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## THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

### PRELIMINARY ANNOUNCEMENT OF THE DALLAS MEETING

Edited by DR. F. R. MOULTON

PERMANENT SECRETARY

FROM next December 29 to January 3, inclusive, the association will hold its one hundred tenth meeting in Dallas, Texas. The Southwestern Division of the association and the Texas Academy of Science are joining with the association to make the meeting a notable scientific event in the Southwest. Fourteen of the fifteen sections of the association and two subsections will present a program, a number of which will be comprehensive symposia on subjects of current scientific importance. At these sessions the chairman of the respective sections will deliver their addresses as retiring vice-presidents of the association. In addition,

thirty affiliated and associated societies and several local Texas societies, besides numerous educational institutions, are joining in the numerous programs that have been organized.

Perhaps the prospects for the meeting in Dallas can be made clear most easily by comparing a few statistics pertaining to it with those of other meetings held in southern cities. Five previous annual meetings have been held in the South: New Orleans, 1905-06; Atlanta, 1913-14; Nashville, 1927; New Orleans, 1931-32; Richmond, 1938-39. In the following table the number of papers that will be presented at Dallas is

an estimate subject to corrections. The data for the membership of the association are as of September 30 of the respective years. The fiscal year of the association ends on September 30.

Year	Meeting Place	Papers Read	Membership
1905	New Orleans	211	4,321
1913	Atlanta	443	8,350
1927	Nashville	1,141	14,862
1931	New Orleans	1,263	19,889
1938	Richmond	1,706	19,059
1941	Dallas	1,500	21,798

It will be noted that the membership of the association decreased by more than 800 during the depression and recession years from 1931 to 1938, but that there has been a substantial increase since that time in spite of the new world war. Although the national defense effort in this country increases daily the disturbance to its normal life and adds to its tax burdens, more than one thousand new members were added to the rolls of the association during the past October, many of whom are distinguished leaders of American science, education and industry. This remarkable increase in membership is an expression of the fact that we owe to science and its applications the amazing physical and cultural advantages of our day, and of the firm conviction that science is by far the most important guarantor of our future.

At present scientists by thousands from hundreds of our educational institutions and industrial laboratories are making contributions to the national defense that admittedly are unparalleled in efficiency and importance. These voluntary contributions are nearly always made at the cost of much personal inconvenience and often with financial loss not only to the scientists but to the institutions with which they are associated. This fine feeling of responsibility to our country and to civilization will often find expression during the meeting at Dallas. In the almost equally dangerous days that will follow immediately after the close of the war, scientists, accustomed to the long view, will be a great stabilizing force until society rides on an even keel again. Since the varied interests of the association extend into nearly every worthy field of human aspirations and endeavor, it has great advantages over every other organization in serving as an integrating agency of scientific forces for effective combined action. The many thousands of members of the association should begin preparations now for making their joint influence an important steadying factor after the close of the war.

#### REGISTRATION

Registration headquarters will be on the mezzanine floor of the Baker Hotel. This hotel and the Hotel Adolphus are both serving as general headquarters for the meeting and are within five blocks of the buildings where two thirds of the general and scientific

sessions of the meeting will be held. The Jefferson Hotel is about eight blocks from registration headquarters and Southern Methodist University is about four and one-half miles distant. A visible directory of all registered persons and their Dallas addresses will be available throughout the meeting at the Baker Hotel.

Each person registering will receive a General Program of the meeting, a book of about 300 pages, which will contain complete information concerning hotel headquarters for all sections and societies, a schedule of dinners and luncheons, announcements of social features, a brief description of the science exhibition, complete scientific programs of all sections and societies, a summary of events scheduled by days, and an index of all persons appearing on the programs. Each person registering will receive also a badge and an identification card which may be required for admission to certain functions. The registration fee is one dollar.

#### HOTELS AND HEADQUARTERS

*General Headquarters:* Hotel Adolphus and Hotel Baker.

Headquarters of the Sections of the Association and of the societies meeting with the Association in Dallas are as follows, the rates quoted being for rooms with bath:

*Adolphus, Commerce, Akard and Main Sts.:* All sections of the Association, American Society of Zoologists, American Society of Parasitologists, American Phytopathological Society, Mycological Society of America, American Society of Naturalists, Genetics Society of America, American Microscopical Society, Society of the Sigma Xi, American Science Teachers Association, Gamma Alpha Graduate Scientific Fraternity, Beta Beta Beta, Honorary Biological Fraternity, American Association of Scientific Workers, the National Social Science Honor Society, Pi Gamma Mu, Inc., Metric Association. Rates: single, \$2.50-\$5; double, \$4-\$7.

*Baker, Commerce and Akard Sts.:* American Association of Physics Teachers, American Meteorological Society, Botanical Society of America, American Society of Plant Physiologists, Sullivant Moss Society, American Fern Society, American Society of Plant Taxonomists, Phi Sigma Society, Potato Association of America, United Chapters of Phi Beta Kappa, Honor Society of Phi Kappa Phi, Sigma Delta Epsilon, Graduate Women's Scientific Fraternity, Texas Academy of Science. Rates: single, \$2.50-\$5; double, \$4-\$7.

*Jefferson, Wood, Jefferson and Houston Sts.:* Limnological Society of America, Ecological Society of America, National Association of Biology Teachers, American Nature Study Society. Rates: single, \$1.50-\$4; double, \$2.50-\$6.

*Southern Methodist University Dormitories:* American Society for Horticultural Science.

## OTHER HOTELS IN DALLAS

*Ambassador*, 1312 S. Arvey St. Rates: single, \$3-\$5; double, \$3.50-\$6.

*Bluebonnet*, 1302 Commerce St. Rates: single, \$1.50-\$3.50; double, \$2.50-\$5.

*Campbell*, Elm and Harwood Sts. Rates: single, \$1-\$2; double, \$1.50-\$3.

*Cliff*, 204 E. Jefferson Ave. Rates: single, \$1-\$1.50; double, \$1.25-\$2.50.

*Dallas Athletic Club*, Athletic Club Building. Rates: single, \$2.50-\$5.

*Maurice*, 909 Main St. Rates: single, \$1-\$1.50; double, \$1.50-\$2.

*Mayfair*, 723 N. St. Paul St. Rates: single, \$1.50-\$2.50; double, \$2.50-\$4.

*Melrose*, 3015 Oak Lawn Ave. Rates: single, \$3-\$4; double, \$5-\$7.

*Sanger Apartments*, Ervay and Canton Sts. Rates: single, \$2-\$5; double, \$3-\$7.

*Savoy*, 1908 Commerce St. Rates: single \$1-\$1.50; double, \$1.50-\$2.

*Scott*, Houston and Jackson Sts. Rates: single, \$2-\$5; double, \$3-\$3.50.

*Southland*, Main, Murphy and Commerce Sts. Rates: single, \$1.50-\$3; double, \$3-\$5.

*Texas*, Jackson and Houston Sts. Rates: single, \$1.50-\$2.50; double, \$2.50-\$4.

*Whitmore*, Commerce and Martin Sts. Rates: single, \$2-\$5; double, \$3.50-\$10.

*White-Plaza*, Main and Harwood Sts. Rates: single, \$2-\$3; double, \$2.50-\$6.

## TRANSPORTATION

Although Dallas is considered by many persons to be located in a remote section of the United States, it is only about 1,900 miles from New York City and 1,050 miles from Chicago, and may be reached by trains, planes and buses. The regular round-trip railway and airplane fares to Dallas from representative cities are as follows:

	Railroad fare	Pullman (lower)	Airplane fare
Chicago .....	\$42.95	\$14.70	\$ 84.32
Cleveland .....	58.40	18.90	115.92
Denver .....	36.50	12.60	84.14
Detroit .....	56.20	17.90	108.18
Kansas City .....	22.30	9.00	49.50
Minneapolis .....	44.35	16.80	111.82
New Orleans .....	23.43	9.00	53.30
New York .....	74.00	24.70	148.68
Philadelphia .....	68.75	23.70	140.94
St. Louis .....	30.05	11.60	61.02
Washington .....	67.85	21.60	126.80

All fares are subject to the 5 per cent. Federal tax.

The railroads will arrange for through cars to Dallas from Chicago, Washington and New York, provided a sufficient number of passengers warrant such an ar-

rangement. Other passengers will change trains in St. Louis.

## EXCURSION TO MEXICO CITY

Those attending the Dallas meeting who are interested in a tour to Mexico City may arrange such an excursion with the Missouri-Kansas-Texas Railroad Company. The tour will occupy thirteen days of travel and sightseeing, the first stop being at San Antonio, Texas. Nine of the remaining days will be devoted to sightseeing and automobile trips in and around Mexico City. There is much of scenic and historic interest in the tour as it is outlined and it offers a splendid opportunity for a brief vacation following the meeting. The cost for one person for all expenses, including railroad fare and Pullman (lower berth), but exclusive of personal items, such as gratuities, wines, mineral water, etc., is \$181.18 from Dallas and return. Or arrangements can be made for the round-trip from the home city with stop-over at Dallas at a saving in fare of about \$3. Full details can be obtained by writing to the office of the railroad at 9 Rockefeller Plaza, New York, N. Y.

## OFFICIAL MEETINGS

*The Executive Committee of the Council* will meet at 4:00 P.M. on Sunday, December 28, in the Permanent Secretary's rooms in the Hotel Adolphus, and thereafter as it shall determine.

*The Council* of the Association will meet at 2:15 P.M. on Monday, December 29, in Parlor E of the Hotel Adolphus, and thereafter as it shall determine.

*The Academy Conference* will be held on Monday, December 29, in Parlor E of the Hotel Adolphus at 3:30 P.M., or immediately after the adjournment of the council. The conference will be followed by a complimentary dinner to one representative of each affiliated academy and to designated representatives of the association. The dinner will begin at 6:30 P.M.

*The Secretaries Conference* will begin with a dinner at 6:30 P.M. on Wednesday, December 31, and will be followed by the discussion program.

## ANNUAL SCIENCE EXHIBITION

The annual science exhibition will be held in the Baker Hotel from 9 A.M. on Monday, December 29, to 6 P.M. on Thursday, January 1. In general, the exhibition will be open at 9 A.M. until 6 P.M., but on Tuesday it will be open until 8 P.M.

## GENERAL SESSIONS

On Monday, December 29, at 8:15 P.M., Dr. Albert F. Blakeslee, director of the Station for Experimental Evolution of the Carnegie Institution of Washington, will deliver his address as retiring president

of the American Association for the Advancement of Science on "Individuality and Science." This session will be held in the Auditorium of the First Baptist Church.

On Tuesday, December 30, at 8:15 P.M., Dr. Edwin P. Hubble, astronomer of the Mount Wilson Observatory of the Carnegie Institution, will deliver the twentieth annual lecture under the joint auspices of Sigma Xi and the association. The title of Dr. Hubble's address is "The Expanding Universe Theory." This session will be held in McFarlin Auditorium on the campus of Southern Methodist University.

On Wednesday, December 31, at 5 P.M., Dr. Rufus B. von KleinSmid, president of the University of Southern California, will deliver the third annual Phi Kappa Phi lecture.

On Wednesday, December 31, at 8:15 P.M., Dean Christian Gauss, of Princeton University, will deliver the seventh annual Phi Beta Kappa lecture in McFarlin Auditorium, Southern Methodist University, on "Can We Educate for Democracy?"

#### ENTERTAINMENT, LUNCHEONS AND DINNERS

The Local Committee will hold a reception for the officers and members of the association and their guests in the Ball Room of the Hotel Adolphus immediately following the address of Dr. Albert F. Blakeslee on Monday evening, December 29.

The American Society of Naturalists, in cooperation with other biological societies and with the association, will hold the Annual Biologists' Smoker at 9:30 P.M. on Tuesday, December 30.

The American Association of Physics Teachers will hold a luncheon on Tuesday, December 30.

Section on Chemistry will hold a dinner on Monday, December 29.

The American Society of Zoologists will hold a dinner on Tuesday, December 30.

The American Society of Parasitologists will hold a luncheon on Tuesday, December 30.

The Botanical Society of America will hold a dinner on Tuesday, December 30.

The American Phytopathological Society will hold a dinner on Tuesday, December 30.

The American Society of Plant Physiologists will hold a dinner on Monday, December 29.

The American Society of Plant Taxonomists will hold a dinner on Monday, December 29.

The Department of Botany of the University of Chicago will hold a luncheon on Wednesday, December 31.

The Genetics Society of America will hold a luncheon on Tuesday, December 30.

The Executive Committee of the American Microscopical Society will hold a luncheon on Monday, December 29.

Beta Beta Beta will hold a luncheon on Wednesday, December 31.

Pi Gamma Mu will hold a luncheon on Wednesday, December 31.

The Metric Association will hold a dinner on Tuesday, December 30.

The American Society for Horticultural Science will hold a dinner on Tuesday, December 30.

The American Science Teachers Association will hold a luncheon on Tuesday, December 30.

The American Nature Study Society will hold a breakfast on Wednesday, December 31.

Phi Kappa Phi will hold a breakfast on Tuesday, December 30.

Gamma Alpha will hold a luncheon on Tuesday, December 30.

Sigma Delta Epsilon will hold a luncheon on Tuesday, December 30, and a breakfast on Wednesday, December 31.

(To be concluded)

## SOCIAL IMPLICATIONS OF VITAMINS<sup>1</sup>

### II

By Dr. ROBERT R. WILLIAMS

CHEMICAL DIRECTOR, THE BELL TELEPHONE LABORATORIES

But what useful lessons can humanity *en masse* draw from contemplation of this perspective of the ages? What guidance does it give him for the conduct of his racial affairs? May I suggest two points: first, that knowledge brings his significant individual physical environment immeasurably more within his command than a generation ago; second, that his inner nature remains a heritage of a very hoary antiquity

<sup>1</sup> Lecture given on the occasion of the fiftieth anniversary celebration of the University of Chicago, September 22, 1941.

which still changes only as the hills change by the slow processes of weathering. With the first, he can adventure with a hopeful intelligence; but the second he must conserve at the peril of extinction.

That man is bringing his external environment increasingly under his control can well be observed throughout the course of history. Cultivated herds and crops, houses, tools, stores of metals, coal and oil, mechanical and electrical power have made his life increasingly secure and leisureful. Almost within our