

RSIC Newsletter



OAK RIDGE NATIONAL LABORATORY
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The best way to get something done is to begin. — Unknown

DOE Critical Review Published

The Technical Information Center, Office of Scientific and Technical Information, U.S. Dept. of Energy (DOE), has announced the availability of a book, *Models and Parameters for Environmental Radiological Assessments*, edited by Charles W. Miller, Oak Ridge National Laboratory (ORNL). Compiled as a part of the DOE liquid metal fast breeder reactor (LMFBR) safety effort, the information contained in the book is applicable to LMFBR assessment problems and to problems at other nuclear facilities. The main radiological differences between the various facilities are contained in the identity, physical-chemical form, and magnitude of the radionuclides released and in the location and method of release.

The purpose of the book is to present a unified compilation of models and parameters appropriate for assessing the impact of radioactive discharges to the environment. Models and parameters presented are based on an extensive literature review and evaluation performed primarily by members of the staff of the Dosimetry and Biophysical

Transport Section of the ORNL Health and Safety Research Division. This organization and its predecessors have been performing radiological assessments for over 15 years. The basic assessment methodologies currently used by the group are presented.

The book is designed to serve the needs of a variety of readers. Persons requiring a general knowledge of environmental radiological assessment procedures may view the book as a basic introduction to the concepts and terminology of the assessment field. Professional workers in the nuclear industry may find the volume useful as a handbook since equations, tables, and sample problems are given. Students in various scientific disciplines can use it as a basic introductory text for applying their particular specialty to the broader area of radiological assessment.

The book is available as DE81027154 (DOE/TIC-11468) for \$12.00 from the National Technical Information Service, U.S. Dept. of Commerce, 5285 Port Royal Road, Springfield, VA 22161.

CHANGES TO THE COMPUTER CODE COLLECTION

An update was made to a peripheral-to-shielding (PSR) code package.

PSR-143/BREESE II

The package of auxiliary routines for use in implementing the albedo option in the MORSE Monte Carlo code system was updated to make it

compatible with the CCC-203(A) UNIVAC and the CCC-203(B) CDC-6600 versions of MORSE. These two versions of MORSE do not have the 'packed word' version of combinatorial geometry

which made them incompatible with BREESE II as it previously existed. A new version of Subroutine GOMST was added to PSR-143 for use with the 203(A) and 203(B) MORSE. A statement ETATH=S was inserted immediately before the final "RETURN" statement at the end of the origi-

nal Subroutine GOMST. Also, the following change was made: in Subroutine ALBDOE the statement DATA PN/1.0/ was added after the data statement which already existed at this point. The need for these changes was called to the attention of RSIC by the ORNL contributors. FORTRAN IV; IBM 360/370.

PERSONAL ITEMS

We continue to carry personal items as they are brought to our attention. During the past month we have been informed of the following changes.

John C. Pacyniak, formerly with the Lester E. Cox Medical Center, Springfield, Missouri, is now a consulting physician.

Eugene Normand has left Northwest Energy Service Co., Kirkland, Washington, to join Boeing Aerospace Co., Seattle.

Lee Marlin has left University Computing Co., Atlanta, Georgia, to join UCCEL Corp. in Marietta, Georgia.

Eugene Hochalter, formerly with Exxon Nuclear Idaho Inc., is now working for Westinghouse Idaho Nuclear Co., Inc.

K. L. Mahna, formerly with Public Service Electric & Gas Co., in Newark, New Jersey, is now working as a consultant at 604 Grandview Dr., Neshanic, NJ 08853.

Michael Schell, formerly with the Physical Sciences Laboratory at the University of Wisconsin, is now working in the Radiation Oncology Department at the George Washington University Medical Center.

John M. Rich, *Janet L. Westbrook*, and *Gerald P. Lahti* were the winners of the Best Paper Award for the Radiation Physics Division of the American Nuclear Society at the November 1985 meeting for their paper entitled "Radiological Aspects of Hydrogen-Addition Water Chemistry at BWRS."

CONFERENCES

RSIC attempts to keep its users/contributors advised of conferences, courses, and symposia in the field of radiation protection, transport, and shielding, through this section of the newsletter. Should you be involved in the planning/organization of such conferences, courses, or symposia, feel free to send your announcements and calls for papers to RSIC.

Transport Conference Calls for Papers

The 9th International Conference on Transport Theory is being held in Montecatini Terme, Italy, June

10-14, 1985. It is the ninth in a series of biennial conferences devoted to analytical and computational methodology for transport theory. Although most of the papers will be invited, there will be a limited number of contributed papers. The National Science Foundation expects to provide travel support for a few U.S. participants. Those in the U.S. interested in contributing a paper may contact Paul Nelson, Dept. of Mathematics, P.O. Box 4319, Texas Tech University, Lubbock, TX 79409 (phone 806-742-2566). Information for those outside the U.S. may be obtained from Prof. Vinicio Botti, Laboratorio Ingegneria Nucleare di Montecuccolino, Università degli Studi di Bologna, 40136 Bologna, Italy.

Calendar

Your attention is directed to the following additional events of interest to the radiation shielding and protection community.

February 1985

Israel Nuclear Society Meeting, February 6-7, 1985, Beer-Sheva, Israel. Contact: A. Galperin, INS, Ben-Gurion Univ. of the Negev, Beer-sheva, Israel 84105 (phone 057-64341).

National Symposium on Atomic Energy, February 7-8, 1985, Tokyo, Japan, sponsored by the Atomic Energy Society of Japan. Contact: Minoru Masamoto, Secretary General, Atomic Energy Society of Japan, No. 1-1-13 Shimbashi, Minato-ku, Tokyo 105, Japan.

International ANS/ENS Topical on Probabilistic Safety Methods and Applications, February 24-28, 1985, San Francisco. Contact: Chauncey Starr, EPRI, 3412 Hillview Ave., Palo Alto, CA 94303 (phone 415-855-2121).

March 1985

6th Topical Meeting on the Technology of Fusion Energy, March 3-7, 1985, San Francisco. Contact: Carl Henning, Lawrence Livermore National Laboratory, P.O. Box 5511, L-644, Livermore, CA 94550 (phone 415-846-7195).

17th International Symposium on Radiation Protection Physics, March 12-15, 1985, Dresden, German Dem. Rep. Contact: K. Hubner, Tech. Univ. Dresden, Physics Sect., Div. of Radiation Protection Physics, Mommsenstrasse 13, DDR-8027 Dresden, German Dem. Rep.

Numerical Methods and Digital Computer Techniques for Engineers and Scientists, March 18-22, 1985, a University of

California-Los Angeles Extension Course sponsored by the Dept. of Engineering and Science. Registration information may be obtained from the Short Course Program Office, UCLA Extension, P.O. Box 24901, Los Angeles, CA 90024 (phone 213-825-1295 or 3344).

Incineration of Low-Level Radioactive Wastes, March 21, 1985, Tucson, Arizona, sponsored by the Universities of California and Arizona. Contact: Special Professional Education, Harvill Bldg., Box 9, Univ. of Arizona, Tucson, AZ 85721.

Symposium on Radioactive Waste Management '85, March 24-28, 1985, Tucson, Arizona, sponsored by Univ. of Arizona, U.S.-DOE, ANS, Electric Power Research Institute, American Society of Mechanical Engineers. Contact: Roy G. Post, General Chairman, Waste Management 85, College of Engineering, Univ. of Arizona, Tucson, AZ 85721.

12th Annual Energy Technology Conference & Exposition, March 25-27, 1985. Contact: Program Chairman, Energy Technology Conference, c/o Government Institutes, Inc., 966 Hungerford Dr., #24, Rockville, MD 20850.

Occupational and Environmental Radiation Protection Course, March 25-29, 1985, Boston, Massachusetts. Contact: Office of Continuing Education, Harvard School of Public Health, 677 Huntington Ave., Boston, MA 02115 (phone 617-732-1171).

2nd Workshop on Perspectives in Nuclear Physics at Intermediate Energies, March 25-29, 1985, Trieste, Italy. Contact: 2nd Workshop on Perspectives in Nuclear Physics at Intermediate Energies, International Centre for Theoretical Physics, P.O. Box 586, I-34014 Trieste, Italy (phone 040-224281).

Annual Meeting of the Atomic Energy Society of Japan, March 28-30, 1985, Tokyo. Contact: Minoru Masamoto, Secretary General, Atomic Energy Society of Japan, No. 1-1-13 Shimbashi, Minato-ku, Tokyo 105 Japan.

April 1985

21st Annual Meeting of the National Council on Radiation Protection and Measurements, April 3-4, 1985, Washington, D. C. Contact: NCRP, 7910 Woodmont Ave., Suite 1016, Bethesda, MD 20814 USA.

International Meeting on Advances in Nuclear Engineering Computational Methods, April 9-11, 1985, Knoxville, Tennessee, sponsored by ANS, European Nuclear Society (ENS), Atomic Energy Society of Japan. Contact: H. L. Dodds, c/o Univ. of Tennessee, Nuclear Engr. Dept., Knoxville, TN 37996 or R. M. Westfall, ORNL, P.O. Box X, Oak Ridge, TN 37831 (phone 615-574-5267).

Fast Reactor Safety, April 21-24, 1985, Knoxville, Tennessee, sponsored by the ANS, ENS. Contact: George Flanagan, Oak Ridge National Laboratory, P.O. Box X, Bldg. 6025, Oak Ridge, TN 37831 (phone 615-574-6155).

Light Water Reactor Fuel Performance, April 21-24, 1985, Orlando, Florida, an ANS Topical Meeting sponsored by the Fuel Cycle & Waste Management Division and Material Science & Technology Division. Contact: Daniel W. Kurtz, H-9, Florida Power Corp., P.O. Box 14042, St. Petersburg, FL 33733 (phone 813-866-4383).

Workshop on Neutron Therapy: Low Dose Rate and Beam Radiation Therapy, April 24-27, 1985, Lexington, Kentucky. Contact: Yosh Maruyama, Dept. of Radiation Medicine, Univ. of Kentucky, Lexington, KN 40536-0084 USA.

General Meeting of the American Physical Society, April 25-27, 1985, Washington. Contact: The American Physical Society, 335 East 45th St., New York, NY 10017.

Tritium Technology in Fission, Fusion and Isotopic Applications, April 30-May 2, 1985, Dayton, Ohio, sponsored by the ANS and the Canadian Nuclear Society. Contact: H. F. Anderson, Process Engr. Eval. & Control, Monsanto Mound Facility, P.O. Box 32, Miamisburg, OH 45342 (phone 513-865-4020).

May 1985

Beijing International Symposium on Hydrogen Systems, May 7-11, 1985, Beijing, China (PRC), sponsored by the International Association for Hydrogen Energy and the China Association for Science and Technology. Contact: Ann G. Raffle, I.A. H.E., P.O. Box 248266, Coral Gables, FL 33124.

International Conference on Nuclear Data for Basic and Applied Science, May 13-17, 1985, Santa Fe, New Mexico. Contact Phillip G. Young, Mail Stop B243, Los Alamos National Laboratory, Los Alamos, NM 87545 USA (phone 505-667-7670).

Telecommunications & Networking...Supplying the missing link, May 19-22, 1985, Fort Lauderdale, Florida, sponsored by the American Society for Information Science. Contact: Lawrence A. Woods, Technical Program Committee Chairman, 221 Memorial Library, Univ. of Notre Dame, Notre Dame, IN 46556.

5th Pacific Basin Nuclear Conference, May 19-23, 1985, Seoul, South Korea, sponsored by the Korean Atomic Industrial Forum, the Korean Nuclear Society, ANS, and others. Contact: Sun-Chang Kim, Meeting Chairman, Korea Electric Power Corp., CPO Box 6583, Seoul, Korea. In the U.S. contact James Sweeney, General Electric Co., 175 Curtner Ave., MC-87, San Jose, CA 95125 (phone 408-925-1037).

6th Symposium on X- and Gamma-Ray Sources and Applications, May 21-23, 1985, Ann Arbor, Michigan. Contact: Martin A. Ludington, Dept. of Physics, Albion College, Albion, MI 49224 USA.

June 1985

25th Annual International Conf. of the Canadian Nuclear Association and 6th Annual Conf. of the Canadian Nuclear Society, June 2-5, 1985, Ottawa, Ontario, Canada. Contact: J. A. Weller, General Manager, Canadian Nuclear Association, 111 Elizabeth St., 11th Floor, Toronto, Ontario, Canada M5G 1P7.

Annual Meeting of the American Nuclear Society, June 9-14, 1985, Boston, Massachusetts. Contact: David G. Pettengill, ANS Meeting Manager, American Nuclear Society, 555 North Kensington Ave., La Grange Park, IL 60535.

July 1985

22nd Annual Conference on Nuclear and Space Radiation Effects, July 21-24, 1985. Contact: Kenneth F. Galloway, B344 Tech, National Bureau of Standards, Washington, DC 20234 USA.

August 1985

Australian Radiation Protection Society Annual Meeting, August 19-21, 1985, Melbourne, Victoria, Australia. Contact: T. H. Gan, Australian Radiation Laboratory, Lower Plenty Road, Yallambie, Victoria 3085, Australia.

SMIRT-8, August 19-23, 1985, Brussels, Belgium. Contact: Sergio Finzi, CEC - Directorate Gen., X11-JRC, Brussels, Belgium.

International Seminar on Containment of Nuclear Reactors, August 26-27, 1985, Brussels, Belgium. Contact: Rolf Krieg, Inst. für Reaktorentwicklung, Kernforschungszentrum, Karlsruhe GmbH, Postfach 3640, D-7500 Karlsruhe 1, F. R. Germany or Algirdas H. Marchertas, Reactor Analysis and Safety Div., Argonne National Laboratory, Argonne, IL 60439 USA.

October 1985

3rd International Topical Meeting on Reactor Thermal Hydraulics, October 15-18, 1985, Newport, Rhode Island, sponsored by the ANS, American Society of Mechanical Engineers, and the American Institute of Chemical Engineers. Contact: 3rd Internatl. Top. Meeting on Reactor Thermal Hydraulics, c/o H. Shaffer, 1671 Worcester Road, Framingham, MA 01701 USA.

12th Annual Meeting and International Conference on Nuclear Energy, October 20-23, 1985, Boston, Massachusetts, sponsored by the World Nuclear Fuel Market. Contact: Donna P. Cason, Administrative Director, WNFPM, 5720 Peachtree Parkway, Norcross, GA 30092 (phone 404-447-1144).

Symposium on Organ Dosimetry for External Gamma and Neutron Radiations, October 22-24, 1985, Knoxville, Tenn., sponsored by the Oak Ridge National Laboratory. Contact: R. O. Chester, ORNL, P.O. Box X, Oak Ridge, TN 37831 (phone 615-574-2102, FTS 624-2102).

Nuclear Science Symposium, October 23-25, 1985, San Francisco, California, sponsored by the Inst. for Electrical and Electronics Engineers. Contact: R. S. Larsen, Stanford Linear Accelerator Center, Stanford Univ., P.O. Box 4349, Stanford, CA 94305 (phone 415-854-9300 ext. 2726; FTS 461-9300 ext. 2726).

International Symposium on Source Term Evaluation for Accident Conditions, October 28-November 1, 1985, Columbus, Ohio. Participation must be through designation by the Government of a Member State of the IAEA or by an organization invited to participate. Contact: Secretariat, c/o International Atomic Energy Agency, Vienna International Centre, P.O. Box 100, A-1400, Vienna, Austria.

November 1985

11th Symposium on Engineering Problems in Fusion Research, November 18-22, 1985, Austin, Texas. Contact: Ward Harris, Fusion Research Center, Univ. of Texas at Austin, RLM 11.1222, Austin, TX 78712 (phone 512-471-4576 or 4698).

DECEMBER ACCESSION OF LITERATURE

The following literature cited has been ordered for review, and that selected as suitable will be placed in the RSIC Information Storage and Retrieval Information System (SARIS). This early announcement is made as a service to the shielding community. Copies of the literature are not distributed by RSIC. They may generally be obtained from the author or from a documentation center such as the National Technical Information Service (NTIS), Department of Commerce, Springfield, Virginia 22161.

RSIC maintains a microfiche file of the literature entered into SARIS, and duplicate copies of out-of-print reports may be available on request. Naturally, we cannot fill requests for literature which is copyrighted (such as books or journal articles) or whose distribution is restricted.

This Literature is on order. It is not in our system. Please order from NTIS or other available source as indicated.

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