

**Arab Journal of Nuclear Sciences
And Applications
(Arab J.Nucl.Sci.Appl.)**

A Periodical Published

By

**THE EGYPTIAN SOCIETY OF NUCLRAR SCIENCES
AND APPLICATIONS
[ESNSA]
(ISSN 1110-0451)**

SPECIAL ISSUE

**SEVENTH RADIATION PHYSICS & PROTECTION
CONFERENCE
(RPC – 2004)**

**Ismailia, Egypt
(27 – 30 November 2004)**

**Organized by
National Network of Radiation Physics (NNRP)
Egyptian Atomic Energy Authority (EAEA)
and
Faculty of Science – Suez Canal University (SCU)**

Part 1

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**Volume 38, April 2005
CODEN AJDAY 3211350**

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Preface

The National Network of Radiation Physics (NNRP) presents its compliments to those who participated at the seventh Radiation Physics and Protection Conference. The NNRP has the honour to publish the proceedings of the scientific activities of the Conference in a " Special Issue" of the Arab Journal of Nuclear Sciences and Applications (Volume38, Parts I, II - 2005).

The conference was organized by the NNRP, the Atomic Energy Authority (AEA) Egypt and the Faculty of Science, Suez Canal University. The conference was held at Mercure Hotel Ismailia during the period 27-30 November 2004. A total of about 200 scientists attended the scientific activities of the conference.

The Seventh Conference is a sequel of six previous Radiation Physics Conferences, at Qena (November 1992), Shebin El-Kom (November 1994), AI-Minia (November 1996), Alexandria (November 1998) ,Cairo (November 2000), and Assuit (November 2002) although the seven conferences were national functions, however, pan-arab, and foreign participation was very distinct in numbers and scientific quality.

The Conference included General Lectures, Eighteen Scientific Sessions ,a Poster Session and Round table discussion.

The conference scientific sessions included one hundred and thirty preferred presentations dealing with Radiation Sources, Radiation Effects Radiation Defection and Measurement, Radiation Dosimetry, Radiation Shielding Atomic Physics, Applied Radiation Physics, Environmental Radioactivity, Radiation Protection and Nuclear Safety, Biophysical and Medical Applications, Earth Science and Ultra trace Analysis, Applied Nuclear Physics and Non-Ionizing Radiation. Experts Senior Scientists presented invited Lectures in topics related to major radiation protection aspects.

The Conference Proceedings will appear in two parts. Part (I & II) to include the papers presented during the conference sessions. The Chairmen, Executive Secretary and the Organizing Committee of file Conference record their sincere obligations and acknowledge the efforts of all who have contributed to the success of the conference.

Eleven junior scientists received scientific awards for outstanding scientific quality and good presentations.

The Conference Officials address their obligations and gratitude to the Board of the Egyptian Society of Nuclear Sciences and Applications for their consent to publish (the Conference Proceedings in a Special Issue of " The Arab Journal of Nuclear Sciences and Applications ". Their gratitude also extends to all institutions, organizations and individuals who have provided financial, moral or in-kind support to the conference.

