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has headed controlled fusion research at Princeton since its inception in 1951, and who will now concentrate his efforts on the experimental program with the C stellarator, which is nearing completion.

Ray L. Sweigert, dean of the graduate division of Georgia Institute of Technology, is retiring after 32 years of service.

Isaac D. Welt, formerly on the staff of the division of medical sciences, National Academy of Sciences—National Research Council, has been named chief of the Washington office of the Institute for the Advancement of Medical Communication. Welt is also an associate director and member of the board of directors of the institute. He will continue as director of the cardiovascular literature project, for which the institute now assumes responsibility.

For the best paper presented at the 1960 meetings of the American Oil Chemists' Society, H. K. Mangold of the Hormel Institute, Austin, Minn., was named winner of the society's annual Bond award.

Leonard Carmichael, secretary of the Smithsonian Institution, Washington, D.C., was elected president of the section on experimental psychology and animal behavior of the International Union of Biological Sciences at the meeting held in Amsterdam on 29 March. He succeeds H. Piéron of the Sorbonne.

Daniel Binder, formerly a physicist with Oak Ridge National Laboratory, has joined Hughes Aircraft Company's nuclear electronics laboratory as head of the nuclear measurements department.

Emil Palmquist has been appointed medical director of the regional office of the Department of Health, Education, and Welfare in Charlottesville, Va., where he will be responsible for the administration of grants-in-aid and various types of technical assistance which the Public Health Service makes available to the health departments of the District of Columbia, Kentucky, Maryland, North Carolina, Virginia, West Virginia, Puerto Rico, and the Virgin Islands. Palmquist is at present a public health consultant in HEW's San Francisco regional office. In Charlottesville he will replace Eugene Gillis, who recently became health officer of Philadelphia.

George A. Wolf, Jr., dean of the University of Vermont College of Medicine, has been named executive director of the Tufts-New England Medical Center, Boston. Wolf will also be named vice president for medical affairs of Tufts University. His appointment to both positions will become effective on 1 September.

Grete Lehner Birbing has been named clinical professor of psychiatry on the Harvard University faculty of medicine. She is psychiatrist-in-chief at the Beth Israel Hospital, Boston, and president-elect of the American Psychanalytic Association.

Taffee T. Tanimoto, mathematician, has been named head of the Pattern Recognition Laboratory in the Melpar Corporation's Applied Science Division, Watertown, Mass. He joins Melpar from International Business Machine's research center at Yorktown Heights, N.Y., where he was engaged in computer-oriented mathematical research—principally theoretical work in information retrieval.

Deane B. Judd has been appointed editor of the Journal of the Optical Society of America. Judd, a physicist at the National Bureau of Standards since 1927, is internationally known for his work in colorimetry and on color vision. He is a former president of the society and has served as associate editor of its journal for many years.

Don W. Esplin, assistant research professor of pharmacology at the University of Utah College of Medicine, has received the 1961 John I. Abel award of the American Society for Pharmacology and Experimental Therapeutics for his research on the site and mechanism of drug action in the central nervous system. The award is sponsored by Eli Lilly and Company.

Martin M. Cummings and Robert H. Grant have been appointed chief and assistant chief, respectively, of the new Office of International Research at the Public Health Service's National Institutes of Health, effective 1 July. Cummings has been chairman of the department of microbiology at the University of Oklahoma Medical School since 1959. In addition to his administrative and teaching duties there, he has conducted research in epidemiology, microbiology, and clinical medicine and has served as consultant to the Veterans Administration and the Medical Research Foundation of Oklahoma.

A career Civil Service employee, Grant has for the past year been on leave from his regular post as executive officer of the National Heart Institute, to serve as director of the Special Staff on Aging for the Department of Health, Education, and Welfare.

Recent Deaths

Ernest F. Cook, Philadelphia, Pa.; 83; professor emeritus of pharmacy at the Philadelphia College of Pharmacy and Science; former director of pharmaceutical laboratories at the college, of which he was a trustee; was coeditor of Remington's Practice of Pharmacy, and for 40 years served as chairman of the Committee on Revision of the United States Pharmacopoeia; 2 Mar.

George O. Hendrickson; 70; professor of zoology and entomology at Iowa State University, where he had been in charge of research on wildlife management for 35 years; 19 Mar.

Carl I. Hovland, Hamden, Conn.; 48; professor of psychology at Yale; consultant at various times to the Ford Foundation, the Rockefeller Foundation, the Bell Laboratories, the Center for Advanced Study in the Behavioral Sciences at Stanford, and various government agencies; had recently been awarded the Warren medal of the Society of Experimental Biologists for "distinguished research in higher attitude formations and reasoning"; 16 Apr.

Fred S. Hultz; 67; president of North Dakota State University since 1948; previously professor of animal husbandry at the University of Wyoming for 25 years; 17 Apr.

Erratum: In the report "Slowing of heart rate after septal self-stimulation in rats," by R. B. Malmo [Science 133, 1128 (14 Apr., 1961)], there is a transposition of values for heart rate given in two successive sentences beginning with line 21, column 1, page 1129. The sentences should have read: "Systematic quantitative analysis of the heart-rate data for this animal showed that mean heart rate for periods with self-stimulation was 389.4 beats per minute compared with 442.2 beats per minute for preceding periods without intracranial stimulation. Corresponding mean values for subjects 6 and 10 that also had the five full-training sessions were 442.8 and 451.2 for subject 6, and 400.8 and 428.4 for subject 10."

Within this volume are three distinct monographs, each representing a survey of mathematical approaches to selected problems in social science. The first and longest is "The Mathematical Study of Small Groups," by James S. Coleman (150 pages). Ernest W. Adams has contributed "Survey of Bernoullian Utility Theory" (118 pages), followed by "A Survey of Mathematical Models in Factor Analysis" (46 pages) contributed by the editor. All were prepared as part of the program of the Bureau of Applied Social Research of Columbia University and were initiated during the period 1952–56.

Coleman begins by considering explanations for the relative paucity of mathematical models for behavior of small groups, then examines in detail several models which have been proposed, systematically discussing the purpose and the advantages and shortcomings of each. The 21 pages that constitute the evaluation of approaches toward model-building in the social sciences should be recommended reading for all students of mathematical social science. Indeed, it is this critical assessment of model-building strategies which serves to motivate the entire monograph. Models are separated into two types, those based upon empirically verified postulates, in which case theorems have predictive status, and models based upon verified theorems, in which case empirical confirmation of the postulates becomes of interest. When a proposed model can be characterized by neither form of correspondence with empirical observation, one can wonder, with Coleman, concerning its role in science.

The second monograph, by Ernest Adams, includes critical examination of the assumptions of Bernoullian utility theory, notes some suggested modifications of the theory (for example, incorporation of subjective probability), presents an introduction to decision theory, and finally discusses attempts to verify empirically certain aspects of utility theory. The monograph serves as a useful introduction to these topics, which have become a focus of increasing attention from social scientists in recent years.

In the final paper, Solomon presents a chronological history of factor analysis, considering each major theory as a mathematical model for observed data.

This volume may not completely fulfill the expectations of some readers, misled by the implied breadth of its title. Such readers, however, are not likely to be permanently disappointed. The decision to present detailed analysis of a few representative topics rather than superficial coverage of many was a wise one. The three contributions are of high quality and equip the reader, whether graduate student or research worker, with considerable understanding of the criteria for useful formalization of theory in social science.

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- Details from The American Geographical Society (Broadway at 156th St., New York 32).
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![Diagram of chemical reaction](image)

by lithium.

Next,

![Diagram of chemical structure](image)

On acidification, an H replaced the Li. He then esterified with methanol, with HCl as catalyst. His product,

![Diagram of chemical structure](image)

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AAAS Symposium Volume 63

CONGENITAL HEART DISEASE
Allen D. Bass and Gordon K. Moe, Editors
June 1960
Presented at the AAAS Washington meeting, December 1958.
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1515 Massachusetts Ave., NW, Washington 5, D.C.

Ian Memorial Inst., 1025 Pine Ave. West, Montreal 2, P.Q.)
5–10. International Colloquium on Spectroscopy, 9th, Lyon, France. (Secr.-tariat, Groupement pour l’Avancement des Methodes Spectrographiques, 1, rue Gaston Bousier, Paris 15)
5–16. Operations Research and Systems Engineering, Baltimore, Md. (Dean, School of Engineering, Johns Hopkins Univ., Baltimore 18)
6–8. Tissue Culture Assoc., 12th annual, Detroit, Mich. (F. E. Payne, Dept. of Epidemiology, Univ. of Michigan, Ann Arbor)
8–11. American Electroencephalographic Soc., Atlantic City, N.J. (G. A. Ulett, Malcolm Bliss Mental Health Center, 1420 Grattan, St. Louis 4, Mo.)
8–18. International Organization for Standardization, general assembly (members only), Finland. (American Standards Association, 70 East 45 St., New York 17)
9–17. European Convention of Chemical Engineering, Frankfurt, Germany. (DECHHEMA, Postfach No. 7746, Frankfurt/Main 7)
12–15. Nature of the Real, conf., Milwaukee, Wis. (E. D. Simmons, Dept. of...
Philosophy, Marquette Univ., Milwau-
ke 2)
12—15. Physics of Electronic and Atomic
Collisions, intern. conf., Boulder, Colo.
(B. Bederson, Physics Dept., New York
Univ., New York 53)
12—16. Association of Official Seed
Analysts, Richmond, Va. (D. D. Forsyth,
Agronomy Building, Madison 6, Wis.)
12—16. X-ray Diffraction and Spectro-
troscopy, symp., Columbus, Ohio. (R. A.
Oetjen, Dept. of Physics and Astronomy,
Ohio State Univ., Columbus 10)
12—18. European Assoc. for Animal
Production, 8th intern. conf., Hamburg,
Germany. (European Assoc. for Animal
Production, Via Barnaba Oriana 28, Rome,
Italy)
12—24. European Inst. of Scientific
Studies for the Prevention and Treatment
of Alcoholism, Amsterdam, Netherlands.
(D. Ehlbeck, Intern. Bureau against Alcoh-
olism, Case Gare 49, Lausanne, Switzerland.)
12—29. Statistical Quality Control Inten-
tensive Courses for the Chemical and
Processing Industries, 18th annual, Roch-
ester, N.Y. (H. M. Kentner, Extended
Services Div., Rochester Inst. of Tech-
nology, Rochester 6)
13—14. Product Engineering and Pro-
(P. J. Riley, R.C.A., Building 106-10, Camden
2, N.J.)
13—16. Gas Chromatography Symp.,
3rd biennial, East Lansing, Mich. (J. E.
Callen, Procter and Gamble Co., Miami
Valley Laboratories, P.O. Box 175, Cin-
cinnati 39, Ohio)
13—16. Institute of Aerospace Sciences
and American Rocket Soc., Los Angeles,
Calif. (Inst. of Aerospace Sciences, 2 E.
64 St., New York 21)
13—18. Nuclear Congress, 6th, Rome,
Italy. (Ufficio Stampa e Relazioni Pub-
bliche-CNEN, Via Belsarto 15, Rome)
14—16. Vacuum Coating Conf., Chi-
cago, Ill. (American Soc. of Mechanical
Engineers, Meetings Dept., 29 W. 39 St.,
New York 18)
14—16. Semiconducting Compounds,
conf., Schenechaty, N.Y. (W. W. Tyler,
General Electric Research Laboratory,
Schenectady, N.Y.)
14—16. Theory of Weak and Strong In-
teractions, conf., La Jolla, Calif. (T. A.
Manar, Scripps Institution of Oceanog-
raphy, La Jolla)
14—17. American Assoc. of Bioanalysts,
Dallas, Tex. (L. D. Hertert, 490 Post St.,
Room 200, Boston 10, Mass.)
16—17. Meteoritical Soc., Nantucket,
Mass. (G. L. Rowland, Long Beach City
College, Long Beach 8, Calif.)
Mass. (O. J. Du Temple, AMS, 86 E.
Randolph St., Chicago 1, Ill.)
Nantucket, Mass. (J. A. Hynek, Dear-
born Observatory, Northwestern Univ.,
Evanston, Ill.)
18—23. American Meteorological Soc.,
193rd natl., and Pacific Div., AAAS, 42nd
annual, Davis, Calif. (AMS, 45 Beacon
St., Boston 10, Mass.)
18—23. American Soc. of Medical Tech-
nologists, Seattle, Wash. (Miss R. Mat-
thaei, Suite 25, Hermann Professional
Bldg., Houston 25, Tex.)
19—21. American Soc. of Pharmacog-
ny, annual (Miss Clara drowned in Hor-
on, Tex. (R. S. Westby, Eli Lilly and Co., 740
S. Alabama St., Indianapolis 6, Ind.)
19—23. Conference on Carbon, 5th bi-
nennial, University Park, Pa. (Fifth Carbon
Conf., Pennsylvania State Univ., Confer-
ence Center, University Park)
19—23. Current Aspects of Internal Medi-
cine, postgraduate course, American Col-
lege of Physicians, Iowa City, Iowa. (E. C.
Rosenow, Jr., Executive Director, ACP,
4200 Pine St., Philadelphia 4, Pa.)
19—24. Feed Microscopy, annual meet-
ing and special short course, Denver, Colo.
(C. Jones, Colorado Department of Agri-
culture, 250 N. Washington St., Denver)
19—30. Astrophysics Seminar, Cloud-
croft, N.M. (J. R. Foote, P.O. Box 1053,
Holloman Air Force Base, N.M.)
21—1. International Plastics Exhibition
and Convention, London, England. (Brit-
ish Plastics, Dorset House, Stanford St.,
London, N.)
21—25. American Rheumatism Assoc.,
New York, N.Y. (F. E. Demartini, 622 W.
168 St., New York 32)
22—23. Computers and Data Process-
ing, 8th annual symp., Estes Park, Colo.
(W. H. Eichelberger, Denver Research
Inst. of Denver, Denver Colo.)
22—24. Endocrine Soc., New York,
N.Y. (H. H. Turner, 1200 N. Walker,
Oklahoma City 3, Okla.)
22—26. American College of Chest
Physicians, New York, N.Y. (M. Korn-
feld, 112 E. Chestnut St., Chicago 11,
Ill.)
23—25. American College of Angiology,
7th annual, New York, N.Y. (A. Halpern,
Secretary, 11 Hampton Court, Great Neck,
N.Y.)
25—28. American Soc. of Agricultural
Engineers, annual, Ames, Iowa. (J. L.
Butt, 420 Main St., St. Joseph, Mich.)
25—29. American Soc. of Chemistry,
Chic., Ill. (American Soc. of Mechanical
Engineers, Meetings Dept., 29 W. 39 St.,
New York 18)
25—29. International Union of Leather
Chemists Societies, 8th congress, Washing-
ton, D.C. (F. O'Flaherty, Dept. of Leather
Research, Univ. of Cincinnati, Cincinnati
21, Ohio)
25—30. National Education Assoc. of
the U.S., Atlantic City, N.J. (R. J. Painter,
1916 Race St., Philadelphia, Pa.)
25—30. National Astronomical Ob-
servatory, New York, N.Y. (J. G. Carr,
1201 16 St., NW, Washington 6)
26—27. Conference on Vacuum Met-
lurgy, 5th annual conf., New York, N.Y.
(R. F. Bunshah, Dept. of Metallurgical
Engineering, New York Univ., New York
53)
26—28. American Soc. of Heating, Re-
frigerating and Air-Conditioning Engi-
ners, 68th annual, Denver, Colo. (J. H.
Candsale, ASHRAE, 234 Fifth Ave., New
York 1)
26—28. Control of Noise, symp., Ted-
ington, England. (Director, National
Physical Laboratory, Teddington, Middle-
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