



The contribution of the Romanian Society for Radiological Protection to the improvement of the Safety Culture in Romania



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The RSRP is an Associate Society to the International Radiation Protection Association since 1992.

The paper intend to make a presentation of the *Romanian Society for Radiological Protection* with the occasion of the *30-th anniversary* of its official establishment - especially to show the activity of developing the safety culture in Romania in correlation with the IAEA's Radiation Protection and Safety of Radiation Sources – Basic Safety Standards GSR Part 3 and the Council Directive No. 2013/59/EURATOM.

The society is an *independent, non-profit, non-governmental organization of Romanian specialists in radiological protection involved in nuclear activities* from industry, hospitals, research, waste management, radioactive source production, nuclear security, Cernavoda nuclear power plant operation and maintenance, research reactor operation and decommissioning.

RSRP is permanently engaged for *improving radiological protection culture among its professionals* following a fundamental desiderate to protect the population and radiation workers against the harmful effects of ionizing radiation, *to develop and make known the scientific, technical, medical and legal aspects of radiological protection on a nationwide scale and to imply the civil society in the benefit/risk analyses for the ionizing radiation uses.*

INTERNATIONAL COOPERATION

The specialists from RSRP have had a good individual collaboration with IAEA since the early time of our organization and before. Beside the fact that first two authors of the presentation were in the roster of IAEA experts, the second author, after an IAEA fellowship at Lawrence Livermore National Laboratory, was implied, aside some IAEA personalities as A. J. Gonzales, R. V. Griffith, M. Gustafsson, G. A. M. Webb in developing computing programs for IAEA, including IAEA's BSS-115, English version, on diskette (1997, ISBN 92-0-100997-6) and on CD (2003, ISBN 92-0-106003-3 [1], IAEA's BSS-115, Spanish version (2004) and in IAEA's ORPGUIDE (2000, ISBN 92-0-103100-9). Although outdated now, these programs have played a significant role in spreading and deepening the notions contained in the old BSS and even in the exhaustive approach to the changes that led to the new BSS (GSR Part 3-Pub1578-2014). Also, directly or through the Romanian National Regulatory Authority, the Romanian National Commission for Nuclear Activities Control (CNCAN), there were made several observations regarding the transposition in Romania of the new regulations contained in the new international and European BSSs issued by IAEA and EURATOM in 2014, respectively.

RSRP is member of the Central European Association of IRPA Associate Societies since 2000 and has a memorandum of cooperation from 2001 with American Nuclear Society (ANS). Also it has a good collaboration with about all European Radiological Protection societies, Canadian Radiation Protection (Joint Association) and Japanese Society for Radiological Protection. Members of RSRP participated at all IRPA Congresses beginning with the 9-th, held in Vienna in 1996, at many European IRPA Congresses and some National Conferences.

Particularly appreciated was the organization by RSRP in Brasov on 24-28 September 2007 of the IRPA Regional Congress for Central and Eastern Europe, with the theme "Regional and Global Aspects of Radiological Protection" [2]. New issues related to exposure to ionizing radiation, regulations and policies in radiological protection, from international requirements to regional issues were addressed at this congress. Three images from the Conference and the cover of its book are showed in Fig.1:



Fig.1. IRPA Regional Congress for Central and Eastern Europe, 24-28 September 2007, Brasov, Romania

RSRP ACTIVITIES

Also, the specialists from RSRP published few books, as well as numerous articles in environmental and radiological protection journals and also participated in numerous radios or television shows where they presented and debated radiological protection issues. Special attention was paid to the effects of the Chernobyl Accident (1986) in Romania, problems related to the Fukushima Nuclear Accident – Japan in 2011, as well as the operation of nuclear energy or research reactors in Europe. The 1st author visited Belarus after Chernobyl accident and then Fukushima, publishing his impressions in the ANS Globe no. 21 from June 2014.

On the occasion of the annual conferences organized by RSRP, there is a good exchange of information between its specialists, as well as with other invited persons/personalities from Romania and abroad.

RSRP publishes all presentations from the annual conferences in proceedings. From 2014 until 2017, the topics of the National Conferences were related to the Council Directive 2013/59/EURATOM. RSRP works intensively on organizing various scientific manifestations or popularizing knowledge related to the use of nuclear energy for various peaceful purposes to ensure radiological protection, including high school students from Bucharest schools and organizing joint scientific events within International Symposium for Nuclear Energy (SIEN) and with the Society Romanian of Labor Medicine, Woman in Nuclear (WIN), CNCAN and the Romanian Association for Nuclear Energy (AREN).

More about RSRP activities can be seen in www.srrp.ro. Several covers of the books issued and published by RSRP, as: “Natural Radioactivity in Romania”, “Artificial Radioactivity in Romania”, “National Conference regarding the Concept on Culture of Radiological Protection and his role in the protection of population and environment”, National Conference with the occasion of Romanian Centenary “Evolution of Radioprotection in Romania” and National Conference in 2019 on “Application of the ALARA principle in optimizing radiological protection – new implementations” are showed in Fig.2:



Fig.2. Few Romanian books and RSRP national conferences - covers

REFERENCES

- [1] N. M. Mocanu, R. V. Griffith, M. Gustafsson, G. A. M. Webb, A. Enache. Software for the IAEA Occupational Radiation Protection Standards, IRPA 10 Congress, Hiroshima, Japan, 2000, T-10-2, P-9-131
- [2] RSRP - Regional and global aspects of Radiation Protection – IRPA Regional Congress for Central and Eastern Europe, Brasov, Romania, 24-28 September 2007, - ISBN 10 973-87778-3-6