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THE DURHAM MEETING OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Edited by DR. F. R. MOULTON

PERMANENT SECRETARY

FROM June 23 to June 28 the American Association for the Advancement of Science held its one hundred eighth meeting at Durham, N. H., in connection with the celebration of the seventy-fifth anniversary of the founding of the University of New Hampshire. All the scientific sessions were held in the university buildings, which were conveniently located and excellently equipped. Most of the persons attending the meeting secured sleeping accommodations in the dormitories of the university. The special committees on arrangements were members of the university staff. At the close of the general session on the first evening the university tendered a reception to the association and its guests, and on the fourth evening

the university entertained the scientists with a concert at which Haydn's oratorio, "The Creation," was rendered by the New Hampshire Youth Orchestra under the direction of Professor Bjornar Bergethon. To an exceptional degree the university was an efficient and gracious host to the association.

At the Durham meeting six sections and twenty-one affiliated and associated societies presented programs or participated in joint programs. In addition to two general sessions of the association, the sections and participating societies held 49 sessions at which 210 formal papers were presented. Besides these formal sessions, there were several round-table discussions, eleven luncheons and dinners at most of

which addresses were delivered, thirty-four tours and excursions for scientific purposes, five demonstrations and exhibits and exhibitions of one or more of nineteen motion pictures on scientific subjects every afternoon during the meeting. Since nearly every room used for scientific sessions had to be provided with screens, projection apparatus and operators, and since precise arrangements had to be made for every luncheon, exhibit, dinner, demonstration and excursion, the duties of the local committee were heavy. Under the general chairmanship of W. C. O'Kane, Harry West was in charge of providing lanterns and screens, John C. Rowell looked after housing on the campus and in hotels of neighboring towns, J. T. Kangas assisted the press in obtaining material for reports of the meeting for the daily papers, Samuel Stevens arranged for transportation, Marion Beckwith supervised preparations for recreation and entertainment and E. H. Stolworthy cared for the exhibits.

REGISTRATION

It is estimated that about 1,000 persons attended one or more sessions of the meeting, of whom 322 registered and received copies of the general program, a book of 60 pages. The general program not only contains the details of every session but is a condensed summary of the activities of the meeting which is often useful for future reference. After meetings of the association have adjourned the office of the permanent secretary supplies to members, free of charge, copies of the general programs, upon request, until they are exhausted.

The distribution by states of the registrants at the Durham meeting was as follows: California, 1; Colorado, 1; Connecticut, 23; Delaware, 2; District of Columbia, 13; Florida, 2; Illinois, 6; Indiana, 3; Iowa, 1; Kansas, 2; Maine, 19; Maryland, 6; Massachusetts, 70; Michigan, 7; Minnesota, 1; Montana, 1; Nebraska, 1; New Hampshire, 34; New Jersey, 11; New York, 46; North Carolina, 1; Ohio, 9; Pennsylvania, 23; Rhode Island, 8; South Carolina, 1; Vermont, 23, and Wisconsin, 1. In addition, there were 6 registrants from Canada, making a total registration of 322.

SCIENTIFIC SESSIONS

SECTION ON MATHEMATICS (A)

(From report by T. R. Hollcroft, secretary pro tem.)

The section held two sessions, at each of which two papers were presented, followed by discussions. At the first session, H. L. Slobin, presiding, Norbert Wiener delivered an address on "Statistical Mechanics," in which he presented results achieved jointly by himself and Aurel Wintner. He explained a means of deducing a measure in the space of distribution of

points, such as the molecules of a gas, from density functions of n -ads of such particles. The second address at the first session, by Deane Montgomery on "Topological Transformation Groups in Euclidean Spaces," was a summary of recent results on finite groups of homeomorphisms obtained by Neuman and Smith and on transformation groups by Montgomery and Zippin.

At the second session, C. R. Adams presiding, Garrett Birkhoff delivered an address on "Vector Lattices," in which he used order in place of distance in defining the properties of function spaces, at least for the notions of boundedness, completeness, convergence, linear transformations and conjugate spaces. The final paper of the program of the section was by D. C. Lewis, Jr., on "Some Recent Researches on the Coloring of Maps." The number of ways a map can be colored in λ colors is a polynomial in λ called the *chromatic polynomial* associated with the map. It was shown that there are more appropriate methods of studying chromatic polynomials than the Kempe chain method, and that the Kempe chain method may be modified so as to give quantitative, as well as qualitative, results.

AMERICAN METEOROLOGICAL SOCIETY

(From report by Charles F. Brooks, secretary)

At the two sessions of the society on Wednesday, June 25, twelve papers were presented which together constituted a fairly complete discussion of the climate of New England in all its phases. A number of new studies were presented, including work being carried out on Mount Washington. Papers were presented by D. L. Arenberg, H. I. Baldwin, A. C. Bemis, A. E. Bent, C. F. Brooks, D. H. Chapman, J. H. Conover, V. A. Conrad, K. O. Lange and E. Sable. The society conducted an excursion to the summit of Mount Washington to visit the meteorological observatory maintained there. Attendance, 40.

SECTION ON GEOLOGY AND GEOGRAPHY (E) AND GEOLOGICAL SOCIETY OF AMERICA

(From report by Allyn C. Swinnerton, secretary)

The section and the society held three joint sessions for the presentation of twenty-five papers and conducted two field excursions. The program was organized by Howard A. Meyerhoff, retiring secretary of the section, and W. Elmer Ekblaw, representing the Association of American Geographers. The University of New Hampshire, through its department of geology, joined in sponsoring both the sessions for presenting papers and the field excursions. About 140 persons attended the sessions or participated in the excursions.

On Monday afternoon, June 23, nine papers were

presented on the "Bed-Rock Geology of Northern New England," ranging geographically from Maine to Vermont and from the Canadian border to northern Massachusetts. Three of the papers were preparatory for the White Mountains excursion.

On Tuesday morning seven papers dealt with "Recent Glacial Research in New England," and with recent coastal changes. The Tuesday afternoon sequence of papers presented the many sides of New England's geographic problems from mineral resources to recreational facilities, from soil conservation and grassland vs. forest economy to village planning.

On Wednesday a party of 54, under the leadership of G. W. White, A. S. Carlson, D. H. Chapman and J. W. Goldthwait, examined the geographic and glacial features of the Coheco valley, the coastal lowland and the shore features in the vicinity of Durham. Considerable discussion was provoked on the subjects of the building of the kame terraces and the nature of the glacial recession.

A cavalcade of 22 automobiles, carrying over 60 persons, left Durham on Thursday morning to begin a three-day geological excursion through the White Mountains. The ring-dike structures of the Belknap and Ossipee Mountains were examined on the first day under the direction of M. P. Billings and A. W. Quinn. On Friday the party ascended Mount Washington. During the day R. P. Goldthwait pointed out the glacial features, and under Billings's direction the mountain-forming Littleton schist was examined. Later in the day the rocks on the east and north sides of Mt. Washington were studied. On Saturday, under the direction of C. A. Chapman and Katharine Fowler-Billings and with the assistance of R. W. Chapman, the party, still numbering over 50, investigated the Ordovician and later meta-sediments and the dome structures of the Oliverian magma series on the western flank of the White Mountains. A worthwhile feature of the excursion was the informal conferences on Thursday and Friday evenings, at which the discussions ranged from the mechanics of intrusion of ring-dikes and magma sheets and domes to the deformation and metamorphism of the rocks of the White Mountains.

The three-day excursion afforded an opportunity to view systematically and intelligently one of the most complicated mountain structures in the world, and the large party expressed unanimous and enthusiastic approval of the tour. The success of the field trip can be attributed largely to the careful planning of the geological itinerary by M. P. Billings and to the arrangements for accommodations made by G. W. White.

AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS

(From report by Ernest N. Cary, secretary)

The society presented a symposium on "Laboratory Procedures in Studies of the Chemical Control of Insects" in four sessions on Wednesday and Thursday, June 25-26, at which eleven formal papers were presented, each paper being followed by formal and informal discussions. The first paper of the symposium was an introduction of its whole subject by W. C. O'Kane, followed by discussions of three topics on "Rearing Test Insects," the leaders of which were H. A. Waters, H. H. Shepard and F. L. Campbell. The second session consisted of discussions of "Stomach Insecticides" and "Contact Insecticides, including Ovicides," the leaders of which were Roy Hansbury and C. H. Richardson. For the third session the subjects were "Fumigants" and "Aerosols." The leader of the discussions of the former of these subjects was R. T. Cotton; the leaders for the latter were L. D. Goodhue and W. N. Sullivan. The subjects for the final session were "Fabric Protectors," "Attractants and Repellants" and "Termite Soil Poisons." The leaders of the discussions of these subjects were, respectively, F. W. Fletcher, V. G. Dether and W. E. McCauley. Attendance, about 130.

BOTANICAL SOCIETY OF AMERICA

On Tuesday evening, June 24, the systematic section of the society held a joint session with the American Society of Plant Taxonomists for a round-table discussion of "The Floras of Northeastern North America" under the leadership of W. H. Camp. On Wednesday afternoon the physiological section of the society joined with the American Society of Plant Physiologists in a round-table discussion of "Auxins and their Relation to Growth in Plants." The leaders in the discussions were Kenneth V. Thimann, Folke K. Skoog and George S. Avery, Jr. On Wednesday the societies joined with other societies in a dinner for all botanists.

AMERICAN PHYTOPATHOLOGICAL SOCIETY

(From report by Frank L. Howard, secretary)

The society held ten sessions, three for the presentation of formal papers and the remainder for tours and inspections of laboratories and experiment stations. The meeting of the society began on Tuesday, June 24, with a visit to Bartlett Tree Research Laboratories, Stamford, Conn., with a program which consisted partly of papers and partly of demonstrations, followed by a complimentary dinner by the Bartlett Company. On Tuesday afternoon the society made a tour of Yale University. In the evening the

Connecticut Agricultural Experiment Station in New Haven held open house, under the leadership of J. G. Horsfall, to the society and its guests. After an address of welcome by W. L. Slate the new greenhouses and their equipment and work were exhibited.

On Wednesday morning the society divided into two sections, the first of which made a tour of the Forest Pathology Laboratory of the U. S. Department of Agriculture, the Yale Forestry School, an example of forest fire damage, and the researches of A. H. Graves on chestnut blight. The second section inspected chemotherapy for Dutch elm disease, organic fungicides for apple scab, and a new type of power duster at the Experiment Station Farm at Mt. Carmel, Conn. After a luncheon at Sleeping Giant State Park, the society, under the leadership of P. J. Anderson, made a tour of the Tobacco and Vegetable Substation at Windsor, Conn., and examined demonstration plats for control of cabbage club root. The evening was devoted to a business meeting of the society, a session for the presentation of short papers and a discussion of tobacco diseases and insects.

On Thursday morning the society made a tour through shade tobacco fields of Windsor, Conn., and vicinity, after which it proceeded to Waltham, Mass., where it had luncheon in the perennial garden of the Field Station. The afternoon was spent, under the leadership of E. F. Guba, in inspecting gardens and witnessing demonstrations of means of controlling various plant diseases, after which the society drove to Durham, N. H. On Friday the society joined with the horticulturists in inspecting the laboratories and greenhouses of the departments of botany and horticulture of the University of New Hampshire and in a field trip to the horticultural farm. Attendance, from 20 to 130.

Officers of the New England Division of the society were elected as follows: *President*, B. F. Lutman; *Vice-President*, Emil F. Guba; *Secretary-Treasurer*, M. C. Richards; *Councilor*, Frank L. Howard.

AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS

The society participated in the dinner for all botanists on Wednesday evening, June 25, and on Thursday held two sessions, the second of which was a joint session with Horticulturists of New England and Eastern Canada. A business meeting of the society was held at the beginning of the morning session, after which six papers on various subjects were presented. The afternoon program consisted of six papers.

TORREY BOTANICAL CLUB

(*From report by John A. Small, chairman of field committee*)

The program of the society consisted entirely of

field trips beginning on Sunday morning, June 22, and closing on Friday, July 4. On the morning of the first day about 75 members of the society ascended Mt. Monadnock and in the afternoon, under the guidance of H. I. Baldwin, visited the Caroline A. Fox Research and Demonstration Forest at Hillsboro, N. H. On Monday afternoon the society joined with the Ecological Society of America, under the leadership of C. F. Jackson and Albion Hodgdon, in a trip to Spruce Hole and Cedar Swamp. On Tuesday the same societies joined under the same leadership in a trip for the study of York County (Maine) flora. On Wednesday the societies took a trip through the White Mountains and on Thursday they ascended Mount Washington, holding en route an informal symposium on the ecology on an alpine zone (report of Ecological Society of America). After spending Friday in further exploration of the Mount Washington region, the society transferred its activities to Maine for seven days, during which it visited a sporting camp and camping grounds in Maine woods, ascended Mt. Katahdin and continued to Eastport and examined the raised bogs and coast vegetation of Washington County. The Maine tour, under the leadership of F. H. Steinmetz and his colleagues of the University of Maine, closed on July 4 with a visit to Mt. Desert Island and Acadia National Park.

AMERICAN SOCIETY OF PLANT TAXONOMISTS

On Tuesday evening, June 24, the society held a joint session with the Botanical Society of America and participated in the field trips of the Torrey Botanical Club, which are reported above.

AMERICAN FERN SOCIETY AND SULLIVANT MOSS SOCIETY

The societies participated in the field trips of the Torrey Botanical Club.

NEW ENGLAND BOTANICAL CLUB

The society held field meetings on Thursday and Friday, June 26-27, under the leadership of A. R. Hodgdon. The region visited was the western part of Strafford County, N. H., and the adjacent parts of Merrimaack County.

ECOLOGICAL SOCIETY OF AMERICA

(*From report by W. J. Hamilton, Jr., secretary*)

The society participated in the field trips of the Torrey Botanical Club and organized a symposium on "Mount Washington (alpine) Ecology," consisting of a paper on "Weather and Climate" by Charles F. Brooks, a paper on "Glacial Geology" by Richard F. Goldthwait, two papers on alpine flora by Stuart R. Harris and A. J. Grant and three papers on alpine fauna by C. F. Jackson, Maurice Provost and C. P.

Alexander. The last paper on the program was "Mountaineering Photography," by H. Bradford Washburn. Attendance, 58.

NATIONAL ASSOCIATION OF BIOLOGY TEACHERS

(*From report by Fletcher J. Proctor, program chairman*)

On Wednesday, June 25, the society held two sessions at which seven papers were presented. In addition to papers on the content of courses in biology and methods of teaching, Charles J. Lyons, of Dartmouth College, presented a paper on "Some Old New England Diaries (Tree Rings)," and C. C. Little, of Jackson Memorial Laboratory, presented one on "Cancer." About 70 persons attended the sessions of the society.

SECTION ON PSYCHOLOGY (I)

(*From report by E. G. Ekdahl, secretary pro tem.*)

The section held two sessions on Thursday, June 26, at which seven papers were presented, with an attendance of about 45 persons. A paper on "German Military Psychology and Recent Trends in American Psychology," by H. L. Ansbacher, and another on "Dynamic Factor in Nationalism," by Ross Stagner, attracted exceptional attention. An important paper on an entirely different type of subject was "Stronger Relation between Adaptation and Intensity in After Images of the Control Area of the Retina," by Theodore Karkowski. The audience was fascinated by the reading of a paper by Michael J. Supa from a manuscript written in Braille. Other papers were presented by Clarence Young, Harold Schlosberg and Howard Kingsley. The opportunities for full presentation of papers and discussions of them afforded by a program not crowded by many papers were greatly appreciated.

SECTION ON SOCIAL AND ECONOMIC SCIENCES (K)

(*From report by George A. Lundberg, secretary pro tem.*)

Beginning on Tuesday morning, June 24, the section held two sessions on each of three successive days before which twenty-eight papers were presented. The general subject for the first two sessions was "The Second Colonization of New England." The papers in these two sessions, C. C. Zimmerman and A. M. Myhrman, *chairmen*, were devoted to such subjects as the Irish, the French Canadians and the Italians in New England, and the social, economic and ecologic problems connected with the arrival of these peoples. The speakers were Allen R. Foley, William R. Gordon, George C. Homans, Charles P. Loomis, A. M. Myhrman and John A. Rademacker, A. J. Newman, Irene B. Taeuber, Nathan L. Whetten, W. E. Whyte

and C. C. Zimmerman. The general subject of the third session was "Ecological and Demographic Aspects of the New England Area," which was discussed by Stanley D. Dodge, Samuel Koenig and Conrad Arensberg. George A. Lundberg was chairman.

The fourth session, Charles W. Coulter, *chairman*, was devoted to five papers on "Social Organization and Public Policy," the speakers being Philip M. Marston, Errol C. Perry, Thorsten V. Kalijarvi, Lashley G. Harvey and Edgar C. McVoy. The general subject of the fifth session was "Typical Problems of the New England Area; People and Resources," on which papers were presented by D. C. Babcock, Ruth J. Woodruff, Harry W. Smith, J. C. Blum and J. E. Bachelder. The final session, with George A. Lundberg *chairman*, considered "Social Welfare in New England" in papers by Charles Chakerian, Walter McKain and Lincoln Fairley. About 50 persons attended the sessions of the section. On Thursday evening the section held a joint dinner with the American Society of Agronomy at which H. H. Bennett, chief of U. S. Soil Conservation Service, delivered an address on "Soil Conservation in the Northeast."

THE NATIONAL SOCIAL SCIENCE HONOR SOCIETY, PI GAMMA MU

The society held a luncheon on Tuesday, June 24, at which brief addresses were delivered by S. Howard Patterson, president of the society, LeRoy Allen, secretary, and Governor Blood of New Hampshire. The society sponsored a general session of the association in the evening at which F. R. Moulton delivered an address on "Our Social Order." S. Howard Patterson presided and introduced the speaker. Attendance, about 225.

SECTION ON MEDICAL SCIENCES (N)

(*From the report of Malcolm H. Soule, secretary*)

The section held two sessions on Tuesday, June 24, at which twenty-one papers were presented, of which more than half were contributions by members of the faculty of the University of Vermont College of Medicine. Several papers were in important fields of experimental medicine, such as the tolerance of sugar by human subjects after different administrations of glucose, the effect of cystine on human milk production and the influence of glucose on the absorption and toxicity of sulfapyridine. Others involved experiments with lower animals. Two papers were on heart diseases. Several were concerned with infections and the germicidal efficacy of certain compounds. One was on neuro-muscular mechanisms in skeletal muscle contractions. The variety and importance of the subjects discussed were so great that the programs of the section attracted an audience of 97 persons.

AMERICAN DIETETIC ASSOCIATION

(From report by Beula B. Marble, program chairman)

The society held two sessions on Thursday, June 26, at which six papers were presented. The audiences of 125 and 150, respectively, were drawn from every one of the New England states and included representation of at least twenty professional and related groups, such as dietetic and home economics associations and public health, nursing, pediatric and educational agencies. Miss Mary E. Foley presided at the first session, Miss Helen F. McLaughlin at the luncheon and Miss Dorothy Duckles at the second session.

AMERICAN PSYCHIATRIC ASSOCIATION

(From report by Arthur H. Ruggles, chairman)

On Thursday, June 26, the society presented a symposium on "The Psychiatric Aspects of Civilian Morale" under the chairmanship of Arthur H. Ruggles. The five papers on the program discussed psychiatric aspects of civilian morale as related to children, the aged, industry, the community and the general public. The contributors were Douglas A. Thom, A. Warren Stearns, Lydia G. Giberson, George K. Pratt and Samuel W. Hamilton. The attendance was about 30.

AMERICAN SOCIETY OF AGRONOMY, NORTHEASTERN SECTION

(From report by Ralph W. Donaldson, secretary-treasurer)

The society held a regional grassland conference beginning on Wednesday morning, June 25, and continuing until Friday afternoon, with an attendance of about 100. The program consisted of three sessions for the presentation of papers, four field trips and a joint dinner with the Section on Social and Economic Sciences, at which H. H. Bennett delivered an address on "Soil Conservation in the Northeast." At the first formal session, Dr. Fred Engelhardt, president of the University of New Hampshire, delivered an address of welcome, which was followed by three scientific papers. Six papers were presented at each of the two following sessions. The field trips were to the grass nursery on the O'Kane farm, the Angell farm, Chesley pasture, the farm of Frances Peaslee, Northwood Ridge, the Livingston farm and the R. N. Johnson farm, at each of which the results of experiments in grassland farming were exhibited. About 80 persons participated in these field trips.

SOCIETY OF AMERICAN FORESTERS

(From report by Henry Clépper, secretary)

Beginning on Tuesday morning, June 24, the so-

cietty held six sessions at which twenty-seven papers were presented and which were attended by about 140 persons. The formal program consisted of four symposia: "Forest Insects and Diseases," presented in two sessions under the chairmanship of H. B. Peirson; "Forest Fire Control," presented in two sessions under the chairmanship of Austin Wilkins; "Forestry and National Defense," presented in one half-day session under the chairmanship of John H. Foster, and "Forestry and Rural Economy," presented in one half-day session under the chairmanship of Clifford Graham. The society held a business meeting and dinner at Hampton Beach, N. H., on June 25, under the chairmanship of C. S. Herr, at which Henry Schmitz was the speaker. On June 26 about 75 members and guests of the society took a field trip to the Manchester (N. H.) waterworks forest. One of the interesting events of the meeting was a demonstration by the U. S. Bureau of Entomology and Plant Quarantine of dusting for the control of the gypsy moth with the autogiro.

HORTICULTURISTS OF NEW ENGLAND AND EASTERN CANADA

(From report by A. F. Yeager, secretary pro tem.)

On Thursday morning, June 26, the horticulturists met in three sections for a round-table discussion on "Body Stocks of Apple Trees," led by J. N. Waring; a round-table discussion on "Experimental Work in Floriculture," led by H. E. White, and a conference on "Home Vegetable Gardens in New England," led by J. R. Hepler. The society held one joint session with the American Society of Plant Physiologists, visited the University of New Hampshire greenhouses and field plots with the American Phytopathological Society and visited neighboring commercial orchards, vegetable areas, the carnation breeding house of Mr. Sims and other points of interest.

SOCIETY OF SIGMA XI

(From report by George A. Baitzell, secretary)

The society held a luncheon on Thursday, June 26, which was attended by about 25 members. Brief addresses were delivered by Edward Ellery, president of the society, and George A. Baitzell.

HONOR SOCIETY OF PHI KAPPA PHI

The society sponsored a general session of the association on Wednesday evening, June 26, at which Max Schoen delivered an address on "The Basis for Faith in Democracy." Lawrence R. Guild, secretary of the society, presided and introduced Dr. Schoen. The attendance was about 225.