What General Electric People Are Saying...

C. H. LANG
Mr. Lang is Vice President
in charge of Public Relations

"... In large measure, our Puritan ancestors insisted that liberty was dependent upon the general education of the country’s citizenry. Our industrial system, as we know it today, is dependent on the education of that same citizenry. If we lose sight of this fact, we also lose sight of the fact that under a totalitarian system every industrial plan, or scientific research plan, becomes a State-plan. Every manager in industry becomes, in reality, a civil servant. Political democracy and industrial democracy depend on each other, and both depend on education.

There are two great educational objectives in America. First, we must endeavor to combine the British concern for training the "natural aristocracy of talents" with: Second, the American tradition and insistence of general education for all future citizens. If we can do this, our industrial society will prosper, and at the same time the necessary degree of instruction will be provided for all people so that in their hands "our liberties will remain secure."

at a Meeting of Charles Coffin and Gerard Swope Fellows, Schenectady, New York

HERBERT SCHREIBER, JR.
Mr. Schreiber is an
Industrial Product Engineer,
General Electric X-Ray Department

"... The first and obvious requisite for cathode-ray sterilization is the penetration or accelerating voltage required for the product and container size. Here two factors control the ultimate decision; namely, 1) Is complete penetration required or will surface sterilization be sufficient? 2) Can the physical dimensions of the product to be irradiated be changed for a more practical solution? The question of complete sterilization as opposed to surface sterilization can only be answered by the ultimate aim of the user. In many cases it is only desired to extend the shelf life of the product and a surface sterilization will often accomplish this purpose. In addition the severity of any organoleptic changes is usually increased with higher penetration thereby making higher voltage a detriment rather than an aid. Of course, if complete sterility is required then the cathode-ray generator must necessarily have sufficient voltage to penetrate the entire sample. The only alternative here is a change in the thickness or mode of packaging of the product thereby decreasing the ultimate penetration required. The factors controlling this decision are the additional costs of higher voltage equipment as opposed to the costs of changes in product dimensions or packaging technics.

Cathode Ray Sterilization Symposium,
Milwaukee, Wis.

L. P. GROBEL
Mr. Grobel is Supervisor,
Generator Mechanical Engineering, Large Steam Turbine and Generator Department,
Turbine Division

"... Precision balanced rotors have given smoother running turbine-generators with a great reduction in the amount of balancing needed at installation. High-speed 3600-rpm units placed in operation in 1949 had an average bearing vibration of 0.42 mils. By contrast, in 1950, when many of the present precision-balancing practices were adopted, this figure dropped to 0.30 mls. And during the years 1950 and 1952, it has remained nearly constant at 0.26 and 0.27 mls, respectively.

The 1949 turbine-generators were good machines. Current reduction of 35 per cent in vibration simply means that today’s precision-balanced machines have still less vibration. Over the same four-year period—1949 to 1952—there has been a decided reduction in the amount of balancing at destination. An average of 7.4 balancing trials were taken on the 1949 machines; this figure decreased to 5.2 a year later, became 2.4 in 1951 and 2.0 in 1952. During 1952, 58 per cent of all turbine-generators shipped needed no further balancing at destination.

G.E. Review

You can put your confidence in—

GENERAL ELECTRIC
Kinsey, Pomeroy, Martin and Gebhard —

Sexual Behavior in the Human Female

This is the interesting, readable and very scientific study of female sexual behavior, of the factors which influence it, of the ways in which it is similar to and different from male behavior, and of its social and legal implications. Material is based on a 15-year investigation which included personal interviews with almost 8,000 women.

The book analyzes the anatomic and physiologic background of sexual response in female and in male; offers original information on the significance of psychological factors in sexual response; reassesses the relation of the so-called sex hormones to sexual response; and considers neural factors in sexual response. Concepts such as orgasm and frigidity are revaluated.

This is the only report on female sexual behavior written or authorized by Dr. Kinsey and his associates. Neither the authors nor the publisher has any connection with, or any control over, any other volume on the subject which may appear.

By Alfred C. Kinsey, Wardell B. Pomeroy, Clyde E. Martin, Paul H. Gebhard, Research Associates; and others on the Staff of the Institute for Sex Research at Indiana University. 842 pages, 6" x 9". 151 charts; 179 tables; 4 illustrations. $8.00. New—Ready on September 14th.

New! . . Aberle and Corner —

Twenty-five Years of Sex Research

Here is a detailed history of the work of the Committee for Research in Problems of Sex of the National Research Council during its first 25 years. The book discusses administrative problems and scientific contributions (such as the “Kinsey Report”) which have developed with its assistance.

By Sophie D. Aberle, Member of the National Science Board of the National Science Foundation; and George W. Corner, Carnegie Institution of Washington. 248 pages, 5½" x 8½". $4.00. New.
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APPLICATION FOR HOTEL RESERVATIONS
120th AAAS MEETING
Boston, Mass., December 26-31, 1953

The list of hotels and their rates and the reservation coupon below are for your convenience in making your hotel room reservation in Boston. Please send your application, not to any hotel directly, but to the AAAS Housing Bureau in Boston and thereby avoid delay and confusion. The experienced Housing Bureau will make assignments promptly; a confirmation will be sent you in two weeks or less. Share a room with a colleague if you wish to keep down expenses. Mail your application now to secure your first choice of desired accommodations. All requests for reservations must give a definite date and estimated hour of arrival, and also probable date of departure.

<table>
<thead>
<tr>
<th>HOTELS AND RATES PER DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hotel*</td>
</tr>
<tr>
<td>BRADFORD*</td>
</tr>
<tr>
<td>COPLEY SQUARE-CS</td>
</tr>
<tr>
<td>KENMORE-BB</td>
</tr>
<tr>
<td>LENOX-CS</td>
</tr>
<tr>
<td>PARKER HOUSE</td>
</tr>
<tr>
<td>SHERATON PLAZA* - CS</td>
</tr>
<tr>
<td>SOMERSET* - BB</td>
</tr>
<tr>
<td>STATLER*</td>
</tr>
<tr>
<td>TOURAINE</td>
</tr>
<tr>
<td>VENDOME-CS</td>
</tr>
</tbody>
</table>

*Hotels starred have sessions in their public rooms. BB = Back Bay, CS = Copley Square; other hotels are downtown. The Bradford, Copley Square, Lenox, Statler, and Touraine can provide dormitory accommodations for parties of 3 to 5 at 2.75–3.00 per person. For a list of headquarters of each participating society and section, please see Association Affairs, Science, July 24, or The Scientific Monthly, July.

-------------- THIS IS YOUR HOTEL RESERVATION COUPON --------------

AAAS Housing Bureau
Room 614—80 Federal St.
Boston, Mass.

Date of Application ....................

Please reserve the following accommodations for the 120th Meeting of the AAAS in Boston, Dec. 26–31, 1953:

TYPE OF ACCOMMODATION DESIRED

Single Room ................... Desired Rate ............. Maximum Rate ............

Double-Bedded Room ........ Desired Rate ............. Maximum Rate ............. Number in party ............

Twin-Bedded Room .......... Desired Rate ............. Maximum Rate ............

Suite ........................ Desired Rate ............. Maximum Rate ............ Sharing this room will be:

(Attach list if this space is insufficient. The name and address of each person, including yourself, must be listed.)

First Choice Hotel ............. Second Choice Hotel ............. Third Choice Hotel .............

DATE OF ARRIVAL .................... DEPARTURE DATE ....................

(These must be indicated—add approximate hour, a.m. or p.m.)

NAME .......................... (Individual requesting reservation)

ADDRESS ........................ (Please print or type)

(Street) ........................ (City and Zone) ........................ (State)

Mail this now to the Housing Bureau. Rooms will be assigned and confirmed in order of receipt of reservation.
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- **Costly Breakage Reduced** — heavy tripod stand gives ample stability.

### R8-526 Auto-Burette

Made of "Pyrex" brand chemical glass to Bureau of Standards' specifications. Complete with stand, ring and clamp.

<table>
<thead>
<tr>
<th>Reservoir Cap., ml.</th>
<th>Burette Sub-Cap., ml.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>500</td>
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<tr>
<td>1000</td>
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<td>0.02</td>
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<td>0.05</td>
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<td>25</td>
<td>0.10</td>
</tr>
<tr>
<td>2000</td>
<td>50</td>
<td>0.10</td>
</tr>
</tbody>
</table>

Prices F.O.B. New York, N.Y.

Without stand, support ring and clamp, deduct $5.00 from above prices. Both Auto Pipette and Burette are available in amberised glass at slightly increased price. Auto-Burette is also available in Schellbach type tubing at slightly increased price. Add $15.00 to prices listed for Auto-Burette with Teflon plug.

For detailed information write for Bulletin A-B.

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- **No Waste** — overflow solution returns to reservoir.
- **Available in All Sizes** — in addition to standard sizes listed below, both burettes and pipettes can be made precisely to your specifications.
- **Auto-Burettes Also Available with Teflon Stopcock Plugs.**

### R71-645 Auto-Pipette

Made of "Pyrex" brand Chemical glass. Complete with stand, ring and clamp.

<table>
<thead>
<tr>
<th>Reservoir Cap., ml.</th>
<th>Pipette Cap., ml.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>5</td>
<td>$24.25</td>
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<td>2000</td>
<td>50</td>
<td>28.75</td>
</tr>
</tbody>
</table>

Prices F.O.B. New York, N.Y.

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References are divided into the following categories:

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B—Theory and Instrumentation
C—Moving Boundary Method
D—Microscope Method
E—Zone Electrophoresis in Stable Electrolytes
   (Paper, Gelatin, Etc.)
F—Electrophoresis-Convection
G—Interferometry in Electrophoresis
H—Preparative Electrophoresis
J—Diffusion Studies
K—Adsorption Chromatography
   (Schlieren & Interferometric Methods)
L—Inorganic Compounds
M—Simple Organic Compounds
N—Plant Physiology & Soil Science
P—Animal Physiology
R—Human Physiology
S—Normal Human Serum and Plasma
T—Hormones and Enzymes
U—Blood Corpuscles
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