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*Nuclear Medicine
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1980–1994

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DEVELOPMENTS IN RADIOIMMUNOASSAY AND RELATED PROCEDURES

Proceedings Series

Proceedings of a symposium held in co-operation with WHO, Vienna, 26–30 August 1991. The symposium focused on recent methodological developments which would enable laboratories in developing countries to upgrade their level of radioimmunoassay practice with the aim of bridging the gap to the industrialized world. Attention was also given to the production of primary reagents including monoclonal antibodies and the establishment of external quality assessment schemes, also of particular concern to developing countries. This is also the case for newly emerging techniques, including non-nuclear analytical methods, as alternatives to radioimmunoassay. The clinical papers were on public health issues of grave socioeconomic concern such as neonatal hypothyroidism and cancer. Discussions on the future of radioimmunoassay provided guidelines as to the most suitable directions in which progress in radioimmunoassay could be made.

Contents: Methodological developments; Reagent production; Tumour markers; Clinical applications; Data processing and quality control; Nuclear versus non-nuclear assay methods; Miscellaneous topics.

STI/PUB/879 (601 pp., 180 figures; 1992)

ISBN 92-0-000392-3

Price: 1600 Austrian Schillings

DYNAMIC FUNCTIONAL STUDIES IN NUCLEAR MEDICINE IN DEVELOPING COUNTRIES

Proceedings Series

Proceedings of a symposium, Vienna, 15–19 August 1988. The papers deal mainly with clinical applications of dynamic functional studies and document some of the problems involved in setting up nuclear medicine facilities in general, and specifically for the diagnosis of the diseases prevalent in less developed countries. Other topics covered are quality control of equipment and the transfer of medical technology.

Contents: Introduction; Nuclear cardiology; Renal function studies; Thyroid; Hepatobiliary function; Gastroenterology;

Brain, bone; Lung; Miscellaneous; Instruments; Quality control;
Cerebral function studies.

STI/PUB/786 (583 pages, 122 figures; 1989)

ISBN 92-0-010089-9

Price: 1440 Austrian Schillings

MEDICAL RADIONUCLIDE IMAGING 1980 Proceedings Series

Proceedings of a symposium, Heidelberg, Germany, 1-5 September 1980. The volume covers the fundamental aspects of medical radionuclide imaging, including instrumentation and techniques, and information processing and display. Other topics covered are quality assurance, applications to the heart, brain, kidneys, glands, veins, abdomen, lungs, tumours and bones, and radionuclide imaging in relation to other imaging modalities.

Contents: (Vol. 1) Fundamental aspects; Instrumentation and techniques; Information processing and display; Radiopharmaceuticals. (Vol. 2) Quality assurance; Joint IAEA/WHO round table on quality assurance in radionuclide imaging; Applications: Heart; Brain, kidneys, glands, veins; Abdomen, lungs, tumours; Bones; Radionuclide imaging in relation to other imaging modalities; Round table on radionuclide imaging in relation to other imaging modalities.

STI/PUB/564 (Vol. 1: 635 pages, 250 figures; Vol. 2: 699 pages, 228 figures; 1981)

1: ISBN 92-0-010081-3;

2: ISBN 92-0-010181-X

Price: Vol. 1: 1180 Austrian Schillings;

Vol. 2: 1300 Austrian Schillings

NUCLEAR MEDICINE AND RELATED RADIONUCLIDE APPLICATIONS IN DEVELOPING COUNTRIES Proceedings Series

Proceedings of a symposium, Vienna, 26-30 August 1985. The symposium, part of a series dealing with radionuclide imaging in medicine, was the first meeting devoted to the entire field of medical applications of radionuclides from the point of view of developing countries. The Proceedings include discussions of current trends in the practice of nuclear medicine in hospitals of developing countries and highlight the inputs required in the form of equipment, radiopharmaceuticals and organization. Also covered are the technical aspects of a wide variety of in vitro and in vivo medical applications of radionuclides, with special emphasis on quality control of these procedures. A special

session dealt with radioimmunoassay and related techniques in the diagnosis of parasitic diseases.

Contents: Opening of the Symposium; Radioimmunoassay and related techniques; Radionuclide applications in the diagnosis of parasitic diseases; Instrumentation; Clinical nuclear medicine: Liver, bones, thyroid, cardio-vascular system, lungs, kidneys, brain; Organization of nuclear medicine services in developing countries; Training in nuclear medicine.

STI/PUB/699 (645 pages, 128 figures; 1986)

ISBN 92-0-010186-0

Price: 1610 Austrian Schillings

NUCLEAR TECHNIQUES IN THE STUDY OF PARASITIC INFECTIONS

Proceedings Series

Proceedings of a symposium, Vienna, 29 June–3 July 1981. Presents reviews of the available nuclear techniques for the study of parasitic infections of man and economically important livestock and an evaluation of the progress made in the application of such techniques to chemotherapy, diagnosis, epidemiology, immunology and the pathology of such infections.

Contents: Resistance to infections with protozoan parasites; Resistance to infections with African trypanosomes and helminths of ruminant animals; Resistance to infections with filarial parasites and schistosomes; Pathology of parasitic infections; Epidemiology and diagnosis of parasitic infections; Physiology and biochemistry of parasitic organisms; Pharmacodynamics of anti-parasitic agents; Report of the Advisory Group Meeting on Immunological and Pathological Criteria Associated with the Use of Radiation-Attenuated Vaccines.

STI/PUB/596 (631 pages, 135 figures; 1982)

ISBN 92-0-010282-4

Price: 1260 Austrian Schillings

RADIOIMMUNOASSAY AND RELATED PROCEDURES IN MEDICINE 1982

Proceedings Series

These Proceedings, of a symposium, Vienna, 21–25 June 1982, include papers on reagents and separation procedures, assays for free hormones, receptor, biological substances and drug assays, data processing, interlaboratory quality control, automation and a panel on external surveillance of assay performance. Also dealt with are assay services in developing countries, public health and clinical applications and alternatives to radioassays.

Contents: Reagents and separation procedures; Assays for free hormones; Receptor assays; Assays for biological substances; Assays for drugs; Data processing; Interlaboratory quality control; Automation; Panel: External surveillance of assay performance; Assay services in developing countries; Public health applications; Clinical applications; Alternatives to radioassays.

STI/PUB/625 (825 pages, 271 figures; 1982)

ISBN 92-0-010482-7

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RADIOPHARMACEUTICALS AND LABELLED COMPOUNDS 1984
Proceedings Series

Proceedings of a conference, Tokyo, Japan, 22-26 October 1984. The aim was to review the latest developments in new scientific concepts and innovations for the design of radiopharmaceuticals with improved characteristics for diagnostic nuclear medicine. The Proceedings include studies on the *relationship between the chemical structure and biological activity* of labelled compounds and experiments leading to a better knowledge of the chemistry and biochemistry involved. Many papers deal with the chemistry of technetium-99m radiopharmaceuticals. Several other papers comment on the promising future applications of elements such as ^{11}C , ^{13}N and ^{15}O as well as ^{18}F , in probing human biochemistry in a quantitative way.

Contents: Production of radionuclides for medical use; Radionuclide generator systems; Labelling and application of monoclonal antibodies; Chemistry of technetium-99m radiopharmaceuticals; Design of new technetium-99m radiopharmaceuticals; Synthesis of labelled compounds; Preparation of tracers and quality control for radioimmunoassay; Present status and future aspects of radiopharmaceuticals; Biodistribution studies with radiopharmaceuticals; Poster presentations.

STI/PUB/672 (581 pp., 203 figures; 1985)

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Radiation Biology

BIOLOGICAL EFFECTS OF LOW-LEVEL RADIATION
Proceedings Series

Proceedings of a symposium, Venice, Italy, 11-15 April 1983. The symposium provided a forum in which new methodologies and detection methods, as well as additional epidemiological

information were collated. In addition, experimental information regarding the basic radiobiological mechanisms of damage and repair at both the cellular and subcellular levels was discussed with a view to explaining dose response curves. The problem of dose limitation to workers and populations at large was reviewed in depth.

Contents: Opening lecture; Epidemiological studies of A-bomb exposure; Basic research; Effects on genetic materials; Epidemiological studies of medical or environmental exposure; Epidemiological studies of occupational exposure; Non-stochastic effects; Stochastic effects; Application of principles; Poster sessions I and II.

STI/PUB/646 (682 pages, 185 figures; 1983)

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**ELEMENTAL ANALYSIS OF BIOLOGICAL MATERIALS —
Current Problems and Techniques with Special Reference
to Trace Elements
Technical Reports Series No. 197**

The report of an Advisory Group meeting held in December 1976 on developments in non-nuclear trace analysis techniques and the selection of optimal methods of analysis. A comparative review of selected techniques for the assay of trace and minor elements in biological materials, together with other relevant information on the need for such analysis, sampling, sample preparation and analytical quality control is given.

Contents: On the need for trace element analysis in the life sciences; Sampling and sample preparation for trace element analysis; Analytical techniques for trace and minor elements in biological materials; Analytical quality control; Appendices.

STI/DOC/10/197 (317 pp., 55 figures; 1980)

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**HEALTH IMPACTS OF DIFFERENT SOURCES OF ENERGY
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Proceedings of a symposium, Nashville, Tennessee, 22-26 June 1981. The symposium pioneered the critical review and comparison of available data on health impacts from a large cross-section of established and developing energy source technologies. Reviewed and discussed were current methods of data acquisition, modelling, risk quantification and comparative analyses with regard to the potential health impacts of different

energy fuel cycles. The contributions cover potential new and renewable energy sources, as well as present sources.

Contents: Keynote address; Epidemiological parameters in evaluation of health impacts; Role of interacting demographic components in health effects and risks; Radioactivity in coal; Environmental transport and transformation of discharges from energy sources influencing the estimation of dose to persons; Experimental validation of biological damage from energy associated effluents; Methods for quantification and comparison of health risks; Risk analysis studies comparing different energy sources; New risk assessment designs for comparison of the health effects of different energy sources.

STI/PUB/594 (701 pages, 100 figures; 1982)

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NUCLEAR AND ATOMIC DATA FOR RADIOTHERAPY AND RELATED RADIOBIOLOGY

Panel Proceedings Series

(See under Medical Physics)

Medical Physics (including Dosimetry)

ABSORBED DOSE DETERMINATION IN PHOTON AND ELECTRON BEAMS — An International Code of Practice Technical Reports Series No. 277

This report represents a step towards a universal code advising users in Secondary Standard Dosimetry Laboratories (SSDLs), and radiation therapy centres throughout the world on how to obtain the absorbed dose from a measurement of exposure or another appropriate quantity. As the numerical result of a physical measurement must be complemented by an assessment of its uncertainty, Appendix A to this Code gives a brief summary of a treatment uncertainties concept by A. Allisy and J.W. Müller from the Bureau International des Poids et Mesures (BIPM).

Contents: Introduction; Radiation quantities and units; Equipment; Radiation quality specification and determination; Measurement chain; Formalism; Determination of absorbed dose to water; Details on correction factors; The uncertainty in absorbed dose determination at the reference point; Appendix A: Evaluation of uncertainties; Appendix B: Introduction to worksheets and flow diagrams.

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**ADVANCES IN DOSIMETRY FOR FAST NEUTRONS
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Proceedings of an Advisory Group Meeting, Vienna, 14-18 June 1982. In this publication experts in the dosimetry of these types of particles reviewed and discussed progress and problems, and proposed recommendations for future work. In addition to those responsible for measurements in clinical applications, representatives of primary standard laboratories also participated in the meeting because of the importance of traceability and international standardization.

Contents: Introduction; Dosimetry of fast neutron beams; Primary standard laboratory activities in neutron dosimetry; Dosimetry of heavy charged particles in radiation therapy and radiation biology.

STI/PUB/643 (301 pages, 125 figures; 1984)

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**BIOMEDICAL DOSIMETRY: PHYSICAL ASPECTS,
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Proceedings of a symposium, Paris, France, 27-31 October 1980. This symposium reflects the considerable advances made in the practice of radiation dosimetry in medicine and biology, particularly in the field of instrumentation and techniques, in standardization and calibration, and in the development of new systems for high dose dosimetry, which are also useful for radiation processing. Remarkable developments were reported in the techniques used in clinical dosimetry. Improvements were described in work on the standardization of radiation dose measurement, with regard both to instrumentation and working procedures.

Contents: General aspects in dosimetry; Dosimetry in physical and biomedical aspects; Determination of absorbed dose; Standardization and calibration of dosimetry system; Development of dosimetry system; Addendum.

STI/PUB/567 (596 pages, 221 figures; 1981)

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**COBALT-60 TELE THERAPY:
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This compendium provides an insight into the part played by cobalt-60 teletherapy in the treatment of patients with cancer, as practised by a number of recognized centres of radiotherapy and oncology throughout the world. The management of the individual patient is emphasized in the context of oncology as a multidisciplinary activity. Treatment strategies proposed by contributing experts are included. Standardization of treatment summaries, radiotechnique diagrams and isodose charts are intended to provide a common reference base and to assist the reader who wishes to adapt a treatment to fit available equipment and services.

Contents: Part A. Principles of cobalt-60 teletherapy, including an introduction to the Compendium. General introduction; Definitions and conventions; Physical aspects of cobalt-60 teletherapy; Guidelines in clinical radiation oncology; TNM classification of malignant tumours; Guidelines for the documentation of radiation treatment methods. Part B. Collected treatment strategies and plans (for 20 sites).

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**DOSIMETRY IN RADIOTHERAPY
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Proceedings of a symposium, Vienna, 31 August–4 September 1987. Presented were aspects of dosimetry in radiotherapy, from very fundamental discussions on physical interaction coefficients to be used in dose determinations to practical aspects in dose measurements and in dose planning for external treatments and brachytherapy. Special attention is devoted to complex irradiating techniques, such as total body irradiation and conformation therapy. The dose calibration methods to be used with fairly conventional radiation sources, like orthovoltage X ray machines, afterloading machines and ^{60}Co gamma units, as well as those to be used at the most advanced medical accelerators, like the 50 MeV race track microtron, are covered. The authors of the papers include representatives from several National Radiation Standards Laboratories, as well as radiotherapists and physicists from hospitals, research institutes and international organizations.

Contents: (Vol. 1) Determination of absorbed dose; Dosimetry; External therapy dosimetry. (Vol. 2) Treatment planning; Standardization and intercomparisons; Total body irradiation and in vivo dosimetry; Conformation therapy; Poster session: Dosi-

metry techniques; Neutron dosimetry; Quality assurance; Organizational aspects on dosimetry.

STI/PUB/760 (Vol. 1: 385 pp., 188 figures; Vol. 2: 394 pp., 98 figures; 1988)

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MEASUREMENT ASSURANCE IN DOSIMETRY *NEW **Proceedings Series**

Proceedings of a symposium, Vienna, 24-27 May 1993. Accurate dosimetry is of great importance for applications of radiation in medicine. The symposium covered all of the various steps required in the calibration chain to determine the absorbed dose in radiotherapy. Different calibration procedures at primary and secondary standard laboratories were discussed, and reports were presented on dose intercomparisons based on different national and international protocols. Analyses of accuracy of various interaction coefficients were also presented. The final session dealt with the special problems of diagnostic X ray dosimetry.

Contents: Status of primary standards for absorbed dose, exposure and kerma; Intercomparison, dissemination and transfer; Calibrations and quality assurance programmes; Dose, volume and quality specifications; Interaction coefficients and correction factors; Application of different protocols for absorbed dose determination; Plane parallel chambers; Beam quality dependence; Direct calibration in absorbed dose to water; Diagnostic X ray dosimetry.

STI/PUB/930 (691 pp., 167 figures; 1994)

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NUCLEAR AND ATOMIC DATA FOR RADIOTHERAPY AND RELATED RADIOBIOLOGY **Panel Proceedings Series**

Proceedings of an Advisory Group meeting, Rijswijk, Netherlands, 16-20 September 1985, in co-operation with the Radiobiological Institute TNO. The meeting had the following specific objectives: to make an inventory of available knowledge on nuclear and atomic data sets relevant to radiotherapy and related radiobiology; to identify and specify further needs for nuclear and atomic data and their accuracies; to stimulate new experimental and theoretical work to fill the identified gaps in nuclear reaction, decay and atomic data; to formulate specific technical recommendations for future work.

Contents: Introduction; Applications and beam production; Neutron interactions; Pion interactions; Charged particle interactions; Charged particle track structure; Working groups: 1. Beam production and field description; 2. Dosimetry; 3. Interpretation and optimization of biological effects.

STI/PUB/741 (454 pp., 141 figures; 1987)

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RADIOTHERAPY IN DEVELOPING COUNTRIES

Proceedings Series

Proceedings of a symposium, Vienna, 1-5 September 1986. The symposium gathered together specialists from developed and developing countries to discuss problems involved in radiotherapy in developing countries, including the lack of facilities, aggravated by a severe shortage of drugs, and ways of improving the situation. The symposium was the first major meeting of its kind to take stock of the prevailing situation and to assess the magnitude of the various problems.

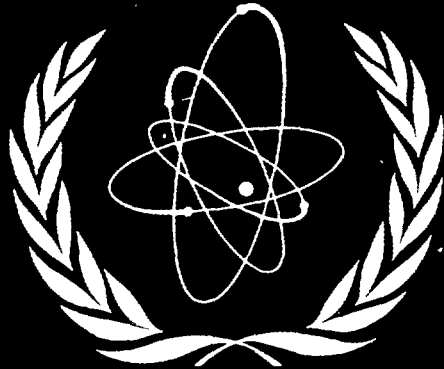
Contents: Radiation therapy for carcinoma of the cervix; Different approaches in radiation therapy; Hyperthermia; Chemical modifiers; Dosimetry and technology; Organization of radiation therapy in developing countries.

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IAEA YEARBOOK 1994

The sixth edition of the IAEA Yearbook provides a comprehensive global coverage of progress in the fields of nuclear power, the nuclear fuel cycle, radioactive waste management and nuclear and radiation safety. In addition, illustrating the variety of applications in which nuclear techniques are found, separate articles describe the beneficial impacts of nuclear isotope techniques on agriculture and food production in the last thirty years and the contribution of environmental isotope techniques to the development of scarce water resources in arid regions. The Yearbook also highlights some of the activities within the IAEA's technical co-operation programme: efforts to improve the seismic safety of the Kozloduy nuclear power plant in Bulgaria, and trends in the scientific training of individuals from developing countries. Two further articles describe how the IAEA safeguards system is evolving in response to recent developments.

Contents: Part A — Transfer of Nuclear Technology; Part B — Applications of Nuclear Techniques and Research; Part C — Nuclear Power, Nuclear Fuel Cycle and Waste Management: Status and Trends; Part D — Nuclear Safety Review; Part E — IAEA Safeguards; Part F — The IAEA.

Parts C and D are also available separately.

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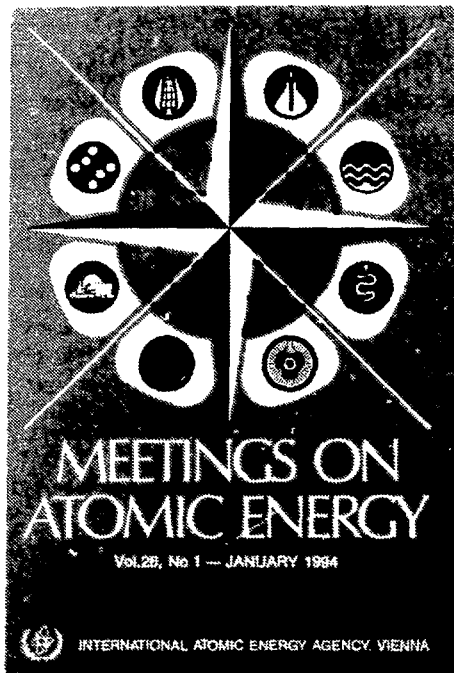
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Contents: Chronological listing of conferences and exhibitions with both Key word and Location indices; International and national training courses; Detailed information on IAEA meetings.

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