To Chancellor Bostian

UNITED STATES
ATOMIC ENERGY COMMISSION
Chicago Operations Office
P. O. Box 59
Lemont, Illinois

November 29, 1955

COPY

Professor Clifford Beck
School of Engineering
North Carolina State College
Raleigh, North Carolina

Dear Professor Beck:

I am attaching three copies of a rough draft of a contract prepared to cover the training program which we have been discussing recently. I hope that you will have an opportunity to review the draft and be in a position to give us your comments on Tuesday in Chicago.

You will recognize that this is a first attempt and I am sure you will find many places where polishing is needed as well as where substance must be added.

Very truly yours,

David Saxe, Director
Development Contracts Division

Enclosure:
Draft of Contract (3)

DRAFT - 11/29/55

CONTRACT NO. AT(11-1)-

CONTRACT BETWEEN

_____

AND

THE U. S. ATOMIC ENERGY COMMISSION

Contract No. AT(11-1)-

THIS AGREEMENT is entered into this day of , 1955, effective as of , 1955, between the UNITED STATES OF AMERICA (called the "Government"), acting through the UNITED STATES ATOMIC ENERGY COMMISSION (called the "Commission"), and

of (called the "Contractor").

PURPOSE

This agreement recognizes that the Contractor has conducted, and possesses the necessary faculty and facilities to conduct basic and applied classroom and laboratory courses related to atomic energy.

The Commission, in furtherance of the Government's "atoms for peace" program, desires to utilize the Contractor's faculty and facilities for the purpose of training special students to be designated by the Commission in basic nuclear science and technology. It is understood that the Contractor desires to conduct this work in the interest of contributing to the atomic energy program and to the advancement of science generally.

It is the intent of the Commission and the Contractor that the work under this agreement shall be conducted as a part of the Contractor's regular academic and research program and that the administration of this agreement shall be carried on in a spirit of friendly cooperation with a maximum of effort in achieving common objectives.

In order to carry out the purposes of this contract, and subject to the provisions of the Atomic Energy Act of 1954, as it may be amended from time to time, the parties agree as follows:

ARTICLE I - NATURE AND SCOPE OF WORK

1. The Contractor shall provide on its campus an approved full-time classroom and laboratory course in basic, unclassified nuclear science and technology on a post-graduate level of approximately

five (5) months' duration to not more than thirty (30) students who shall be selected and designated by the Commission. The first such course will commence on , 1956 and extend through approximately , 1956. It is understood that the basic course will prepare the students for an advanced course at the Commission's Argonne National Laboratory.

2. The basic course in nuclear technology shall include integrated classroom and laboratory instruction in nuclear engineering, reactor design, reactor physics, reactory chemistry, separation processes, reactor metallurgy, instrumentation and control, radiation hazards and related fields.

3. The Contractor shall make available for instruction qualified members of its staff, including such visiting lecturers as may be necessary and available, the necessary facilities, and materials, including the necessary books and other instructional materials, provided, however, the Commission may, at the request of the Contractor, from time to time, provide special assistance to the Contractor, including course outlines, special instructional materials, and special laboratory or demonstration equipment and components on a loan basis. It is understood that the Contractor's obligations under this agreement do not include provision for housing, food, transportation and other personal needs.

ARTICLE II - GENERAL ADMINISTRATION

1. a. Unless otherwise agreed to by the Commission, the work under this agreement will be carried out by the Contractor through its (department) under the technical direction of (title), assisted by appropriate technical personnel.

   b. The business administration of this agreement shall be the responsibility of the Contractor's (title), and his authorized representatives.

2. Unless the Commission otherwise notifies the Contractor, this agreement shall be administered on behalf of the Commission by the Director, Development Contracts Division, Chicago Operations Office, and his authorized representatives.

ARTICLE III - DURATION OF CONTRACT

This contract shall be effective for the period from , 1956 through , 195 , unless sooner terminated as provided in this agreement or renewed by mutual agreement.

ARTICLE IV - FINANCING

1. In consideration of the Contractor's undertakings under this agreement:

   a. The Contractor will be paid by the Government for the course to be carried on during the period from , 1956 through , 1956, the sum of $. Payment will be made in the following manner: Separate payments of $ each will be made on ; ; ; ; and .

   b. Provision for payment of additional courses to be provided by the Contractor shall be subject to the mutual agreement of the parties and shall be evidenced by a formal supplement to this agreement executed by the parties.

2. The Commission may withhold all or any part of the final payment until receipt and approval of the reports and patent disclosure and designation required hereunder, if any.

3. The Contractor agrees that funds supplied by the Commission under this agreement shall not be used to confer a fellowship on any person or to pay the stipend of any other appointment by the Contractor for which commensurate services are not rendered under this agreement.

4. Examination of Records

   a. The Contractor agrees that the Comptroller General of the United States or any of his duly authorized representatives shall have access to and the right to examine any directly pertinent books, documents, papers, and records of the Contractor involving transactions related to this agreement until the expiration of three years after final payment under this agreement unless the Commission authorizes their prior disposition.

b. The Contractor further agrees to include in all subcontracts hereunder a provision to the effect that the subcontractor agrees that the Comptroller General of the United States or any of his duly authorized representatives shall have access to and the right to examine any directly pertinent books, documents, papers, and records of such subcontractor involving transactions related to the subcontract until the expiration of three years after final payment under the subcontract unless the Commission authorizes their prior disposition. The term subcontract as used herein means any purchase order or agreement to perform all or any part of the work or to make or furnish any materials required for the performance of this agreement, but does not include (i) purchase orders not exceeding $1,000, (ii) subcontracts or purchase orders for public utility services at rates established for uniform applicability to the general public, or (iii) subcontracts or purchase orders for general inventory items not specifically identifiable with the work under this agreement.

c. Nothing in this agreement shall be deemed to preclude an audit by the General Accounting Office of any transactions under this agreement.

ARTICLE V - CHANGES

Due to the unique character and nature of the work being carried on under this agreement and for any other appropriate reason, it is understood that at any time during the term of this agreement either party may approach the other concerning the necessity or desirability of changing the nature or extent of the work to be performed under this agreement. Any such changes made in the work shall provide a basis for an equitable modification in the compensation provided herein and shall be subject to mutual agreement of the parties, and shall be incorporated in a formal supplement to this agreement executed by the parties.

ARTICLE VI - INFORMATION AND REPORTS

It is the purpose of the Contractor and the Commission to keep each other informed concerning the work under this agreement, and generally in the fields of nuclear engineering education and training.

To this end the parties agree as follows:

1. The Commission will keep the Contractor generally informed concerning the progress of the overall nuclear engineering educational and training program administered by the Commission, and with respect to specific activities of particular interest to the Contractor.

2. a. The Contractor will keep the Commission informed concerning the program carried on under this agreement, and with respect to such other activities of the Contractor in the field of nuclear engineering education as it deems to be of interest to the Commission.

   b. The Contractor will submit to the Commission's Chicago Operations Office a report at the termination of each school session. The Contractor will submit also to the Chicago Operations Office such other reports which the Commission may request after consultation with the Contractor.

ARTICLE VII - PUBLICATIONS

The Contractor shall have full freedom of publication of any educational or training materials, books, and other instructional material developed in connection with the work under this agreement, except that "Restricted Data" as defined in the Atomic Energy Act of 1954, shall be governed by the provisions of Article VIII.

ARTICLE VIII - DISCLOSURE OF INFORMATION

1. It is understood that the work under this contract will not involve Restricted Data and the Contractor will perform such work as unclassified work. It is understood that when the Commission deems it appropriate and necessary the person directing the work under this contract shall be cleared by the Commission for access to Restricted Data. The Contractor agrees that it will not permit any individual to have access to Restricted Data until the Federal Bureau of Investigation or the Civil Service Commission shall have made an investigation and report to the Commission of the character, associations and loyalty of such individual and the Commission shall have determined that permitting such person

to have access to Restricted Data will not endanger the common defense or security. Furthermore, the Commission reserves the right to require the classification of work whenever in its opinion Restricted Data are involved.

2. The continuation by the Contractor of work found to involve Restricted Data will be subject to mutual agreement of the Commission and the Contractor, and shall be covered in a formal supplement to this agreement executed by the parties. The phrase "Restricted Data" as defined in the Atomic Energy Act of 1954 and employed in this section shall mean all data concerning the (i) design, manufacture, or utilization of atomic weapons; (ii) the production of special nuclear material; or (iii) the use of special nuclear material in the production of energy, but shall not include data declassified or removed from the Restricted Data category pursuant to Section 142 of the Act.

ARTICLE IX - SAFETY AND ACCIDENT PREVENTION - INSPECTIONS

The Contractor will comply with health and safety regulations of the Commission required for work of this nature, and will permit the Commission and its designees to inspect the work conducted under this agreement.

ARTICLE X - TERMINATION

1. The Commission may at any time upon 60 days' written notice to the Contractor terminate this agreement in whole or in part.

2. In the event of termination pursuant to Section 1 of this Article, the Contractor will be paid prorata compensation for the portion of the contract work already performed, together with reasonable costs of termination.

ARTICLE XI - NONDISCRIMINATION IN EMPLOYMENT

1. In connection with the performance of work under this contract, the Contractor agrees not to discriminate against any employee or applicant for employment because of race, religion, color or national origin. The aforesaid provision shall include but not be limited to, the following: employment, upgrading, demotion,

or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the Commission setting forth the provisions of the nondiscrimination clause.

2. The Contractor further agrees to insert the foregoing provision in all subcontracts hereunder, except (i) subcontracts for standard commercial supplies or raw materials, (ii) subcontracts to be performed outside the United States where no recruitment or workers within the limits of the United States is involved, (iii) purchase orders on pocket-size forms similar to U. S. Standard Form 44, and (iv) subcontracts to meet other special requirements or emergencies, if recommended by the Committee on Government Contracts. In the case of purchase orders hereunder which do not exceed $5,000, the last sentence of Section 1 above may be omitted.

ARTICLE XII - OFFICIALS NOT TO BENEFIT

No member of or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this contract or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE XIII - COVENANT AGAINST CONTINGENT FEES

The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty, t he Government shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration the full amount of such commission, percentage, brokerage, or contingent fee.

ARTICLE XIV - AUTHORIZATION

This agreement is authorized by and has been negotiated and executed under the Atomic Energy Act of 1954.

IN WITNESS WHEREOF, the Government and the Contractor have executed this agreement, intending to be legally bound thereby.

THE UNITED STATES OF AMERICA

By _____
David Saxe, Director
Development Contracts Division
Chicago Operations Office
U. S. Atomic Energy Commission

By _____

_____
(Title)

I, , certify that I am the

of , referred to

as the "Contractor" herein; that , who signed

this contract on behalf of was then

of ;

that said contract was duly signed for and on behalf of

by authority of its governing body and is within the

scope of its powers.

(SEAL) _____

September 21, 1955

Mr. S. R. Sapirie, Manager
Oak Ridge Operations
United States Atomic Energy Commission
Oak Ridge, Tennessee

Dear Mr. Sapirie:

Recently you kindly sent me copies of the Organization Chart of the Oak Ridge Operations Office and summaries of the functions of the two Divisions for Isotopes and Research and Development.

Having this information will enable us to direct our correspondence to the proper individual, and we shall endeavor to maintain the proper relations with members of your staff.

The Chairman of our very important Committee on Safety and Health for the Nuclear Reactor and Radioisotopes, and the Dean of Engineering will address correspondence to Mr. H. M. Roth and to Mr. P. C. Aebersold with copies to you and Mr. N. H. Woodruff when it is necessary to communicate with these two Divisions.

Sincerely yours,

Carey H. Bostian
Chancellor

CHB:cw

cc: Dr. F. P. Pike
Dean J. H. Lampe

UNITED STATES
ATOMIC ENERGY COMMISSION

In Reply
Refer to: ORA:HWB

Oak Ridge, Tennessee
SEP 9 1955

Dr. Carey H. Bostian, Chancellor
North Carolina State College
Raleigh, North Carolina

Subject: ORGANIZATION OF U. S. ATOMIC ENERGY COMMISSION'S OAK RIDGE OPERATIONS OFFICE AND GROUP FUNCTIONS

Dear Dr. Bostian:

During a recent visit by Dr. Pike, North Carolina State College, a request was made to Dr. N. H. Woodruff for descriptive material on the functions of the Isotopes Division and the Research and Development Division (formerly the Research and Medicine Division). These divisions are of particular interest because their functions are closely related to atomic energy activities at North Carolina State College.

We are pleased to provide the enclosed material for your information and retention.

Very truly yours,

E. G. Wende
for S. R. Sapirie
Manager
Oak Ridge Operations

Enclosures:
1. Organization Chart (3)
2. Functional Statements as described above (3)

CC: N. H. Woodruff
P. C. Aebersold
H. M. Roth

UNITED STATES
ATOMIC ENERGY COMMISSION

In Reply
Refer to: ORA:HWB

Oak Ridge, Tennessee
SEP 9 1955

Dr. Carey H. Bostian, Chancellor
North Carolina State College
Raleigh, North Carolina

Subject: ORGANIZATION OF U. S. ATOMIC ENERGY COMMISSION'S OAK RIDGE OPERATIONS OFFICE AND GROUP FUNCTIONS

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Very truly yours,

ORIGINAL SIGNED BY
E. A. WENDE

for S. R. Sapirie
Manager
Oak Ridge Operations

Enclosures:
1. Organization Chart (3)
2. Functional Statements as described above (3)

CC: H. H. Woodruff
P. C. Aebersold
H. M. Roth

ISOTOPES DIVISION

The Isotopes Division advises and assists in the development of policies and administers the AEC-wide program for production, import, and distribution (within AEC, domestic, and foreign) of stable and radioactive isotopes, isotope-labeled compounds, and related irradiation services; provides advisory services to users on protection, monitoring, and research techniques; and encourages the use of isotopes in scientific research, medicine, industry, agriculture, and education.

Branches of the Isotopes Division

1. The Allocation Branch performs the following functions for domestic users of isotopes: reviews applications and issues authorizations for the procurement of radioisotopes; reviews requests for stable isotopes and allocates materials for approved requests; recommends allocation criteria for issuing authorizations and approved requests for isotopic materials; and provides information to applicants on how to meet qualification standards for isotope procurement.

2. The Radiological Safety Branch assists in the promulgation of safety standards for the protection of health in the use of reactor-produced radioisotopes; surveys facilities of authorized users to determine compliance with health and safety standards; and assists off-site applicants in health protection, radiation monitoring, disposal, and safe practices in the use of radioactive materials.

3. The Technical Developments Branch assembles, coordinates, and disseminates information on isotope development and utilization; outlines and encourages development of training activities for wider utilization of radioactive and stable isotopes; and estimates growth in isotope uses, demands, and commercial interests.

RESEARCH AND DEVELOPMENT DIVISION

The Research and Development Division advises and assists in development and administration of policies and programs for research and related development in health physics, the physical and biological sciences, nuclear reactor technology, and medicine; for assigned activities involved in the program for civilian application of atomic energy, including those pertaining to licenses and distribution of material except by-products (which includes radioisotopes and stable isotopes) and access arrangements; for training of scientific personnel in applied and theoretical nuclear research; and for industrial hygiene and protection against radiation hazards. Excluded from the functions assigned to the Division are production process improvement and development work, except for specifically assigned projects. The Division maintains close operational contact with Area Offices engaged in related activities.

Branches of the Research and Development Division

1. The Research Branch advises and assists in the formulation of policies and programs, and provides technical liaison with activities carried out under contracts and other agreements, for educational activities and fundamental research in the physical sciences, including chemistry, physics, and metallurgy. In this connection, the Branch advises program participants of desired programs; provides technical advice and assistance on the execution of research programs; provides for procurement and distribution of technical information required by participants; appraises program operations, assuring conformance with contracts, agreements, and established policies; coordinates the interchange of information with contractors and other program participants; reviews and recommends action on proposals initiated by contractors and other participants in the programs under the jurisdiction of the Branch; and provides technical assistance for research programs carried out by other ORO organizations.

2. The Reactor Branch advises and assists in the formulation of policies and programs, and provides technical liaison with activities carried out under contracts and other agreements, for research and development in nuclear reactor technology and related studies and activities in applied metallurgy and waste disposal problems. In this connection the Branch advises program participants of desired programs; gives technical assistance in program execution; provides for procurement and distribution of technical information required by participants; appraises program operations, assuring conformance with contracts, agreements, and established policies; reviews and recommends action on proposals initiated by contractors and cooperating agencies; coordinates the interchange of technical information and services between contractors and other program participants; and provides technical assistance for research programs carried out by other ORO organizations.

3. The Biology Branch advises and assists in the formulation of policies and programs, and provides technical liaison with activities carried out under contracts and other agreements, for research programs in biology, medicine, geology, and industrial hygiene and health physics; and provides technical liaison and administrative direction for the Weather Bureau personnel at Oak Ridge conducting meteorological research under an agreement with the AEC. In this connection, the Branch advises program participants of desired programs; gives technical assistance in program execution; provides for procurement and distribution of technical information required by program participants; appraises program operations, ensuring conformance with contracts, agreements, and established policies; coordinates the interchange of information with contractors and other program participants; reviews and recommends action on proposals initiated by agencies participating in programs under the jurisdiction of the Branch; coordinates technical and administrative operations within Oak Ridge Operations with the Radiation Instruments Branch (Division of Biology and Medicine, AEC headquarters) and other agencies; is responsible for maintenance and operation of the Oak Ridge Operations Office radiation detection instruments; and provides health physics training and monitoring services for operations conducted by other Divisions and Area Offices.

4. The Research Services Branch advises and assists in the negotiation, preparation, and administration of contracts and agreements; in the implementation of the civilian application program; and in the administration of other activities assigned to the Division. In this connection, the Branch reviews, prepares, and coordinates requests for contracts and agreements; participates in the administration of contracts, agreements, or other arrangements including licenses and access arrangements under the civilian application program; advises and assists contractors, licensees, and access permit holders in administrative activities; and provides administrative and technical services to contractors, access permit holders, and licensees in connection with the distribution and use of source, special nuclear, and other special materials, and information. The Branch provides central office services, handles AEC personnel matters, and administers office management programs and visitor control activities, including Bilateral Cooperation Agreements between the U. S. and foreign countries, alien visits, and foreign travel.

ORGANIZATION CHART

U.S. ATOMIC ENERGY COMMISSION
OAK RIDGE OPERATIONS OFFICE

SEPTEMBER 1955

ASSISTANT GENERAL COUNSEL
J.W. OULD, JR. 4363

PATENT BRANCH
CHIEF, S.W. SCOTT 4735

MANAGER OF OPERATIONS

MANAGER OF OPERATIONS	S.R. SAPIRIE..... 4242
DEPUTY MANAGER	E.A. WENDE..... 4651
ASSISTANT TO MANAGER	W.R. McCAULEY, JR..... 4361
ASST. TO MGR. FOR PUBLIC EDUCATION	E.E. STOKELY..... 4231

OAK RIDGE 5-8611

OAK RIDGE EXTENSIONS OF WASHINGTON HEADQUARTERS
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CLASSIFIED DISTRIBUTION BRANCH, DIV. OF INFO. SERVICES
ACTG. ASST. CHIEF, J.W. NORRIS 4236
TECHNICAL INFORMATION SERVICE, DIV. OF INFO. SERVICES
ASST. CHIEF, A.G. ABDIAN 4353
DEPUTY ASST. CHIEF, M.S. DAY 4353
PRINTING BRANCH, CHIEF, E.C. SCHULTE 4477
REFERENCE BRANCH, CHIEF, R.L. SHANNON 4668
ART & COMPOSITION BR., CHIEF, R.L. CUMMINS . 4303
CATALOGING BRANCH, CHIEF, P.E. POSTELL 4221
EDITORIAL BRANCH, CHIEF, C.B. HOLMES 4-9233
DOCUMENT PROCESSING BR., CHIEF, IRVIN LEBOW. 4353

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C. VANDEN BULCK 4607

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ACCTS. PAYABLE & TRAVEL SEC. 4070

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- AUDIT BRANCH — CHIEF, T.F. THULSTRUP 4063

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INSURANCE OFF., C.E. WILSON 4321

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- PROCUREMENT BRANCH — CHIEF, A.E. JOHNSTON 4184

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ASST. DIR., LEO DUBINSKI 4471

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- GOVERNMENT PERSONNEL BRANCH — CHIEF, J.G. LeSIEUR, JR. 4058
- INDUSTRIAL PERSONNEL BRANCH — CHIEF, W.O. MICKELSON 4-9243

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- REPORTS BRANCH — CHIEF, W.H. WHITMAN 4266
- ANALYSIS BRANCH — CHIEF, D.C. KULL 4534

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ASST. DIR., L.P. McDOWELL 2
PROGRAM ANALYSIS SECTION 54
OAK RIDGE 5-3521

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- COMMERCIAL SERVICES BRANCH — CHIEF, M.L. WOOTTEN 67

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DEPUTY, C.G. SONNEN 4326

ENGINEERING DIVISION
ACTG. DIR, R.B. SOMERS 4511

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- DESIGN COORDINATION BRANCH — CHIEF, A.R. SUTLIFF 4618
- POWER & RADIO BRANCH — CHIEF, D.M. CLARKE 4832
- SAFETY BRANCH — CHIEF, N.H. MARSDEN 4533

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AREA CONSTRUCTION DIVISION
DIRECTOR, W.A. BONNET 8474

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- OPERATIONS BRANCH — K-25 AREA ENGINEER - M.C. WRIGHT 8126; X-10 AREA ENGINEER - R.D. SHEAHAN 8056
- ADMINISTRATIVE AND CONTROL BRANCH — CHIEF, D.V. HORN 8134

SPECIAL PROJECTS DIVISION
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ASST. DIR., H.E. BELTON* 7-8269

- CONSTRUCTION - ENGINEERING BRANCH — CHIEF, H.E. BELTON* 7-8269
- ANALYSIS & CONTROL BRANCH — CHIEF, E.A. KRAEMER 7-8291

ASSISTANT MANAGER FOR OPERATIONS
N.H. WOODRUFF 4468
DEPUTY, NED WILLIAMS 4050
POWER COORDINATOR, I.L. LIND 4294
CLASS. OFF., L.R. MICHENER 4263

PRODUCTION DIVISION
DIRECTOR, R.C. ARMSTRONG 4566
ASST. DIR., ST.G.T. ARNOLD* 4566

- PLANT OPERATIONS BRANCH — CHIEF, ST.G.T. ARNOLD* 4566
- SS ACCOUNTABILITY BRANCH — CHIEF, V.V. HENDRIX 4604

ISOTOPES DIVISION
DIRECTOR, P.C. AEBERSOLD 4304
ASST. DIR., C.E. CROMPTON, JR. 4548

- ALLOCATIONS BRANCH — CHIEF, E.E. FOWLER 4373
- TECHNICAL DEVELOPMENTS BRANCH — CHIEF, G.M. BIZZELL 4358
- RADIOLOGICAL SAFETY BRANCH — CHIEF, G.W. MORGAN 4393

FEED MATERIALS DIVISION
DIRECTOR, F.R. DOWLING 4513
ASST. DIR., J.W. RUCH* 4514

- OPERATIONS BRANCH — CHIEF, J.W. RUCH* 4514
- NIAGARA FALLS SITE — SITE REPRESENTATIVE, F.W. MALONE, NIAGARA FALLS, N.Y., LEWISTON 6-6314

RESEARCH AND DEVELOPMENT DIVISION
DIRECTOR, H.M. ROTH 4657

- RESEARCH BRANCH — CHIEF, D.F. COPE 4521
- REACTOR BRANCH — CHIEF, W.J. LARKIN 4223
- BIOLOGY BRANCH — CHIEF, C.S. SHOUP 4289
- RESEARCH SERVICES BRANCH — CHIEF, A.M. CORLEY 4277

PORTSMOUTH AREA OFFICE
AREA MANAGER, K.A. DUNBAR 2121
DEPUTY AREA MGR., R.H. McCULLOH 2123
WAVERLY 5100

- OPERATIONS DIVISION — CHIEF, W.C. YOUNGS, JR. 2171; ASST. CHIEF, R.H. THALGOTT 2171
- FINANCE DIVISION — CHIEF, A.A. VERGARI 2191
- ENGINEERING-CONSTRUCTION DIVISION — CHIEF, L.M. BUHR 2105
- ADMINISTRATIVE DIVISION — ACTG. CHIEF, R.E. RUSSELL 3151

FERNALD AREA OFFICE
AREA MANAGER, C.L. KARL 222
DEP. AREA MGR., B.M. ROBINSON 223
CINCINNATI, JACKSON 1-1800

- ENGINEERING AND CONSTRUCTION BRANCH — CHIEF, E.H. LUETJE 209
- OPERATIONS BRANCH — CHIEF, R.V. ANDERSON 224
- ADMINISTRATIVE BRANCH — CHIEF, W.W. DAMEWOOD 234

NEW BRUNSWICK AREA OFFICE
AREA MANAGER, C.J. RODDEN EXT. 3
CHARTER 7-0200

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- ANALYTICAL CHEMISTRY BRANCH — CHIEF, J.J. TREGONING EXT. 25
- DEVELOPMENTAL AND SPECIAL ANALYSIS BRANCH — CHIEF, G.J. PETRETIC EXT. 37

ST. LOUIS AREA OFFICE
AREA MANAGER, F.H. BELCHER 222
DEP. AREA MGR., J.P. MORGAN 228
PARKVIEW 5-9969

- ADMINISTRATIVE BRANCH — CHIEF, D.E. BUSBY 203
- CONSTRUCTION BRANCH — CHIEF, R.W. DeLOZIER 208
- ENGINEERING BRANCH — CHIEF, G.H. HILTON 223
- OPERATIONS BRANCH — CHIEF, H.R. OSTERWALD 213

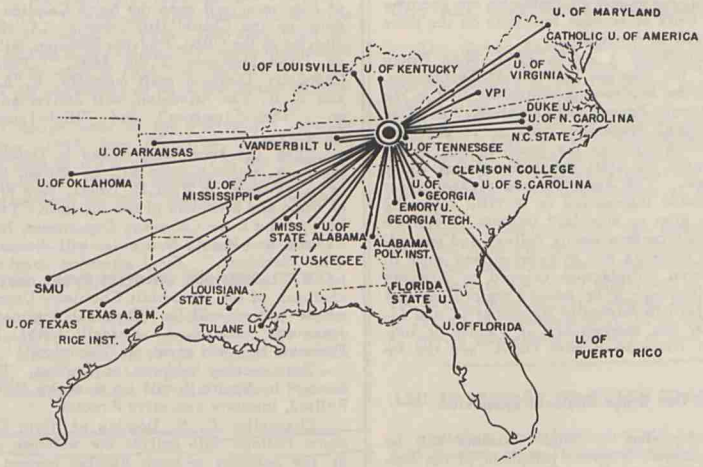
PADUCAH AREA OFFICE
AREA MANAGER, K.C. BROOKS 227
PADUCAH 5-6311

- OPERATIONS BRANCH — CHIEF, E.W. NITSCHKE 711
- SECURITY BRANCH — CHIEF, A.L. RYDZEWSKI 491
- CONSTRUCTION-ENGINEERING BRANCH — CHIEF, DUDLEY FOLSOM 334
- ADMINISTRATIVE BRANCH — CHIEF, B.N. STILLER 255

*DUAL CAPACITY

OAK RIDGE
INSTITUTE OF NUCLEAR STUDIES

NEWS LETTER



Vol. 7 No. 7 January 1955

Third, Fourth Oak Ridge Regional Symposia To Be Held in South, North Carolina in March

The Third and Fourth Oak Ridge Regional Symposia will be held in South Carolina and in North Carolina in March.

"Science and Atomic Energy" is to be the topic of the Third Regional Symposium, to be presented Saturday, March 5, in Columbia, South Carolina, by the University of South Carolina, in cooperation with the Savannah River Plant of the Atomic Energy Commission, Oak Ridge National Laboratory, and the Institute.

The North Carolina symposium, scheduled for Friday and Saturday, March 11 and 12, will be titled "Atomic Energy in Science," and will be sponsored by the University of North Carolina, Duke University, and North Carolina State College, in cooperation with ORNL and the Institute. The March 11 morning session will be held in Chapel Hill and the March 11 evening program will take place in Durham, with the Saturday morning proceedings presented in Raleigh; on Saturday afternoon, tours of science facilities on the three campuses will be conducted.

Initiated March 5 and 6, 1954, when Emory University, the Georgia Institute of Technology, ORNL, and the Institute presented the first in the series, "Atomic Energy and Chemistry," the Oak Ridge Regional Symposium program is designed to offer universities in the southern and southeastern region the staff resources of Oak Ridge installations. The symposia are presented not only to provide information in specific scientific fields, but also to stimulate interest in science and scientific careers among college and secondary school students and to communicate some of the vocational satisfaction enjoyed by members of the profession. (The second regional symposium was held in Nashville November 12 and 13, 1954, under the sponsorship of Vanderbilt University, in cooperation with ORNL and the Institute.)

Third Oak Ridge Regional Symposium

The symposium in South Carolina will be opened by Donald Russell, president of the University of South Carolina. "Atoms" will be the subject of an address by Fred Rogers, Jr., chairman of the Physics Department at the University of South Carolina. G. H. Cartledge, ORNL Chemistry Division, will speak on "Elements." The final lecture on the morning program will be titled "Reactors," and will be delivered by M. M. Mann of the AEC Savannah River Plant.

The luncheon address, "Science as a Career," is to be presented by William G. Pollard, executive director of the Institute.

The first hour of the afternoon session will be devoted to movies, exhibits, and conferences, after which C. J. Borkowski, director of the ORNL Instrumentation and Controls Division, will discuss "Instruments." W. R. Boss, AEC, Washington, will speak on "Biology," and H. Willard Davis, chairman of the University of South Carolina Chemistry Department, will close the symposium.

Presiding over the morning, luncheon, and afternoon sessions will be H. Willard Davis, C. C. Travelstead, and W. E. Hoy of the University of South Carolina.

Fourth Oak Ridge Regional Symposium

J. Harris Purks, provost of the University of North Carolina and member of the Institute Board of Directors, will open the North Carolina symposium on the Chapel Hill campus. A. H. Snell, director of the ORNL Physics Division, will speak on "The Structure of the Atom." Two ORNL Chemistry Division staff members, K. A. Kraus and E. R. Van Artsdalen, will deliver addresses on "The Elements" and "High-Temperature Chemistry."

When the symposium moves to Durham after lunch, a motion picture will be shown, followed by a welcome by Paul M. Gross, vice president of Duke and president of the Institute. Two members of the Duke Chemistry Department, Henry W. Newson and Harold W. Lewis, will discuss "Nuclear Machines." Final afternoon speakers will be M. D. Peterson, Institute Board member and chairman of the Vanderbilt Chemistry Department, whose subject will be "Chemical Applications of Isotopes," and W. L. Russell, ORNL Biology Division, who will speak on "Genetics."

The evening address at Durham, "Nuclear Energy in Nature," will be made by William G. Pollard, Institute executive director.

Chancellor C. H. Bostian of North Carolina State College will deliver the welcome address at the Saturday morning Raleigh portion of the symposium. "Medical Applications of Radioactive Materials" is the title of a talk to be made by Warner Wells, MD, assistant professor of surgery at the University of North Carolina. C. J. Borkowski of the ORNL Chemistry Division will discuss "Instrumentation." Final Saturday morning speaker will be Clifford K. Beck, head of the NCSC Physics Department and vice president of the Institute, whose talk will consider "Atomic Power Applications."

HENCK RESIGNS FROM OAK RIDGE AEC; STOKELY ASSUMES INFORMATION POST

F. Seymour Henck, assistant to the manager for public education, Oak Ridge Operations Office, Atomic Energy Commission, resigned his position on January 10 to become a member of the public relations staff of Campbell-Mithun, Inc., Minneapolis and Chicago advertising agency. Edwin E. Stokely, Oak Ridge Operations public information officer, has succeeded Mr. Henck, while Wayne Range, AEC Portsmouth Area public information officer, has assumed Mr. Stokely's former post.

Mr. Henck joined the AEC in Oak Ridge as public information officer in 1950, and was named assistant to the manager for public education in October of 1953. A graduate of the University of Tennessee, he had previously worked on the editorial staffs of several California newspapers, had been assistant editor of the Knoxville *Journal*, and had served as night editor for the Associated Press in Knoxville.

Mr. Stokely was city editor of the Johnson City (Tennessee) *Press Chronicle* and telegraph editor of the Knoxville *News-Sentinel* before becoming AEC Portsmouth Area public information officer in January of 1953. He succeeded Mr. Henck as Oak Ridge Operations public information officer in October of 1953. Mr. Stokely is a graduate of the University of Missouri School of Journalism.

Mr. Range went to the Portsmouth Area in November, 1953, from Knoxville, where he had been a member of the news staff of the Knoxville *News-Sentinel*. He had formerly been sports editor and reporter for the Elizabethton (Tennessee) *Star*.

FOSTER APPOINTED TO TWO COMMITTEES

Jackson W. Foster, University of Texas bacteriologist, has been appointed to the newly created biology council of the National Research Council, and to the biological and medical sciences committee of the National Science Foundation.

Arthur Roe (University of North Carolina), Thomas D. Reynolds (Duke), and D. B. Anderson (NCSC) will act as chairmen of the three portions of the symposium.

Closing the symposium on Saturday afternoon will be concurrent tours of the North Carolina State College reactor, the Duke Department of Physics, and the planetarium at the University of North Carolina.

THREE FORMER ISOTOPE PARTICIPANTS PRESENT SPECIAL COURSE AT HAVANA

Three former members of the Institute Special Training Division's radioisotope techniques courses presented a course of their own at the University of Havana last month.

The course, which dealt with the uses of radioisotopes, was conducted by H. D. Bruner, MD, professor of physiology at Emory University; Marcelo Alonso, professor of physics at the University of Havana; and Ovidio de Laosa, MD, director of the radioisotopes laboratory at the Curie Hospital in Havana. Dr. Bruner, who is a former chief scientist at the Institute Medical Division, was a member of the second basic isotopes class. Dr. Alonso and Dr. Laosa were enrolled in the twentieth basic class and in the 1953 advanced course in the use of radioisotopes in medicine.

UNESCO sponsored the course.

UNIVERSITY OF TEXAS, FLORIDA STATE GET AEC CONTRACTS TOTALING $45,615

The Atomic Energy Commission has awarded four unclassified physical research contracts totaling $45,615 to the University of Texas and Florida State University.

A $9,990 contract went to the University of Texas for a study by E. F. Gloyna of the effects of biological slimes on sea water. George W. Watt at Texas received $18,000 for a project titled "Unusual Oxidation States of Transitional Elements."

Florida State University was awarded $10,800 for studies in the preparation and properties of quatemary ammonium ion exchange resins; principal scientists are G. B. Butler and A. H. Gropp. The second Florida State contract was for $6,825 to support the research of A. E. S. Green and M. A. Melvin concerning analysis of nuclear forces.

LSU TO SPONSOR COMPUTER CONFERENCE

Louisiana State University will be host to the 1955 Conference on High-Speed Computers, which will be held on the Baton Rouge campus February 14-16.

Engineers, chemists, physicists, accountants, office managers, business men, and other potential users of computers are invited to attend the conference. Further information may be obtained from O. A. Nance, associate professor of chemistry, Louisiana State University, Baton Rouge 3, Louisiana.

NEW TRAVELING ATOMIC ENERGY SHOW SCHEDULED FOR ELEVEN APPEARANCES

"Summary of Atomic Energy," the new low-cost traveling atomic energy show developed by the American Museum of Atomic Energy, has eleven appearances scheduled on its 1955 itinerary.

The Museum has prepared six copies of the show, which is designed to meet the needs of small organizations, conventions, and institutions operating on a limited budget. Smaller, less costly, and more easily transported than most of the Museum's other traveling shows, "Summary of Atomic Energy" contains a scale model of an atomic power plant, and eighteen panels intended to provide the layman with an understanding of the parts of atoms; basic theories of atomic energy; neutron bullets; uranium separation; atomic power; radioisotopes; creation of new elements; and the uses of isotopes in agriculture, industry, and medicine.

The first 1955 "Summary of Atomic Energy" showing was January 11-20 at the Centennial Celebration of the Grand Rapids (Michigan) Museum. The Cleveland (Ohio) Health Museum is displaying another copy of the show January 15-February 4.

Other organizations which have reserved copies of the show are Central State College (Wilberforce, Ohio), January 16-18; Massillon (Ohio) Museum, February 7-17; the Ohio Society of Professional Engineers (Cincinnati), March 24-26; the planning committees for the Third Oak Ridge Regional Symposium (Columbia, South Carolina), March 5, and for the Fourth Oak Ridge Regional Symposium (North Carolina), March 11-12; Texas State College for Women (Denton), March 27; the Sheldon Swope Art Gallery (Terre Haute, Indiana), March 3-9; and the St. Joseph (Missouri) Museum, April 3-9.

SEIDLIN, INSTITUTE CONSULANT, DIES

S. M. Seidlin, consultant to the Institute Medical Division since the inception of its research program in 1949, died in New York City on January 2.

A member of the staff of Doctors Hospital in New York, Dr. Seidlin also served the Montefiore Hospital in the Bronx as attending physician of its Medical Division, chief of the Endocrine Clinic, and chief of the Medical Physics Research Laboratory.

Dr. Seidlin was the first physician in this country to use radioiodine in the treatment of thyroid carcinoma, and he acted as advisor to the iodine therapy program at the Institute Medical Division.

UNIVERSITY OF LOUISVILLE, ORINS WILL PRESENT TOPICAL SYMPOSIUM

A special topical symposium, "Atomic Energy Utilization by Industry," will be held February 18 at the University of Louisville, sponsored by the university, in cooperation with the Institute.

The symposium is being presented to promote a better understanding of the problems involved in the expansion of industrial research and development in the field of nonpower applications of atomic energy, and to explore the potentials of such expansion in the Kentucky area.

The first session will begin at 3 PM Friday, with G. C. Williams, head of the Department of Chemical Engineering of the Speed Scientific School of the University of Louisville, presiding. After a welcoming speech by Philip G. Davidson, president of the university, Paul C. Aebersold, director of the Atomic Energy Commission Isotopes Division, Oak Ridge, will discuss "Radioisotopes in Industry."

R. C. Ernst, dean of the Speed Scientific School, will preside at the dinner meeting. Principal speaker will be Ralph T. Overman, chairman of the Institute Special Training Division, whose subject will be "Atomic Energy and our Industrial World."

The evening session will be presided over by W. W. Grigorieff, chairman of the Institute University Relations Division. Speakers will be E. A. Wiggin, director of technical information with Atomic Industrial Forum, New York City, who will speak on "New Opportunities and Problems," and Bernard Manowitz, Fission Products Utilization Project, Brookhaven National Laboratory, whose topic will be "Industrial Uses of Irradiation."

The symposium committee is composed of Dr. Williams (committee chairman), Dr. Ernst, and Dr. Grigorieff.

WILDE RECEIVES $35,407 FOR RESEARCH

Walter S. Wilde, professor of physiology at Tulane University School of Medicine, has received $35,407 in grants and contracts for research work on the potassium metabolism of heart muscle.

The Life Insurance Medical Research Fund has granted $6,480 and the Atomic Energy Commission has awarded a $14,437 contract for Dr. Wilde's studies. In addition, the American Heart Association has awarded his project an annual grant of $4,830 for the next three years.

Dr. Wilde was a research participant at Oak Ridge National Laboratory during the summers of 1951, 1952, and 1953.

HOBBS NAMED DUKE GRADUATE DEAN; SAYLOR HEADS CHEMISTRY DEPARTMENT

Marcus E. Hobbs, chairman of the Duke University Department of Chemistry since 1951, has been named dean of the Graduate School of Arts and Sciences, a post formerly held by Charles S. Sydnor, who died last March. New Department of Chemistry chairman, succeeding Dr. Hobbs, is John H. Saylor, who previously served as executive officer of the department and director of undergraduate studies.

Dr. Hobbs, who joined the Duke chemistry staff in 1935, holds bachelor's, master's, and doctor's degrees from Duke. He is a member of the American Chemical Society's national council; a past chairman of the chemical section of the National Research Council's Fellowship Committee; and a past secretary, vice chairman, chairman, and councilor of the North Carolina Section of the ACS. The recipient of an Army-Navy Certificate of Merit for "an outstanding contribution to the work of the Office of Scientific Research and Development during World War II" as a result of his civilian work with that organization, Dr. Hobbs has also been awarded a special citation by the Ordnance Corps for assistance in the establishment of a basic research program for the Corps. Dr. Hobbs is a member of the newly appointed Chemistry and Engineering Committee of the Institute Council.

A member of the Duke chemistry staff since 1928, Dr. Saylor spent 1941 on sabbatical leave, working with Linus Pauling at the California Institute of Technology. His wartime activities at Duke included departmental research under the auspices of the Naval Research Laboratory and the Office of Scientific Research and Development. He was named acting director of the Office of Ordnance Research on the Duke campus when the project was initiated in 1951, and has since 1952 served as its deputy director. A graduate of Southern Methodist University, Dr. Saylor's master's and doctor's degrees are from Duke. He is a past chairman of the North Carolina Section of the ACS.

TEXAS A & M COLLEGE PRESENTS SYMPOSIUM

The Department of Chemical Engineering of the Agricultural and Mechanical College of Texas held its tenth annual symposium January 26-28. The symposium, which had as its theme "Instrumentation for the Process Industries," gave particular attention to new developments and was presented to promote a better understanding of the principles and practice of instrumentation as applied to industrial problems of the Southwest.

THIRTEEN NAVAL RESEARCH CONTRACTS GO TO SEVEN SPONSORING UNIVERSITIES

Seven sponsoring universities of the Institute have been awarded 13 research contracts by the Biological Sciences Division of the Office of Naval Research of the Department of Navy.

Receiving the contracts were:

Duke University: Studies of orientation in animals, J. G. Pratt. Mechanism of oxygen toxicity, K. E. Penrod.

Louisiana State University: Microbial oxidation of hydrocarbon gases, R. J. Strawinski.

Tulane University: Physical and physiological factors in the biological effects of microwaves, R. T. Nieser. Antigenic and cultural properties of nocardia, Morris F. Shaffer.

University of Maryland: Mass culture of unicellular algae, Hugh G. Gauch. The metabolism of purines, Edward Steers.

University of North Carolina: Study of certain growth stimulants for lactic acid bacteria, M. L. Speck. Study of yeast infections following antibiotic therapy, Milton Huppert.

University of Tennessee: The effect of bacterium tularense on animal hosts, J. M. Woodward.

University of Texas: Spore formation and germination in bacteria, J. W. Foster. Variation in the genus azotobacter, Orville Wyss. Studies on cellular mechanisms in relation to body defenses, C. M. Pomerat.

LESTER SUCCEEDS QUAYLE AT EMORY

Charles T. Lester, professor of chemistry at Emory University, has been appointed chairman of the Chemistry Department. Dr. Lester succeeds Dr. Osborne R. Quayle, who died December 6.

Dr. Lester, who holds bachelor's and master's degrees from Emory, and a doctorate in organic chemistry from Pennsylvania State College, joined the Emory staff as an assistant professor of chemistry in 1943, after having spent one year with the Calco Division of American Cyanamid Company in New Jersey. Dr. Lester became an associate professor of chemistry in 1945, and a full professor in 1950.

Educated at Swarthmore College, Harvard University, and Johns Hopkins University, Dr. Quayle had been an Emory professor for 30 years, and a few hours before his death had received an award for the outstanding article published by a member of the Emory chapter of Sigma Xi. He received the Herty Medal in 1949 for his contributions to chemistry in the Southeast, which included original research and the promotion of chemical education.

SIX SPONSORING UNIVERSITIES GET WILLIAMS-WATERMAN GRANTS

Six sponsoring universities of the Institute have received research grants from the Williams-Waterman Fund, which is administered by the Research Corporation, New York City.

The list of awards, by university, title of project, and principal scientist, is as follows:

Duke University. Use of microwave oscillators stabilized by superconducting cavities to measure the critical velocity of superfluid flow in helium-2. W. M. Fairbank.

Louisiana State University. Biotin-oleic acid interrelationship in micro-organisms. V. R. Williams.

Tulane University. Studies of metallated dye complexes. H. B. Jonassen.

University of Maryland. Determination of optimum wave length for exciting fluorescence and determination of the fluorescence spectra for various chelate compounds of analytic importance. C. E. White.

University of Mississippi. Synthesis of synergists for DDT. S. F. Clark (former Oak Ridge research participant).

University of Oklahoma. Chemical synthesis of radioactive quercetin and related flavonoid compounds. S. H. Wender (ORINS Council member).

M. D. ANDERSON HOSPITAL, HOUSTON, TO HOLD CANCER RESEARCH SYMPOSIUM

The Ninth Annual M. D. Anderson Symposium on Fundamental Cancer Research will be held March 10, 11, and 12 at the University of Texas M. D. Anderson Hospital and Tumor Institute in the Texas Medical Center, Houston.

The first day of the program will consist of a review of the current research projects at the hospital, followed by an evening session to include a discussion of the epidemiology of cancer by Eleanor Macdonald of the M. D. Anderson staff and a presentation of experimental design by John Fertig of the Columbia University Medical School.

The March 11 sessions will deal with histochemistry. George Gomori, MD, of the University of Chicago, who will be chairman of the program, has selected six nationally known authorities as speakers.

A. Clark Griffin of the M. D. Anderson Hospital will preside over the final day's proceedings, which will be devoted to papers reflecting current cancer research in the Southwest.

The Bertner Award for the outstanding contribution in the field of cancer research will be made at the symposium banquet March 11.

WEST, LSU CHEMISTRY PROFESSOR, RECEIVES ACS SOUTHWEST AWARD

Philip W. West, Boyd Professor of Chemistry at Louisiana State University, was presented with the Southwest Award of the American Chemical Society during the ACS Southwestern Regional Meeting, held last month in Fort Worth, Texas.

Dr. West, an international analytical chemistry authority, received the award for outstanding activities as lecturer, author, teacher, and research scientist.

During the last five years, Dr. West's lecture schedule has included invited speeches before the Analytical Chemistry Symposium in Birmingham, England; the Royal Society of Belfast; the first International Congress of Analytical Chemistry (Oxford); and the first Microchemical Congress (Gratz, Austria). He originated and acts as director of the annual LSU Symposium on Modern Methods of Analytical Chemistry.

A member since 1949 of the International Committee on New Reagents and Reactions of the International Union of Chemistry, Dr. West serves on the advisory board of *Analytical Chemistry* and on the publications board of the *Journal of Chemical Education*, is assistant editor of *Mikrochemie* and *Analytica Chemica Acta*, and writes the annual reviews of inorganic microchemistry for *Analytical Chemistry*. He is author of three books and of more than 80 technical papers.

Dr. West holds BS and MS degrees from the University of North Dakota and a doctorate from the State University of Iowa; he conducted post-doctoral research in Rio de Janeiro.

R. A. MONROE ACCEPTS UCLA POST

Robert A. Monroe, research associate at the University of Tennessee-Atomic Energy Commission Agricultural Research Program, resigned his position in December to join the staff of the medical school of the University of California at Los Angeles.

Dr. Monroe, who held the rank of assistant professor of biochemistry at the University of Tennessee, came to Oak Ridge in 1950. He participated in the presentation of the fourth annual Oak Ridge summer symposium.

POTTS IS MARYLAND RESEARCH ASSOCIATE

Australian physicist Renfrew B. Potts, who is a senior lecturer in mathematics at the University of Adelaide, has been appointed a research associate in the University of Maryland Physics Department.

T. W. HILDEBRANDT, R. G. CORNELL ARE OAK RIDGE GRADUATE FELLOWS

Two doctoral candidates in mathematics became Oak Ridge graduate fellows in January. Richard G. Cornell from Virginia Polytechnic Institute and Theodore W. Hildebrandt of the University of Michigan have joined the Oak Ridge National Laboratory Mathematics Panel to conduct research for their theses.

In accordance with the terms of the Oak Ridge Graduate Fellowship Program, both have finished the course work for their degrees and, on successful completion of their theses, will be awarded degrees by the universities in which their regular course work has been completed.

Mr. Hildebrandt holds an AB degree in physics and an AM degree in mathematics from the Massachusetts Institute of Technology. His major research interest is in methods for the computation by automatic digital computers of solutions to the difference analogues of the partial differential equations of mathematical physics. Chairman of Mr. Hildebrandt's graduate committee is Charles L. Dolph, associate professor of mathematics at the University of Michigan.

A graduate in mathematics of the University of Rochester, Mr. Cornell holds a master's degree in statistics from Virginia Polytechnic Institute. Mr. Cornell's research will deal with genetic application of inference and distribution theory. Ralph A. Bradley, professor of statistics at VPI, is chairman of Mr. Cornell's committee.

Both Mr. Hildebrandt and Mr. Cornell are members of Phi Beta Kappa.

PIERRE GRABAR IS TEXAS MEDICAL FELLOW

Pierre Grabar, MD, of Paris, Pasteur Institute biophysics section director, has been appointed a senior fellow in the University of Texas Medical Branch's James W. McLaughlin Fellowship Program in infectious diseases and immunity.

Dr. Grabar will work with Charles M. Pomerat, MD, in the Medical Branch tissue culture laboratory and with W. W. Nowinski, MD, in the tissue metabolism laboratory.

CUNNINGHAM NAMED TO AIChE BOARD

W. A. Cunningham of the University of Texas has been named to the board of directors of the American Institute of Chemical Engineers. The twelve-man board, which fosters professional activities of more than 15,000 engineers, held its first 1955 meeting January 13-14.

TRAVELING LECTURE PROGRAM

The following lectures have been delivered recently under the Oak Ridge National Laboratory - Oak Ridge Institute of Nuclear Studies Traveling Lecture Program:

William K. Baker, Biology Division: "Gene Action and Gene Position," Florida State University, December 13, University of Florida, December 14, University of Georgia, December 16.

Russell Baldock, Stable Isotopes Division: "Current Research in Mass Spectrometry," Alabama Polytechnic Institute, January 14.

Seymour Bernstein, Physics Division: "Experiments on the Fundamental Properties of the Neutron," Clemson Agricultural College, December 14.

Waldo E. Cohn, Biology Division: "Ion Exchange Chromatography and the Structure of Nucleic Acids," Medical College of Virginia, December 15.

J. R. McNally, Jr., Stable Isotopes Division: "High Resolution Spectroscopy at the Oak Ridge National Laboratory," Baylor University, January 10, Agricultural and Mechanical College of Texas, January 11, Louisiana State University, January 13.

Elizabeth Rona, Institute Special Training Division: "Radioactivity of the Ocean," University of Maryland, January 11.

N. E. Tolbert, Biology Division: "Plant Metabolism Studied with C-14-Labeled Substrates," University of Texas, January 7.

E. R. Van Artsdalen, Chemistry Division: "High Temperature Chemistry," University of Arkansas, December 13, Oklahoma Agricultural and Mechanical College, December 15, University of Oklahoma, December 17.

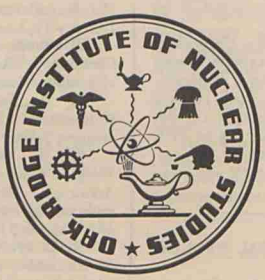
R. C. von Borstel, Biology Division: "Effects of Radiation on the Egg Nucleus and Cytoplasm of the Parasitic Wasp *Habrobracon*," Duke University, December 13, University of North Carolina, December 16.

PETERSEN IS NEW RESIDENT PHYSICIAN

James A. Petersen, MD, resident in radiology at Massachusetts General Hospital, Boston, has become a resident physician with the Institute Medical Division.

Dr. Petersen will work for three months with Gould A. Andrews, MD, Chief of Clinical Services, and other members of the Medical Division staff investigating methods of diagnosis and treatment of disease with radioisotopes.

A native of Nebraska, Dr. Petersen holds BS and MD degrees from the University of Illinois College of Medicine.



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January 12, 1955

Mr. Herman M. Roth
Director Research and Medicine Division
United States Atomic Energy Commission
Oak Ridge, Tennessee

Dear Mr. Roth:

We are glad to comply with your suggestion that we display the posters entitled, "Equal Economic Opportunity", which were sent to us recently.

We are also glad to have a copy of Executive Order No. 10557 and to know that this will be included in our future government contracts.

Very truly yours,

Carey H. Bostian
Chancellor

CHB:cw

UNITED STATES
ATOMIC ENERGY COMMISSION

In Reply
Refer to: OR:JER

Oak Ridge, Tennessee
December 31, 1954

Dr. Carey H. Bostian, Chancellor
North Carolina State College
Raleigh, North Carolina

Subject: NONDISCRIMINATION CLAUSE IN RESEARCH CONTRACTS

Dear Dr. Bostian:

On September 3, 1954, President Dwight D. Eisenhower signed Executive Order 10557 which provided a new nondiscrimination clause for use in all Government contracts executed on or after December 2, 1954. We are enclosing a copy of the Executive Order containing exact wording of the new clause, which we propose to place in contracts at the time of the next modification.

We are also enclosing two copies of a notice entitled "Equal Economic Opportunity." Future contracts with the Commission will require posting of this notice on bulletin boards at conspicuous places available to employees and applicants for employment in connection with work under Government contracts. While we recognize you are not required to do so under your present contract, we should appreciate your making arrangements to display the poster now.

If you have any questions regarding the provisions of the nondiscrimination clause, please do not hesitate to call them to our attention.

Your cooperation in this matter is appreciated.

Very truly yours,

Herman M. Roth
Director
Research and Medicine Division

Enclosures:
1. Executive Order 10557
2. Equal Economic Opportunity (2)

Rounsaville:bj

UNITED STATES
ATOMIC ENERGY COMMISSION

In Reply
Refer to: OR:JER

Oak Ridge, Tennessee
December 31, 1954

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North Carolina State College
Raleigh, North Carolina

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Very truly yours,

ORIGINAL SIGNED BY
HERMAN M. ROTH

Herman M. Roth
Director
Research and Medicine Division

Enclosures:
1. Executive Order 10557
2. Equal Economic Opportunity (2)

Rounsaville:bj

THE WHITE HOUSE OFFICE

EXECUTIVE ORDER
No. 10557

APPROVING THE REVISED PROVISION IN GOVERNMENT CONTRACTS RELATING TO NONDISCRIMINATION IN EMPLOYMENT

WHEREAS the contracting agencies of the United States Government are required by existing Executive orders to include in all contracts executed by them a provision obligating the contractor not to discriminate against any employee or applicant for employment because of race, creed, color, or national origin, and obligating the contractor to include a similar clause in all subcontracts, and

WHEREAS the Committee on Government Contracts is authorized by Executive Order 10479, as amended, to make recommendations to the contracting agencies for improving and making more effective the nondiscrimination provision of Government contracts, and

WHEREAS the Committee on Government Contracts, in consultation with the principal contracting agencies of the Government, has recommended that in the future the contracting agencies of the Government, include in place of, and as a means of better explaining, the present nondiscrimination provision of Government contracts, the following provision:

> "In connection with the performance of work under this contract, the contractor agrees not to discriminate against any employee or applicant for employment because of race, religion, color, or national origin. The aforesaid provision shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of the non-discrimination clause.
>
> "The contractor further agrees to insert the foregoing provision in all subcontracts hereunder, except subcontracts for standard commercial supplies or raw materials."

NOW, THEREFORE, by virtue of the authority vested in me by the Constitution and statutes, and as President of the United States, and in order to clarify and strengthen the provisions of the existing orders, it is ordered as follows:

more

Section 1. The contract provision relating to nondiscrimination in employment, recommended by the Committee on Government Contracts, is hereby approved.

Section 2. The contracting agencies of the Government shall hereafter include the approved nondiscrimination provision in all contracts executed by them on and after a date 90 days subsequent to the date of this order, except:

a. Contracts and subcontracts to be performed outside the United States where no recruitment of workers within the limits of the United States is involved; and

b. Contracts and subcontracts to meet other special requirements or emergencies, if recommended by the Committee on Government Contracts.

Section 3. The General Services Administration shall take appropriate action to revise the standard Government contract forms to accord with the provisions of this order.

DWIGHT D. EISENHOWER

THE WHITE HOUSE,

September 3, 1954.