

system of three slits was made from Pyrex glass by a special method and sealed to the mid-point of the discharge tube. Between each pair of slits, tubes led off through liquid air traps to separate high-speed mercury vapor pumps. This use of separate pumps maintained a progressively increasing vacuum in the slit system and allowed the formation of an atomic ray with a minimum of general scattering. The slit system was cemented into a brass box³ containing the pole pieces and the target.

An optical surface of Pyrex glass smoked with molybdenum oxide constituted the target. Without the magnetic field, a sharply defined slate-blue line on a white (or slightly yellowish) background resulted from an exposure of an hour or less to the discharge. With the magnetic field on, the central part of the line showed a distinct separation into two branches. This effect was best observed by light transmitted through the image. When observed by reflected light from the front side, the image showed in addition an undeviated central line of much less opacity than the deviated ones. This line may be due to high velocity hydrogen molecules from the discharge tube, and is receiving further investigation. Preliminary calculations point to a probable value of one Bohr magneton as the magnetic moment of the hydrogen atom.

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AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE FALL MEETING OF THE EXECUTIVE COMMITTEE

THE regular fall meeting of the executive committee of the council of the American Association was held on Sunday, October 17, at the Pennsylvania Hotel, in Philadelphia. The forenoon session was from 10:15 to 1:30, the afternoon session from 3:00 to 6:00, and the evening session from 8:30 to 10:10. The chairman of the committee, Dr. J. McK. Cattell, presided at all sessions. Other members who took part were Doctors H. L. Fairchild, W. J. Humphreys, Vernon Kellogg, B. E. Livingston, W. A. Noyes, H. B. Ward and E. B. Wilson. President L. H. Bailey, retiring president M. I. Pupin, and Dr. F. R. Moulton were unavoidably absent from all sessions and Doctor Kellogg was obliged to leave in the late afternoon. By invitation, Dr. Rodney H. True, secretary of the Committee of One Hundred on Scientific Research, took part in the afternoon session. Dr. C. E. Mc-

Clung, chairman of the local committee for the fifth Philadelphia meeting, took part in the evening session, also by invitation. Eight members of the committee and Dr. McClung dined together at the Normandie Hotel, at the regular executive committee dinner.

The following matters received attention:

1. The permanent secretary reported that the income for the year just ended exceeds the expenditures and liabilities by over \$4,800, which is specially interesting in comparison with considerable deficits for the last three years. These deficits were due primarily to inadequacy in the locally raised funds for the annual meetings and they were cared for by the permanent secretary's general reserves. These reserves are increased this year and amount to over \$6,000.

2. It was voted that from the permanent secretary's funds available for appropriation there be set aside \$5,000 as an *emergency fund*, to be expended only on action of the council or executive committee. It is intended that this fund shall be generally maintained, being subsequently made up whenever drawn upon for special needs, as in case of an annual deficit. The new emergency fund corresponds to the item recently shown in the permanent secretary's annual reports as "emergency fund," but this item is now rendered official and its amount is fixed at \$5,000. After setting aside \$5,000 in this way, the permanent secretary's funds (September 30, 1926) comprise:

Publication fund (for publishing Proceedings volume in 1929).....	\$1,482.41
Emergency fund.....	5,000.00
Unexpended balance of special fund for Committee on Place of Science in Education (from Commonwealth Fund, of New York).....	848.93
Unexpended balance of appropriation for Committee on Annual Exhibition.....	250.00
Balance, available for expenditure.....	1,290.95

From the available funds of the permanent secretary, appropriations were made by the executive committee, at the meeting now reported, amounting to \$600, as shown farther on.

3. It was voted that each section secretary be asked to present an approximate budget of his section expenses each fiscal year, these budgets to be considered generally at the fall meeting of the executive committee, or at the annual meeting in December.

4. It was voted that the Section Committee of Section K (Social and Economic Sciences) be authorized to expend, for section expenses in connection with the approaching Philadelphia meeting, \$150 or such part thereof as may be needed, in addition to the regular allowance to every section secretary, of mile-

³ J. B. Taylor, *Phys. Rev.*, September, 1926.

age at four cents per mile for the round trip to and from the meeting.

5. Sixty-seven fellows were elected, on nominations approved by the section committees, as follows: Section B (Physics), 13; Section C (Chemistry), 4; Section F (Zoological Sciences), 6; Section H (Anthropology), 1; Section M (Engineering), 2; Section N (Medical Sciences), 41.

6. The special committee on arrangements with the *Science News-Letter* (Dr. Cattell, chairman) reported on what had been accomplished and the report was accepted, the committee being continued, to report again at the spring meeting of the executive committee. A special offer is made to members of the association, who may subscribe to the *Science News-Letter* at \$3 per year (instead of the regular subscription price, \$5). The permanent secretary reported that about ten new members have taken advantage of this offer, and about 1,200 old members. The offer was announced October 1, 1926.

7. The special committee on philological sciences in the association (Dr. W. A. Oldfather, *chairman*; Professor Mark H. Liddell, *secretary*) presented a report recommending that it be discharged, since its work appeared to have been accomplished. The report was accepted and the committee was discharged. The Linguistic Society of America has become affiliated with the association and is asked to care for the program in this subject for the Philadelphia meeting, as shown below.

8. Dr. G. H. Ashley, state geologist of Pennsylvania, was elected chairman of section E (geology and geography), on nomination of the section committee. Dr. Eugene A. Smith, who was chairman of the section, recently resigned because of press of other work.

9. The executive committee voted not to hold a summer meeting of the association in 1927.

10. The Linguistic Society of America was admitted to affiliation with the association. This society has 337 members, of which number 33 are members of the association, 15 of these being fellows.

11. The American Nature-Study Society was admitted to affiliation. This society has 261 members, of which number 47 are members of the association, 18 of these being fellows.

12. It was voted that the Linguistic Society of America be asked to prepare a program on linguistic science for the Philadelphia meeting.

13. A communication from the secretary of the Linguistic Society of America, requesting the establishment of a new and separate section on linguistics, was read and the project was discussed extensively. It was voted that this would be considered further at a subsequent time.

14. It was voted to appropriate \$300 from the

treasurer's funds, to aid the work of the Barro Colorado Field Laboratory, Panama Canal Zone, for an American Association table at that laboratory.

15. Dr. Rodney H. True, secretary of the Committee of One Hundred on Research, presented a report on the work and plans of the committee of one hundred. The report was accepted.

16. On Dr. True's suggestion, it was voted that Dr. M. M. Metcalf, secretary of the subcommittee on research in educational institutions, be asked to prepare a program for a general session for the approaching Philadelphia meeting.

17. A suggestion that the association solicit funds for the proposed bust of Louis Agassiz, to be placed in the hall of fame of New York University, was considered and it was voted that a special committee be appointed to care for this project. Dr. David Starr Jordan was named chairman of the committee and was asked to name other members.

18. It was voted that the expenses of the special committee on funds for the Agassiz bust be met from the permanent secretary's funds, to an amount not to exceed \$100.

19. A communication was presented from President Dinwiddie, of Tulane University, who reported that it seemed best not to plan on a meeting of the association in New Orleans in December, 1931. The executive committee expressed regret. No action was taken on a meeting place for December, 1931.

20. A committee on general sessions and public lectures for the annual meeting was appointed, with power to name speakers and arrange for general sessions and popular lectures at the fifth Philadelphia meeting, the committee to consist of the general secretary, the permanent secretary and the chairman of the local committee for the annual meeting, or a person named by him, and two others. On Dr. McClung's suggestion Mr. G. E. Nitzsche, of the University of Pennsylvania, was named as the third member of this committee. The remaining two members are to be named by the three already appointed.

21. It was voted that \$500 from the permanent secretary's funds, or such part thereof as may be needed, be made available for the expenses of general sessions and public lectures at the approaching Philadelphia meeting.

22. A suggestion of Dr. Ward was approved, that the general program of the annual meeting be printed on thin paper.

23. At the suggestion of Dr. Ward, it was voted that a separate leaflet be prepared to go with the general program of the annual meeting, to present the general sessions, public lectures, etc.

BURTON E. LIVINGSTON,
Permanent Secretary