

Association Affairs

Southwestern Division, May 1-4, 1952

Frank E. E. Germann

University of Colorado, Boulder

THE 28th Annual Meeting of the Southwestern Division, AAAS, will be held jointly with the Colorado-Wyoming Academy of Science on the University of Colorado campus at Boulder, May 1-4. The section secretaries have submitted the following lists of papers to be read in their respective sections.

ANTHROPOLOGY SECTION

Ruth Underhill, *Chairman*

1. Distribution of Arrow Points in the Northern Great Plains. E. B. Renaud, University of Denver.
2. Recent Finds of Early Man in Mexico. H. M. Worthington, Denver Museum of Natural History.

Symposium on Colorado Prehistory

3. Archaeological Developments in Southwestern Colorado. Herbert W. Dick, University of Colorado Museum.
4. Northwestern Colorado. Robert H. Lister, University of Colorado.
5. Eastern Colorado. Arnold Withers, University of Denver.
6. Southeastern Colorado. Haldon Chase, Denver Art Museum.
7. The Proposed Carbon 14 Dating Laboratory at the University of Colorado. Raymond N. Keller, University of Colorado.
8. Future Plans for Anthropology in New Mexico. Bertha P. Dutton, Museum of New Mexico, Santa Fe.
9. The Ute Claims Cases. Omer C. Stewart, University of Colorado.

BACTERIOLOGY SECTION

Charles F. Poe, *Chairman*

1. The Liberation of Water-Insoluble Acids in Cream by Geotrichum. Michael Purko, Wyoming State Department of Agriculture; W. O. Nelson and W. A. Wood, University of Illinois.
2. Thermostabilization and its Effects on Representative Organisms in Shell Eggs. Mary C. McAuley, Emma J. Thiessen, and Michael Purko, University of Wyoming.
3. The Effect of Combinations of Antibiotics on Resistant Staphylococci. Ben Miyahara and William E. Clapper, University of Colorado School of Medicine, Denver.
4. A Comparative Metabolic Study of Some *Salmonella* and *Paracolon* Species. Robert M. Twedt and William E. Clapper, University of Colorado School of Medicine.
5. Study of the Protective Action of Alkaloids against Ultraviolet Irradiation. John P. Street, College of Pharmacy, University of Colorado.
6. Reversal of Cobalt and Nickel Inhibitions by Magnesium in Yeast Cultures. Stephen R. McCulloch and Charles F. Poe, College of Pharmacy, University of Colorado.
7. The Enhancement of the Germicidal Power of Phenol

by Detergents. Frank T. Brown, Charles R. Bitter, and Dale L. Tanner, University of Colorado.

CHEMISTRY SECTION

William C. Stickler, *Chairman*

1. Formation of Neutral Products in the Treatment of trans-*m*-Nitrocinnamic Acid Dibromide with Sodium Acetate and Absolute Ethanol. Stanley J. Cristol and William P. Norris, University of Colorado.
2. Separation of Anions of the Copper Subgroup by Means of Electrochromatography. Louis Gachic and G. Howard McCormick, University of Denver.
3. The Adaptation of the Five-Step Sector to Quantitative Measurements in the Ultraviolet Region of the Baird 3-Meter Spectrograph. William M. Craig and Preston F. Gott, Texas Technological College, Lubbock.
4. The Heat of Hydrogenation of Ethyl and Vinyl Chlorides. E. Emery, J. R. Lacher, and J. D. Park, University of Colorado.
5. The Reaction of 2,4,6-Trimethylstyrene Oxide with Phenol. Cyrus O. Guss, Colorado A & M College, Ft. Collins.
6. The Reaction of Diphenylethylene Oxide and Stilbene Oxide with 2-Naphthol. Cyrus O. Guss and Rudolph Rosenthal, Colorado A & M College.
7. Further Studies of Anomalous Alkylations of β -Ketoesters. Sara Jane Rhoads, Rebecca Raulins, and Rosalie D. Reynolds, University of Wyoming.
8. Some New Diels-Adler Reactions of Ethylene. John S. Meek, Samuel Shore, and Viviane Godefroi, University of Colorado.
9. Critical Ultracentrifuge and Viscosity Studies on Crystalline Bovine Plasma Albumin. Virgil L. Koenig and J. D. Perrings, Los Alamos Scientific Laboratories, University of California, Los Alamos, N. M.
10. A Controlled Differential Adiabatic Jacket for Fractional Distillation Columns. J. A. Hancock, Texas Western College, El Paso.
11. An Investigation of the Effects of Calcium and Potassium Ions on Lipid-Water Emulsions. Patricia Fain, Joe Dennis, and F. G. Harbaugh, Texas Technological College.
12. Syntheses of Two Monobromo-Hexachloro Derivatives of Dimethanonaphthalene. Stanley J. Cristol and John R. Douglass, University of Colorado.
13. Hyaluronidase in Tissues of Normal and Tumor Experimental Animals. Fred C. Freytag, Gerald F. Lanchantin, Louis R. Fina, and Irene Rosenfeld, University of Wyoming.
14. The Identification and Isolation of Chlorogenic Acid from Potatoes. Gestur Johnson, D. K. Johnson, and L. A. Schaal, Colorado A & M College.
15. Preparation and Properties of Some New *N*-Bromo Perfluoramides. W. Lycan, J. D. Park, and J. R. Lacher, University of Colorado.
16. A Spectrophotometric Study of Benzoic Acid and Esters. H. E. Ungnade and R. W. Lamb, New Mexico Highlands University, Las Vegas.
17. The Development of a Microsynthesis of Aldrin for Radiocarbon Labeling. Stanley J. Cristol and Robert E. Krall, University of Colorado.
18. Polycythemia in Rats. II, Effect of Histidine. Constance White and Essie White Cohn, University of Denver.

19. Polycythemia in Rats, III, Effect of Cysteine. Norman Cowden and Essie White Cohn, University of Denver.
20. A Comparative Study of the Production of Polycythemia in Male and Female Rats. Gavin Mallett and Essie White Cohn, University of Denver.
21. Studies on the Metabolism of Phosphorus *in vivo* by the use of P³². Irene Rosenfeld and O. A. Beath, University of Wyoming.
22. The Oxidation of Indium Trisulfide. M. F. Stubbs, New Mexico Institute of Mining and Technology, Socorro.
23. A Study of the Sensitized Reaction between Water and Oxygen in the Presence of Zinc Oxide: The Function of Methyl Alcohol in Increasing the Steady State Concentration of Peroxide. John Lloyd Pflug and C. Robert Hurley, University of Denver.
24. The Identification of Aldehydes by Means of the Crystallographic and Optical Properties of their Semicarbazones. Edwin R. Hughes and Bartlett T. Dewey, Eastern New Mexico University, Portales.
25. Quantitative Aspects of Paper Chromatography. R. C. Salander, M. Piano, and A. R. Patton, Colorado A & M College.
26. The Infrared Absorption Spectra of some Pyrimidines in the NaCl Region. D. Emery, J. R. Lacher, and J. D. Park, University of Colorado.
27. The Infrared Absorption Spectra of some Pyrimidines in the LiF Region. J. Ito, J. R. Lacher, and J. D. Park, University of Colorado.
28. The Heats of Bromination of some Fluoro-olefins. L. Casali, K. Lea, J. R. Lacher, and J. D. Park, University of Colorado.
29. The Infrared Absorption Spectra of some Amino Acids. A. Kianpour, J. R. Lacher, and J. D. Park, University of Colorado.
30. The Ages of Two Minerals from the Pecos, New Mexico, Region. O. B. Muench, New Mexico Highlands University.
31. The Reaction of some Fluorinated Olefins with Alkanols. Paul W. Trott, J. D. Park, and J. R. Lacher, University of Colorado.
32. Arsenic Determination in Organic Nitrogen Compounds. William C. Stickler, University of Denver.
33. Osazone Formation. William C. Stickler, Herbert D. Hart, and Peter Yin, University of Denver.
34. Vapor Pressure Studies on Cyclohexene. Lester A. Michel and Margaret Sykes Grill, Colorado College, Colorado Springs.
35. A Study of the Natural Occurrence of Hydrogen Peroxide in Untreated Water. William Culbertson, Jr., and C. R. Hurley, University of Denver.
36. The Effect of Histamine on the Respiration of Rat Brain. Harold C. Heim, University of Colorado.
5. Strength of Timber under Continued Loading. M. W. Jackson, University of Colorado.
6. Water Evaporation Rates from Triethylene Glycol-Water Solutions. Arthur Hasenkamp, University of Denver.
7. Improving Efficiency of Primary Sewage Treatment Plant. R. E. Leffel, University of Colorado.
8. Theory and Analysis of Applied Cybernetics. Geoffrey Post, University of Denver.

PHYSICS SECTION

1. The Curie Point for Nickel. W. B. Pietenpol, University of Colorado.
2. Effect of Temperature Changes on BF₃ Neutron Counters. Aurel Goodwin, Jr., University of Denver.
3. Meteorological Effects on Cosmic Ray Components. Mario Iona, University of Denver.
4. Further Barometric and Temperature Coefficients for Small Cosmic Ray Bursts. James W. Broxon, University of Colorado.
5. Altitude Effect on Cosmic Ray Fine Structure. Dana T. Warren, Colorado A & M College.
6. Constant of Gravitation with the Eotvos Balance. Paul A. Rodgers, Colorado School of Mines, Golden.
7. What Systems of Units Should Be Taught to Undergraduates? Paul F. Bartunek, Colorado School of Mines.
8. Values of Forty-First to Fiftieth Powers of π to Seventy Decimal Places. Vladimir P. Lubovich, University of Colorado.
9. Eclipse Observations of the Solar Chromosphere. J. W. Evans, High Altitude Observatory, Boulder.
10. A Comment on Sunspot Fields and Flare Productivity. Bruno Witte, High Altitude Observatory.
11. An Electronic Isophotal Contour Densitometer. F. E. Fowler, D. S. Johnson, and D. E. Billings, High Altitude Observatory.
12. The New Solar Flare Recorder at Boulder. J. H. Rush, High Altitude Observatory.
13. The Effect of Self-Diffusion on Measurements of Nuclear Magnetism in Liquids. John K. Wood, University of Wyoming.
14. The Densichron in Raffinose Determinations. Louis R. Weber, Colorado A & M College; R. J. Brown, Great Western Sugar Company; and Frank P. Goeder, Colorado A & M College.
15. Preliminary Studies of Photoconductivity of Cadmium Sulphide. Arthur E. Blake and Louis R. Weber, Colorado A & M College.
16. A Matrix Formulation of the Mechanics of Rigid Bodies. James H. Marable and Wesley E. Brittin, University of Colorado.
17. The Spectrographic Laboratory of Colorado A & M Physics Department. George A. Donovan and Louis R. Weber, Colorado A & M College.
18. Some Effects of Ultrasonics on Wyoming Black Oil. John K. Wood, University of Wyoming.
19. Exact Values of Factorials to 101 and Errors in Brandenburg's Mathematical Tables. Vladimir P. Lubovich, University of Colorado.
20. The Effect of Light on the Condensation of Metal Vapors. William A. Colburn, Colorado School of Mines.
21. A High Frequency Crystal Reactance Meter. Gerald S. Arthur and Virgil E. Bottom, Colorado A & M College.
22. The Amplitude-Frequency Effect in Quartz Oscillator Plates. Robert E. Newnham and Virgil E. Bottom, Colorado A & M College.

ENGINEERING SECTION

S. A. Johnson, Jr., *Chairman*

1. Instantaneous Measurement of Transient Flame Temperatures. George W. Bauserman, University of Denver.
2. Analysis of an Optimum Servomechanism. Frank C. Carpenter, University of Colorado.
3. Theory and Practice of Cloud Seeding. Archie M. Kahan, American Institute of Aerological Research, Denver.
4. Acoustical Measurements of Winds and Temperatures at High Altitudes. Lee Brogan, University of Denver.

23. The Origin of Coupled Modes in Vibrating Quartz Plates. E. Smith Murphy and Virgil E. Bottom, Colorado A & M College.
24. Variations of the Lattice Parameters of Quartz. Don Hammond and Frank P. Goeder, Colorado A & M College.
25. A Method for the Detection of a Cataract in Your own Eye. Vladimir P. Lubovich, University of Colorado.
26. Grating Spectrograph for Observation of Sky at Total Solar Eclipse. Byron E. Cohn, Marvin E. Juza, Theodore F. Maher, Frank S. Speck, James N. Brooks, and Alfred Goddard, Jr., University of Denver.
27. Spectral Solar Intensity in the Infrared. David M. Gates, Robert F. Calfee, and Byron E. Cohn, University of Denver.
28. Design of a Portable Infrared Spectrograph. James R. Shackleton, Frank S. Speck, David M. Gates, and Byron E. Cohn, University of Denver.

COLORADO-WYOMING SECTION OF THE AMERICAN ASSOCIATION OF PHYSICS TEACHERS

Paul E. Boucher, *Chairman*

1. A Laboratory Experiment on the Statistical Analysis of Geiger Counter Data. Albert A. Bartlett, University of Colorado.
2. Analogies—Origin, Reliability and Advantage. Paul F. Bartunek, Colorado School of Mines.
3. A Convenient C-bias. George A. Donovan and Louis R. Weber, Colorado A & M College.
4. A New Plane Source of Illumination. Frank P. Goeder and Louis R. Weber, Colorado A & M College.

PLANT SCIENCE SECTION

L. C. Hinckley and Edna L. Johnson, *Chairmen*

1. The Orchidaceae of Colorado. H. D. Harrington, Colorado A & M College.
2. *Phippsia algida* in the United States. William A. Weber, University of Colorado.
3. Ferns of New Mexico. Howard J. Dittmer, Edward F. Castetter, and Ora Clark, University of New Mexico, Albuquerque.
4. The Anatomy of *Lophophora williamsi* Lem. A. L. Chambers and Moras L. Shubert, University of Denver.
5. Interactions of Maleic Hydrazide and 2,4-Dichlorophenoxyacetic Acid as they Affect Skin Color in Red McClure Potatoes. Jess Fults, Merle G. Payne, and Ruth S. Hay, Colorado A & M College.
6. Results of Spray Tests for the Control of Carnation Rust. Lester E. Dickens and W. D. Thomas, Jr., Colorado A & M College.
7. Induction of Reproductive Development in Young Sugar-Beet Seedlings. John O. Gaskill, Bureau of Plant Industry, Soils, and Agricultural Engineering, Ft. Collins.
8. The Relation of Chlorogenic Acid in Potato Tubers to Scab Resistance. Lawrence A. Schaal, Colorado A & M College.
9. Ecology of a Low Hill near Ft. Chimo, Northeastern Canada. John W. Marr, University of Colorado.
10. Value of Vegetative Characters in the Identification of Grasses. H. D. Harrington, Colorado A & M College.
11. Plant Distribution Patterns in Colorado. II, The True Prairie Relict Flora. William A. Weber, University of Colorado.
12. The Herbicidal Control of Annual Grass Weeds. Roger M. Blouch, Colorado A & M College.
13. A Comparison of the Sensitivity of Young Plants of *Mimosa pudica* to Light with their Sensitivity to Touch. Oliver G. Titrud and A. E. Holch, University of Denver.
14. Some Relationships between Timber Cutting and Snow Storage in the Rocky Mountains. E. G. Dunford, Rocky Mountain Forest and Range Experiment Station, Ft. Collins.
15. Chemical Stimulation of Wound Periderm on Potato Tubers. A. O. Simonds, Lawrence A. Schaal, and Gestur Johnson, Colorado A & M College.
16. Morphology of the Vegetative Organs of *Cattelya mossiae* Parker \times *Cattelya trianaei* Linden & Reichb. f. Sam Shushan, University of Colorado.
17. A Forage Quality Classification of Short-Grass Species. G. E. Klipple, Rocky Mountain Forest and Range Experiment Station.
18. Cytospora Gummosis of Peach in Colorado. Carl E. Seliskar, Colorado A & M College.
19. The Effect of the Aster Yellows Virus on Carnation Blossoms. W. D. Thomas, Jr., Colorado A & M College.
20. Bacterial Leaf Blight—a New Disease of Onions. W. D. Thomas, Jr., Colorado A & M College.
21. Nature of Pathogenicity in Bacterial Wilt of Carnations. Oliver V. Holtzmann, Colorado A & M College.
22. Comparative Studies of the Pathogenicity of Three *Fusaria*. Oliver V. Holtzmann, Colorado A & M College.
23. Factors Affecting the Growth and Morphology of *Fusarium oxysporum* f. *betae*. James A. Twomey, Colorado A & M College.
24. Soil Treatments for the Control of Black Root of Sugar Beet. Norman R. Gerhold and James A. Twomey, Colorado A & M College.
25. Control of Purple Blotch of Onions by Sprays. Charles W. McAnelly and W. D. Thomas, Jr., Colorado A & M College.
26. Variable Sensitivity of Different Strains of *Fusarium* sp. toward Fungicides. Charles W. McAnelly and W. D. Thomas, Jr., Colorado A & M College.
27. Little Emphasized Facets of the Nitrogen Cycle. Lora Mangum Shields, New Mexico Highlands University.
28. The Action of Maleic Hydrazide on Cotton Leaves and Stems. Andrew Lopez, New Mexico Highlands University.
29. The Effects of Certain Foreign Agents, as Blood, Fat, Sputum, and Calcium Ions, on the Efficiency of a Number of Disinfectants against *Salmonella typhosa* and *Serratia marcescens*. Harold F. Cumiford, New Mexico Highlands University.
30. Formative Effects of Shale Oil on Plant Growth. Dale W. Bohmont, University of Wyoming.
31. Studies in the Fleshy Basidiomycetes of Wyoming. I. Alexander H. Smith, University of Michigan, and W. G. Solheim, University of Wyoming.
32. True Aquatic Plants of Colorado and their Comparison with the Aquatic Flora of Japan. Yoshiharu Matsumura, Colorado A & M College.

PSYCHOLOGY SECTION

JOINT MEETING WITH THE ROCKY MOUNTAIN BRANCH OF THE AMERICAN PSYCHOLOGICAL ASSOCIATION

1. A Comparison of the Rorschachs of Juvenile Auto Thieves and Juvenile Burglars. Steven M. Jacobs and E. Ellis Graham, University of Denver.
2. The Basic Personality Pattern of Delinquents. Anna Martin, New Mexico Highlands University.

3. An Adaptation of the Stanford-Binet Intelligence Test, Form M, for Use by a Blind Examiner. Walter F. Stromer and E. Ellis Graham, University of Denver.
4. Mode Flexibility as a Function of Rate of Solution Approach. Charles D. Fink and Jack R. Gibb, University of Colorado.
5. Effect of Delay on the Retention of Material Presented with Varying Amounts of Detail. Burton Meyer, Human Resources Research Laboratories, Lowry Air Force Base, Denver.
6. Two Situational Determiners of Mechanization in Problem-Solving. David T. Benedetti, University of New Mexico.
7. Substitutive and Social Solution Fantasy: Relations Between Fantasy and Behavior as a Function of the Degree of Illness in Schizophrenia. Harold Dean Blessing, University of Denver, and Donald D. Glad, University of Colorado Medical School.
8. Experimental Use of the Emotional Projection Test and the Rorschach in the Study of Emotional Changes. Curtis W. Page, University of Denver, and Donald D. Glad, University of Colorado Medical School.
9. The Validity of the Wechsler-Bellevue Intelligence Scale with Spanish-speaking College Students. Carlos F. Cortes and Lillian G. Portenier, University of Wyoming.
10. Certain Aspects of Wechsler-Bellevue Scatter in Low IQ Levels. Frederick Schnadt, VA Hospital, Ft. Lyon, Colo.
11. Sociometric Problems in Air Crews. Mario Levi, Human Resources Research Laboratories, Lowry Air Force Base.
12. MMPI Personality Patterns for Various College Major Groups. Ralph D. Norman and Miriam Redlo, University of New Mexico.
13. The Patterns of Changes in Schizophrenic Behavior during Group Therapy. Donald D. Glad, University of Colorado Medical School.
14. Changes in Schizophrenic Behavior in Group Therapy as a Function of the Type of Therapist Activity. Richard B. Hartley, University of Denver, and Donald D. Glad, University of Colorado Medical School.
15. The Schizophrenic Thematic Apperception Test Responses and Behavior in Acutely Psychotic and Social Remission Stages. Hal Keeley, University of Denver, and Donald D. Glad.
16. Relationships between Emotional Projection Test Responses and the Process of Improvement in a Therapy Group of Paranoid Schizophrenics. E. Fredrick Thompson, University of Denver, and Donald D. Glad, University of Colorado Medical School.
17. Identification and Ego Defensiveness in Thematic Apperception. Richard C. Cook, Fitzsimons Army Hospital, Denver.
18. Item Intercorrelations within the Szondi "Factors." Leonard V. Gordon, University of New Mexico.
19. Some Semantic Aspects of Memory. Elwood Murray, University of Denver.
20. The Relationships of Attitudes and Changes in Attitude toward Survival Adequacy to the Achievement of Survival Knowledge. E. Paul Torrence, Human Resources Research Laboratories, Lowry Air Force Base.
21. Job Satisfaction of Teachers as Related to Parental Occupation Level. George H. Johnson, University of New Mexico.
22. Religious Delusions in Psychosis: A Comparative Study. Warner L. Lowe, University of Denver.

SOCIAL SCIENCE SECTION AND THE COLORADO-WYOMING
SOCIAL SCIENCE ASSOCIATION

Gilbert R. Dale, *Chairman*

History

Carroll B. Malone, *Chairman*

1. Edmund Burke, A Study in Historical Criticism. D. H. Cummins, Western State College of Colorado.
2. The Adventure of Four Americans in Korea and Peking: An Incident of the Pretreaty Days. Earl Swisher, University of Colorado.
3. On Understanding American Politics. Harvey Carter, Colorado College.

Political Science

Robert W. McCulloch, *Chairman*

1. Moslem Nationalities of Soviet Hither Asia. John A. Armstrong, University of Denver.
2. The Dutch-Indonesian Union: The Failure of an Experiment in International Association. Whitney T. Perkins, University of Denver.

Sociology

Marshall E. Jones, *Chairman*

1. Our Perennial Migrant Labor Problem. Arthur Katona, Colorado A & M College.
2. Changing Social Structures in Southeast Asian Cultures. Jiri Nehnevajsa, University of Colorado.
3. Relations between British and Indians. W. E. Sikes, University of Denver.

ZOOLOGY SECTION

Robert W. Pennak and Albert R. Mead, *Chairmen*

1. A Distribution Study of Colorado Mammals, as Based Upon a Survey of Four Collections. Robert B. Lewis, Aspen, Colo.
2. Distribution of Certain Riffle Insects in a Foothills Stream with Respect to Current Velocity. Arnold Benson, University of Colorado.
3. Some Uses of Poisson Distribution in Quantifying Bird Populations and in Forecasting Censuses. John L. Chapin, University of Colorado Medical School, Denver.
4. The Effects of Cloudburst Drainage on Temperature Stratification in a Colorado Reservoir. Philip A. Busecemi, University of Colorado.
5. Notes on the Occurrence of Polydactylism in a Second Species of Amphibia in Muskee Lake, Colorado. Willard N. Rosine, University of Colorado.
6. Two New Records of Foreign Mollusks in Arizona. Albert R. Mead, University of Arizona, Tucson.
7. Some Effects of Diet on Resistance of Rats and Mice to Simulated Altitude. Owen France, University of Colorado.
8. The Ants of Colorado: A Progress Report. Robert E. Gregg, University of Colorado.
9. The Altitudinal Distribution of Ants in the Sandia Mountains of New Mexico. Willis B. Gunn and C. Clayton Hoff, University of New Mexico.
10. The Orthoptera of Dinosaur National Monument. Gordon Alexander, University of Colorado.
11. Chromosomal Variation Correlated with Geographical Distribution in *Trimerotropis suffusa* (Orthoptera). Edwin R. Helwig, University of Colorado.
12. Some Morphological Aspects of the Larva of *Myrmica brevinodus sulcinodoides* (Hymenoptera, Formicidae). Harold J. Grant, University of Colorado.

13. Cleaning Skeletal Material with Meal Worms. Lowell E. Swenson, University of Colorado Museum.
14. A New Nycteribiid (Diptera) from a Colorado Bat. Robert M. Stabler and Richard M. Fox, Colorado College.
15. Winter Species Association Groups among Birds. Richard G. Beidleman, Colorado A & M College.
16. A Course in Techniques of Biological Literature and Nomenclature. Albert R. Mead, University of Arizona.
17. Qualitative Distribution of Aquatic Invertebrates among the Plants in Muskee Lake, Colorado. Willard N. Rosine, University of Colorado.
18. The Ponderosa-Grassland Ecotone in North Central Colorado. Richard G. Beidleman, Colorado A & M College.
19. Mosquitoes of Dry-Farming and Irrigated Areas of Southeastern Colorado and Northeastern New Mexico. C. Clayton Hoff, University of New Mexico.
20. Sand, Wind, and Plants on the Coast of Oregon. William S. Cooper, Boulder.
21. The Flora of Ponape, Caroline Islands. Sidney F. Glassman, University of Wyoming.
22. Curative Effect of Enheptin in Pigeon Trichomoniasis. Robert M. Stabler, Colorado College.
23. Lethal Mutations Produced in *Drosophila melanogaster* by the Auxin γ -indole-3-*n*-butyric acid. Chester Jekot, University of Colorado.
24. Tolerance of Excised Skeletal Muscle to X-Radiation. E. H. Brunquist and William B. Morgan, University of Colorado Medical School.
25. The Effects of some Amino Acid Analogs on the Development of the Chick Embryo *in vitro*. Ursula Rothfels, Heinz Herrmann, and Henry Klooster, University of Colorado Medical School.
26. Extirpation and Transplantation of a Tumor in the Syrian Hamster (16-mm colored sound film). Edward D. Crabb, University of Colorado.
27. "Fluid Loss" versus "Toxic Factor" in Traumatic Shock. Jay B. Wells, Harvey G. Brown, and Fred E. D'Amour, University of Denver.
28. The BMR of the Rat in Traumatic Shock. Irvin I. Kibbey and Fred E. D'Amour, University of Denver.
29. The Effect of ACTH and of Cortisone on the Survival Time of the Rat in Traumatic Shock. Fred E. D'Amour, University of Denver, and Donn L. Smith, University of Colorado Medical School.
30. Distribution of Afferent Fibers in the Vagi of the Rat. Rudolf de Luise and Fred E. D'Amour, University of Denver.
31. Seasonal Periodicity of some Phytoplankters in College Lake, Colorado. Bert O. Thomas and John R. Olive, Colorado A & M College.
32. A Precursory Consideration of the Limnology of the Rawah Primitive Area, Colorado. John R. Olive, Colorado A & M College.
33. Some Aspects of Growth and Maturity of Hereford Cattle on a Typical Southern New Mexico Range. W. E. Watkins, J. H. Knox, and Marvin Koger, New Mexico Agricultural Experiment Station.
34. Distribution of the Rh Antigen in the Spanish-American Population of Northeastern New Mexico. Robert D. Smith and John DePalma, New Mexico Highlands University.
35. The Effects of Isonicotinichydrazide (Nydrazid) on Sputum Count, Urine, Blood Picture, and Clinical Symptoms of Ten Tuberculosis Patients. Carl H. Gelenthien, Valmora Sanatorium, New Mexico, and Robert D. Smith, New Mexico Highlands University.
36. Weight Changes of Adults in an Inbred Colony of Syrian Hamsters. Marcia Frances Curry, University of Colorado.
37. Effect of Cortisone on Extramedullary Hematopoiesis in Tumor-Bearing Hamsters. Margaret A. Kellsall and Edward D. Crabb, Beta Sigma Phi Cancer Research Foundation and Department of Biology, University of Colorado.
38. The Influence of Hydroquinone on the Growth and Organogenesis of the Developing Chick. Frances Holbrook, Kayo Sunada, and L. Floyd Clarke, University of Wyoming.
39. The Ecology of the Muskrat in the Laramie Plains Area. Robert Krear, University of Wyoming.
40. Notes on the Reproductive Cycle of the Leopard Frog, *Rana pipiens*, in Southern Wyoming. George T. Baxter, University of Wyoming.
41. The Distribution of the Rocky Mountain Moose, *Alces a. shirasi*. R. H. Denniston, University of Wyoming.

Scientific Book Register

- General Biology.** 4th ed. James Watt Mavor. New York: Macmillan, 1952. 875 pp. \$5.75.
- Laboratory Exercises in General Biology.** 4th ed. James Watt Mavor. New York: Macmillan, 1952. 333 pp. \$3.50.
- Radiocarbon Dating.** Willard F. Libby. Chicago: Univ. Chicago Press, 1952. 124 pp. \$3.50.
- The Dragonflies of Southern Africa.** Transvaal Museum Memoir No. 5. E. C. G. Pinhey. Pretoria, S. Africa: Transvaal Museum, 1951. 335 pp., incl. 46 plates.
- The Lipids: Their Chemistry and Biochemistry: Chemistry.** Vol. I. Harry J. Deuel, Jr. New York-London: Interscience, 1951. 982 pp. \$18.50.
- Electrical Measurements.** Forest K. Harris. New York: Wiley; London: Chapman & Hall, 1952. 784 pp. \$8.00.
- Under the Sea-Wind: A Naturalist's Picture of Ocean Life.** Rev. ed. Rachel L. Carson. New York: Oxford Univ. Press, 1952. 314 pp. \$3.50.
- Geologic Guidebook of the San Francisco Bay Counties: History, Landscape, Geology, Fossils, Minerals, Industry, and Routes to Travel.** Olaf P. Jenkins, Ed. San Francisco: State of California, Division of Mines, 1951. 392 pp. \$2.50.
- A Textbook of Orthopedics.** With a section on neurology in orthopedics. M. Beckett Howorth. Philadelphia-London: Saunders, 1952. 1110 pp. \$16.00.
- Nuttall's Travels into the Old Northwest: An Unpublished 1810 Diary.** Jeannette E. Graustein, Ed. Waltham, Mass.: Chronica Botanica, 1952; New York: Stechert-Hafner. 88 pp.; 12 plates. \$3.00.
- The Stars: A New Way to See Them.** H. A. Rey. Boston: Houghton Mifflin, 1952. 143 pp. \$4.00.
- Chemical Calculations: An Introduction to the Use of Mathematics in Chemistry.** Sidney W. Benson. New York: Wiley; London: Chapman & Hall, 1952. 217 pp. \$2.95.