Publications List of the United States Transuranium and Uranium Registries

1968 -1993

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Preface

The United States Transuranium and Uranium Registries (USTUR) began with the establishment of the National Plutonium Registry in 1968. In 1970, the name was changed to the United States Transuranium Registry to reflect a broader concern with the entire spectrum of transuranium elements, and in 1978, a parallel but separate United States Uranium Registry was created to study the uranium decay series. With similar goals of understanding the biokinetics, dosimetry, and potential health effects of transuranic elements and uranium series based on actual human experience, the two registries were administratively joined in February 1992 when responsibility for the Registries was transferred to Washington State University.

Although a number of publications resulted from the research activities of the Registries, no list or collection of publications had been maintained over the years. Accordingly, compilation and publication of a complete listing and collection of Registries publications from the inception through July 1993 was undertaken to coincide with the silver anniversary of the Registries. Several problems immediately surfaced, not the least of which was the definition of what constituted a "Registries publication". Given the history of the Registries, and the split responsibility and funding for various phases of the work among several Department of Energy contractors and other organizations over the years, this proved to be a difficult task. However, ultimately, the following criteria were established for the various categories of publications included in the listing of publications:

Journal Articles and Conference Proceedings Comprised of all known publications in the open peer reviewed scientific literature for research and related activities carried out, funded, or otherwise sponsored, wholly or in part, by the Registries. Included are studies based on previously unpublished Registries data or materials, whether authored by Registries staff or others. The peer reviewed literature was taken to include scientific journals and formal published proceedings of scientific meetings.

Annual Reports These are annual or progress reports published by the Registries.

Miscellaneous Publications These are professional or scientific publications of staff affiliated with the Registries at the time of publication that do not fit into the above categories. Included are abstracts, book reviews, letters to the editor, articles from the peer reviewed scientific literature and technical reports that cover a broad range of topics peripheral to the primary activities of the Registries.

Books and Book Chapters. This category consists of scientific or technical books and book chapters authored by professional staff affiliated with the Registries at the time of preparation. It is not a complete listing of the works of any specific person, and the

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publications listed may consist wholly of material of a generic nature or ancillary to the primary purposes of the Registries.

A second major problem was obtaining copies of the identified Registries publications. In a number of cases reprints or other copies, particularly those of the necessitated obtaining and photocopying these publications to provide a complete record of the known Registries publication. Publications which fall into the first three categories defined above are included in a collection of reprints photocopied from their original sources. Thus, this listing is the documentation of twenty-five years of research endeavor by the Registries.

The compilers wish to express special thanks to Harvey Gover, Washington State University Tri-Cities Branch Campus Librarian, and to James F. McNroy, Los Alamos National Laboratory, for their assistance in securing certain difficult to obtain articles.

Limited number of electronic copies of this publication listing are available on Microsoft Word or Word Perfect.

Richland, Washington
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Publications of the United States Transuranium and Uranium Registries

25-years of growth, research and service

Journal Articles and Conference Proceedings

Pre-Registries

1968

- Newton, C.E., Jr., H.V. Larson, K.R. Heid, I.C. Nelson, P.A. Fuqua, W.D. Norwood, S. Marks and T.D. Mahony. *Tissue Analysis For Plutonium at Autopsy*. In: Monographs on Nuclear Medicine and Biology Series, No. 2. Diagnosis and Treatment of Deposited Radionuclides. Proceedings of a Symposium. Excerpta Medica Foundation: Amsterdam, the Netherlands. pp.460-468. (1968).
- Bruner, H.D. *A Plutonium Registry*. In: Monographs on Nuclear Medicine and Biology Series, No. 2. Diagnosis and Treatment of Deposited Radionuclides. Proceedings of a Symposium. Excerpta Medica Foundation: Amsterdam, the Netherlands. pp.661-665. (1968).

Journal Articles and Conference Proceedings July 1968 - July 1993

1972

- Nelson, I.C., K.R. Heid, P.A. Fuqua and T.D. Mahony. *Plutonium in Autopsy Tissue Samples*. Health Phys. 22:925-930 (1972)
- Norcross, J. A. and C. E. Newton, Jr. *U.S. Transuranium Registry: A Progress Report*. Health Phys. 22:887-890 (1972).
- Norwood, W. D. *The US. Transuranium Registry: Progress and Expectations*. In: Radiobiology of Plutonium. eds. B.J. Stover and W.S.S. Jee. Salt Lake City: The J. W. Press. (1972) pp.531-537.
- Norwood, W.D., J.A. Norcross, C.E. Newton, Jr., D.B. Hylton and C. Lagerquist. *Preliminary Autopsy Findings in U. S. Transuranium Registry Cases*. Proceedings of the 12th Hanford Biology Symposium May 10-12, 1972. (1972) pp.465-474.

1975

- Norwood, W.D. and C.E. Newton, Jr. *U. S. Transuranium Registry Study of Thirty Autopsies*. Health Phys. 28:669-675 (1975).
- McInroy, J.F. *The Los Alamos Scientific Laboratory's Human Autopsy Tissue Analysis Study*. LA-UR-85-2322. In: The Health Effects of Plutonium and Radium. ed. W.S.S. Jee. (1975) pp. 249-270.

Norwood, W.D., C.E. Newton, Jr., C.W. Kirklin, K.R. Heid and B.D. Breitenstein, Jr.
Health of Hanford Plutonium (Pu) Workers. In: The Health Effects of Plutonium and Radium. ed. W.S.S. Jee. (1975) pp. 271-296.

1980

Volchok, H.L., M. Feiner, K.G.W. Inn and J.F. McInroy. *Development of Some Natural Matrix Standards - Progress Report.* Environ. Int. 3:395-398 (1980).

1981

Boyd, H.A., B.C. Eutsler and J.F. McInroy. *Determination of Americium and Plutonium in Autopsy Tissue: Methods and Problems.* In: Actinides in Man and Animals. ed. M. E. Wrenn, Salt Lake City: RD Press. (1981) pp.43-52.

Breitenstein, B.D., Jr. *The US. Transuranium Registry.* In: Actinides in Man and Animals. ed. M. E. Wrenn, Salt Lake City: RD Press. (1981) pp.269-272.

Kawamura, H., G. Tanaka, J. F. McInroy and B.C. Eutsler. *Concentration of ^{239}Pu ^{240}Pu in Human Autopsy Tissues: Preliminary Report of a Comparative Study on Different Populations.* J. Radiat. Res. 22:373-380 (1981).

Marks, S. *An Introduction to the U.S. Uranium Registry.* In: Actinides in Man and Animals. ed. M. E. Wrenn, Salt Lake City: RD Press. (1981) pp.273-276.

McInroy, J. F., H.A. Boyd and B.C. Eutsler. *Deposition and Retention of Plutonium in the United States General Population.* In: Actinides in Man and Animals. ed. M. E. Wrenn, Salt Lake City: RD Press. (1981) pp.161-179.

1984

Breitenstein, B.D., Jr., *Report of an Accidental Acute Human Exposure to ^{241}Am .* Trans. Am. Nucl. Soc. 46:319-320 (1984).

Palmer, H.E. B.D. Breitenstein, Jr., P.W. Durbin, K.R. Heid and J.F. McInroy. *The Calibration of Whole Body Counters for Transuranic Radionuclides by Using Total Body Donations to the U.S. Transuranium Registry,* Intentional Symposium on the Assessment of Radioactive Contamination in Man, Paris, France, November 19-23, 1984, IAEA-SM-276/11 (1984).

Palmer, H.E., K.R. Heid, and R.H. Moore. *Lead-210 in Uranium and Mill Workers.* Health Phys. 47:632-634 (1984).

Swint, M.J. and R.L. Kathren. *The U. S. Transuranium Registry: The Final Contribution or Ultimate Gift.* Trans. Am. Nucl. Soc. 46:317-318 (1984).

1985

Breitenstein, B. D., Jr., C.E. Newton, Jr. and H.T. Norris. *The U. S. Transuranium Registry Report on the ^{241}Am Content of a Whole Body, Part I: Introduction and History of the Case.* Health Phys. 49:565-567 (1985).

Durbin, P.W. and C.T. Schmidt. *The US. Transuranium Registry Report on the ^{241}Am Content of a Whole Body, Part V. Implications for Metabolic Modeling.* Health Phys. 49:623-661 (1985).

Heid, K.R. and B. Robinson. *The U.S. Transuranium Registry Report on the ^{241}Am Content of a Whole Body, Part II, Estimate of the Initial Systemic Burden.* Health Phys. 49:569-575 (1985).

McInroy, J.F., H.A. Boyd, B.C. Eutsler and D. Romero. *The U. S. Transuranium Registry Report on the ^{241}Am Content of a Whole body-Part IV: Preparation and Analysis of the Tissue and Bones.* Health Phys. 49:587-621 (1985).

Moore, R.H. and R.L. Kathren. *A World War II Uranium Inhalation Event with Pulmonary Implications for Today.* J. Occup. Med. 27:753 (1985).

Palmer, H.E., H.B. Spitz and G.A. Rieksts. *The U.S. Transuranium Registry Report on the ^{241}Am Content of a Whole Body, Part III: Gamma-ray Measurements.* Health Phys. 49:577-586 (1985).

Thomas, R.G., J.W. Healy and J.F. McInroy. *Plutonium in Gonads: A Summary of the Current Status.* Health Phys. 48:7-17 (1985).

1986

Kathren, R. L. and R.H. Moore. *Acute Accidental Inhalation of U: A 38-Year Follow-up.* Health Phys. 51:609-619 (1986).

Singh, N.P., M.E. Wrenn, J.F. McInroy, E.R. Gonzales, F.T. Cross and P.O. Jackson. *Ratio of ^{234}U , ^{238}U and ^{230}Th in Dog Lungs Exposed to U Ore Dust: An Interlaboratory Comparison,* Health Phys. 50:292-297 (1986).

1987

Kathren, R. L., K.R. Heid, and M.J. Swint. *Comparison of Estimates of Systemic Pu from Urinary Excretion with Estimates from Postmortem Tissue Analysis.* Health Phys. 53:487-493 (1987).

Kathren, R. L., J.F. McInroy and M.J. Swint. *Actinide Distribution in the Human Skeleton.* Health Phys. 52:179-192 (1987).

Miglio, J.J., and L.C. Willis. *Evaluation of a Technique for Separating Organic Material from Mineral Bone in Individuals Occupationally Exposed to Pu.* Health Phys. 52:736-767 (1987).

1988

Gonzales, E.R., E.S. Gladney, H.A. Boyd, J.F. McInroy, M. Muller and P.D. Palmer. *Determination of U in Human Tissues by Delayed Neutron-Activation Analysis.* Health Phys. 55:927-932 (1988).

Heid, K.R., J.J. Jech, R.L. Kathren and M.J. Sula. *A Comparison of Long-term Retention of Plutonium Oxide in Lung Based on Excretion Data with Observed Lung Burdens at Autopsy.* In: Annals of Occup. Hyg., Inhaled Particles VI. eds. J. Dodgeson, R. I. MacCallum, M. R. Bailey and D. R. Fisher. Oxford: Pergamon Press. pp. 901-907(1988).

Hickman, D.P. and N. Cohen. *Reconstruction of a Human Skull Calibration Phantom Using Bone Sections from an ^{241}Am Exposure Case,* Health Phys. 55:59-65 (1988).

Kathren, R.L. *Implications of Human Tissue Studies for Radiation Protection.* Health Phys. 55:315-319 (1988).

Kathren, R.L., J.F. McInroy, M.M. Reichert and M.J. Swint. *Partitioning of ^{239}Pu and ^{241}Am in Skeleton and Liver of U. S. Transuranium Registry Autopsy Cases.* Health Phys. 54:181-188 (1988).

Lynch, T.P., R.L. Kathren and J.F. McInroy. *Macrodistribution of Plutonium and Americium in Four Human Skeletons.* J. Radiol. Prot. 8:67-76 (1988).

Sula, M.J., R.L. Kathren, D.E. Bihl and E.H. Carbaugh. *Comparison of Premortem and Postmortem Estimates of Plutonium in the Skeleton and Liver of Six Individuals.* In: Radiation Protection Practice. Vol. 3 (1988) pp.1415-1418.

1989

Breitenstein, B.D., Jr. and H.E. Palmer. *Lifetime Follow-up of the 1976 Americium Accident Victim.* Radiat. Protect. Dosim. 26:317-322 (1989).

Kathren, R.L. *The United States Transuranium and Uranium Registries: Overview and Recent Progress.* Radiat. Protect. Dosim. 26:323-330 (1989).

Kathren, R.L., J.F. McInroy, R.H. Moore and S.E. Dietert. *Uranium in the Tissues of an Occupationally Exposed Individual.* Health Phys. 57:17-21 (1989).

Kathren, R.L. and G.R. Petersen. *Units and Terminology of Radiation Measurement: A Primer for the Epidemiologist.* Am. J. Epidemiem. 130:1076-1087 (1989).

Lynch, T.P., R.L. Kathren, G.E. Dagle and J.F. McInroy. *Comparative Skeletal Distribution of Am and Pu in Man, Monkey, and Baboon.* Health Phys. 57:81-88 (1989).

McInroy, J.F., R.L. Kathren and M.J. Swint. *Distribution of Plutonium and Americium in Whole Bodies Donated to the United States Transuranium Registry.* Radiat. Protect. Dosim. 26:151-158 (1989).

Schlenker, R.A., B.G. Oltman and R.L. Kathren. *Bone Surface Deposition of ^{241}Am in a Person with Occupational Exposure.* Radiat. Prot. Dosim. 26:195-199 (1989).

1990

Inn, K.G.W., W.S. Liggett Jr., H.L. Volchok, M.S. Feiner, J.F. McInroy, D.R. Popplewell, D.R. Percival, R.A. Wessman, V.T. Bowen, H.D. Livingston, R.L. Kathren and H. Kawamura. *Interlaboratory Comparison of Actinides in Human Tissue ^{239}Pu and ^{240}Pu .* J. Radioan. Nucl. Chem. 138:219-229 (1990).

McInroy, J.F. and R.L. Kathren. *Plutonium Content in Marrow and Mineralized Bone in an Occupationally Exposed Person.* Radiat. Protect. Dosim. 32:245-252 (1990).

1991

Fisher, D.R., R.L. Kathren and M. J. Swint. *Modified Biokinetic Model for Uranium from Analysis of Acute Exposure to UF_6 .* Health Phys. 60:335-342 (1991).

Kathren, R.L. and J.F. McInroy. *Comparison of Systemic Plutonium Deposition Estimates from Urinalysis and Autopsy Data in Five Whole-body Donors.* Health Phys. 60:481-488 (1991).

McInroy, J.F., R.L. Kathren, G.L. Voelz, and M.J. Swint. *US. Transuranium Registry Report on the ^{239}Pu Distribution in a Human Body.* Health Phys. 60:307-333 (1991).

1992

Collart, F.R., M. Horio, R.A. Schlenker, R.L. Kathren and E. Huberman. *Alteration of the c-fms Gene in a Blood Sample from a Thorotrast Individual.* Health Phys. 63:27-32 (1992).

Dagle, G.E., E.P. Moen, R.R. Adey, T.E. Hui, A.C. James, R.E. Filipy and R.L. Kathren. *Macrodistribution and Microdosimetry of Thorium Deposited in the Liver.* Health Phys. 63:41-45 (1992).

Graham, S.J., R.B. Heaton, D.F. Garvin and J.D. Cotelingam. *Whole Body Pathologic Analysis of a Patient with Thorotrast-Induced Myelodysplasia.* Health Phys. 63:20-26 (1992).

Kathren, R.L. and R.L. Hill. *Distribution and Dosimetry of Thorotrast in USUR Case 1001.* Health Phys. 63:72-88 (1992).

- Kathren, R.L. and J.F. McInroy. *Implications of Postmortem Human Tissue Analysis on Biokinetic Models for Actinides*. J. Radioan. Nucl. Chem. 156:413-424 (1992).
- Mays C.W., R.L. Aamodt, K.G.W. Inn, D.R. Brown, R.R. Greenberg, V.G. Iyengar, F.J. Schima, L.S. Slaback, J.W. Tracy, T.P. Lynch and K.L. Mossman. *External Gamma-Ray Counting of Selected Tissues from a Thorotrast Patient*. Health Phys. 63:33-40 (1992).
- McInroy, J.F., E.R. Gonzales and J.J. Miglio. *Measurement of Thorium Isotopes and ^{228}Ra in Soft Tissues and Bones of a Deceased Thorotrast Patient*. Health Phys. 63:54-71 (1992).
- Priest, N.D., J. W. Haines, J.A.M. Humphreys, H. Metivier and R.L. Kathren. *The Bone Volume Effect on the Dosimetry of Plutonium-239 and Americium-241 in the Skeleton of Man and Baboon*. J. Radioan. Nucl. Chem. 156:33-53 (1992).
- Priest, N.D., J.A.M. Humphreys, R.L. Kathren and C.W. Mays. *The Distribution of Thorotrast in Human Bone Marrow: A Case Report*. Health Phys. 63:46-53 (1992).
- Tauber, W.B. *Clinical Consequences of Thorotrast in a Long-Term Survivor*. Health Phys. 63:13-19 (1992).
- Travis, L.B., R.L. Kathren and J.D. Boice, Jr. *Cancer Risk Following Exposure to Thorotrast: Overview in Relation to a Case Report*. Health Phys. 63:89-100 (1992).
- Travis, L.B., R.L. Kathren, D. Mays and C.W. Mays. *Comprehensive Evaluation of a Thorotrast Patient: An Overview*. Health Phys. 63:10-12 (1992).
- 1993**
- Kathren, R.L. *The United States Transuranium and Uranium Registries*. In: Radiation and Society, Proceedings of American Chemical Society Symposium, April 1992 (in press) 1993.
- Kathren, R.L., D.J. Strom, C.L. Sanders, R.E. Filipy, J.F. McInroy and R.E. Bistline. *Distribution of Plutonium, Americium and Uranium in Human Lungs and Lymph Nodes and Relationship to Smoking Status*. Rad. Protect. Dosim. 48:307-315. (1993).
- Nelson, I.C., W.V. Thomas, Jr. and R.L. Kathren. *Plutonium in South Central Washington State Autopsy Tissue Samples 1970-1975*. Health Phys. (in press) (1993).

Annual Reports

- Norwood, W.D. and C.E. Newton, Jr. National Plutonium Registry Annual Report. Hanford Environmental Health Foundation, Richland, WA (July 1969).
- Norwood, W.D. and C.E. Newton, Jr. United States Transuranium Registry Summary Report to June 30, 1974. HEHF 22 Hanford Environmental Health Foundation, Richland, WA (June 1974).
- Norwood, W.D. and C.E. Newton, Jr. United States Transuranium Registry Summary Report July 1, 1974 to October 1, 1975. HEHF 23. Hanford Environmental Health Foundation, Richland, WA (November 1975).
- Breitenstein, B.D., Jr., W.D. Norwood and C.E. Newton, Jr. United States Transuranium Registry Annual Report October 1, 1975 to October 1, 1976. HEHF 24. Hanford Environmental Health Foundation, Richland, WA (December 1976).
- Breitenstein, B.D., Jr., C.E. Newton, Jr. and W.D. Norwood United States Transuranium Registry Annual Report October 1, 1976 to October 1, 1977. HEHF 25 Hanford Environmental Health Foundation, Richland, WA (January 1979).
- Breitenstein, B.D., Jr., C.E. Newton, Jr. and W.D. Norwood . United States Transuranium Registry Annual Report October 1, 1977 to October 1, 1978. HEHF 28. Hanford Environmental Health Foundation, Richland, WA (January 1979).
- Breitenstein, B.D., Jr. and C.E. Newton, Jr. United States Transuranium Registry Annual Report October 1, 1978 to October 1, 1979. HEHF-30. Hanford Environmental Health Foundation, Richland WA (January 1980).
- Breitenstein, B.D., Jr., K.R. Heid and M.J. Swint. 1981 United States Transuranium Registry Annual report October 1, 1979 to October 1, 1980. HEHF-32. Hanford Environmental Health Foundation, Richland, Washington (January 1981).
- Breitenstein, B.D., Jr., K.R. Heid and M.J. Swint. United States Transuranium Registry Annual Report October 1, 1980 to October 1, 1981. HEHF 34. Hanford Environmental Health Foundation, Richland, WA (January 1982).
- Breitenstein, B.D., Jr., K.R. Heid and M.J. Swint. United States Transuranium Registry Annual Report, October 1, 1981 through September 30, 1982. HEHF-38. Hanford Environmental Health Foundation, Richland, WA (February 1983).
- Swint, M.J. and K.R. Heid. United States Transuranium Registry Annual Report, October 1, 1982 through September 30, 1983. HEHF 43. Hanford Environmental Health Foundation Report. Richland, WA (April 1984).

Swint, M.J. and R.L. Kathren. United States Transuranium Registry Annual Report, October 1, 1983 through September 30, 1984. HEHF-46. Hanford Environmental Health Foundation Report. Richland, WA (April 1985).

Swint, M.J. and R.L. Kathren. United States Transuranium Registry Annual Report October 1, 1984 through September 30, 1985. HEHF-54-85. Hanford Environmental Health Foundation, Richland WA (April 1986).

Swint, M.J. and R.L. Kathren. United States Transuranium Registry Annual Report October 1, 1985 through September 30, 1986. HEHF-54-86. Hanford Environmental Health Foundation, Richland WA (June 1987).

Swint, M.J. and R.L. Kathren. United States Transuranium Registry Annual Report October 1, 1986 through September 30, 1987. HEHF-54-87. Hanford Environmental Health Foundation, Richland, WA (April 1988).

Swint, M.J. and R.L. Kathren. United States Transuranium Registry Annual Report October 1, 1987 through September 30, 1988. HEHF-54-88. Hanford Environmental Health Foundation, Richland, WA (April 1989).

Kathren, R.L., M.J. Swint and S.E. Dietert. Annual Report of the United States Transuranium and Uranium Registries October 1, 1988 Through September 30, 1989. HEHF-54-89. Hanford Environmental Health Foundation, Richland, WA (April 1990).

Kathren, R.L., R.E. Filipy and S.E. Dietert. Annual Report of the United States Transuranium and Uranium Registries October 1, 1989 Through September 30, 1990. HEHF-54-90. Hanford Environmental Health Foundation, Richland, WA (June 1991).

Kathren, R.L. The United States Transuranium and Uranium Registries. Report of the Period October 1, 1990 - April 1992. Health Research and Education Center, College of Pharmacy, Washington State University. September 1, 1992. (1992).

Miscellaneous Publications

1973

Campbell, E.E., M.F. Milligan, H.F. Schulte and J.F. McInroy. *Plutonium in Autopsy Tissue*, Los Alamos Scientific Laboratory Report LA-4875. (January 1973).

Heid, K. R. *Evaluations Based on Bioassay Data*. (Abstract). Health Phys. 25:303 (1973).

Campbell, E.E., and J.F. McInroy. *Plutonium and Environmental Metals in Man*, Los Alamos National Laboratory Report LA-5445-C. (October 1973).

Johnson, L.J., J.F. McInroy, E.E. Campbell and W.D. Moss. *Estimating the Plutonium Content of the Human Skeletal System from Measured Concentrations in Bone Samples*. (Abstract) Health Phys. 25:325 (1973).

1974

Heid, K.R. and P.A. Fuqua. *Review of Uranium Inhalation Case*. Health Phys. 26:399-403 (1974).

1976

McInroy, J.F., M.W. Stewart and W. D. Moss. *Studies of Plutonium in Human Tracheobronchial Lymph Nodes*. Energy Research and Development Administration Symposium Series, No. 37 Radiation and the Lymphatic System. VI+258P. Illus. Technical Information Center Office of Public Affairs: Springfield. pp. 54-58. (1976).

1979

McInroy, J.F., E.E. Campbell, W.D. Moss, G.L. Tietjen, B.C. Eutsler and H.A. Boyd. *Plutonium in Autopsy Tissue: A Revision and Updating of Data Reported in LA-4875*. Health Phys. 37:1-136 (1979).

1980

Fox, T, G.L. Tietjen and J.F. McInroy. *Statistical Analysis of a Los Alamos Scientific Laboratory Study of Plutonium in U.S. Autopsy Tissue*. Health Phys. 39:877-892 (1980).

1981

Stoetzel, G.A., D.R. Fisher, W.D. McCormack, G.R. Hoenes and S. Marks, Pacific Northwest Laboratory; R.H. Moore, D.G. Quilici, and B.D. Breitenstein, Jr., Hanford Environmental Health Foundation. Occupational Exposures to Uranium: Processes, Hazards and Regulations. PNL-3341 USUR-01 UC-41. Hanford Environmental Health Foundation and Pacific Northwest Laboratory.(April 1981).

1982

Heid, K.R. and M.J. Swint. *The United States Transuranium Registry*. (Abstract). Health Phys. 43:162 (1982).

McInroy, J.F., H.A. Boyd, B.C. Eutsler, W.D. Moss, and E.E. Campbell. *Plutonium Concentrations in Tissues of Occupationally Exposed Nuclear Workers*. (Abstract). Health Phys. 43:124 (1982).

Petersen, G.R., Hanford Environmental Health Foundation, and L.E. Sever, Pacific Northwest Laboratory. An Appraisal of Selected Epidemiologic Issues from Studies of Lung Cancer Among Uranium and Hard Rock Miners. USUR-02-HEHF-35. Hanford Environmental Health Foundation. (April 1982).

Stoetzel, G.A., G.R. Hoenes, F.M. Cummings and W.D. McCormack. Radiological Health Aspects of Commercial Uranium Conversion, Enrichment, and Fuel Fabrication. PNL-4438 USUR-03 UC-41. Pacific Northwest Laboratory. (November 1982).

1983

Fisher, D.R. and G.A. Stoetzel. Radiological Health Aspects of Uranium Milling. PNL-4606 USUR-04 UC-41. Pacific Northwest Laboratory. (May 1983).

1984

Evans, R.D. *Acceptance of the Coolidge Award*. Med. Phys. 11:579-581 (1984).

Kathren, R. L. *Herbert M. Parker*. Am. J. Roentgenol. 143:460 (1984).

Kathren, R. L. *In Memoriam: Herbert M. Parker (1910-1984)*. Med. Phys. 11:567. (1984).

Kathren, R.L. *Presentation of the 1984 Coolidge Award to Robley D. Evans*. Med. Phys. 11:577-578 (1984).

Moore, R.H., ed. Biokinetics and Analysis of Uranium in Man. Proceedings of a Colloquium held at Richland, Washington August 8-9, 1984. USUR-05 HEHF-47. Hanford Environmental Health Foundation. (1984).

Moss, W.D. and J.F. McInroy. *A Study of the Correlation Between Plutonium in Urine and Liver in Occupationally Exposed Workers*. (Abstract). Health Phys. 47:210-211 (1984).

Palmer, H.E., F.I. Cross, K.R. Heid, and R.H. Moore. *Pb-210 in Rats, Dogs, and Humans Exposed to Radon Daughters and Uranium Ore Dust*. (Abstract). Health Phys. 47:146 (1984).

Thomas, R.G., J.W. Healy and J.F. McInroy. *Plutonium Partitioning Among Internal Organs*. Health Phys. 46:839-844 (1984).

1985

Durbin, P.W., C.T. Schmidt, J. F. McInroy and B.D. Breitenstein, Jr. *Estimation of Initial Distribution of Am in Adult Male Human Skeleton*. (Abstract). Health Phys. 49:162 (1985).

Kathren, R.L. *Health Physics Perspectives of the 1963 Livermore Criticality Accident*. (Abstract). Health Phys. 49:2 (1985).

Kathren, R. L., and J.R. McInroy. *Actinide Distribution in the Human Skeleton*. (Abstract). Health Phys. 49:177 (1985).

McInroy, J.F., and M.J. Swint. *Distribution of the ^{239}Pu and ^{241}Am in the Human Skeleton*. (Abstract) In Metals in Bone. ed. N. D. Priest. MTP Press Limited. (1985) pp.229-230.

Schmidt, C.T. and P.W. Durbin. *A Five-Compartment Model for the Kinetic Distribution of Americium in Man*. (Abstract). Health Phys. 49:161 (1985).

Swint, M.J., P.B. Blackburn, and R.L. Kathren. *Plutonium Deposition in Manhattan District Workers: A Retrospective Look*. (Letter). Health Phys. 49:1314-1315 (1985).

Weiner, R.E., J.F. McInroy and A.V. West. *Determination of Environmental Levels of Pu, Am, U and Th In Human Fetal Tissue*.(Abstract) Health Phys. 49:23 (1985).

1986

Kathren, R.L. *Recent Progress of the United States Transuranium and Uranium Registries*. Presented at the DOE Bioassay and Internal Dosimetry meeting held in Albuquerque, New Mexico. PNL-SA-14043. Pacific Northwest Laboratory. (January 20, 1986). pp.383-394

Kathren, R. L., J.F. McInroy, M.M. Pixley and M.J. Swint. *Partitioning Ratio of ^{238}Pu , ^{239}Pu , and ^{241}Am in Liver and Skeleton of United States Transuranium Registry Autopsy Cases*. (Abstract). Health Phys. 50(Suppl.1):S27 (1986).

1987

Kathren, R.L. *Presentation of the Elda E. Anderson Award to Darrell R. Fisher*. Health Physics 52:261-263 (1987).

Kathren, R.L., J.F. McInroy, G.L. Voelz and M.J. Swint. *U.S. Transuranium Registry Report on the Pu-239 Distribution in a Human Body*. (Abstract) Health Phys. 52(Suppl. 1):S37 (1987).

Lynch, T. P., R.L. Kathren and J. F. McInroy. *Distribution of Americium-241 and Plutonium-239 in Four Human Half-Skeletons*. (Abstract). Health Phys. 52(Suppl.1):S37 (1987).

1988

Kathren, R.L. *Health Physics Instruments Yesterday: Some Notes on the Evolution of Health Physics Instruments*. In: Proceedings of the 22nd Midyear Topical Meeting on Instrumentation, December 4-8, 1988. San Antonio: Health Physics Society. (1988) pp.1-9.

Kathren, R.L. and J.N. Stannard. Book Review: The Dragon's Tail: Radiation Protection in the Manhattan Project 1942-1946, by Barton C. Hacker. Health Phys. 54:475-476 (1988).

Kathren, R.L., and J.R. Weber, eds. Ultrasensitive Techniques for Measurement of Uranium in Biological Samples and the Nephrotoxicity of Uranium: Proceedings of the Meeting at Washington, D.C., December 4-5, 1985. Pacific Northwest Laboratory. NUREG/CP-0093, PNL-6511 (April 1988).

McInroy, J.F., Kathren, R.L., M.J. Swint, and B.D. Breitenstein Jr. *Tissue ^{241}Am Content in a U. S. Transuranium Registry Autopsy Case Eleven Years after Exposure from a Glove Box Explosion*. (Abstract). Health Phys. 54(Suppl.1):S26 (1988).

Munson, L.H., W.N. Herrington, D.P. Higby, R.L. Kathren, S.E. Merwin, G.A. Stoetzel and E.J. Vallario. *Health Physics Manual of Good Practices for Reducing Radiation Exposure to Levels that are As Low As Reasonably Achievable*. PNL-6577 (June 1988).

1989

Brodsky, A. and R.L. Kathren. *Historical Development of Radiation Protection Practices in Radiology*. Radiographics. 9:1267-75 (1989).

Denham, D.H. and R.L. Kathren. *Recommended Protocol for Standardization in Collecting and Interpreting Radiological Environmental Data*. Radiation Protection--Advances in Theory and Practice. Fourth International Symposium of the Society for Radiological Protection. (1989) pp.385-388.

Fisher, D.R. and R.L. Kathren. *Presentation of Distinguished Scientific Achievement Award to Charles W. Mays*. Health Phys. 56:807-809 (1989).

Kathren, R.L. Book Review: Something About X-rays for Everybody by E. Trevert. Med. Phys. 16:922 (1989).

Kathren, R.L. *To the Year 2000*. Health Phys. 57:5-6 (1989).

Kathren, R.L. and J. F. McInroy. *Comparison of Systemic Deposition Estimates of Plutonium from Bioassay and Autopsy Data in Five USA Transuranium Registry Whole Body Donors*. (Abstract). Health Phys. 56(Suppl.1):S43 (1989).

McInroy, J.F., R.L. Kathren and M.J. Swint. *Distribution of ^{239}Pu in Occupationally Exposed Workers, Based on Radiochemical Analysis of Three Whole Bodies.* (Abstract). Health Phys. 57(Suppl.1):89 (1989).

1990

Fisher, D.R., M.J. Swint and R.L. Kathren. *Dosimetry and Health Effects of Acute Exposure to UF_6* (Abstract). Health Phys. 58(Suppl.1):S48 (1990).

Fisher, D.R., M.J. Swint and R.L. Kathren. *Evaluation of Health Effects in Sequoyah Fuels Corporation Workers from Accidental Exposure to Uranium Hexafluoride.* NUREG/CR-5566, PNL-7328 (1990).

Kathren, R.L. *Distribution of Plutonium in Man Implications for Modeling.* (Abstract). Health Phys. 58(Suppl.1):S24 (1990).

Kathren, R.L. *Hanford: Public Health Concern and Public Health Resource.* Wash. Public Health. 8:24-25 (1990).

Kathren, R.L., D.J. Strom, J.F. McInroy and R.E. Bistline. *Distribution of Plutonium and Americium in the Lungs and Lymph Nodes of United States Transuranium Registry Registrants and Relationship to Smoking Status.* (Abstract). Health Phys. 58(Suppl.1):S48 (1990).

McInroy, J.F. *Distribution of Plutonium in Man.* (Abstract). Health Phys. 58(Suppl.1):S6 (1990).

1991

Gonzales, E.R. and J.F. McInroy. *The Distribution of Uranium in Two Whole Bodies.* (Abstract). Health Phys. 60(Suppl. 2):S51 (1991).

Jacobson A. *Human Subjects Used for Biokinetic Studies.* (Letter) Health Phys. 61:575 (1991).

Kathren, R.L. *Human Subjects Used for Biokinetic Studies-Reply.* (Letter.) Health Phys. 61:576 (1991).

Kathren, R. L. Book Review: An Environmental Odyssey by M. Eisenbud. Health Phys. 60:868 (1991).

1992

Filipy, R.E., R.L. Kathren and J.F. McInroy. *Relative Concentrations of Plutonium and Americium in the Liver, Testes, and Thyroid Gland.* (Abstract) Health Phys. 62:(Suppl.) S17 (1992).

Kathren, R.L. Book review: Environmental Health by D.W. Moeller. Health Phys. 63:238-239 (1992).

Kathren, R.L. and R.L Hill. *Distribution and Dosimetry of Thorotrast in a Whole-body Donation to the U.S. Uranium Registry.* (Abstract) Health Phys. 62:(Suppl.) S7 (1992).

McInroy, J.F., E.R. Gonzales and J.J. Miglio. *Measurement of Thorium Isotopes in the Soft Tissues and Skeleton of a Deceased Thorotrast Patient.* (Abstract) Health Phys. 62 (Suppl.) S48 (1992).

Medley, D.W., R.L. Kathren, R.E. Filipy and A.G. Miller. *Diurnal Variation in Urinary Uranium Levels.* (Abstract) Health Phys. 62:(Suppl) S7 (1992).

1993

Filipy, R.E., C.A. Hall, R.L. Kathren and J.F. McInroy. *Relationships of Soft Tissue Concentrations of Plutonium and Americium in Occupationally Exposed Humans.* (Abstract) Health Phys. 64:(Suppl) S54 (1993).

Kathren, R.L. Book review: Respiratory Tract Dosimetry. R.A. Guilmette and B.B. Boecker, eds. Health Phys. 64:92-93 (1993).

Kathren, R.L. Book review: On the Home Front: The Cold War Legacy of the Hanford Site by M.S. Gerber. Health Phys. 64:553-554 (1993).

Books and Book Chapters

Norwood, W.D. Health Protection of Radiation Workers. Springfield: Charles C. Tomas. (1975) pp.322-325.

Kathren, R.L. Radiation Protection. Accord: Bristol: Adam Hilger, Ltd. (1985).

Kathren, R. L., R. W. Baalman, and W. J. Bair (eds.) Herbert M. Parker: Contributions to Radiological and Health Physics. Columbus: Battelle Press. (1986).

Kathren, R.L. Personnel Dosimeters for Beta-Photon Monitoring in The Dosimetry of Ionizing Radiation, Vol. 2, ed. K.R. Kase, and F.H. Attix. New York: Academic Press. (1987) pp.321-370.

Kathren, R.L. *Instrumentation For Monitoring and Field Use*, Ch. 18 in Radioactivity in Health: A History, by J. N. Stannard. Office of Scientific and Technical Information. (1988) pp.1541-1573.

Kathren, R.L., D.H. Denham and K. Salmon, Eds. Environmental Health Physics, Proceedings of the Twenty-sixth Mid-year Topical Symposium of the Health Physics Society. Richland: Research Enterprises Publishing Segment (1993).

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