SCIENCE

	Vol.	LIX	MARCH	ı 28,	1924	No
--	------	-----	-------	-------	------	----

No. 1526

CONTENTS

The Australian Meeting of the Pan-Pacific Science	
Congress: PROFESSOR WM. E. RITTER	285
The Twenty-fifth Anniversary of the Discovery of	
Radium: DR. G. FAILLA	288
The Submerged Coastal Plain and Oldland of New	
England: PROFESSOR D. W. JOHNSON and M. A.	
STOLFUS	291
Scientific Events:	
The Commission of Intellectual Cooperation;	
Synthetic Ammonia; The Study of Earthquakes	
in the Philippines; Grants for Research by the	
American Association for the Advancement of	
Science; The Toronto Meeting of the British	
Association	293
Scientific Notes and News	296
University and Educational Notes	
Discussion and Correspondence:	
Extensive Volcanic Activity in the Middle	
Tertiary of the South Texas Coastal Plain:	
PROFESSOR THOMAS L. BAILEY. Hypersensitiv-	
ity to the Castor Bean: Dr. WALTER H. SNELL.	
Mr. Bryan and the Bishop: DR. DONALD A.	
LAIRD	299
Scientific Books:	
Humphrey on Weather Proverbs and Paradoxes:	
PROFESSOR HENRY CREW. Cretaceous Fishes of	
Brazil: Professor Edwin C. Stark's	301
Special Articles:	
Experiments with Rats on the Inheritance of	
Training: DR. E. C. MACDOWELL. The Non-	
inheritance of the Effects of Training: E. M.	
VICARI	302
The Oklahoma Academy of Science: Dr. L. B.	
NICE	304
Science News	, X

SCIENCE: A Weekly Journal devoted to the Advancement of Science, edited by J. McKeen Cattell and published every Friday by

THE SCIENCE PRESS

Lancaster, Pa. Garrison, N. Y.

New York City: Grand Central Terminal.

Annual Subscription, \$6.00. Single Copies, 15 Cts.

SCIENCE is the official organ of the American Association for the Advancement of Science. Information regarding membership in the association may be secured from the office of the permanent secretary, in the Smithsonian Institution Building, Washington, D. C.

Entered as second-class matter July 18, 1923, at the Post Office at Lancaster, Pa., under the Act of March 8, 1879.

THE AUSTRALIAN MEETING OF THE PAN-PACIFIC SCIENCE CONGRESS

THE second meeting of the Pan-Pacific Science Congress was held in Australia from August 13 to September 3, 1923. Melbourne was the meeting place for the first half of the session and Sydney for the second half. With this meeting, coming three years after the first or Honolulu meeting, it may be taken for granted that the original idea of international conferences of scientists for the purpose of dealing with problems of the Pacific region has taken shape as a definite and permanent organization. From the fact that the date and place for the third meeting has already been fixed as Japan, 1926, it may also be assumed that meetings will be held once in three years, in different countries of the region.

The thing of foremost impressiveness for all the "overseas" members was the seriousness with which the Australians regarded the congress, as indicated by what they did to make the meeting a success.

Take first the financial obligations they took upon themselves in connection with it. A fairly close estimate of what I, as one of the members, cost the country sums up to about \$600. Assuming this as the average for each of the guest members, we have the not inconsiderable total of \$60,000. Prorating this among 5,000,000 population of the commonwealth gives a per capita figure of one and two tenths cents. On a proportional basis the United States, with its population of 110,000,000, would yield \$1,320,000. What chance would there be of raising this amount were San Francisco or St. Louis, let us say, to be selected as the meeting-place of the congress?

Something about the way Australia met the expenses is interesting. It was done partly through direct appropriation by the Commonwealth government; partly through the granting of free transportation by the state governments on their state-owned and operated railway and tram lines; partly through appropriations by scientific organizations; and partly through gifts from individuals. The whole affair was managed by the Australian National Research Council.

But when the stolid matters-of-fact about money and management have been set forth, only a little has been done toward producing the evidence of the seriousness with which the congress was taken by the nation. From governors and premiers down to train

Cornell University Medical College

First Avenue and Twenty-eighth St. NEW YORK CITY

90

The first year of the course is also offered at Ithaca, N. Y., subsequent years at New York City only.

For information address THE SECRETARY

Johns Hopkins University Medical School

The Medical School is an Integral Part of the Uni-versity and is in the Closest Affiliation with the Johns Hopkins Hospital.

ADMISSION

ADMISSION Candidates for admission must be graduates of ap-proved colleges or scientific schools with at least two years' instruction, including laboratory work in chemistry, and one year each in physics and biology, together with evidence of a reading knowledge of French and German. Each class is limited to 75 students, men and women being admitted on the same terms. Except in unusual circumstances, applications for admis-sion will not be considered after July 1st. If vacancies occur, students from other institu-tions desiring advanced standing may be admitted to the second or third year provided they fulfill our requirements and present exceptional qualifications. INSTRUCTION

INSTRUCTION

The academic year begins the Tuesday nearest Oc-tober 1, and closes the second Tuesday in June. The course of instruction occupies four years and es-pecial emphasis is laid upon practical work in the laboratories, in the wards of the Hospital and in the dispensary.

TUITION

The charge for tuition is \$300 per annum, payable in three installments. There are no extra fees ex-cept for rental of microscope, certain expensive sup-plies, and laboratory breakage. The annual announcement and application blanks may be obtained by addressing the

Dean of the Johns Hopkins Medical School, Washington and Monument Sts., Baltimore, Md. Summer Work for Graduates in Medicine

Beginning Monday, June 2d, and ending Saturday, July 12th, a course in medical diagnosis, including laboratory exercises in clinical pathology and demon-strations in pathological anatomy, will be offered. The course will be limited to thirty students, fee \$100. Applications should be made to the Dean's Office.

School of Medicine

Western Reserve University

of Cleveland, Ohio

HIGH STANDARD OF ADMISSION* **RESTRICTED CLASSES** THOROUGH INSTRUCTION LARGE CLINICAL FACILITIES HIGH STANDARD OF SCHOLARSHIP

The 1924-25 session will open in the new medical building.

* Admission confined to students having academic degrees and to Seniors in Absentia.

For information address:

THE REGISTRAR

1353 E. 9TH ST.

CLEVELAND, OHIO



As designed by Professor James Kendall, of Co-lumbia University. Three liter opaque still, 500 cc transparent receiving flask. Complete as shown\$55.00

The most delicate electrical and chemical tests point to the complete insolubility of vitreosil in dis-tilled water, no other material known being its equal in resistance to the solvent action of pure water.

Obtainable through dealers or direct from

The THERMAL SYNDICATE Ltd. at 45th Street Borden Building

New York.N.Y.

BOSTON UNIVERSITY SCHOOL OF MEDICINE

ORGANIZED IN 1873

ANNOUNCEMENT

may be obtained by application to

WESLEY T. LEE, M.D., Registrar

80 East Concord Street,

Boston,

TEST OF TE

Massachusetts.

Marine Biological Laboratory Woods Hole, Mass. **Biological Material**

1. ZOOLOGY. Preserved material of all types of animals for class work and for the museum. 2. EMBRYOLOGY. Stages of some invertebrates, fishes (includ-ing Acantaias, Amia and Lepidosteus), Amphibia, Reptiles and some

mammals. 3. BOTANY. Preserved mate-rial of Algae, Fungi, Liverworts, Mosses, Ferns and Seed Plants. 4. MICROSCOPE SLIDES in

Bacteriology, Botany and Zoology. 5. LIFE HISTORIES, Germination Studies

and Natural History Groups. Catalogues furnished on application to

GEORGE M. GRAY, Curator WOODS HOLE

MASSACHUSETTS

THE MICROSCOPE

By SIMON H. GAGE of Cornell University 13th Edition, Published December, 1920 In this edition, special emphasis is put upon the Dark-Field Microscope POSTPAID, \$3.00.

Comstock Publishing Co., Ithaca, N.Y.

YALE UNIVERSITY School of Medicine

Affiliated with the New Haven Hospital and New Haven Dispensary

112TH SESSION

Reorganized on a full-time basis

Entrance Requirements: A minimum of three years (or its equivalent) of college including general biology, physics, general and organic chemistry, qualitative analysis, physical chemistry or laboratory physics, and either French or German.

ALL THE GENERAL FACILITIES OF THE UNIVERSITY ARE AVAIL-ABLE TO MEDICAL STUDENTS

As the number admitted to each class is limited, applications must be made before July I.

Dean, Yale University School of Medicine

NEW HAVEN, CONN.

NATIONAL RESEARCH COUNCIL

NATIONAL RESEARCH FELLOWSHIPS IN THE **BIOLOGICAL SCIENCES**

Post-doctorate fellowships in the Biological Sciences (Zoology, Botany, Anthropology, and Psychology) will be assigned by the Board of National Research Fellowships in the Biological Sciences for the academic year 1924-25 in the spring and late summer of 1924. The spring meeting will be held April 23rd. Appointments may date from July 1 or later. Forms of application and statement of conditions will be furnished on application by letter or by wire to the Secretary, Board of National Research Fellowships in the Biological Sciences, National Research Council, Washington, D. C.

For the benefit of those who may not have seen the notices of these Fellowships earlier, the period in which applications may be received has been extended to April 15th, but they may be sent at any time for later consideration.



Scientific Instrument Repairing

Microscopes, Balances, Galvanometers, Spectrometers, Sextants, Stereoscopic Instruments, Projectors.

Optical Instruments and Machines. Special Instruments made to order. Three years in this location. References furnished upon request. My prices are reasonable.

JAY C. RHODES

4263 8th Avenue, N.E. Seattle, Wash.

Chick Embryology

33 Hour Serial Chick

Jewell Model, MM-198 is a dissectible model in nine pieces, to show sixteen sections thru the 33 hour chick. The composite model (size 8×15 inches) may be studied as a complete series, or the individual sections can be passed around the laboratory and studied separately by the different groups of students. In a feltlined mahogany case. Price, \$59.00.

The Jewell Model Catalog describes nine embryology models. Write for your copy to-day.



The Sign of the Turtox Pledges Absolute Satisfaction

General Biological Supply House 1177-79 E. 55th St., Chicago, Ill.

