Franklin Institute.

[*Proceedings of the stated meeting, held Wednesday, December 16, 1896.*]

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, December 16, 1896.

JOSEPH M. WILSON, President, in the chair.

Present, 133 members and visitors.

Additions to membership since last report, 10.

The following nominations were made in pursuance of Article VI of the By-Laws:

<i>President</i>	to serve one year,	{ JOSEPH M. WILSON, JOHN BIRKINBINE.
<i>Vice-President</i>	" three years,	W. P. TATHAM.
<i>Secretary</i>	to serve one year,	WM. H. WAHL.
<i>Treasurer</i>	" " " ,	SAMUEL SARTAIN.
	" three years,	W. O. GRIGGS.
<i>Auditors</i> {	To serve for the unexpired term of Samuel H. Needles, deceased, . . }	JOHN H. COOPER.

Managers (to serve three years).

GEORGE E. BARTOL,	F. L. GARRISON,
ARTHUR BEARDSLEY,	H. W. JAYNE,
HENRY C. BROLASKY,	LAWRENCE T. PAUL,
JAMES CHRISTIE,	HORACE PETTIT,
JOSEPH M. WILSON.	

Committee on Science and the Arts (to serve three years).

WM. M. BARR,	JOHN HAUG,	LOUIS E. LEVY,
H. F. COLVIN,	WM. C. HEAD,	D. ANSON PARTRIDGE,
THOS. P. CONARD,	WM. C. HENDERSON,	TINIUS OLSEN,
SPENCER FULLERTON,	H. R. HEYL,	SAMUEL P. SADTLER,
J. M. HARTMAN,	G. A. HOADLEY,	PAUL A. WINAND.

Vacancies on the Committee of Science and the Arts were filled by the election of A. Langstaff Johnston for the unexpired term of Wm. McDevitt, resigned, and Edgar Marburg for the unexpired term of Wm. N. Jennings, resigned.

Under a suspension of the rules, Prof. F. L. Garrison presented the following preamble and resolution, and spoke in support of them, urging that both the time and opportunity were favorable to the carrying out of the proposed enterprise :

"WHEREAS, the Franklin Institute, for several years, has been desirous of holding a public exhibition, but has been unable to do so, principally because of the want of a building of suitable character and location, available for the purpose ; and

"WHEREAS, it appears that the Franklin Institute, at this time, has the opportunity of securing, on favorable terms for such purpose, the use of the large building about to be erected at Eleventh and York Streets, Philadelphia, by the United Singers of Philadelphia, for the eighteenth annual Sængerfest, to be held in June, 1897 ; therefore,

"Resolved, That the Board of Managers of the Franklin Institute be requested to give the matter their prompt and earnest attention, with the view (should it be found feasible and expedient) of making the necessary arrangements for obtaining the use of this building, for holding a public exhibition therein, in the autumn of 1897."

The preamble and resolution were seconded by Mr. G. M. Eldridge, who strongly advocated their passage.

Prof. E. L. Elliott, of Pittsburgh, presented a paper on "The Utilization of Artificial Light." The paper treated the subject partly from the historical point of view, but chiefly with reference to the question of the proper method of securing the most efficient distribution and diffusion of the light. The practical solution of this problem by means of the "Holophane Globes," invented by Blondel and Psaroudaki, of Paris, was made the subject of an interesting demonstration.

Mr. C. Francis Jenkins, of Washington, read a paper describing his lately-devised "Phantoscope," an apparatus designed for exhibiting a series of rapidly-shifting photograph transparencies, so related to one another as to give the impression of objects in motion. At the close of his remarks, the speaker gave a demonstration of the apparatus arranged in connection with a projecting lantern.

Mr. N. Howland Brown exhibited an improved Acetylene Gas Machine, and gave a demonstration of the comparative value of this gas as an illuminant for lantern projections. The demonstrator exhibited the fact that acetylene gave nearly as bright a field as that afforded by the lime light with oxy-hydrogen gas.

On motion of Mr. Heyl, the three subjects above enumerated were referred to the Committee on Science and the Arts for investigation and report.

The Secretary in his monthly report, called attention to a very instructive exhibit illustrating the manufacture of the lately discovered compound known as "Carborundum," now largely employed in the arts as an abrasive material. He also exhibited and commented on a novel metallic flexible tube, devised by Mr. T. R. Almond, of Brooklyn, N. Y.

Adjourned.

WM. H. WAHL, *Secretary.*