The New 120C Amino Acid Analyzer

The faster pace of investigations…the increasing demands being made on instrumentation…the continuing need for precise results, excellent resolution, and dependable service—all are reflected in the new Beckman Model 120C Amino Acid Analyzer and the Digital Integrator Accessory.

With the Model 120C you get large, well-defined peaks from samples as small as 0.02 micromole. You have automatic reprogramming at the touch of a button. And timing is precise—to a tenth of a minute, with all timers precisely coordinated. The Model 120C’s recorder is faster. The control panel is conveniently organized.

And since hand-calculating peaks has become exorbitantly time-consuming (as compared to the mere two hours required for a protein hydrolyzate run), the Beckman Digital Integrator also warrants consideration for your laboratory. It automatically computes and prints out integrated peak values—and relates them to the chromatogram.

If you would like more information on the Integrator and the Model 120C, write for Data File SB-120-5.
110 cps full scale response +
greatest resolution = your best Oscillo Graph buy

No other oscillograph recorder can match the frequency response of Esterline Angus... flat to 110 cps (±1%) at 40 mm peak-to-peak deflection. At 140 cps, frequency response of these four, six and eight channel recorders is down only 3 db from full scale. Even at 200 cps, stylus excursion is 8 to 10 mm. Resolution? Esterline Angus combines highest chart speeds (to 500 mm per second) with highest frequency response. Exceptional resolution is further assured because of the exclusive Direct-Carbon-Transfer writing method. Even the one, two and three channel portables feature this inkless and heatless writing method. Advantages of D-C-T?

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Write for informative Series "O" Catalog.

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CORNING Model 12 Research pH Meter, left—This precision instrument allows you to standardize on any 1-pH-unit expanded range, then switch to and read on others without restandardizing. Reproducibility on expanded scale is better than ±0.002 pH. Price is $595 complete with accessory kit.
pH Meter

CORNING Model 10 Expanded-Scale pH Meter, center—The longest—10 inches—meter scale on any lab pH instrument lets us put more scale divisions on it, lets you read easily to 0.01 pH on full-scale expansion of any 3 pH units, and to 0.05 pH on the 0-14 range. Reproducibility is better than ±0.005 pH. $485 with accessory kit.

CORNING Model 7 General-Purpose pH Meter, right—Speed up routine work without risking accuracy. Drift of less than 0.01 pH/day means stability that provides dependable measurements all day without restandardization. Reproducibility is better than ±0.02 pH. $330 with accessory kit.

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ELUTION-CONVECTION CELL, separating grid, face view. Strip of the original gel pattern shown in position for elution on the separating grid. Collecting tubules below, containing corresponding components eluted from another strip of the same gel pattern. Note dye bands not concentrated in the collecting tubules.

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25 JUNE 1965
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The apparatus is especially suitable for grading homologous series of polymers, e.g., dextrans; for routine control of the purity of biochemical preparations such as serum proteins, enzymes and hormones; and for separation of heat labile substances.

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*According to J. Porath and H. Bennich

tions or for separation of peptides and amino acids from proteins, a sample of up to 150 ml is not unusual, whereas for purity controls of radioactively tagged concentrated preparations, quantities down to 1/100 of this volume are feasible. Sample application by pipette is eliminated. The pump sucks sample through a selector valve with a holdup of 150 µl—a reproducible and non-critical method.

The four main components of the ReCyChrom, namely, a separation column, a peristaltic pump, a selector valve and a flow analyzer are available separately for incorporation into other instrument setups. The specially constructed columns with adjustable plungers at both ends can be sealed completely to eliminate the pressure of water head and permit liquid flow in either direction. Closed system operation and ascending flow maintains even packing and prevents the flow rate from falling off with use, even when beds of material with low mechanical strength (gels) are used.

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Request literature file 49005-S for details

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SCIENCE, VOL. 148
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25 JUNE 1965
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The instrument has a diffraction grating monochromator which does not require complicated slit adjustments and has no vacuum tubes or electronic amplifiers; it functions precisely, day after day, with no down-time for repairs.

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**NEW BROCHURE.** "Photometric Instrumentation for the Analytical Laboratory" Bulletin SB-298 fully describes the entire Coleman line of photometric instruments. Ask your Coleman dealer for a copy of this 32 page book, or write to Coleman Instruments Corporation, Maywood, Illinois 60154.
Duphar Cyclotron on its way to Petten, Holland

Philips-Duphar will soon be able to operate its own cyclotron in the new Isotope Laboratory at the Reactor Centre, Petten, Holland. This cyclotron will be the first one in the world to be operated by a private firm and will be used for the production of carrier-free radioactive isotopes exclusively.

The cyclotron is of the isochronous type, manufactured in the Philips Works at Eindhoven. The truck in the picture carried its 90-ton cloverleaf magnet during a 2-night transport from Eindhoven to Petten.

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---

**MORE WATTS PER DOLLAR**

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**ELECTRICAL & MECHANICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>OUTPUT VOLTAGE RANGE (VDC)</th>
<th>OUTPUT CURRENT (AMPS.)</th>
<th>% REG. (LINE &amp; LOAD COMB.)</th>
<th>RMS RIPPLE</th>
<th>RESP. TIME (MICROSEC.)</th>
<th>TEMP. COEF. (%/°C.)</th>
<th>CABINET SIZE INCHES</th>
<th>RACK PANEL INCHES</th>
<th>WEIGHT (LBS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QRB15-2</td>
<td>0-15</td>
<td>0-2</td>
<td>(0.01% + 1mv)</td>
<td>0.15mv</td>
<td>50</td>
<td>±0.015</td>
<td>8⅛</td>
<td>5½</td>
<td>9</td>
</tr>
<tr>
<td>QRB20-1.5</td>
<td>0-20</td>
<td>0-1.5</td>
<td>(0.01% + 1mv)</td>
<td>0.15mv</td>
<td>50</td>
<td>±0.015</td>
<td>8⅛</td>
<td>5½</td>
<td>9</td>
</tr>
<tr>
<td>QRB30-1</td>
<td>0-30</td>
<td>0-1</td>
<td>(0.01% + 1mv)</td>
<td>0.15mv</td>
<td>50</td>
<td>±0.015</td>
<td>8⅛</td>
<td>5½</td>
<td>9</td>
</tr>
<tr>
<td>QRB40-.75</td>
<td>0-40</td>
<td>0-0.75</td>
<td>(0.01% + 1mv)</td>
<td>0.15mv</td>
<td>50</td>
<td>±0.015</td>
<td>8⅛</td>
<td>5½</td>
<td>9</td>
</tr>
</tbody>
</table>
Simple way to get quantitative data from both strong and weak areas of radioactivity

The TMC-Vanguard 880-D dual channel, low background autoscanner provides two channels with independent controls so that paper strip may be analyzed at high and low levels simultaneously. The two channels use a common input from geiger chambers and a common high-voltage supply. Pulses from the chambers are summed under the condition that they are not coincident in time, and are then supplied to the two channels for analysis.

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purity. Rigorous production control ensures uniform prod-
ucts that give accurate and reproducible results.

### Type Description Ionic form Capacity meq/g Hemoglobin cap. g/g at pH Particle size microns Availability
| | | | | | |
|---|---|---|---|---|
| DEAE- Sephadex A-25 | Weakly basic anion exchanger Functional groups: diethylaminoethyl | Cl⁻ | 3.5 ± 0.5 | 0.5;8.8 1.4;8.8 | 40-120 | 100 g bottles 500 g bottles bulk quantities |
| DEAE- Sephadex A-50 | Weakly basic anion exchanger Functional groups: diethylaminoethyl | Cl⁻ | 3.5 ± 0.5 | 0.5;8.8 1.4;8.8 | 40-120 | 100 g bottles 500 g bottles bulk quantities |
| CM- Sephadex C-25 | Weakly acidic cation exchanger Functional groups: carboxymethyl | Na⁺ | 4.5 ± 0.5 | 0.7;6.5 4.7;6.5 | 40-120 | 100 g bottles 500 g bottles bulk quantities |
| CM- Sephadex C-50 | Weakly acidic cation exchanger Functional groups: carboxymethyl | Na⁺ | 4.5 ± 0.5 | 0.7;6.5 4.7;6.5 | 40-120 | 100 g bottles 500 g bottles bulk quantities |
| SE- Sephadex C-25 | Strongly acidic cation exchanger Functional groups: sulphoethyl | Na⁺ | 2.3 ± 0.3 | 0.7;6.5 2.4;6.5 | 40-120 | 100 g bottles 500 g bottles bulk quantities |

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June, 1965

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SCIENCE, VOL. 148
heart of conversation [see F. Fremont-Smith, *Amer. Inst. Biol. Sci. Bull.* 11, 17 (1961); also “Conversation as Communication,” 3rd Yates Lecture (Michigan Tuberculosis and Respiratory Disease Association, 1961)]. The problems of pride, egotism, tension, and rivalries referred to in the editorial are usually reduced to manageable proportions when one can establish for the group an atmosphere of “free-floating security.”

At the New York Academy of Sciences we are developing a training program for conference organizers, chairmen, and discussion leaders to improve the management of such small conferences by university centers, re-search organizations, and professional organizations. I would be grateful for information about other ongoing conference programs which have been organized primarily for discussion and exchange of ideas.

**Frank Fremont-Smith**  
New York Academy of Sciences,  
16 East 52 Street, New York 10022

### Language among Scientists

President de Gaulle desires wider use of French at international scientific meetings (News and Comment, 16 Apr., p. 350). Some problems should be noted. Working documents for intergovernmental meetings are usually prepared at the last minute by a small and overworked secretariat. In scientific fields it is not uncommon for this work to be done in English. In order for such working papers to be translated into French (or other languages of possibly greater scientific importance), the original version must be turned over to a group of translators, who may not accord a high priority to the job and who almost certainly are unfamiliar with the scientific terminology. In the fullness of time, draft translations are returned to the originating office, which is then faced with a substantial and time-consuming editing job if the original meaning is to be preserved. Thus the distribution of working papers is further delayed, and the participants at such meetings may find themselves in plenary session before having access to the necessary background information. Needless to say, the translation process not only slows down considerably the already ponderous international machinery, but costs a great deal of money that might be put to better use. Most participants in international scientific meetings can at least read English and would probably prefer to receive background papers as early as possible, even if not in their own language.

Another problem concerns interpretation at meetings, particularly those of an informal character (steering committees, working groups, and the like). Interpretation, whether consecutive or simultaneous, is expensive, and good interpreters are hard to find. It often occurs that everyone in the room could work comfortably in English, yet for chauvinistic reasons a participant will insist on using his own language, thus slowing down communication and increasing expenses.

As noted in the article in *Science*, English seems to have become the lingua franca of science. Scientists from the non-English-speaking world have learned to live with this in the interests of getting their work done. One hopes that President de Gaulle, having said his piece for the glory of France, will let the scientists go about their business in the *ad hoc* way they have devised.

**Warren S. Wooster**  
Scripps Institution of Oceanography, University of California, La Jolla

### Metric Conversion:

**Petition to Congress**

The following resolution was passed unanimously by the American Institute of Nutrition at its annual meeting on 10 April:

Whereas, more than 90% of the world’s population now operates under the metric system, and whereas the *Journal of Nutrition, Poultry Science, Journal of Animal Science, Journal of Dairy Science, Food Chemicals Codex*, and publications of the National Academy of Sciences—National Research Council now use or will use metric weights and measures exclusively, be it therefore resolved that the American Institute of Nutrition in its Annual Meeting, April 10, 1965, recommends passage of the bills now before Congress to study feasibility and practicability of conversion to the metric system of weights and measures for general use in the United States. Be it further resolved that copies of this resolution be sent to committees concerned with metric conversion study bills S. 774, H.R. 2626, H.R. 38, and H.R. 1154 to achieve the above objective.

**R. W. Engel**  
Department of Biochemistry and Nutrition, Virginia Polytechnic Institute, Blacksburg 24061
This new stimulator extends the scope and enhances the precision of evoked-response studies

Nuclear-Chicago's Model 7150 Constant-Current Stimulator offers a variety of operating benefits not found in other stimulators.

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Equally significant is the Model 7150 Stimulator's ability to produce both symmetrical and nonsymmetrical biphasic or monophasic pulse pairs. Its unique symmetrical biphasic output gives a waveform with an average DC value of zero—a marked advantage in brain stimulation studies where tissue damage must be avoided.

In the nonsymmetrical mode, the amplitude and width of each pulse and the time delay between the two pulses are independently variable.

A further superiority of the Model 7150 Stimulator is the complete isolation of its output from AC power and ground as well as from the built-in voltage and current monitor. As a result, stray currents and other undesirable side effects from instruments having a ground return are eliminated.

Operating convenience features of the Model 7150 include: a self-contained, timed gate that can be triggered remotely to adjust the duration of stimulator output; dual output connectors for switching of stimuli between subjects; a neon stimulus-output indicator; and warning indicators for both pulse overlap and excessive load-impedance.

The advanced design of the Model 7150 Constant-Current Stimulator makes it a valuable component of Nuclear-Chicago's Data Retrieval Computer (DRC) System. The heart of this comprehensive system for the "on-line" averaging and analysis of bioelectric signals is the Model 7100 Data Retrieval Computer. A typical DRC System is shown at left. Its components are (top to bottom): the Data Retrieval Computer, constant-current stimulator, AC differential preamplifier, voltage calibrator, and X-Y point-plot recorder.

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as soon as they are collected, and 10 more, and 10 more, and 10 more———→∞. As long as empty test tubes in handsome red polypropylene racks (holding 10 each) are supplied on the right, the same may be removed from the left — with enclosed fractions, of course. Twenty (20) racks can be put in the apparatus for the period of unattended run. Write GILSON MEDICAL ELECTRONICS, Middleton, Wisconsin, for data on the

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- All operating controls conveniently located on the front panel... pushbutton selection of 16 scanning speeds
- Handles chromatograms from \( \frac{1}{2} \) to 2 inches wide—lengths up to 150 feet—all types of papers up to Whatman 3MM

Model 7201 also features synchronized recorder and strip speeds, optional chart integrator, automatic indication of origin and solvent fronts, and automatic shutoff of gas and power. Ratemeter provides 9 linear count ranges and logarithmic scale; 8 time constants. Electronic circuitry is all solid-state.

For detailed information contact your Packard Sales Engineer, or write for Bulletin 1038.

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Only a few relatively minor defects are apparent. The bibliography might well have been made more extensive. Its 80 references include only a few reviews and chiefly recent articles from which (one hopes) it should be possible to trace back the relevant literature. In view of the role of vitamin A in keratinization in vertebrate tissue, the statement (p. 107) that it has no role apart from production of visual pigments may be questioned. It would have been of interest to include a discussion of the metabolic role (or of the little that is known about it) of the numerous symbiotic microorganisms of insects. But these are small matters compared to the positive values of this highly readable book.

William Trager
Rockefeller Institute, New York

Radiation Research


Until recently there were no review series devoted especially to the biological aspects of radiation research. Now there are two; the one reviewed here, Advances in Radiation Research, and Current Topics in Radiation Research, which was reviewed in the 7 May 1965 issue of Science. It is regrettable that this duplication has occurred. Both volumes contain well-written articles, but there is certainly no need for two review series in this one field. It is also regrettable that the present series, which offers no more in content than the other, should be appreciably more expensive.

In the first article, on the radiation chemistry of aqueous solutions, Harold A. Schwarz gives a very clear, succinct picture of the present knowledge of the radiation chemistry of water. The evidence for various products of irradiated water is summarized and evaluated, and some emphasis is placed upon the importance of rate constants.

In another chapter Gordon Tollin provides an excellent review of the various physical processes in photosynthetic energy conversion. He discusses the absorption and emission of light, energy transfer, and electronic charge migration, with special emphasis on photosynthetic pigments in vitro. Attempts are made to relate these theories and observations to the energy conversion processes in photosynthesis, but they demonstrate the difficulty in making the connection between the simplified in vitro systems and the organized system in the cell.

Donald E. Wimber's chapter on intracellular irradiation with tritium should be read by all those who use this radionuclide for labeling purposes, for it is clear that the biological effects of the radiation from tritium are not negligible in many situations. Wimber gives a well-balanced account of the still rather scanty evidence on this problem.

The effects of small doses of radiation, in the order of a few tens of rads down to even fractions of a rad, are reviewed by Arne Forssberg. The information on this subject has been quite scattered, and it is valuable to have it brought together in a careful and critical review.

The chapter by J. Liebster and J. Kopoldová, on the radiation chemistry of amino acids, is a long and careful compilation of the many reactions for which there is some evidence; each amino acid or group of amino acids is discussed in turn. The chapter will probably be of great use to investigators in this field, but it will be less useful than the other chapters to those who want a succinct picture of a field other than their own.

In the final chapter, "The relative role of ionization and excitation processes in the radiation inactivation of enzymes," Leroy G. Augustin, Tor Brustad, and Ronald Mason emphasize the theory of energy absorption and conversion processes. These authors make a particular point of studies on the temperature dependence of inactivation by radiation and point out the difficulties with the simpler ionization models for radiation action.

In general this is a well-written volume that will repay reading by anyone in the field.

R. F. Kimball
Biology Division,
Oak Ridge National Laboratory,
Oak Ridge, Tennessee

New Books

General


Industrial Wastewater Control: A textbook and reference work. C. Fred Gurnham. Ed. Academic Press, New York, 1965. Twenty-four papers on the following topics: Food products—Animal (4 papers); Food products—Vegetable (4 papers); Mining (3 papers); Mineral products (4 papers); Manufactured products (6 papers); and General industries (3 papers). Chemical Technology Series of Monographs, edited by Raymond F. Baddour.

Mental Retardation: Its Nature and Incidence. A population survey of the state of Delaware. Joseph F. Jastak, Halsey M. MacPhee, and Martin Whiteman. Univ. of Delaware Press, Newark, 1963. 204 pp. $6 (order from the University Bookstore, Univ. of Delaware). The Jour-


(Continued on page 1772)
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2-3. British Soc. for Immunology, summer meeting, Glasgow, Scotland. (I. Roitt, Courtauld Inst., Middlesex Hospital, London W.1, England)
2-4. Astronomical League, Milwaukee, Wis. (W. M. DuVall, 318 Emmertsen Rd., Racine, Wis. 53406)
2-5. Meteorological Data Processing, Uccle and Brussels, Belgium. (World Meteorological Organization, 41, avenue Giuseppe Motta, Geneva, Switzerland)
4-10. American Library Assoc., annual, Detroit, Mich. (D. H. Clift, American Library Assoc., 50 E. Huron St., Chicago, Ill.)
5-10. French Soc. for the Advancement of Science, 84th annual congr., Tours. (The Association, 28 rue Serpente, Paris 6e, France)
5-6 Aug. American Mathematical Soc., summer inst. on algebraic groups and discontinuous subgroups, Boulder, Colo. (G. L. Walker, 190 Hope St., Providence, R.I. 02906)
6-8. Water Resources Research, western conf., Colorado State University, Fort Collins. (Office of Conference Services, 204 Administration Bldg., Colorado State Univ., Fort Collins 80521)
6-9. American Dental Soc. of Europe, annual, Florence, Italy. (A. Sturridge, 35 Harley St., London W.1, England)
6-10. Plant Viruses, 5th intern. conf., Wageningen, Netherlands. (State Agricultural Univ. of Wageningen, Laboratory of Virology, Salverdaplein 10, Wageningen)
10-17. Education and Health, intern. conf., Madrid, Spain. (L. P. Aujolet, 1 rue de Tilisit, Paris 8e, France)
11-15. Psychoanalysis, 2nd intern. forum, Zürich, Switzerland. (G. Chrzanowski, 4 E. 95 St., New York 10028)
11-15. American Veterinary Medical

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(a non-profit organization)
20-24. International Assoc. for Dental Research, 43rd general meeting, Toronto, Ont., Canada. H. Rovelstad, U.S. Navy Dental School, Natl. Naval Medical Center, Bethesda, Md.)

22-26. Rorschach and Projective Methods, 6th intern. congr., Paris, France. (A. Morall-Daninos, 7 avenue Trudaine, Paris 9e)


24-4 Sept. Organism-Sediment Interrelationships, NSF seminar, Bermuda Biological Station. (K. E. Chavez, Marine Science Center, Lehigh Univ., Bethlehem, Pa. 18015)


25-29. Pacific Dermatologic Assoc., Portland, Ore. (G. MacDonald, 4294 Orange St., Riverside, Calif.)


26-30. Interpretation and Therapy of Cardiac Arrhythmias, conf., Hahnemann Medical College of Pennsylvania, Philadelphia 2, Pa. (L. S. Dreifuss, Dept. of Medicine, Hahnemann Medical College and Hospital, 230 North Broad St., Philadelphia)


28-30. Reliability and Maintainability, 4th annual conf., Los Angeles, Calif. (J. de S. Coutinho, 32 Dartmouth St., Garden City, N.Y.)

28-31. Spanish Biochemists, 3rd meeting, Oviedo, Spain. (J. R. Villanueva, Centro de Investigaciones Biológicas, Velázquez 138, Madrid 6, Spain)

29-2. Microcalorimetry, intern. symp., Marseille, France. (E. Calvert, Institut de Microcalorimétrie et de Thermogénése, 26, rue du 1414 RIA (3e), Marseille)


31-7. Universala Medicina Esperanto-Asocio, meeting, during the 50th intern. esperanto congr., Tokyo, Japan. (H. Shinoda, Kasumicho, Yamagata, Japan)

August


1-8. Chemistry, 9th Latin American congr., San Juan, P.R. (Secretary, 9th Latin American Chemical Congr., Box 2647, Rio Piedras, P.R.)

2-4. Society for Cryobiology, 2nd annual, Madison, Wis. (G. Ratapaz, American Foundation of Biological Research, RDF 1, Madison 32716)

2-5. Comparative Endocrinologists, 3rd European conf., Copenhagen, Denmark. (C. Barker-Jørgensen, Universitets Zoofysiologiske Laboratorium Juliane Maries Vej 32, Copenhagen Ø)

2-6. High Pressure, intern. conf., Saône et Loire, France. (B. Vodar, Centre National de la Recherche Scientifique, B.P. 30, Bellevue, Seine et Oise, France)


3-7. Poultry Science Assoc., Univ. of Georgia, Athens, (C. B. Ryan, Texas A&M Univ., College Station 77843)

4-6. Space and Ballistic Missile Technology, 10th symp., U.S. Naval Training Center, San Diego, Calif. (C. T. Morrow, Aerospace Corp., Box 95085, Los Angeles, Calif. 90045)

4-7. Genetics, G. Mendel memorial symp., Brno, Czechoslovakia. (M. Sosna, G. Mendel Memorial Symp., Na cvicistí 2, Prague 6, Czechoslovakia)

5-12. EEG and Neurophysiology, 6th intern. congr., Vienna, Austria. (K. Patelsky, Wiener Medizinische Akademie, Alserstr. 4, Vienna 4)

8-11. Heat Transfer, 8th natl. conf., Los Angeles, Calif. (K. O. Beatti, Jr., Dept. of Chemical Engineering, North Carolina State College, Raleigh)
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8-14. Anatomists, 8th intern. conf., Wiesbaden, Germany. (M. Watzka, Anatomisches Institut der Universität, Mainz, West Germany)
8-27. Fracture Mechanics, workshop, Denver Research Inst., Denver, Colo. (D. L. Wells, University Technology Corp., P.O. Box 7, Dayton, Ohio 45449)
9-11. Mutation Process, symp., Prague, Czechoslovakia. (M. Sonza, Na cvicisti 2, Prague 6)
9-13. Meteor Orbits and Dust, intern. symp. (invitation only), Cambridge, Mass. (G. S. Hawkins, Smithsonian Astrophysical Observatory, 60 Garden St., Cambridge 02138)
14-19. Electromagnetic Measurements and Standards, Natl. Bureau of Standards, Boulder, Colo. (Bureau of Continuation Education, University Memorial Center, Univ. of Colorado, Boulder)
11-15. European Malacological Union, 2nd congr., Copenhagen, Denmark. (G. Hopner Peterson, c/o Zoologisk Museum, 5 Afdeling, Universitetsparken 15, Copenhagen)
12-21. Veterinary Education, 2nd intern., Copenhagen, Denmark. (Inter. Agenyi Liaison Branch, Office of the Director General, Food and Agriculture Organization, Via delle Terme di Caracalla, Rome, Italy)
14-20. Australian Medical Assoc., 2nd medical congr., Perth, Western Australia. (O. R. Corr, 8 King’s Park Rd., West Perth, Western Australia)
14-20. Molecular Spectroscopy, 8th European congr., Copenhagen, Denmark. (The Congress, Universitetsparken 5, København Ø, Denmark)
14-6. Digital Computers for College Teachers of Science, Mathematics, and Engineering, Univ. of Southwestern Louisiana, Lafayette. (J. R. Oliver, Box 133, USL Station, Lafayette 70506)

The following societies will meet in conjunction with the AIBS. Unless otherwise indicated, the local chairmen are at the University of Illinois, Urbana.
American Bryological Soc. (G. N. Jones, Dept. of Botany)
American Fern Soc. (G. N. Jones, Dept. of Botany)
American Fisheries Soc. (G. Bennett, Aquatic Biology Section)
American Genetic Assc. (S. Price, Room 210 S. Bldg., Plant Industry Station, Beltsville, Md.)
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American Microscopical Soc. (L. J. Thomas, Dept. of Zoology)  
American Soc. for Horticultural Science (C. J. Birkeland, Dept. of Horticulture)  
American Soc. of Limnology and Oceanography. (W. Larrimore, Illinois Natural History Survey, Urbana)  
American Soc. of Plant Physiologists. (J. B. Hanson, Dept. of Agronomy)  
American Soc. of Plant Taxonomists. (W. Payne, Dept. of Botany)  
American Soc. of Zoologists. (L. Ingle, Dept. of Zoology)  
Animal Behavior Soc. (G. P. Waldenbauer, Dept. of Entomology)  
Botanical Soc. of America. (D. J. Paolillo, Dept. of Botany, 302 Natural History Bldg.)  
Ecological Soc. of America. (L. C. Bliss, Dept. of Botany)  
Myological Soc. of America. (D. P. Rogers, Dept. of Botany)  
National Assoc. of Biology Teachers. (H. Weaver, Dept. of Recreation and Municipal Park Administration)  
Phycological Soc. of America. (L. Hoffman, Dept. of Botany)  
Society for Industrial Microbiology. (L. D. Witter, Food Science Dept.)  
Society of Nematologists. (D. P. Taylor, 106 Horticulture Field Laboratory)  
Tomato Genetics Cooperative. (A. Thompson, Dept. of Horticulture)  

16-18. Guidance and Control, conf., Minneapolis, Minn. (D. L. Mellen, Mail Station 677, Military Products Group, Aeronautical Div., Honeywell, Inc., Minneapolis 55440)  
16-20. Australian–New Zealand Assoc. for the Advancement of Science, Univ. of Tasmania, Hobart, Tasmania, Australia. (K. D. Nicolis, Div. of Soils, CSIRO, Stowell Ave., Hobart)  
16-20. Liquid Crystals, conf., Kent State Univ., Kent, Ohio. (G. H. Brown, Dept. of Chemistry, Kent State Univ., Kent)  
16-20. American Soc. for Pharmacology and Experimental Therapeutics, fall meeting, Univ. of Pennsylvania, Philadelphia. (E. B. Cook, 9650 Wisconsin Ave., Washington, D.C. 20014)  
16-3. Radiation Trapped in the Earth’s Magnetic Field, NATO institute, Bergen, Norway
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25 JUNE 1965
23–25. Plant Phenolics Group of North America, annual, Albany, Calif. (V. C. Runuckles, Imperial Tobacco Co. of Canada, P.O. Box 6500, Montreal, Quebec)
23–26. Quantum Chemistry, Physical Chemistry Div., Chemical Inst. of Canada, Edmonton, Alta. (The Institute, 48 Rideau St., Ottawa 2, Ont.)
23–27. Control Procedures in Drug Production, seminar, Univ. of Wisconsin, Madison. (W. Blockstein, Extension Services in Pharmacy, Univ. of Wisconsin, Madison)
23–27. American Ornithologists Union, Ohio State Univ., Columbus. (R. Mewaldt, San Jose State Teachers College, San Jose, Calif.)
22–29. European Soc. of Haematology, 10th congr., Strasbourg, France. (R. Waizl, Faculté de Médecine, Inst. d’Hématologie, 1, Pl. de l’Hôpital, Strasbourg, Bas-Rhin, France)
23–29. Logopaedics and Phoniatrics, 13th intern. congr., Vienna, Austria. (Mrs. A. M. Jorg, Vienna Acad. of Medicine, Alserstr. 4, Vienna 9)
23–50. Limnology, 16th intern. congr., Warsaw, Poland. (G. E. Hutchinson, Yale Univ., New Haven, Conn.)
24–26. Association for Computing Machinery, 20th natl. conf., Cleveland, Ohio. (G. J. Moshos, P.O. Box 4741, Cleveland 44126)
29–2. American Assoc. of Clinical Chemists, 17th natl., Chicago, Ill. (M. E. Hanke, 8424 Rhodes Ave., Chicago 60619)
29–3. AAAS, Laurentian Hormone Conf., Mont Tremblant, Quebec, Canada. (J. C. Foss, Laurentian Hormone Conf., 222 Maple Ave., Shrewsbury, Mass.)
30–31. Past and Future of Science, symp., Krakow, Poland. (B. Suchodolski, Polish Acad. of Sciences, Palace of Culture and Sciences, Warsaw)
30–2. Applied Mechanics, West Coast conf., Univ. of California, Los Angeles. (P. M. Naghdi, Div. of Applied Mechanics, Univ. of California, Berkeley 94720)
30–1. Rare Earth Research, 5th conf., Iowa State Univ., Ames. (S. Legvold, Dept. of Physics, Iowa State Univ., Ames 50012)
30–2. Fluorine Chemistry, 3rd intern. symp., Munich, Germany. (F. Weygand, Inst. für Organische Chemie, Technische Hochschule München, Arcisstr. 21, 8 Munich 2)
30–2. Mathematical Assoc. of America, 46th summer, Cornell Univ., Ithaca, N.Y. (H. M. Gehman, State Univ. of New York at Buffalo, Buffalo 14214)
30–2. Regional Science Assoc., 5th European congr., Krakow, Poland. (H. Wood, Dept. of Regional Science, Univ. of Pennsylvania, Philadelphia 19104)