The embedding of tissue specimens and other objects in plastic is a service now made available to our scientists by the Medical Arts Section of the Scientific Reports Branch.

The techniques of this new method for protecting and preserving tissue are performed by Miss Elizabeth L. Beard, histopathology technician. Examples of her work may be seen at 211 Administration Bldg.

Of the several techniques used in this plastic work, Miss Beard generally follows a procedure similar to that performed for the staining of tissue. Raw tissue is

(See Plastics Service Page 3)
Sealing Petri Dishes

A simplified method for sealing Petri dishes that are to be incubated for a long period of time is described by Dr. Mary E. Powell of the University of Pennsylvania in the October issue of the Journal of Bacteriology.

A transparent polythene plastic envelope, into which a Petri dish has been inserted, can be quickly sealed by means of a small electric heater or an electric flatiron. Bacterial colonies can be studied through the envelope, and it can be opened and resealed if desired.

Dr. Powell’s studies were supported by an NIH grant.

Vitamin Deficiencies

It is not only through a diet lacking vitamins that we may be deprived of vitamins, according to Dr. A. C. Frazer of the University of Birmingham, who reports his findings in the October 1 issue of the British Medical Journal.

Faulty digestion of vitamins or inability of the body to synthesize vitamins from its essential components are two factors given by the author to account for vitamin deficiency in cases where an adequate supply of vitamins is present in the diet.

The paper is especially concerned with vitamin deficiencies in sprue.

NEW DENTAL RESEARCH GRANTS TOTAL $22,897

Grants totaling $22,897 for new dental research projects at six non-Federal institutions were announced this month.

The grants were made by the National Institute of Dental Research following recommendations by the National Advisory Dental Research Council and approval by the Surgeon General.

These grants are in addition to grants announced in July, amounting to $166,708, for continuing research projects already under way.

ANTIBIOTIC SYMPOSIUM PUBLISHED IN JOURNAL

Papers presented at the second national symposium on “Recent Advances in Antibiotics Research” (held last April under the auspices of the Antibiotics Study Section, Division of Research Grants and Fellowships) have been published as a special edition of the Journal of Clinical Investigation, September issue.
INSTRUMENT SECTION
IMPROVES LAB METER

A bothersome feature of some Beckman (DU) spectrophotometers is the tendency of the cell-carrier to become loose, thus preventing uniform and accurate readings.

With confidence in Mr. Laurence Crisp and Mr. John De Broske of the Instrument Section, Drs. Joseph H. Bragdon and Filadelpho Irreverre of the Section on Metabolic and Degenerative Diseases (Laboratory of Pathology and Pharmacology, EBMI) requested that something be done about it.

The problem has now been effectively solved by the Instrument Section, with the result that anyone at NIH who has this particular trouble may avail himself of a new type of carrier.

TAPEWORM EGGS FOUND IN TREATED SEWAGE

Eggs of a large tapeworm of man (Taenia saginata), acquired by eating raw or undercooked beef infected with tapeworm larvae, can pass unharmed through the usual treatment processes of sewage, according to studies of Walter L. Newton, Harry J. Bennett, and William B. Figgat of the Laboratory of Tropical Diseases, Microbiological Institute.

The results of their experiments suggest that, if sewage were contaminated with tapeworm eggs, the usual treatment processes (with the exception of the sand-filtration process) could not be relied upon to produce sludge or effluent free of viable eggs.

The paper is reported in the American Journal of Hygiene, March 1949 issue.

REGARDING ROUTE SLIPS

Failure to designate the office or room number on route slips not only slows up your own mail but consumes valuable time of our messenger service.

Calendar of Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Meeting</th>
<th>Time</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 22</td>
<td>Washington, D.C., Branch of Society of American</td>
<td>8:00 p.m.</td>
<td>Army Medical</td>
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<tr>
<td></td>
<td>Bacteriologists*</td>
<td></td>
<td>Center</td>
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<tr>
<td>Nov. 23</td>
<td>NCI Biology Discussion Group--&quot;Cellular</td>
<td>3:30 p.m.</td>
<td>Top Cottage</td>
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<td></td>
<td>Differentiation.&quot;</td>
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<td>Dr. William Duryee.*</td>
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<tr>
<td>Dec. 1</td>
<td>&quot;Problems of Filariasis.&quot;</td>
<td>3:00 p.m.</td>
<td>Wilson Hall</td>
</tr>
<tr>
<td></td>
<td>Sir Philip Manson-Bahr of London.*</td>
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</table>

M.I. RESEARCHERS GIVE PAPERS AT MEMPHIS

Seven papers by staff members of the Microbiological Institute were included among the 60 presented at the joint annual meeting of the American Society of Tropical Medicine, the American Academy of Tropical Medicine, and the National Malaria Society, held November 6-9 in Memphis.

In addition, Dr. Norman Topping, Associate Director of the National Institutes of Health and President of the American Society of Tropical Medicine, delivered an address on the role of the Federal Government in medical research.

The papers:

1. "The Infection of Anopheline Mosquitoes by Native Avian Malarials." Arne V. Hunninen (of Mt. Union College), Martin D. Young, and Robert W. Burgess.


PLASTICS SERVICE cont'd

placed in a preservative solution, dehydrated by alcohols, stained, transferred to anhydrous ether, and impregnated with unpolymerized plastic in a vacuum dessicator. The specimen is then surrounded with plastic that is polymerized by means of a catalyst. The cured product is cut to any desired shape and polished.

Miss Inez M. Demonet, Chief of the Medical Arts Section, plans to use some of these plastic specimens to enhance the attractiveness of our scientific exhibits.

Etched plastic, illuminated indirectly, is another innovation, perfected by Mr. Robert Baker of this Section, for use in future exhibits.
MORE NEW PEOPLE

The following persons joined us in September:

Ashe, Mr. Walter C.--EO-SRB
Baldwin, Mr. Everett C.--EO-Bldgs
Barber, Mr. Donald Lee--EBMI-B&N
Bennett, Mrs. Veronica L.--NCI
Brodeur, Dr. Armand E.--NCI
Campbell, Mrs. Mary Louise--NHI-OHI
Carlin, Miss E. Jean--EO-Pers
Claffey, Mr. John W.--NHI
Clohisy, Dr. Warren A., Jr.--NCI
Cook, Mr. John D.--EO-Fisc.
Curtis, Mr. Thomas W.--NCI
Clohisy, Dr. Warren A., Jr.--NCI
Dobell, Miss Frances--EBMI
Dameron, Mrs. Delia S.--NCI
Carlin, Miss E. Jean--EO-Pers
Claffey, Mr. John W.--NHI
Clohisy, Dr. Warren A., Jr.--NCI
Cook, Mr. John D.--EO-Fisc.
Curtis, Mr. Thomas W.--NCI

YOU CAN NOW DEPOSIT
$1000 IN CREDIT UNION

A maximum deposit of $1000 in the NIH Credit Union is now permitted by virtue of a new ruling passed at the October meeting of the Union's Board of Directors. Formerly $500 was the maximum deposit.

The new ruling also does away with the time limit on deposits. Formerly no more than $300 could be deposited in any one calendar year.

Dividends will be compounded annually until individual accounts reach $1300 and then computed on the maximum of $1300.

BETTER PLAY SAFE

If you ever drive a Federal vehicle, you had better get some form of liability insurance as soon as possible.

The increase in the number of claims and suits filed during the past fiscal year indicates a need for such insurance by every operator of a Government vehicle.

Your local insurance company can inform you about rates.

NEW MILEAGE RATES

When traveling on Government business, you will now be allowed seven cents per mile for travel by automobile and four cents per mile for travel by motorcycle.

Raffelt, Mrs. Mildred S.--EBMI-LPB
Robinson, Miss Thelma P.--EO-SRB
Scantlebury, Mr. Ronald E.--RG&F
Schallingber, Mr. Archie C.--MI-RML
Shapleigh, Dr. John B.--NCI
Shaw, Miss Emma--NCI
Siegel, Mrs. Ruth K.--NCI
Simms, Miss Eleanor S.--EO
Smith, Mr. Robert A.--MI-RML
Simmons, Miss Eleanor S.--EO
Smith, Miss Arvilla B.--MI-RML
Smith, Mr. Bernard J.--EO-Bldgs
Sprezzard, Mr. Callahan M., Jr.--NHI
Sullivan, Miss Mary H.--NHI
Summers, Mr. George E.--NHI
Tarman, Mr. Clay C.--EO-Bldgs
Toomer, Mr. Joseph--RG&F
Wexler, Mr. Richard--NHI
Williams, Mr. Stephan Sidney--EO-Bldgs.

OPEN EXAMINATIONS

Boiler Fireman, CPC-3 to CPC-5.
Junior Agricultural Assistant, $7,974 a year. Closing date 8 November 1949.
Junior Professional Assistant and Junior Management Assistant, $7,974 a year. Closing date 8 November 1949.
Pharmacologist, $3,727 to $16,305. Announcement 151.
Physical Science Administrator, $5,292 to $10,305. Announcement 146.
Public Health Educator, $4,479 to $7,432. No closing date.
Stenographer and Typist, $2,283 to $2,724. Announcement 18 as amended.
Student Dietitian, $1,476. Announcement 126 as amended.
Translator, $2,724 to $8,500. Closing date 15 November 1949.
Veterinarian, $3,727. Announcement 143.

Selected Reading

Recent additions to the Library:

Beach, Frank A.
Hormones and behavior. N. Y., Hoeber, 1948.

Comroe, Bernard I.

Foster, Jackson W.

Griffith, John Q.

Radin, Norman S.
Isotope techniques in biochemistry. Oak Ridge, Tenn., 1948.

Schweitzer, George K.

Skinner, Henry A.

Steinhans, Edward A.

U. S. Atomic Energy Commission
Analysis of microcomposition of biological tissue by means of induced radioactivity. Oak Ridge, 1948. (AEC-D-2099-B)