



INTERNET AND INFORMATION ABOUT NUCLEAR SCIENCES. THE WORLD WIDE WEB VIRTUAL LIBRARY: NUCLEAR SCIENCES

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Similarly as in other areas, as well as in chemistry, INTERNET has brought revolutionary changes in searching, processing of information and in the teaching of chemistry [1]. The powerful instrument in searching of information in INTERNET are different browsers of the web-pages (www.altavista.com, www.yahoo.com, search.excite.com, www.webcrawler.com, www.lycos.com, infoseek.go.com, www.hotbot.com, www.zoznam.sk, www.kompas.sk www.seznam.cz and other) [2], but they usually give over-much number of web-pages. Sometimes is ill and slowly to obtain necessary information from so over-much number searched and offered web-pages. By searching in the INTERNET assists the advanced searching, but sometimes it does not conduce to searched information.

For assistance by the solving of these problems and for speeding-up of the work serve specialised servers, which give grouped information from certain scientific area and first and foremost links for next relative relevant web-links and web-pages, which are in the area of chemistry, for example, *Yahoo-Chemistry-Server* [3], list of Mendeleev periodic tables of elements [4], from which each provides certain supplementary information about properties of individual elements, isotopes, occasionally radionuclides. Some of them provide more detail information about radioisotopes [5-7], in nuclear physics it is, for example, *Nuclear Info WWW Server* [8].

One of next types of universal web-pages happen the virtual libraries. The virtual libraries are usually closely specialised (for example on high energy physics [9]), however exist universal virtual libraries, for example *The World Wide Web Virtual Library* [10]. Web-browsers give in the present the following number of the WWW virtual libraries: *Yahoo* (41), *AltaVista* (30367), *Infoseek* (83508), *HotBot* (83960), *Excite* (200960), *WebCrawler* (222846) (to 17 May 1999).

In the INTERNET between virtual libraries exist also several virtual libraries which deal with the nuclear disciplines, for example *MIR Nuclear Medicine Network Access Page* [11], however between them (at least according to name, in the time of arising of this idea) no one is universal, which should give information and links for all nearly relative nuclear disciplines.

This reality has led the author to the thought to constitute new universal virtual library, which should centralise the information from nuclear disciplines on the INTERNET, whereby the aim was to centralise on that, in order to them to give first and foremost the connection on the most important links in set nuclear disciplines. The author has entitled this new virtual library *The Wide Web Virtual Library: Nuclear Sciences* [12]. By constitution of this virtual library next basic principles were chosen:

- home pages of international organisations important from point of view of nuclear disciplines;

- home pages of the National Nuclear Commissions and governments;
- home pages of nuclear scientific societies (non-specialised);
- web- pages specialised on nuclear problematic - in general;
- Periodical Tables of Elements and Isotopes;
- web-pages aimed on Chernobyl crash and consequences;
- web-pages with antinuclear aim.

Now continue the links grouped on web-pages according to single nuclear scientific disciplines:

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| ◇ Nuclear Arsenals | ◇ Nuclear Energy Info Centres | ◇ Nuclear Reactors |
| ◇ Nuclear Astrophysics | ◇ Nuclear Engineering | ◇ Nuclear Risk |
| ◇ Nuclear Aspects of Biology (Radiobiology) | ◇ Nuclear Industries | ◇ Nuclear Technologies and Defence |
| ◇ Nuclear Chemistry | ◇ Nuclear Magnetic Resonance | ◇ Nuclear Testing |
| ◇ Nuclear Company | ◇ Nuclear Material Monitoring | ◇ Nuclear Tourism |
| ◇ Nuclear Data Centres | ◇ Nuclear Medicine and Radiology | ◇ Nuclear Wastes |
| ◇ Nuclear Energy | ◇ Nuclear Physics | ◇ Nuclear Weapons |
| ◇ Nuclear Energy, Environmental Aspects of (Radioecology) | ◇ Nuclear Power (Plants) | ◇ |

In these single groups, there are web-links concentrated into the following groups: *Virtual Libraries and specialised servers; Science, Nuclear Societies; Nuclear Departments of the Academic Institutes; Nuclear Research Institutes and Laboratories; Centres, Governments, Info links.*

Evidently, that constitution of so framed universal virtual library of the nuclear disciplines will require more long time than the author had for vocation from arising of this idea up to its initial realisation. Of course, this web-page will entail constantly to amplify of this virtual library, therefore, the author will welcome with thanks all relevant proposals.

Literature :

1. Braunová M., Gajanová M., 50. Sjezd chemických společností. Zlín, 8.-11.9.1997. s. 153.
2. Makulová S., Sprievodca po Inernete alebo Internet od A po Z. EL&T, Bratislava, 1997.
3. Yahoo-Science-Chemistry, <http://www.yahoo.com/Science/Chemistry/>.
4. Yahoo Science: Chemistry: Periodic Table of the Elements.
http://dir.yahoo.com/science/chemistry/periodic_table_of_the_elements/.
5. Table of Nuclides, <http://sutekh.nd.rl.ac.uk/CoN/>.
6. The Virtual Periodic Table, <http://www.shef.ac.uk/~chem/web-elements/>.
7. WebElements: Periodic Table of the Elements, <http://cchem.berkeley.edu/Table/index.htm/>.
8. Nuclear Info WWW Server, <http://nuke.wetlab.com/>.
9. The Word Wide Web Virtual Library: High Energy Physics, <http://www.cern.ch/Physics/HEP.html/>.
10. World Wide Web Virtual Library, <http://vl.bwh.harvard.edu/cgi-bin/htsearch/>.
11. MIR Nuclear Medicine Network Access Page, <http://gamma.wustl.edu/home.html>
12. Kuruc J., *World Wide Web Virtual Library: Nuclear Sciences*,
<http://www.fns.uniba.sk/WWWVLNucSci.html/>.