BRITISH RESEARCHERS HOLD SEMINARS HERE

Two outstanding British researchers, in this country under the auspices of the World Health Organization following a request by NIH for their services as international-exchange consultants, conducted seminars in Wilson Hall during December.

Dr. E. Lester Smith, Glaxo Laboratories biochemist who played an important part in isolating the vitamin B12 that combats pernicious anemia, told of his work on December 12.

Col. H. E. Shortt, late of the Indian Medical Service, who discovered the exoerythrocytic cycle of malaria, discussed this subject on December 21.

Sir Philip Manson-Bahr, British authority on filariasis who conducted a seminar in Wilson Hall on December 1, was not here as a WHO international-exchange consultant: he was passing through this country on his way to Fiji.

SCIENCE WRITER WINS $1000 AWARD

For his series of 15 articles on "The Challenge of Cancer" Lester Grant, science writer of the New York Herald-Tribune, received the $1,000 Westinghouse Award at the annual meeting of the American Association for the Advancement of Science last month in New York City.

The award is given for the year's best newspaper science writing.

Many researchers at the National Cancer Institute will remember Mr. Grant. Though he traveled extensively while collecting material, he used NCI as headquarters and spent long hours talking with staff members.

Mr. Grant did not submit his work for the award until a member of AAAS, which administers the award, suggested it to him. As a result, he submitted the series of articles only 24 hours ahead of the deadline.

The National Cancer Institute has been given permission by the Herald-Tribune to reprint the articles in booklet form -- expanded and illustrated. They will be ready for distribution early this year.

CARDIOVASCULAR SURGERY SYMPOSIUM

Medical scientists from all parts of the country will attend a symposium on "Recent Advances in Cardiovascular Surgery" January 21, beginning at 9 a.m., in the Mayflower Hotel.

The symposium is sponsored by our Surgery Study Section.

Further information can be obtained from Dr. J. Marshall Ellis, executive secretary, on Ext. 2088.
Science Elsewhere

Pituitary Hormone

Aided by a grant from the National Heart Institute, Drs. W. J. Eversole, J. H. Birnie, and R. Gaunt of Syracuse University have tested the role of the liver in the inactivation of the posterior pituitary hormone. They studied the response of animals to pitressin administered through an hepatic portal drainage as compared with the response of animals that received the hormone by other routes.

When 40 milliunits of pitressin were injected into the spleen of hydrated rats, the antidiuretic effect was less than when the injections were made subcutaneously or intramuscularly. Such differences were not seen at lower levels.

All free extracts of liver tissue inactivated pitressin more effectively than did extracts of kidney or whole blood.

These studies (reported in the October 1949 issue of Endocrinology) indicate that the liver is one site of inactivation of the posterior pituitary antidiuretic hormone.

CHLORDANE IS MORE DANGEROUS THAN DDT

Chlordane, according to Mr. Edward F. Stohlman and Dr. Maurice I. Smith of the Laboratory of Pathology and Pharmacology, EBMI, is even more dangerous than DDT to warm-blooded animals. It proved to be the deadlier chronic poison, although a single dose of each required to kill a laboratory rat or rabbit would be about the same.

Chronic chlordane poisoning leads to degeneration of the liver and kidneys of test animals, while acute poisoning has been found to produce intestinal inflammation and flooding of the lungs with fluid.

NEED TRANSPORTATION?

Having transportation trouble? Information on public and private transportation may be had by calling Ext. 2071.

NO. 16 IN A SERIES

Tracks of Nuclear Particles

Cosmic ray induced star

The unit engaged in the study of densely ionizing radiations--headed by Dr. Herman Yagoda in the Section on Nuclear Radiation Biology, Laboratory of Physical Biology, Experimental Biology and Medicine Institute--makes extensive use of special silver bromide emulsions as a recording medium for energetic charged particles. Microscopic examination of the exposed medium (designated a "Nuclear Emulsion") reveals the path of the nuclear particle as a row of developed silver grains.

This technique permits the localization of micro quantities of certain radioactive isotopes in tissue by following up the alpha particle track to its point of origin in the superimposed stained tissue section. This method of study has been applied to polonium, radium, thorotrast-tissue, and specimens containing uranium and plutonium.

By incorporating into the emulsion certain elements such as beryllium or lithium with large cross sections for neutron capture, the plate serves as a selective neutron detector. As a source of experimental neutrons, a mixture of beryllium and polonium is centered in a large cube of paraffin. This project is being carried on by Mr. Nathan Kaplan.

Dr. Herman Yagoda

Dr. Hervasio G. de Carvalho of the Laboratories of Mineral Production--Rio de Janeiro, an NIH special fellow, is employing the emulsion technique in the measurement of the range of alpha particles in water and in compact tissues.

As explained in the recent book by Dr. Yagoda, "Radioactive Measurements with Nuclear Emulsions," the plate reveals at the time of its development all the densely ionizing radiations that were incident on it. This serves to integrate the feeble flux of cosmic radiation, and, during the examination of the plates for experimental alpha particle tracks, stars or nuclear explosions are also observed on occasion. An example of these 'cosmic ray induced stars' shown above, reveals the tracks of protons and energetic alpha particles and other heavy fragments originating from a common center.

The laboratory is also exposing plates at high-altitude astronomical observatories, as well as in stratosphere balloons and rocket flights, in order to obtain data on the frequency of stars and neutron production at different elevations.

An especially interesting set of exposures was obtained by...
OUR RESEARCHERS
AT AAAS MEETING

The National Institutes of Health were well represented at the annual meeting of the American Association for the Advancement of Science last month in New York City. Twenty papers were presented by the following:

Von Brand, T.
Taylor, D. J., J. Greenberg, and G. R. Coatney.
Tremblly, H. L., G. R. Coatney, J. Greenberg, and W. C. Cooper.
Grobststein, C.
Buck, J. B., and M. L. Keister.
Keister, M. L., and J. B. Buck.
Buck, J. B., M. L. Keister, and I. Posner.
Salvin, S. B.
Sollner, K.
Weinstein, P. P.
Wyckoff, R. W. G.
Jacobs, L., and F. E. Jones.
Durwee, W. R.
Rees, C. W.
Olivier, L. J.

MR. G. C. RIGGLE
HEADS ELECTRONICS UNIT

Mr. Grant C. Riggle, formerly with the Navy's David-Taylor Model Basin at Cardrock, Md., has been appointed head of the new Electronics Unit in the Instrument Section.

The new unit is already set up to design instruments involving electronics. Eventually it will be in a position to do extensive repairing of various devices and instruments essential in research relevant to the field of electronics.

Mr. Riggle received his degree in electrical engineering from West Virginia University.

NIH Record

Calendar of Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Meeting</th>
<th>Time</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 21</td>
<td>Symposium on &quot;Recent Advances in Cardiovascular Surgery&quot; *</td>
<td>9:00 a.m.</td>
<td>Mayflower</td>
</tr>
<tr>
<td>Feb. 2-4</td>
<td>American Physical Society *</td>
<td>10:00 a.m.</td>
<td>New York City</td>
</tr>
<tr>
<td>Feb. 16-17</td>
<td>Separate meetings of National Advisory Councils</td>
<td>10:00 a.m.</td>
<td>Bldg., FSA North</td>
</tr>
<tr>
<td>Feb. 18</td>
<td>Joint meeting of National Advisory Councils</td>
<td></td>
<td>5051 FSA North</td>
</tr>
</tbody>
</table>

* Open meeting

Note: For January meetings of Study Sections, see lists printed elsewhere in this issue and the preceding one.

STUDY SECTION DATES

The following list of Study Section meetings is printed for the convenience of NIH people who may wish to arrange visits with members while they are here. (It is a continuation of a list printed in the previous issue of NIH Record.)

Unless otherwise indicated, the meetings will be held at NIH.

Jan. 11. Biochemistry & Nutrition: Dr. Charles Glen King, Dr. George B. Brown, Dr. R. Keith Cannan, Prof. William J. Darby, Dr. Hans T. Clarke, Dr. E. A. Evans, Jr., Prof. Wendell H. Griffith, Dr. Oliver H. Lowry, Dr. William A. Perlzweig, Dr. Esmond E. Snell, and Dr. Maxwell W. Winthrop.

Jan. 15. Pathology (in North Room of Mayflower Hotel): Dr. Paul Cannon, Dr. D. Murray Angevine, Dr. Sidney Farber, Dr. Jacob Farth, Dr. Frank W. Hartman, Dr. Russell L. Holman, Dr. J. W. Kernohan, Dr. S. C. Madden, Dr. Arnold Rich, Dr. H. P. Smith, Dr. Douglas H. Sprunt, and Comdr. R. B. Williams, Jr.

Jan. 15-16. Metabolism & Endocrinology (in Thomas Jefferson Room of Mayflower Hotel): Dr. Joseph H. Barach, Dr. Charles H. Best, Dr. I. K. Chaikoff, Dr. T. F. Gallagher, Dr. Arthur Grollman, Dr. Allan T. Kenyon, Dr. F. D. W. Lukens, Dr. Alexander Marble, Dr. John P. Peters, Dr. Samuel Soskin, Dr. Randall Sprague, and Dr. Hugh L. C. Wilkerson.

Jan. 18. Morphology & Genetics: Dr. J. Walter Wilson, Dr. Viktor Hamburger, Dr. Clarence P. Oliver, Dr. Francis O. Schmitt, Dr. Robert E. Stowell, and Dr. E. L. Tatum.

Jan. 18. Tropical Medicine: Dr. Paul F. Russell, Dr. George H. Boyd, Dr. Asa C. Chandler, Dr. Ernest Carroll Faust, Mr. John M. Henderson, Dr. Herbert G. Johnstone, Dr. E. K. Marshall, Jr., Dr. P. Morales Otero, Dr. Cornelius B. Philip, Dr. Lloyd E. Rozeboom, Dr. Albert B. Sabin, Dr. L. H. Schmidt, Dr. James S. Simmons (Dr. Harry Most, Alt.), and Dr. Andrew J. Warren.

Jan. 19-20. Cardiovascular: Dr. E. Cowles Andrus, Dr. George E. Burch, Dr. Allan M. Butler, Dr. Hiram Essex, Lt. Col. James H. Hammond, Dr. Albrick Hertzman, Col. Charles L. Leedham, Dr. John K. Lewis, Dr. Warren M. Sperry, Dr. W. C. Stadie, Dr. Isaac Starr, and Dr. Joseph T. Wearn.

Jan. 20. Virus & Rickettsial: Dr. John R. Paul, Dr. John H. Dingle, Dr. Thomas Francis, Jr., Dr. William F. Friedewald, Dr. W. McD. Hammon, Dr. Frank L. Horsfall, Jr., Dr. Geoffrey W. Rake, Dr. Richard E. Shope, Dr. John C. Snyder, and Dr. Jerome T. Syverton.

Jan. 20. Surgery: Dr. Frederick A. Coller, Dr. Claude S. Beck, Dr. Henry K. Beecher, Dr. Loren R. Chandler, Dr. Lester R. Dragstedt, Dr. Daniel C. Elkin, Capt. Frank P. Kuenz, Jr., Dr. J. Gordon Lee, Dr. C. A. Moyer, Dr. Harris B. Shumacker, Jr., Dr. H. L. Skinner, Dr. Barbara B. Stimson, Dr. Owen H. Wangensteen, and Dr. Allen O. Whipple.
FOREIGN FELLOWS NOW DOING RESEARCH HERE

Medical scientists from other countries who are now doing research at the National Institutes of Health on NIH fellowships include:

- **Austria**
  - Dr. A. W. Shrecker, EMBI-C&C

- **Brazil**
  - Dr. H. G. de Carvalho, EMBI-LPB

- **Canada**
  - Dr. M. Berenbom, NCI-Research

- **China**
  - Dr. Y. T. Chang, EMBI-P&P
  - Dr. S. C. Fu, NCI-Research
  - Dr. C. P. Li, MI-Infec

- **Colombia**
  - Dr. O. Duque, NCI-Research

- **Denmark**
  - Dr. P. O. Pederson, NIDR

- **France**
  - Dr. P. F. Denoix, NCI-Research

- **Germany**
  - Dr. P. Ohlmeier, EMBI-B&N
  - Dr. K. Schwarz, EMBI-B&N

- **Greece**
  - Dr. A. C. Symeonidis, NCI-Research

- **Holland**
  - Dr. E. H. Wiebenga, EMBI-LPB

- **Hungary**
  - Dr. J. Gergely, EMBI-LPB
  - Dr. K. Laki, EMBI-LPB
  - Dr. G. Rozsa, EMBI-LPB
  - Dr. A. Szent-Gyorgyi, EMBI-LPB

- **Iceland**
  - Dr. A. Kolbeinsson, Micro-Infec

- **India**
  - Dr. S. Rajagopalan, EMBI-C&C
  - Dr. V. S. Varavdekar, NCI-Research

- **Israel**
  - Dr. P. J. Fodor, NCI-Research

- **Japan**
  - Dr. T. Miyaji, NCI-Research

- **Poland**
  - Dr. I. Berenblum, NCI-Research

- **Scotland**
  - Dr. J. R. M. Innes, MI-Infec

- **Scotland**
  - Dr. J. R. M. Innes, MI-Infec

- **Scotland**
  - Dr. J. R. M. Innes, MI-Infec

NUCLEAR cont’d

Dr. de Carvalho, who on his way to this country placed a unit of plates in Chacaltaya, Bolivia, at an elevation of 5500 meters. After several months of exposure, the plates were returned to Bethesda by Dr. Ismael Escobar, a Bolivian physicist who made the climb.

The plates showed a wealth of nuclear events in the form of complex evaporations induced by negatively charged meson particles. A large part of the microscopic scanning was performed by Mr. C. H. Conner, who virtually wore out the fine adjustment on the microscope in the process of viewing the 200 micron thick preparations.

PERSONNEL BRANCH SHOWS XMAS SPIRIT

Instead of holding its customary Christmas party, the Personnel Branch decided to donate money, food, and other gifts to a needy former NIH employee.

The committee that planned and executed this project included Miss Bertie Dawson, Mrs. Virginia Porter, Mrs. Helen White, and Mrs. Evelyn Attix.

OUR CHEST QUOTA!

Have you given all you should to the Community Chest?

We've only reached 83 percent of our quota, you know. That doesn't compare very well with other parts of PHS - Bureau of Medical Services, 94 percent; Office of the Surgeon General, 98 percent; and Bureau of State Services, 103 percent.

CREDIT UNION'S ANNUAL MEETING ON JAN. 11

Members of the NIH Credit Union will decide what dividend rates to pay on shares for the past year when they hold their annual meeting at 1 p.m., Wednesday, January 11, in Wilson Hall.

Officers will be elected for the coming year and reports submitted by the treasurer and various committee chairmen.

Non-members are cordially invited to attend. After the short business meeting, a movie will be shown. There will also be a door prize -- a $25 U. S. bond.

RECREATION & WELFARE

ASSN. ELECTS OFFICERS

Mr. Aeneas Collins, assistant in the reference department of our library, was reelected president of the NIH Recreation and Welfare Association at its December meeting.

Other officers elected were:

- Vice President: Mrs. Dorothy Amos, EO-Pers
- Recording Secretary: Miss Lucille Dyson, EMBI-LPB
- Treasurer: Mrs. Clydis Jones, EO-Fisc
- Board of Directors:
  - Mr. William Baylis, EMBI-Admin
  - Mr. Robert Campbell, NIMH-P&R
  - Miss Cecilia Kennedy, NIH-Admin
  - Mrs. Amy Nifong, EO-Fisc

Ties will be run off for the following:

- Corresponding Secretary: Mrs. Catherine Schellack Carr, EO
- Miss Mary Alice Dean, EO-P&S
- Miss Elizabeth Wiehle, RG&F

Board of Directors:

- Mr. Louis J. Bender, Sr., MI-BCL
- Miss Virginia Burlingame, MI-Infec

The Association voted to set up a fund of $100 to be used in cases of emergency for welfare purposes only.

Members were reminded that they must show their identification cards when they apply at stores for discounts.

Selected Reading

Recent additions to the Library:

- Nyman, Olle H.
- (Acta pathologica et microbiologica Scandinavica. Suppl. 83)
- Orley, Alexander
- Siri, William E.