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DURING 1969

May 1970

AEC RESEARCH &
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INTRODUCTION

This report is one of an annual series and announces formal research and development reports and technical articles published during 1969 by Battelle-Northwest,

The reports were issued in accordance with the AEC Standard Distribution Lists for Scientific and Technical Reports (AEC Documents TID-4500 and M-3679). The unclassified reports are generally available from the Clearinghouse for Federal Scientific and Technical Information, U. S. Department of Commerce, Springfield, Virginia 22151. Classified reports are available, with proper literature access, from the AEC's Division of Technical Information Extension (DTIE), P. O. Box 62, Oak Ridge, Tennessee 37830.

The reports and articles are grouped by broad subject categories and arranged alphabetically by author within each category, except Progress Reports, which are arranged chronologically. An author index and report number index are also included.

Other reports in this series are BNWL-218, BNWL-387, BNWL-700, and BNWL-1000,

GENERAL

APPARATUS FOR DIRECT INHALATION OF CIGARETTE SMOKE BY DOGS.

W. J. Bair, N. S. Porter, D. P. Brown, A. P. Wehner. Journal of Applied Physiology, v. 26, n. 6, June, 1969, p. 847-850.
BNWL-SA-2012.

AN OVARIAN PARASITE (PROTISTA INCERTAE SEDIS) FROM THE PACIFIC OYSTER, CRASSOSTREA GIGAS (THUNBERG).

C. D. Becker, G. B. Pauley. Journal of Invertebrate Pathology, v. 12, n. 3, December, 1968, p. 425-437. BNWL-SA-1871.

REFRACTIVE GRANULES IN CRYPTOBIA SALMOSITICA, A HEMOFLAGELLATE OF FRESH-WATER TELEOSTS.

C. D. Becker, M. Katz. American Microscopical Society Transactions, v. 88, n. 2, March, 1969, p. 300-304. BNWL-SA-2043.

A SELECTIVE ISOLATION TECHNIQUE FOR DETERMINING CHAETOMIUM IN SOIL.

J. D. Davis. Plant and Soil, v. XXXI, n. 1, August, 1969, p. 179-181. BNWL-SA-1941.

THE METABOLISM OF TISSUES OF THERMALLY ACCLIMATED TROUT.

J. M. Dean. Comparative Biochemistry and Physiology, v. 29, 1969, p. 185-196. BNWL-SA-2086.

ALTERATIONS IN HEPATOCYTE FUNCTION OF THERMALLY ACCLIMATED RAINBOW TROUT (SALMO GAIARDNERI).

J. M. Dean, J. D. Berlin. Comparative Biochemistry and Physiology, v. 29, 1969, p. 307-312. BNWL-SA-2112.

POPULATION ESTIMATES FROM RECAPTURE FREQUENCIES.

L. L. Eberhardt. Journal of Wildlife Management, v. 33, n. 1, January, 1969, p. 28-39. BNWL-SA-1991.

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H. E. Erdman, J. J. Hsieh, Agronomy Journal, v. 61, July-August, 1969, p. 528-530. BNWL-SA-1201.

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M. F. Gillis, M. T. Karagianes, P. L. Peterson. Journal of Occupational Medicine, v. 11, May, 1969, p. 245-247. BNWL-SA-2076.

TWO MODIFIED STAINS FOR USE IN OYSTER PATHOLOGY.

L. H. Heaton, G. B. Pauley. Journal of Fisheries Research Board of Canada, v. 26, 1969, p. 707-709. BNWL-SA-2018.

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CUTANEOUS LYMPHOMATOSES IN THE BOXER DOG.

E. B. Howard, S. W. Nielsen, A. J. Kenyon. Pathologia Veterinaria, v. 6, 1969, p. 76-85.

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E. B. Howard, T. R. Sawa, S. W. Nielsen, A. J. Kenyon. Pathologia Veterinaria, v. 6, 1969, p. 146-148.

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A DISEASE IN FRESHWATER MUSSELS (MARGARITIFERA).

G. B. Pauley. Journal of Invertebrate Pathology, v. 12, n. 3, December, 1968, p. 321-328, BNWL-SA-1700.

EXPERIMENTAL WOUND REPAIR IN THE FRESHWATER MUSSEL (ANODONTA OREGONENSIS).

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BNWL-979	December, 1968	29 p.
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PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1968 TO THE USAEC DIVISION OF BIOLOGY AND MEDICINE, VOLUME I: LIFE SCIENCES, PART 2. ECOLOGICAL SCIENCES, D. W. Pearce, October, 1969. 173 p. BNWL-1050 Pt. 2.

PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1968 TO THE USAEC DIVISION OF BIOLOGY AND MEDICINE, VOLUME II: PHYSICAL SCIENCES, PART 2. RADIOLOGICAL SCIENCES.

D. W. Pearce, June, 1969. 233 p. BNWL-1051 Pt. 2

PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1968 TO THE USAEC DIVISION OF BIOLOGY AND MEDICINE, VOLUME II: PHYSICAL SCIENCES, PART 3. INSTRUMENTATION.

N. S. Porter, et al. 46 p. BNWL-1051 Pt. 3,

PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1968 TO THE USAEC DIVISION OF BIOLOGY AND MEDICINE, VOLUME II: PHYSICAL SCIENCES, PART 1. ATMOSPHERIC SCIENCES.

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BIOLOGY AND MEDICINE (cont.)RADIOBIOLOGY

STRONTIUM-90 INDUCED NEOPLASIA IN SWINE-

W J Clarke, E B Howard, P L Hackett. In "Delayed Effects of Bone-Seeking Radionuclides" by C W Mays, et al, 1969, p 263-277 BNWL-SA-1418

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A CONTINUOUS MONITOR FOR HEXAVALENT CHROMIUM IN RIVER WATER,
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INTERCALIBRATION OF COUNTING LABORATORIES.

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R. W. McKee, G. L. Richardson. October, 1968, 87 p. BNWL-920.

A SURVEY OF FUEL REPROCESSOR PLANTS FOR RECOVERING NEPTUNIUM AND A PROJECTION
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R. W. McKee, S. E. Nunn. October 31, 1969, 24 p. BNWL-1205.

REMOVAL OF Cs-137 FROM ALKALINE CONDENSATE WASTES.

B. W. Mercer, L. L. Ames, R. G. Parkhurst. November, 1968, 35 p.
BNWL-829.

DBBP SOLVENT EXTRACTION RECOVERY OF NEPTUNIUM AND PLUTONIUM FROM PUREX
TWW SOLUTION.

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THE USE OF ALTERNATING DTPA AND NTA CATION-EXCHANGE FLOWSHEETS FOR THE
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CARBON BED TREATMENT OF AQUEOUS PLANT WASTE FOR REMOVAL OF ORGANIC MATERIALS.

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CONCEPTUAL SYSTEM DESIGN DESCRIPTION FOR THE RADIOACTIVE WASTE SYSTEM NO. 24.

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FIXATION OF RADIOACTIVE RESIDUES (QUARTERLY PROGRESS REPORTS).

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OPTIM: A MULTIDIMENSIONAL NONLINEAR OPTIMIZATION CODE.

D. R. Haffner. December, 1968, 64 p. BNWL-991,

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R. W. Hardie, W. W. Little, Jr. March, 1969, 121 p. BNWL-954.

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2DB USER'S MANUAL - REVISION 1.

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A REVISED PHOTON PROBABILITY LIBRARY FOR USE WITH ISOSHLD-III.

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USERS AID: PROGRAMS LEARN AND LIKELY.

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EVALUATION OF THE SIMPL-1 HYBRID COMPUTER CONCEPT ON A WATER QUALITY BENCHMARK PROBLEM.

R. A. Burnett, D. G. Daniels. December 11, 1969, 30 p.
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