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This catalogue lists all sales publications of the International Atomic Energy Agency dealing with Environment and issued during the period of 1986–1997. Some earlier titles which form part of an established series or are still considered of importance have been included. Most publications are in English. Proceedings of conferences, symposia and panels of experts may contain some papers in languages other than English (French, Russian or Spanish), but all of these papers have abstracts in English.

It should be noted that prices of books are quoted in Austrian Schillings. The prices do not include local taxes and are subject to change without notice.

All books in this catalogue are 16 × 24 cm, paper-bound, unless otherwise stated.

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ENVIRONMENT

APPLICATIONS OF ISOTOPES AND RADIATION IN CONSERVATION OF THE ENVIRONMENT Proceedings Series

Proceedings of a symposium held in Karlsruhe, 9–13 March 1992. The objective was to review present knowledge of the applications of radiation, radioisotopes and nuclear methods of analysis in the monitoring and control of environmental pollution and in reducing emissions of environmentally toxic substances. Isotopes and radiation have many characteristics which uniquely contribute to the better understanding of environmental processes, as well as directly protect the environment from the impact of toxic substances. These kinds of applications form the focus of this volume.

Contents: Overviews of some main areas of application of nuclear techniques; Flue gas purification; Radiation processing of liquid and solid wastes; Industrial applications; Radiotracer studies; Major analytical techniques and new approaches in environmental monitoring and research; Nuclear analytical techniques and their applications: 1. Atmospheric studies; 2. Studies of solid wastes, sediments and soils; 3. Hydrochemical and miscellaneous studies; Panel: Current problems and future trends in the use of isotopes and radiation for conservation of the environment.

STI/PUB/904 (699 pp., 221 figures; 1992)

ISBN 92-0-000492-X

Price: 1900 Austrian Schillings

ASSESSING THE IMPACT OF DEEP SEA DISPOSAL OF LOW LEVEL RADIOACTIVE WASTE ON LIVING MARINE RESOURCES Technical Reports Series No. 288

In revising the Definition of high level radioactive waste unsuitable for dumping at sea, calculations of water concentrations in and near a dump site have been made and used to estimate doses to 'typical' marine species living at or near the sea floor at a depth of 4000 m. These calculations show that there are radionuclides that can give rise to significant doses to these typical species and that future revisions of the Definitions and Recommendations under the Convention on the Prevention of

Marine Pollution by Dumping of Wastes and Other Matters will have to consider impacts on the marine ecosystem in setting limits for dumping.

Contents: 1. Introduction; 2. Nature of the deep sea ecosystem; 3. Naturally occurring and fallout radionuclides in the marine environment; 4. Effects of radiation on aquatic organisms; 5. Methods of dosimetry for aquatic organisms and an estimate of the background dose rate in the deep sea; 6. Derivation of dose rates to organisms based on the IAEA Definition of high level radioactive waste unsuitable for dumping at sea; 7. Dose rates arising from actual sea dumping operations; 8. Summary and conclusions; Appendix: Equations and parameters used for calculations and results.

STI/DOC/10/288 (127 pp., 10 figures; 1988)

ISBN 92-0-125488-1

Price: 370 Austrian Schillings

**ATMOSPHERIC DISPERSION IN NUCLEAR
POWER PLANT SITING: A Safety Guide
Safety Series No. 50-SG-S3**

The guide addresses the meteorological investigations needed at different stages in a site survey, in site evaluation and in assessing off-site consequences of operational states and accident conditions. It covers meteorological phenomena and mechanisms involved in the dispersion of radioactive effluents, calculation methods for concentration and deposition, input data needed for calculations, meteorological instrumentation requirements, data analysis system requirements and other related topics.

Contents: 1. Introduction; On-site and off-site meteorological investigation programme; Atmospheric dispersion models; Average short-term concentration estimates; Meteorological aspects of emergency planning at nuclear power plants; Annexes I-VIII.

STI/PUB/549 (107 pp., 16 figures; 1980)

E ISBN 92-0-623180-4

C ISBN 92-0-523886-4

F ISBN 92-0-223581-3

R ISBN 92-0-423082-7

S ISBN 92-0-323382-2

Price: 250 Austrian Schillings

**CONVENTION ON EARLY NOTIFICATION OF
A NUCLEAR ACCIDENT AND CONVENTION
ON ASSISTANCE IN THE CASE OF A NUCLEAR
ACCIDENT OR RADIOLOGICAL EMERGENCY**
Legal Series No. 14

This publication contains the texts of the conventions as adopted and background material relating to the process of their negotiation and conclusion.

Contents: Convention on Early Notification of a Nuclear Accident; Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency.

Separately available in English, French, Russian and Spanish.

STI/PUB/765 (126 pp.; 1987)
E ISBN 92-0-176087-6
F ISBN 92-0-276088-8
R ISBN 92-0-476090-7
S ISBN 92-0-376089-X
Price: 340 Austrian Schillings

**DEFINITION AND RECOMMENDATIONS
FOR THE CONVENTION ON THE PREVENTION
OF MARINE POLLUTION BY DUMPING OF
WASTES AND OTHER MATTER,
1972-1986 Edition: A Safety Guide**
Safety Series No. 78

Under the terms of the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, the IAEA is the organization with the responsibility for defining high level radioactive wastes or other high level radioactive matter which is unsuitable for dumping at sea. The IAEA established a provisional Definition and Recommendations in 1972 and a revised version in 1978. The present Safety Series document contains the second revised Definition and Recommendations, which were established in 1985.

Contents: Scope; 1. Introduction to the Definition and Recommendations; 2. Definition of high level radioactive waste or other high level radioactive matter unsuitable for dumping at sea; 3. Recommendations required by Annex II of the Convention pertaining to the dumping of radioactive wastes; Annex I. Derivation of the quantitative definition of wastes unsuitable for dumping at sea; Annex II. Comparison with previous

Definition and Recommendations; Annex III. Summary of meetings and documentation.

STI/PUB/733 (73 pp.; 1986)

E ISBN 92-0-123586-0

F ISBN 92-0-223987-8

R ISBN 92-0-424388-0

S ISBN 92-0-323887-5

Price: 260 Austrian Schillings

**EFFECTS OF IONIZING RADIATION ON PLANTS
AND ANIMALS AT LEVELS IMPLIED BY
CURRENT RADIATION PROTECTION STANDARDS**
Technical Reports Series No. 332

Releases of waste gases and liquids into the environment from facilities using radioactive materials are controlled so that people living in the vicinity are adequately protected from exposure to ionizing radiations. It is implicitly assumed that protecting humans will also protect the environment in which they live. Although this assumption has never been formally defended, neither has it been seriously challenged. This report examines the validity of the assumption for the case of radioactive releases to the terrestrial and freshwater environments and also for solid waste disposal underground.

Contents: 1. Introduction; 2. Summary of the available information on the effects of ionizing radiation on populations; 3. Estimated dose to plants and animals under current radiation protection standards; 4. Summary and conclusions; References.

STI/DOC/10/332 (74 pp., 2 figures; 1992)

ISBN 92-0-100992-5

Price: 280 Austrian Schillings

ELECTRICITY AND THE ENVIRONMENT
Proceedings Series

Proceedings of a Senior Expert symposium jointly organized by the Commission of the European Communities, the Council for Mutual Economic Assistance, the Economic Commission for Europe, the International Atomic Energy Agency, the International Energy Agency, the International Institute for Applied Systems Analysis, the Nuclear Energy Agency of the OECD, the United Nations Environment Programme, the World

Bank, the World Health Organization and the World Meteorological Organization, in co-operation with the Government of Finland, and held in Helsinki, Finland, 13–17 May 1991. The objective of the symposium was to provide a comprehensive assessment of the environmental and health factors as well as the economic factors involved in supplying electricity services, and to suggest a framework within which these issues should be taken into account in making future plans and decisions on electricity production and use. The potential role of different ways of meeting electricity service requirements was also analysed, taking into consideration both demand side and supply options in the light of their comparative economic, environmental and health related impacts.

Contents: Opening session; Energy and electricity supply and demand: Implications for the global environment; Energy sources and technologies for electricity generation; Comparative environmental and health effects of different energy systems for electricity generation; Incorporation of environmental and health impacts into policy, planning and decision making for the electricity sector; Luncheon sessions; Policy aspects of electricity and the environment; Key issues and findings and round table on challenges for international co-operation.

STI/PUB/877 (501 pp., 65 figures; 1991)

ISBN 92-0-150091-2

Price: 1300 Austrian Schillings

**ENVIRONMENTAL BEHAVIOUR OF
CROP PROTECTION CHEMICALS
Proceedings Series**

***NEW**

Proceedings of a symposium on the Use of Nuclear and Related Techniques for Studying Environmental Behaviour of Crop Protection Chemicals jointly organized by the IAEA and FAO, Vienna, 1–5 July 1996. Use of pesticides has become an integral component of agricultural systems worldwide. Concerning the environment, information must be provided before a product is registered in order to provide assurance that it can be used without unacceptable hazard to non-target organisms. In addition, post-registration surveillance and monitoring studies are necessary to check that the fate and environmental effects of pesticides under field conditions are consistent with predictions. Much of the data are generated using radioisotopes and other nuclear or related methods. Developing countries often have to rely on data generated elsewhere in order to assess the acceptability of a compound. The purpose of the symposium was to examine the circumstances under which extrapolation from one environment

to another is valid on the basis of data generated under comparable conditions. It also considered ways in which relatively simple methods can be used to verify the field applicability of data obtained under sophisticated experimental conditions.

Contents: Opening session; Pesticides in the environment: International perspective; Pesticides in the environment: Regional and country situations; Fate and behaviour of pesticides in the terrestrial environment; Fate and behaviour of pesticides in the aquatic environment; Comparison of fate and behaviour of pesticides in different environments; Effect of pesticides on non-target species; Maximizing the use of environmental data.

STI/PUB/1003 (519 pp., 111 figures; 1997)

ISBN 92-0-104596-4

Price: 1520 Austrian Schillings

ENVIRONMENTAL CONTAMINATION FOLLOWING A MAJOR NUCLEAR ACCIDENT Proceedings Series

Proceedings of a symposium jointly organized with the Food and Agriculture Organization of the United Nations, the United Nations Environment Programme and the World Health Organization, Vienna, 16–20 October 1989. The extent and effects of the potential contamination due to a major accident at a nuclear facility are matters of public concern. Scientific research on the after-effects of the Chernobyl accident on the environment and on human health has provided new data pertaining to large scale contamination. Papers at the symposium covered a wide range of subjects, including: monitoring of radioactive contaminants in the environment, levels of radioactive contamination of farmland, agricultural crops and dairy products in subsequent years, methods for minimizing contamination of feed and food.

Contents: Vol. 1: Part I: Radioactive contamination of the environment: (a) General; (b) Air; (c) Soil; (d) Water; Part II: Monitoring of radioactivity: (a) General; (b) Strategies and policy; (c) Methods and techniques. Vol. 2: Part III: Radioactive contamination of agricultural land and agricultural produce; Part IV: Countermeasures to reduce radionuclide contamination of food chains; Part V: Radiation exposure of populations; Part VI: Radionuclides and international trade in food; Special Session: Hot particles; Summary of the Symposium: Important Issues with Significance for the Future.

STI/PUB/825 (Vol. 1: 497 pp., 144 figures; Vol. 2: 451 pp., 70 figures; 1990)

1: ISBN 92-0-020090-7

2: ISBN 92-0-020190-3

Price: Vol. 1: 1340 Austrian Schillings

Vol. 2: 1200 Austrian Schillings

ENVIRONMENTAL IMPACT OF RADIOACTIVE RELEASES Proceedings Series

Proceedings of a symposium, Vienna, 8–12 May 1995. This was the first major IAEA meeting for more than a decade to deal specifically with the transfer of radionuclides in the environment. Its purpose was to review the information that has become available in recent years, notably as a result of the Chernobyl accident but also gained from studies of the discharges from civil and military nuclear facilities in the early nuclear age. This information has been used for improving the reliability of environmental model predictions, and the main results of the IAEA/CEC programme on Validation of Environmental Model Predictions (VAMP) were presented. In addition, progress in the IAEA programme on the International Arctic Seas Assessment Project (IASAP) was summarized.

Contents: Global impact assessments; New roles for environmental monitoring; Radionuclide releases to the atmosphere; Radionuclide releases to the aquatic environment; Radionuclides in the terrestrial environment; Radionuclide transfer in the freshwater environment; Environmental model testing; Radiological impact assessment; Environmental remediation; Topical discussions.

STI/PUB/971 (874 pp., 178 figures; 1995)

ISBN 92-0-104495-X

Price: 2480 Austrian Schillings

ENVIRONMENTAL ISOTOPE DATA: WORLD SURVEY OF ISOTOPE CONCENTRATION IN PRECIPITATION is a series of Technical Reports, the first of which was published in 1969, containing data collected by the IAEA/WMO Isotopes-in-Precipitation Network of national laboratories set up by the IAEA in co-operation with the World Meteorological Organization in 1953.

**ENVIRONMENTAL ISOTOPE DATA NO. 8:
WORLD SURVEY OF ISOTOPE CONCENTRATION
IN PRECIPITATION (1980–1983)
Technical Reports Series No. 264**

Contents: Introduction; Data printouts (late reports, notes); Numerical station index; Alphabetical station index; Appendix 1: Code numbers for tritium laboratories; Appendix 2: Code numbers for deuterium and oxygen-18 laboratories.

STI/DOC/10/264 (184 pp., 2 figures; 1986)
ISBN 92–0–145186–5
Price: 520 Austrian Schillings

**ENVIRONMENTAL ISOTOPE DATA NO. 9:
WORLD SURVEY OF ISOTOPE CONCENTRATION
IN PRECIPITATION (1984–1987)
Technical Reports Series No. 311**

Contents: Introduction; Data printouts; Numerical station index; Alphabetical station index; Appendix 1: Tritium laboratory code numbers; Appendix 2: Deuterium and oxygen-18 laboratory code numbers.

STI/DOC/10/311 (188 pp., 2 figures; 1990)
ISBN 92–0–145090–7
Price: 580 Austrian Schillings

**ENVIRONMENTAL ISOTOPE DATA NO. 10:
WORLD SURVEY OF ISOTOPE CONCENTRATION
IN PRECIPITATION (1988–1991)
Technical Reports Series No. 371**

This is the tenth and latest volume in the present series. It is mainly concerned with the concentration of the environmental isotopes (tritium, deuterium and oxygen-18) in monthly samples of precipitation taken by a global network of 169 stations in the period 1988–1991. Selected meteorological data, such as the

amount of precipitation, mean water vapour pressure and surface air temperature, are also presented. Data before 1988 which were unavailable at the time of the earlier issues have also been included in the latter part of this volume as late reports. The great majority of the data comes from the IAEA/WMO Isotopes-in-Precipitation Network, which was set up by the IAEA in cooperation with WMO and seven national laboratories. The collection of the precipitation samples is carried out by the meteorological services in 45 countries and territories. Analyses of the network samples are made in co-operating laboratories, a full list of which is given at the end of this publication.

Contents: Introduction; Data printouts; Numerical station index; Alphabetical station index; Appendix 1: Laboratories which have co-operated or are co-operating in the IAEA/WMO network; Tritium laboratories; Stable isotopes laboratories.

STI/DOC/010/371 (214 pp., 2 figures; 1994)

ISBN 92-0-102094-5

Price: 680 Austrian Schillings

**EVALUATING THE RELIABILITY OF
PREDICTIONS MADE USING ENVIRONMENTAL
TRANSFER MODELS:**

A Safety Practice

Safety Series No. 100

This publication provides guidance on the available methods for evaluating the *reliability of environmental transfer model* predictions. It provides a practical introduction to the subject, and particular emphasis has been given to worked examples in the text. It is intended to supplement existing IAEA publications on environmental assessment methodology. Although the book addresses the subject of environmental dose assessment, the methods described are of general application and are equally useful in other areas where modelling techniques are applied.

Contents: 1. Introduction; 2. General aspects of model reliability evaluation; 3. Practical approaches to the evaluation of model reliability; Appendix I: Statistical equations; Appendix II: Latin hypercube sampling; Appendix III: Examples of parameter uncertainty analyses; Glossary.

STI/PUB/835 (106 pp., 17 figures; 1989)

ISBN 92-0-124089-9

Price: 340 Austrian Schillings

**GUIDELINES FOR AGRICULTURAL
COUNTERMEASURES FOLLOWING AN
ACCIDENTAL RELEASE OF RADIONUCLIDES**
Technical Reports Series No. 363

This report is a collation of information and experience gained from the Chernobyl accident in 1986 concerning the transfer of radionuclides, especially ^{137}Cs and ^{90}Sr , through food chains to humans and the ways to effectively reduce them. Accounts of measures taken in various countries following the Chernobyl accident, which at the time caused significant radioactive contamination of the environment over widely separated areas, some relatively remote from the site, are included.

Contents: Part I. Introduction; 1. Introduction; 2. General considerations; 3. Developing a strategy for agricultural countermeasures; Part II. Agricultural countermeasures: Scientific basis and practice; 4. Introduction; 5. Preventive measures to be applied before and during the arrival of radioactive fallout; 6. Countermeasures to be applied in the first few weeks after deposition; 7. Countermeasures to be applied in the medium and long term; 8. Losses of radionuclides in food by processing and culinary preparation; Part III. Organizing for response; 9. Introduction; 10. Emergency preparedness; 11. Response; 12. Public information and information for farmers; Part IV. Contamination in agriculture from past nuclear accidents; 13. Introduction; 14. Nuclear accident requiring countermeasures only in the short term; 15. Nuclear accident requiring countermeasures in both the short and long term; Glossary.

STI/DOC/010/363 (115 pp., 1 figure; 1994)

ISBN 92-0-100894-5

Price: 400 Austrian Schillings

**HANDBOOK OF PARAMETER VALUES FOR THE
PREDICTION OF RADIONUCLIDE TRANSFER IN
TEMPERATE ENVIRONMENTS**
Technical Reports Series No. 364

This handbook has been produced in collaboration with the International Union of Radioecologists. It should serve as a convenient and authoritative reference for radionuclide transfer parameter values used in biospheric assessment models. It supplements Safety Series No. 57 (1982), "Generic Models and Parameters for Assessing the Environmental Transfer of Radionuclides from Routine Releases".

Contents: 1. Introduction; 2. Agricultural systems — vegetation; 3. Agricultural systems — milk, meat and eggs; 4. Freshwater

ecosystems — fish; 5. Natural ecosystems; 6. Food processing transfer parameters.

STI/DOC/010/364 (74 pp., 3 figures; 1994)

ISBN 92-0-101094-X

Price: 280 Austrian Schillings

**HYDROLOGICAL DISPERSION OF RADIOACTIVE
MATERIAL IN RELATION TO NUCLEAR POWER
PLANT SITING: A Safety Guide
Safety Series No. 50-SG-S6**

This guide deals with the dispersion of normal and accidental releases of radioactive material from nuclear power plants into surface water for a full range of releases, including steady state (routine releases), instantaneous or puff (accidental releases), and time dependent long term releases (routine or accidental releases). It describes the Information needed and gives recommendations on measurement programmes and on the selection and use of appropriate mathematical models for evaluating dispersion.

Contents: Introduction; Information needed at the site survey stage; Information needed at the site evaluation stage; Modelling of radionuclide dispersion in surface waters; Appendix A: General discussion of radionuclide dispersion modelling in surface waters; Appendix B: Models for the initial dilution of radioactive material; Appendix C: Models for far-field radionuclide dispersion in rivers; Appendix D: Models for far-field radionuclide dispersion from open coasts; Appendix E: Models for dispersion of radionuclides in estuaries; Appendix F: Models for far-field radionuclide dispersion in impoundments; Annex I: Measurement of diffusion coefficients; Annex II: Measurement of equilibrium sediment distribution coefficients; Annex III: Examples of accuracy and sensitivity of instrumentation; Annex IV: Equations of simple models for radionuclide dispersion in rivers, open coasts, estuaries and impoundments; Annex V: Advanced models for radionuclide dispersion in rivers; Annex VI: Advanced models for radionuclide dispersion in the near shore of open coastal areas; Annex VII: Advanced models for radionuclide dispersion in estuaries; Annex VIII: Advanced models for radionuclide dispersion in impoundments; Annex IX: Deposited airborne radioactive material as a source for dispersion in surface waters.

STI/PUB/539 (116 pp., 14 figures; 1985)

E ISBN 92-0-123285-3

F ISBN 92-0-223889-8

R ISBN 92-0-423587-X

S ISBN 92-0-323187-0

Price: 360 Austrian Schillings

**ISOTOPE TECHNIQUES IN THE STUDY OF PAST
AND CURRENT ENVIRONMENTAL CHANGES IN THE
HYDROSPHERE AND THE ATMOSPHERE**
Proceedings Series

Proceedings of a symposium held in Vienna, 19–23 April 1993. Natural isotopes are among the most powerful tools for investigating past and current environmental changes. In particular, stable isotopes have proved to be very useful proxy indicators of climate related parameters such as surface air temperature, relative humidity of the atmosphere and amount of precipitation, whereas radioactive isotopes are widely used as a dating tool. The release of radionuclides during the nuclear bomb tests permitted studies of the dynamics of transport and mixing processes in the atmosphere. It also allowed a global tracer experiment on the hydrological and carbon cycles, which substantially contributed to better understanding of these two vital compartments of the global ecosystem. A wide spectrum of themes was discussed at the symposium, covering both the 'present' and the 'past' of the global atmosphere/hydrosphere system. Case studies as well as methodological aspects of various isotope techniques applied in both areas of research were presented.

Contents: Isotopes in atmospheric studies; Isotopes in the soil–plants–atmosphere system; Degradation of water resources; Palaeohydrology and palaeowaters; Isotope indicators of climatic changes; Poster presentations.

STI/PUB/908 (623 pp., 190 figures; 1993)
ISBN 92–0–103293–5
Price: 1740 Austrian Schillings

**ISOTOPE TECHNIQUES IN WATER
RESOURCES DEVELOPMENT**
Proceedings Series

Proceedings of a symposium organized in co-operation with UNESCO and held in Vienna, 30 March to 3 April 1987. Nuclear techniques using isotopes are precise tools for studying water resources. They can provide solutions to the problem of the origin, distribution and properties of water in a given region, especially when they are used in combination with other tools. The contents of these proceedings illustrate the fact that isotope hydrology has become mature. It is reported that the development of new nuclear techniques is enabling the application of isotopes other than those used so far in hydrology.

Contents: Thermal water studies; Groundwater dating; Hydrology of arid and semi-arid areas; Field studies with environmental isotopes; Precipitation surface groundwater relationships; Pollution; Artificial tracers; Sediment transport; Poster presentations.

STI/PUB/757 (815 pp., 356 figures; 1987)

ISBN 92-0-040087-6

Price: 1990 Austrian Schillings

**ISOTOPE TECHNIQUES IN WATER
RESOURCES DEVELOPMENT 1991
Proceedings Series**

Proceedings of a symposium organized in co-operation with UNESCO and held in Vienna, 11–15 March 1991. The main themes were the use of isotope techniques in solving practical problems of water resources assessment and development, particularly with respect to groundwater protection, and in studying environmental problems related to water, including the palaeohydrological and palaeoclimatological aspects. The oral presentations were largely concerned with the current status and trends in groundwater dating. The proceedings contain the papers of 37 oral presentations and the extended synopses of 47 poster presentations.

Contents: Interface processes between the atmosphere and the hydrosphere; Surface water and sediments; Groundwater dating: Problems and new approaches; Groundwater dating: Problems and new approaches — methodological aspects and models; Groundwater; Environmental problems and water pollution; Palaeohydrology and palaeoclimatology; Poster presentations.

STI/PUB/875 (789 pp., 273 figures; 1992)

ISBN 92-0-000192-0

Price: 2100 Austrian Schillings

**ISOTOPES IN WATER RESOURCES
MANAGEMENT
Proceedings Series**

Proceedings of a symposium organized in co-operation with UNESCO and held in Vienna, 20–24 March 1995. The main topics addressed were water resources management, with emphasis on origin and recharge of groundwater, groundwater dynamics and pollution, modelling approaches and geothermal and palaeowater resources. The remaining discussions were concerned with surface water and sediments, unsaturated zones and methodological aspects. The proceedings contain the

papers of 43 oral presentations and the extended synopses of over 100 poster presentations.

Contents: (Vol. 1) Recent developments; Surface water and sediments; Unsaturated zones; Origin and recharge of groundwater; (Vol. 2) Dynamics of groundwater; Groundwater pollution; Modelling approaches; Geothermal and palaeowaters.

STI/PUB/970 (Vol. 1: 463 pp., 185 figures; Vol. 2: 530 pp., 237 figures; 1996)

1: ISBN 92-0-105595-1

2: ISBN 92-0-100796-5

Price: Vol. 1: 1360 Austrian Schillings

Vol. 2: 1520 Austrian Schillings

**ISOTOPES OF NOBLE GASES AS TRACERS
IN ENVIRONMENTAL STUDIES
Panel Proceedings Series**

Proceedings of a consultants meeting, Vienna, 29 May to 2 June 1989. Application of isotopes of noble gases as tracers in environmental studies ranges from studies of transport and mixing processes in the atmosphere and the ocean, determination of the age, origin and mode of flow of groundwater bodies, and investigations of rock-water interactions and palaeoclimatic research, to their spectacular role, although not yet fully proved, as early indicators of earthquakes and volcanic eruptions. The purpose of the meeting was twofold: to review the current status of techniques using isotopes of noble gases in the general field of environmental studies, with emphasis placed on investigations of the atmosphere and the hydrosphere, and to provide guidelines for further developments and research needed in the field.

STI/PUB/859 (305 pp., 94 figures; 1992)

ISBN 92-0-100592-X

Price: 820 Austrian Schillings

**LABORATORY TRAINING MANUAL ON THE
USE OF NUCLEAR AND ASSOCIATED
TECHNIQUES IN PESTICIDE RESIDUES
Technical Reports Series No. 329**

The present revised Manual gives a concise yet comprehensive presentation of the basic principles necessary for the proper use

of nuclear and associated techniques in pesticide residue analysis to obtain information on the metabolism or fate of pesticide chemicals in plants, animals, soil, water and non-target organisms.

Contents: Part I. Properties of radionuclides and radiation; Part II. Radiation detection and measurement of radioactivity; Part III. Radiation protection; Part IV. Tracer methodology; Part V. Radiation biology; Part VI. Introduction to practical work; Part VII. Laboratory exercises; Part VIII. Appendices; Part IX. Glossary.

STI/DOC/10/329 (264 pp., 40 figures; 1991)

ISBN 92-0-115091-1

Price: 780 Austrian Schillings

**NUCLEAR POWER PLANT SITING:
HYDROGEOLOGICAL ASPECTS:
A Safety Guide
Safety Series No. 50-SG-S7**

This guide deals with the determination of the radionuclide concentration in groundwater resulting from postulated releases from nuclear power plants. The main emphasis is on the behaviour of radioactive material in groundwater and on the methods for assessing the radionuclide movement in various aquifers. This movement of radionuclides in the ground is essentially controlled by the phenomena of transport (bulk motion of ground water), hydrodynamic dispersion (spread of contaminate front) and ion exchange.

Contents: Introduction; Site survey stage; Site evaluation stage; Modelling of radionuclide dispersion and retention in groundwater; Groundwater monitoring programme; Appendix A: Modelling of radionuclide movement in groundwater; Annex I. Considerations related to groundwater availability; Annex II. Analytical solutions of the advective transport and hydrodynamic dispersion equations; Annex III. Accuracy and reliability of measurements in hydrogeology; Annex IV. Examples of methods and frequencies of measurements within the monitoring programme; Special definitions.

STI/PUB/677 (76 pp.; 1984)

E ISBN 92-0-623284-3

F ISBN 92-0-223286-5

R ISBN 92-0-423486-5

S ISBN 92-0-323586-8

Price: 250 Austrian Schillings

**NUCLEAR TECHNIQUES IN SOIL-PLANT
STUDIES FOR SUSTAINABLE AGRICULTURE
AND ENVIRONMENTAL PRESERVATION**
Proceedings Series

Proceedings of a symposium jointly organized by the IAEA and FAO, Vienna, 17–21 October 1994. The objective of the symposium was to assess the progress being made in the use of nuclear and related techniques for studying various aspects of soil fertility and plant nutrition, environmental problems, the potential and limitations of existing methods, and the possibilities for further development. Analytical methods and equipment are discussed, as are isotope dilution techniques, transfers of fixed N to non-fixing crops, crop water consumption, labelled fertilizer involving fertigation, ¹³C discrimination, erosion and soil degradation, and global warming and climate change. The proceedings should assist scientists, particularly those in developing countries, to find ways of increasing and sustaining soil fertility and crop production while preserving the environment.

Contents: Opening session; Recent developments in analytical methods and equipment; Fertilizer use and management studies; Biological nitrogen fixation in sustainable cropping systems; Soil organic matter studies and nutrient cycling; Water use and management studies; Plant physiological aspects in crop production; Environmental pollution and preservation; Soil conservation, soil erosion and desertification; Poster session.

STI/PUB/947 (735 pp., 139 figures; 1995)
ISBN 92-0-100895-3
Price: 2120 Austrian Schillings

**PESTICIDES: FOOD AND ENVIRONMENTAL
IMPLICATIONS**
Proceedings Series

Proceedings of a symposium jointly organized by the IAEA and FAO in co-operation with the Gesellschaft für Strahlen- und Umweltforschung and held in Neuherberg, 24–27 November 1987. An FAO/IAEA/GSF research co-ordination meeting was held immediately after and in conjunction with the symposium. Pesticides are an integral part of modern agriculture and also in most developing countries. Increasing amounts of active ingredients are being consumed, particularly in the intensively cropped regions of South East Asia. Inherent contamination of the environment follows if rules and regulations are not strictly adhered to. The search for safer, less persistent and more specific pesticides and examination of the fate of applied pesticides in various regions of the world were the main themes of the symposium.

Special emphasis was placed on the use of nuclear techniques, especially on labelled compounds in research.

Contents: Environmental contamination; Pesticide residues in general; Residues in crops; Soil ecosystems; Water-soil ecosystems; Alternative methods for pest control.

STI/PUB/764 (331 pp., 61 figures; 1988)

ISBN 92-0-10288-3

Price: 840 Austrian Schillings

**PRINCIPLES FOR LIMITING RELEASES OF
RADIOACTIVE EFFLUENTS INTO THE ENVIRONMENT:
A Safety Guide
Safety Series No. 77**

This publication is a complete revision of Safety Series No. 45, Principles for Establishing Limits for the Release of Radioactive Materials into the Environment (1978), and its Annex (1982). It is concerned with the subject of limiting releases of radioactive effluents during normal, controlled operations of nuclear installations. It does not deal with releases during accidents where it is only possible to limit exposures by intervention. In practice, a choice must be made between releasing radioactive materials directly from an installation, storing them, treating and disposing of them by some means, or a combination of these methods.

Contents: Concepts and quantities; Assessment of individual dose; Assessment of collective dose; Setting release limits; References; Explanation of terms.

Separately available in English, Chinese, French, Russian and Spanish.

STI/PUB/728 (32 pp., 3 figures; 1986)

E ISBN 92-0-123486-4

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Contents: Introduction; Statistical data; Data summary; Numerical station index; Alphabetical station index; Laboratories which have co-operated or are co-operating in the IAEA/WMO network.

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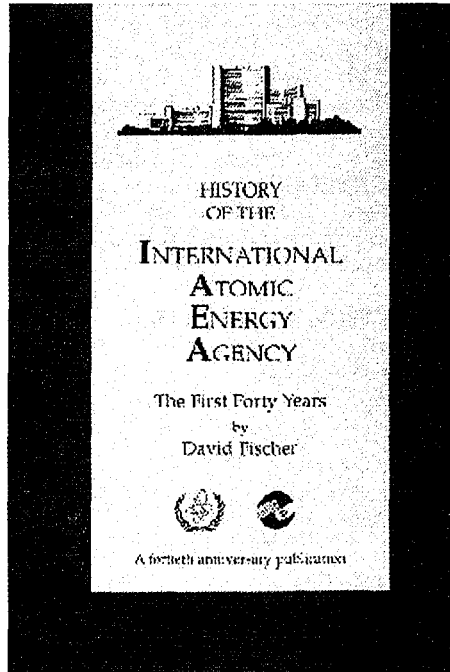
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HISTORY OF THE INTERNATIONAL ATOMIC ENERGY AGENCY: THE FIRST FORTY YEARS

This book, written by David Fischer and published by the IAEA in conjunction with the Monterey Institute of International Studies, California, covers the IAEA since its creation in 1957. The focus of the book is on the history of the IAEA as an organization inextricably linked with the evolution of nuclear technology. Accordingly, the book sketches the fortunes of nuclear power since 1957, the main events that have affected confidence in nuclear safety, and the evolution of arms control, insofar as this has affected IAEA safeguards. Another major part of the IAEA's work covered in the book is the transfer of the practical applications of nuclear science to the developing world. The IAEA's main achievements and the setbacks it has faced are also described and assessed, as is the question of whether the organization has met its original aims.

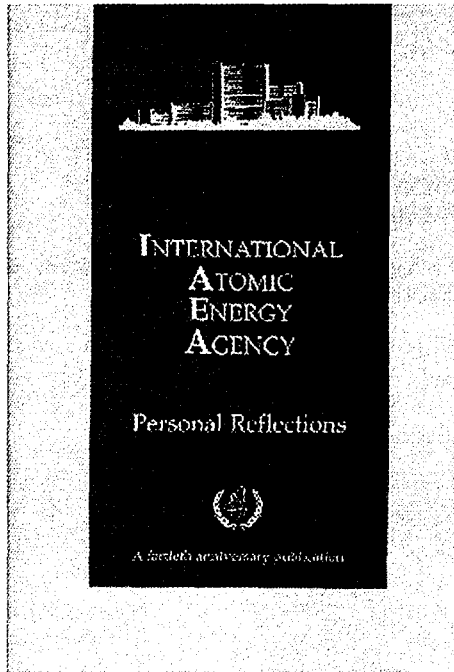
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STI/PUB/1032 (550 pp., 4 figures; 1997)

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INTERNATIONAL ATOMIC ENERGY AGENCY: PERSONAL REFLECTIONS

This set of personal recollections reflect a variety of views from twenty-five distinguished scientists and diplomats who have played major roles in shaping the policies of the IAEA or have made notable contributions to its work at different periods of its history. The IAEA's work is directly related to peace and security in the world through the verification of commitments by States to use nuclear materials and installations exclusively for peaceful purposes. This responsibility is combined with a mandate to promote the peaceful uses of nuclear energy — in such fields as nuclear power, nuclear and radiation safety, and the applications of radiation and isotope techniques in agriculture, human health and hydrology. These 'essays' provide individual insights — often from a rarely available insider's perspective — into particular aspects of the development of an international organization and thus complement the History of the IAEA written by David Fischer.

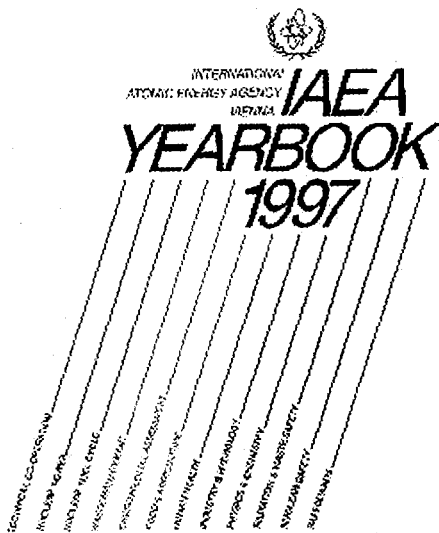
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The ninth edition of the IAEA Yearbook starts with an opening article containing excerpts from David Fischer's History of the International Atomic Energy Agency: The First Forty Years, written to mark the fortieth anniversary of the IAEA. Consequently, Parts A and B, dealing with the transfer of nuclear technology and the application of nuclear and radiation techniques, show examples illustrating programmes which for the past forty years have been major components of the IAEA's work. In Part C, developments in Member States and in the IAEA's activities are described, including the comparative assessment of different forms of electricity generation. Part D concentrates on the question of an international safety regime, foreseen in the Statute from the mid-1950s and having become particularly important with the entry into force of the Convention on Nuclear Safety in 1996. Part E describes the changes introduced as a result of events in the 1990s, which led to a strengthening of the safeguards system by new measures, including an 'additional protocol' under which countries provide the IAEA inspectors with easier access to information and locations. Part F, as usual, describes the structure of the IAEA and the relation with its Member States through its governing bodies.

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

STI/PUB/1034 (245 pp., 37 figures; 1997)

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ALPHABETICAL INDEX

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Applications of isotopes and radiation in conservation of the environment	3
Assessing the impact of deep sea disposal of low level radioactive waste on living marine resources	3
Atmospheric dispersion in nuclear power plant siting: A safety guide	4
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Environmental contamination following a major nuclear accident	8
Environmental impact of radioactive releases	9
Environmental isotope data No. 8: World survey of isotope concentration in precipitation (1980–1983)	10
Environmental isotope data No. 9: World survey of isotope concentration in precipitation (1984–1987)	10
Environmental isotope data No. 10: World survey of isotope concentration in precipitation (1988–1991)	10
Evaluating the reliability or predictions made using environmental transfer models	11
Guidelines for agricultural countermeasures following an accidental release of radionuclides	12
Handbook of parameter values for the prediction of radionuclide transfer in temperate environments	12
Hydrological dispersion of radioactive material in relation to nuclear power plant siting: A safety guide	13
Isotope techniques in the study of past and current environmental changes in the hydrosphere and the atmosphere	14
Isotope techniques in water resources development	14
Isotope techniques in water resources development 1991	15
Isotopes in water resources management	15
Isotopes of noble gases as tracers in environmental studies	16
Laboratory training manual on the use of nuclear and associated techniques in pesticide residues	16

Nuclear power plant siting: Hydrogeological aspects: A safety guide	17
Nuclear techniques in soil–plant studies for sustainable agriculture and environmental preservation	18
Pesticides: Food and environmental implications	18
Principles for limiting releases of radioactive effluents into the environment	19
Quantification, nature and bioavailability of bound ¹⁴ C pesticide residues in soil, plants and food	19
Stable isotopes in plant nutrition, soil fertility and environmental studies	20
Statistical treatment of data on environmental isotopes in precipitation	21
The application of the principles for limiting releases of radioactive effluents in the case of the mining and milling of radioactive ores	21

History of the International Atomic Energy Agency: The First Forty Years	23
The International Atomic Energy Agency 1957–1995: Personal Reflections	25
IAEA Yearbook 1997	27

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