]

5 MM5 model simulations of tropical cyclone OGNI genesis over the Bay of Bengal: K. Muni Krishna [40]

6 The impact of minimum and maximum temperatures variations on climate changes in Pakistan: Mohsin Jamil Butt and Zaheer Ahmad Bbar [19]

7 Variability of aerosol and aerosol impact on cloud microphysics: Khan Alam, and Thomas Blaschke [28]

8 Computer Simulation for Dispersion of Air Pollution Released From a Line Source According to Gaussian Model: Emad A. A., Sayed M. El Shazly and Kh. O. Kassem [73]

**13:00 - 14:00 Break**

**14:00 - 15:30 Session RR1 [14/11/21/29/26/20/75]**

**Chairperson: A.Z. Hussein**

1 Effect of gamma ray energies and steel fiber addition by weight on some shielding properties of limestone concrete: A.A. Abd El-Latif, F. A. Ikraiam, A. Abd Elazziz and Jamila [14]

2 The annual dose for Qena Governorate population due to consume of animal

- products: S. Harb, K. Sahalel Din, A. Abbadly and Nagwa Saad [11]
- 3 Radiological impact of radioactive iodine discharge after hypothetical nuclear accident: Amr Abdelhady and Talal Abou El Maaty [21]
  - 4 Natural radioactivity measurements on geological samples by direct gamma-ray spectroscopy in Romania: B. Constantinescu [29]
  - 5 Lung dosimetry for inhaled long-lived radionuclides: M. Hussain, R. Winker-heil and W. Hofmann [26]
  - 6 Natural radioactivity measurement in soil and water samples in and around of Hot Spring of Mahallat, I.R. of Iran: Reza Pourimani [20]
  - 7 Distribution pattern of NORM on Red Sea shore sediments in relation to non-nuclear industrie: Ashraf E.M. Khater [75]

**15:30 - 17:00**

**Session PP** [24/5/30/48/45c/45a/85]

**Chairperson: M.S.M. El-Tahawy**

- 1 Deposition of fungal particles in the lung of workers in a spin factory (Minya City, Egypt): Mona Moustafa, Werner Hofmann and Renate Winkler-Heil [24]
- 2 Improvement of dolomite sorption activity using ultrasonic influence: A.P. Ilyin, O.B. Nazarenko, and E.S. Silitskaya [5]
- 3 Some environmental pollution studies using atomic and nuclear methods in Romania: Daniela Stan and B.

Constantinescu [30]

- 4 Simulation and EDXRF analysis of environmental aerosol loaded filters for heavy metal pollutants by partial least squares: Godfrey Wekesa Wafula Wepukhulu, Hudson Kalambuka Angeyo, Amidu Mustapha and Michael Mangala [48]
- 5 Investigation on water quality of Zabol Chahnimeh reservoirs from drinking water and agricultural viewpoint with focus on schuler & vilcoks diagrams: Iman Homayoonnezhad, Paria Amirian and Issa Piri [45c]
- 6 Analyzing the qualitative characteristics of compost and bio-compost in Zahedan, Iran: Iman Homayoonnezhad, Paria Amirian and Issa Piri [45a]
- 7 Fixation of Cesium, Cobalt, Lead and Copper onto different cationic forms of a natural zeolite: activated bentonite: M. Abdel Geleel [85]

**19:00 - 22:00**

**Cultural Evening\***

**Friday, 12 March 2010**

**9:30 - 22:00**

**Social and Culture Events - Full Day  
Hurghada and Red Sea\***

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(\* ) At extra charge. For more information contact Conference Treasurer.

## Saturday, 13 March 2010

9:30 - 11:00

Session EI [2/13/22/27/16/68/72/82]

Chairperson: Z.A. Saleh

- 1 Biological effects of weak electromagnetic fields: Abduasslam Algattawi and Hamida Elshyrih [2]
- 2 Seepage of groundwater through coastal sediment layers: Coastal 'mudbanks' formations with greening of near shore waters: Joseph Sebastian Paimpillil and K.K. Balachandran [13]
- 3 The cooling-basins as experiment for investigation of changes in aquatic biota on the period of global climate warming: V.N. Beznosov, A.L. Suzdaleva, M.A. Kuchkina and A.A. Suzdaleva [22]
- 4 The simulation on environmental geological of desertification phenomena in Libya: Fathi Elostia [27]
- 5 On characteristic features of global, polar and equatorial temperature and its possible linkage with solar activities: Dhruba Banerjee and Ramaprosad Bondyopadhaya [16]
- 6 Stereological estimations of ecological contaminations: O. Gerasymov [68]
- 7 A Study of Ultraviolet Radiation at Qena, Upper Egypt: Abdel Galeil A. Hassan, S. M. El Shazly, A.M. Abdelmegeed B.N. Mohamed and E. El Nobi [72]

- 8 Environmental health impacts of nuclear fuel cycle with emphasis to monitoring and radiological safety control system: A.A. Gad Allah and A.I. El- Shanshory [82]

11:00 - 11:30 Coffee Break

11:30 - 13:00 Session TT [77/51/7/10/36/71/50/84]

Chairperson: M.S. Popa

- 1 Non destructive testing measurement for monitoring pitting corrosion using DCPD techniques: A. Atlam, A.A. Omar, A.F. Waheed, M. Shafy and M. Habashy [77]
- 2 A multivariate chemometric study of sun spectrophotometer measured aerosol optical properties: An example from Kenya: J.W. Makokha, J.N. Kimani, H.K. Angeyo and B. N. Holben [51]
- 3 Pre- treatment optimization of recovery of polyphenols from Pink Guava fruit processing wastes by membrane technology: Lilis Sukeksi, Che Rosmani Che Hassan, Nik Meriam Sulaiman, Mohamed Kheireddine Aroua and L.A. Abdul Ghani [7]
- 4 A novel fluorescence detection technique for environmental hydrogen peroxide: Amtansu Pattanaik and P.D. Sahare [10]
- 5 An effective management of E-waste as a part of construction materials: Amtansu Pattanaik and P.D. Sahare [36]
- 6 Role of natural plants in enhancement of immune system against exposure to

- ionizing radiation: Kh.M. Zakaria and M.S. Ibrahim [71]
- 7 Estimating sensible heat flux from remotely sensed moderate resolution imaging spectroradiometer data: Boiyo Richard and Mito Collins [50]
  - 8 The effect of  $\gamma$ -irradiation on NBR seal materials with different antioxidants: Farida S. Ahmed, Mahmoud Shafy, A. A. Abd El-megeed, and Elham M. Hegazi [84]

**13:00 - 14:00 Break**

**14:00 - 15:30 Session RR2 [37/55/38/42/62/74/83]**

**Chairperson: M.A. Gomaa**

- 1 Measurements of bithmuth ( $^{214}\text{Bi}$ ) in indoor air and evaluation of deposition Fraction: A. Mohamed, A.A. Ahmed and M. Yunes [37]
- 2 Activity concentration for surface soil samples collected from Armant, Qena, Egypt: S. Harb, K Salahel Din, Abbady and Maha Moustafa [55]
- 3 Equilibrium equivalent concentration and unattached fraction of Radon progeny as the crucial parameters in dose assessment: M. Yunes, A.A. Ahmed and A. Mohamed [38]
- 4 The radiation dose through the human lung based on the inhalation of short-lived Radon progeny: A.A. Ahmed, A. Mohamed, M.I. El Gohary and M.M. Ismail [42]
- 5 Radiation exposure of passengers to cosmic radiation: T. Salah El-Din, M.A. Gomaa

and N. Sallah [62]

- 6 Uranium and heavy metals in narghile (shisha, hookah) moassel: Ashraf E.M. Khater, M. Amr, Kamal Chaouachi [74]
- 7 Gamma irradiation effect on biodegradable poly (hydroxybutyrate) studied by Positron Annihilation Technique: E. E. Abdel-Hady and Salwa S. Mohamed [83]

**15:30 - 17:00 Session AR [69/54/66/12/60/45b/78]**

**Chairperson: O.B. Nazarenko**

- 1 Pre-operational radioactivity data base for NPP site: M.S.M. El-Tahawy [69]
- 2 Characterization of honey, pollen and bee tissue samples for trace elements content: M.J. Mangala, M.D. Wamwangi, I.V.S. Rathore and S.K. Katia [54]
- 3 Effect of thermal neutron flux on plasma leptin in (Microchiroptera) Taphozous nudiventris bats during pregnancy and lactation: A.A. Abd El-Latif and Namat M. Emara [66]
- 4 Effect of different size dust grains on the properties of solitary waves in space environments: S.A. Elwakil, M.A. Zahran, E.K. El-Shewy and H.G. Abdelwahed [12]
- 5 Eco-efficiency analysis: Creating more values with less impact in LaTeX concentrate processing: Seri Maulina [60]
- 6 Feeding rainbow trout larva with artemia and comparing growth and surviving of it with customary foods in working places of Sistan and Balouchestan Province, Iran:

Iman Homayoonnezhad, Paria Amirian and Issa Piri [45b]

- 7 Comparative study of sulfonated and phosphorylated commercial Poly-tetraflouroethylene (PTFE) grafted with styrene for fuel cell application: E.E. Abdel-Hady, M.O. abdel-Hamed, M.M. ELtoony and M.R.M. El-Sharkawy [78]

**13:00 - 17:00 Poster Session [3/31/39/79/81]**

- 1 Terahertz generation by an amplitude modulated Gaussian laser beam in a plasma: Deepak Tripathi and R. Uma [3]
- 2 Lung deposition and biological effects of inhaled radon progenies: I. Balásházy, Á. Farkas, M. Moustafa, I. Szeke and G. Kudela [31]
- 3 Effect of different thermal neutron fluxes on blood of male mice: A.A. Abd El-Latif, Khalifa S. Saeid and Namat M. Emar [39]
- 4 Grafting of styrene onto commercial poly-tetraflouroethylene (PTFE) membrane and sulfonation for possible use in fuel cell: E.E. Abdel-Hady, M.M. El-toony, M.O. Abdel-Hamed and A.M. Hammam [79]
- 5 Histological and physiological alterations induced by thermal neutron fluxes in male Swiss Albino mice: Aglal A. Alzergy, Namat M. Emar, A.A. Abd El-Latif and Saleh M.M. El-Saady [81]

**19:00 - 22:00 Cultural Evening\***

**Sunday, 14 March 2010**

**9:30 - 11:00 Session ES [61/46/63/49/59/56/41]**

**Chairperson: E.E. Abdel-Hady**

- 1 Solar energy perspectives in Egypt: M.N.H. Comsan [61]
- 2 Engineering and technology solutions involved in global warming reduction: Marcel Sabin Popa, Dana Sirbu and Monica Popa [46]
- 3 Geothermal hot water and space heating system in Egypt: Hanaa M. Farghally, Faten H. Fahmy and Mohamed A.H. El-Sayed [63]
- 4 Advances in hydrogen energy technologies: Mohamed S. Saad and Ammar M. Omar [49]
- 5 Algal turf scrubbers: Cleaning water while capturing solar energy for biofuel production: Jeffrey Bannon and Walter Adey [59]
- 6 Data acquisition system for photovoltaic water pumping system in the desert of Tunisia: Mahjoubi Ammar, Mechlouch Ridha Fethi, Ben Brahim Ammar [56]
- 7 Mapping of solar radiation for Bangladesh using meteorological satellite data: Md Shahjahan Ali, H. Rahman and R.K. Mazumder [41]

**11:30 - 13:00** Session ST [53/80/25/57/17/65/70]

**Chairperson: A.M. Hassan**

- 1 Developing a GIS environmental model for health hazards in Egypt: Christina Albert Rayed [53]
- 2 Miscibility and Crystallization Behavior of Poly (3-hydroxybutyrate) and Poly (ethylene glycol) Blends studied by positron annihilation spectroscopy: E.E. Abdel-Hady and A.M.Hammam
- 3 A conceptual particle-size model of saltmarsh accretion and its feasibility for the study of coastal evolution: a case study from the Dee estuary, NW England, UK: Rubina Rahman and A.J. Plater [25]
- 4 Application and importance of environmental physics in engineering education: Uday N.Trivedi [57]
- 5 On Big Bang: Slavik Avagyan [17]
- 6 Relating SAR image texture to the biomass of forest: Yaser Sadeghi, Jalal Amini, M.R.Saradjian [65]
- 7 Measurement of collagen contents and histological studies in animal treated by ambrosin after exposure to gamma radiation: M.S. Irahim and Kh.M. Zakaria

**13:00 - 14:00** Conference Lunch

**14:00 - 14:30** Session CS

**Chairperson: M.N.H. Comsan**

Conference Conclusions and Recommendations  
Conference Closing

## EPC' 10

### Conference Timetable

Time	Wed., 10 March	Thu., 11 March	Fri., 12 March	Sat., 13 March	Sun., 14 March
9:30-11:00	Cairo	<b>OS</b> <b>KN</b>		<b>EI</b>	<b>ES</b>
11:00 - 11:30	Registration	Tea/Coffee	Full	Tea/Coffee	Tea/Coffee
11:30 - 13:00	Departure	<b>AC</b>	Day	<b>TT</b>	<b>ST</b>
13:00 - 14:00	(Bus to Hurghada)	Break	Hurghada	Break	Conf. Lunch
14:00 - 15:30		<b>RR1</b>	and	<b>RR2</b>	<b>CS</b> Departure
15:30 - 17:00	Hurghada)	<b>PP</b>	Red Sea	<b>AR</b>	(Bus to Cairo)
17:00 - 22:00	<b>Arrival</b>	Cult Evening		Cult Evening	<b>Arrival</b>

### Programme abbreviations:

<b>OS</b>	Opening Session	<b>PP</b>	Pollution & Pollutants
<b>KN</b>	Keynote Talks	<b>RR</b>	Radiation & Radioactivity
<b>AC</b>	Atmosphere & Climate	<b>TT</b>	Techniques & Technologies
<b>AR</b>	Activity Reviews	<b>ST</b>	Selected Topics
<b>EI</b>	Environmental Issues	<b>PS</b>	Poster Session
<b>ES</b>	Energy & Sustainability	<b>CS</b>	Closing Session

## برنامج

مؤتمر الفيزياء البيئية  
١٠ - ١٤ مارس ٢٠١٠  
الغردقة - مصر

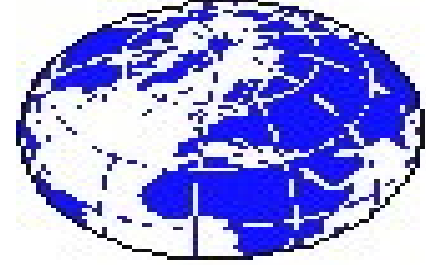
مقب - ١٠

تنظمه

الجمعية المصرية للفيزياء النووية

## برنامج

مؤتمر الفيزياء البيئية



مقب - ١٠

١٠ - ١٤ مارس ٢٠١٠  
الغردقة - مصر