Mauch. 1882.
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Bows Luch
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- Avintical odmamac Office Ylashimington Allaich $2^{2 n d}=1882$

Dear President Posers, I have prepared the circular to members and expect to send it out by tomorrow. Q confess however that the outlook for printing such a set of memoire as we should like to see at the Government Printing Office under present circuinstancee doe e not af. fear encouriaginit. The following are the difficul. ives.
I. The length of time which will necessarily elafise between
the preparation of the pafrer and its a/peacauce in print is such that we can not expect any but very elaborate researches, be things of so little importance Heat they cam not be printed eke where, to appear sin the snemoiro. is a matter of fact I do not think any improtank unpublished paper hae yet been submitted for printing.
II. The mode of doing the public printing io very nc. favorable to the regular eyeculion of any wish k. lemarece oder $8 \circ 800000$ worth of work and afficopiciatex
loo millions for ils execuion: The Public Printer can alone decide when anything is to be done and needs constant stirring up to get any particular thing taken hoed of.
III. It is very hour under any circumstances fo print a paper where the author is mot on hand to see it through the free, and confect proof. It acems absolutely necessaury that there should be some establishment, with men to s/rare, to take charge of tho printing. in order. That it should be
done. Shoued we bining rit a valume a year the mere oversight of the prese might occupry a large part of the lime of one pereon.

The nuly way \& get the Efhemeiis reqular along is by getting No printenc and a fout of tyke for ite esclubiver uses.

Oery truly youre Newnown

Profener M. c. Bogere,
Wiel yan kivalk let Prupi Gëbho see thit

## NATIONAL ACADEMY OF SCIENCES.

## REQUEST TO MEMBERS

At the annual meeting of the National Academy of Sciences in April, 1881, it was snggested that the Memoirs of the Academy might be printed at the Government Printing Office in connection with the President's Annual Report to Congress. A few short papers have been handed in by members to be printed in this way, but none have yet been submitted with the Annual Report. It being desired to test the practicabulity of the proposed plan at as early a date as possible, the President and several members of the Council have requested the Secretary to address the members of the Academy on the subject with the request that they will again present to the academy, at the coming annual meeting, all papers read at the last two meetings, which they desire to appear in the proposed Memoirs. and which have not been published elsewhere.

Very respectfully, SIMON NEWCOMB,

Home Secretary.
Washington, 1882, March 2.



















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DEPARTMENT OF THE INTERIOR,
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office of the director,
Washington, clechn,1882.
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Boston, clean.
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Your mote to llajor Powell asking whether it wield her agreeable to him to prepare ammoncal of the late ferris AX. Morgan duly received and was read to the lllajor who is having trouble with his eves again and who io
confined to the houser.
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Gith youm gaithfuck Mo B. Cagess.

OPaitical OAlmanac PRice.
Briscaun of tainigation Stang Stppiatiment. Ylashingtom Skarcte 10IF:1882?

Dear President Bogere; I have not seen on heard anything of the reprot since s sent it in live or three week ago and do not see how the corrections can be made at present. If they send you proofs you can make hem yourself in the prosfo. Aroued it not be well for you to unite to the public printer string for
proofo:
Qery truly youre
Imon Veumomb

Cresident M. B. Bogere IIr Alarlborough Sirect Roston

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To sume you time, cued Tesuhta d have verituento The uninter to seud y une feoufs.

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Preaident-M-B, Bogere
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yale cocceg,
staiffaren, Corn, Search 13,1882.

Dear Sir,
Since the death of Professor Benjamin Silliman, which occurred mon than sixteen yous ago, it has often bean suggested that sane visible and enduring monument, commemorative of his' service to the cause of science, and indicative of the high hover and esteem in which he was held by his numerous Furies, and by the quabera generally, might approx priately be placed on th proundo of yale college, the principal seat of his labors for more thou half a content. The prospect is now opened for the gratification of this desire to render enter tribute to a man to universally respected and loved. Professor golem r. Weir, Director of the yo le airt Sohove, who hor
givan Yroop of his Talent as a rcueptor, has signified his arillinguess to model, and efecute in konge, a statue of the late Profestor Lilliman, at the veny moderate cost of sevin thonsand dolcars, thoi including chemonting and enclosing, Ohir suen is not monio mese chacen one hafp Che wsual expense of a statese of thes charactev. Gorvaids chir amount, oves foier chowsund doclars have alnady been phedged. If the reneainder cou be Yledged at once, the evork wile bu ímmidiciteg incleitaken.

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Alr. ttensy C. Kingslyy, Areascurer of yale College, har kindly consented to take charge of ael contributions to the yproposed Statue, and to attend to the hesinets ar. rangements usith frofessor Cocir.
your ruply may be ad dressed to -ler. King.ley, or to either of us, while we vernain
veny respectfiely and trily yours, soanporter
fom. P Fiku
T. Thucher








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Sf m b. Rogers Es
ceres. Abas. Institute of dee Analogy
Dear sir:
se Onyecterday ok
had some conversation with one Supt. of Schools, tor Abe Alister, in regard to the relative advantages of schools for moral and inteledt val training of bop and young men. To spake derry highly of your school, in elminection with one ah Beloit in this state. - I have an airily eon, just enter ed suppose his sistuenth year, who Idecirc to place in bine one of our best schools, where I can feel shat the best of inflivences will surround him and be exerted
to form habits, which shall be the basis of the highest moral character and intellectual mirth. os would like very much to learn mos about yourschoal-its methods, line of corriculum re. Whet qualifications are required for entering it, re. Will you please send mi catalogues, and sue h informs as ron please to communicate in the subject? do the beginning of your school year in September? land would that be the best time for a student to enter it?

Pour re fly and communications will reach me if directed to me at forth Parma Monroe bo. Null., as I leave for Rochester and that place on next Ononday. Very respectfully yours Cor. Oneida \& E. Prater its.) Ohm Di. Curtis.

解useam of Comparative 器oölogy,
whr lefry ${ }^{\text {CAMBRIDGE, MASS. }}$
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# NATIONAL ACADEMY OF SCIENCES. 

## NOMINATIONS

Made at the April Session, 1881, to be voted on at the April Session, 1882.

Absent members may inscribe on a ballot the names of nominees, not exceeding five in number, and send it to the Home Secretary, Navy Department, Washington, D. C., by the day of meeting.

## A. Graham Bell.

| Proposed by-S. P. Langley, | Simon Newcomb, |
| ---: | ---: |
| J. W. Powell, | Geo. F. Barker, |
|  | Josiah P. Cooke. |

Dr. W. K. Brooks,* Johns Hopkins University, Baltimore, Md.

Proposed by-Theo. Gill, Edw. S. Morse,

Edw. D. Cope,
Sam'l H. Scudder,
S. F. Baird.

Prof. Chas. A. Goessman, Agric'l College, Amherst, Mass.
Proposed by-C. F. Chandler,
T. Sterry Hunt,
E. W. Hilgard, Geo. F. Barker, Benj. Silliman.

Wm. Henry Dall, Coast and Geodetic Survey, Washington, D. C.

Proposed by-J. E. Hilgard,
Theo. Gill, Cleveland Abbe, Chas. A. Schott.
Prof. Edward S. Dana,* New Haven, Conn.
Proposed by-Josiah P. Cook, O. C. Marsh, Francis A. Walker,

Wm. Ferrel,
S. F. Baird,

Asaph Hall,
R. Pumpelly,

Benj. Silliman,
Clarence King.

Prof. Thomas Egleston,* School of Mines, Columbia College, New York.

Proposed by-C. F. Chandler,
F. A. P. Barnard,
T. Sterry Hunt,
W. P. Trowbridge

Daniel Cady Eaton, Professor of Botany, Yale College, New Haven, Conn.
Proposed by-S. F. Baird,
H. C. Wood,

Sam'1 H. Scudder,
O. C. Marsh,

Prof. Wm. Harkness,* Naval Observatory, Washington, D. C.
Proposed by-John Rodgers,
Asaph Hall,
J. H. C. Coffin,
M. C. Meigs,

Cleveland Abbe,
S. P. Langley.

Prof. Henry B. Hill, Cambridge, Mass.
Proposed by-Wolcott Gibbs,
Geo. F. Barker,
Josiah P. Cooke,
R. Pumpelly,
C. F. Chandler.

Prof. J. W. Mallet, University of Virginia.
Proposed by-G. F. Barker,
Benj. Silliman,
C. F. Chandler,

Josiah P. Cooke,
T. Sterry Hunt.

Frederick W. Putnam, Cambridge, Mass.
Proposed by-J. W. Powell,
Geo. F. Barker,
S. P. Langley,
S. F. Baird,

Edw. S. Morse.
Prof. Chas. L. Jackson, Cambridge, Mass.

Proposed by-T. Sterry Hunt,
Josiah P. Cooke,
C. F. Chandler,

Geo. F. Barker.
R. Pumpelly,

Wolcott Gibbs.

Chas. V. Riley, President U. S. Entomological Commission, Washington, D. C.

Proposed by-Theo. Gill,
Edw. S. Morse,
T. Sterry Hunt.
J. W. Powell,

Prof. Ira Remsen, Johns Hopkins University, Baltimore, Md.
Proposed by-Geo. F. Barker,
Josiah P. Cooke,
C. F. Chandler,
Benj. Silliman,
T. Sterry Hunt,
Wolcott Gibbs.

Prof. J. J. Sylvester, Johns Hopkins University, Baltimore, Md.

| Proposed by-S. Newcomb, <br> Asaph Hall. | Wm. Ferrel, |
| :---: | :---: |
| C. S. Peirce, W. Hill. |  |

C. F. Chandler.

Prof. Nathaniel S. Shaler, Harvard College, Cambridge, Mass.
Proposed by-R. Pumpelly,
Clarence King,
T. Sterry Hunt, Sam'l H. Scudder,
J. W. Powell.

Sidney J. Smith,* New Haven, Conn.
Proposed by-Geo. F. Barker,
O. C. Marsh,
S. F. Baird,
F. A. Walker,
G. J. Brush,

Sam'l H. Scudder.
Note.-The lists of published works of nominees marked with a * are in the hands of the Home Secretary. These, however, in some cases, extend only to early in 1879.

Nominations not acted on favorably are dropped unless renewed.

## SIMON NEWCOMB,

Home Secretary
Navy Department, Washington, D. C., March 18, 1882.


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(Daan Pappi Kewceab b.
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Deav Precident Bodgere:
\& received your diepalch jist as I cvas about to put the notices to prese and have held them back according to your request. After a carefuel search of the minutes of cam firid no allusion to Drofecer Agaseiz's motion. Sbaving no tinowledge of it, othes thaw as you quote, and as Profeceor Agaceiz remembere, the queotion might ariee whether
the secretary could wilt propriety include a request extra official in the notices. Prese of certain that the request as yow mention it uar exactly what agaseiz. wants I would not heritate. But the constitution prescribes that an election for forcigos members must be conducted in the same way as for home members. Hence nominations must be made and signed at the meeting inc the usual uvayi Under thee circumstance r I do not
see clearly what seignificancer there would be in Rending names in, nov to what committee the list could be referred. o hope yow will exfulain the matter min such a way as to make it perfectly clear that of do not mit the subject from any disproition to disregard the wiehes of any one else on to interfere with his plane.

Io await for a decision upon the place of meeting would consume some tine. I do not know who in chair
man of the local commite on ivhew it will be called together. to that committee alone can decide if dose not seem to me beet to delay the nolice for ils nucertani action.

I feel that I am some. what to became for not lookout that proof a of your report were sent to you. Low did not, so far ar \& remember, express any wish to shat effect o I did not known evhen they would reach the
printer, and I supfrosed if he found any trouble he would send proofe either to ypow on to me. down very truly, Simon Venceout

Prevident Dt. B. Bogere 117 OWarlborough Sírect, Gosth, onase.
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Smithsonian Institution,
Washington, p. C., MAch. 20 the 1880
Dear Professor:
Clam happy to say that we shall be prepared 'to accommodate the National ctcaderny of Sciences in the most complete mans nev. Die tested our new room by lending if $a$ few weeks ago, to the constitute of (Ixining Engines He have an admirable auditorium, seating about five or sis hundred people, with everything nee essay in the way of committee rooms etc. Ankles in the matter of daily lunch, thew will be no occasion for any special arrangements.

She report of the ctogdemy, when preants ed, was ordered to be printed, as d knew it would be. Some one shoreld have been on hand to askefor extra copies. If there had been enough matter to fill five hundred on move pages, the order would have been given just the same Orofesiar (ImP. Doges, Yours very truly,
"Y(Marborough oft,
Boston, Mas.

## dational deadeny of Siciences.

The next annual stated session of the National Academy of Sciences will be held in Washington, D. C., commencing Tuesday, April 18, 1882, at 11 A . M.

The place of meeting will be announced hereafter.
The Council is requested to meet at $10 \mathrm{~A} . \mathrm{M}$.
At the stated session in April, 1881, the following substitute for section 5, Article IV, of the Constitution was adopted :

## Section 5, Article IV.

"Elections for membership shall be held in the following manner : Each member may inscribe on a ballot not more than five names of nominees selected from the list. Absent members may send such ballots to the Home Secretary. From the seven names receiving the highest number of votes in this preference ballot, the members present may proceed to elect new members in the following manner: At each ballot, each member present may vote for not exceeding three persons, and the person receiving the highest number of votes shall be declared elected, provided that he received two-thirds of the votes cast, and that his name appear on not less than twenty ballots; and, provided further, that the number of members of the academy be not already one hundred or over, in which case, to be declared to be elected, he must receive four-fifths of the votes cast, and his name must appear on at least twenty-five ballots.
"Should several candidates have the same minimum number of votes on the preference list, the requisite number for completing the list shall be selected from them by a two-thirds vote of the members present.
"Elections of members shall be held only at the regular stated session of each year, held in Washington, and not more than five members shall be elected at that session.
" Before, and during elections, a discussion of the merits of nominees will be in order.
" The election of members may be suspended at any time majority vote of the members present."

By this new rule, absent members have a vote in the preference of candidates, but not in their final election.

A list of candidates nominated is enclosed herewith ; also an envelope, in which the ballot for preference may be sealed, and enclosed in another envelope addressed to the Home Secretary. On the latter, the name of the sender should be endorsed. The former envelopes will be opened only by the tellers.

The attention of members who have nominated candidates, is especially called to the necessity of having a list of the published works of each nominee supplied to the Home Secretary by the day of election.

The Home Secretary has been directed by the Council to direct the attention of members to the necessity of paying their dues before voting.
The following amendment to the Constitution will come up for action as a substitute for one formerly proposed :
" A candidate for membership to the Academy must be a citizen of the United States."

Absent members may send their ballots on this amendment to the Home Secretary.

Members who intend to present communications are requested to send the titles to the Home Secretary before April 16, so that lists may be printed.

## SIMON NEWCOMB,

## Home Secretary.

Navy Department, Washington, D. C., March 20, 1882.
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Your obedcent sewant,s Pro D. Afituey

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

Boston, Mar 26 1882

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## THE AMERIGAN NATURALIST:

## A POPULAR ILLUSTRATED MONTHLY MAGAZINE OF NATURAL HISTORY AND TRAVEL.

## -Announcement For 1880-

THIS journal of popular Natural Science is published by Messrs. McCalla \& Stavely, Philadelphia, Pa., under the editorial management of Dr. A S. Packard, Jr., and Prof. E. D. Cope, with the assistance of eminent men of science. The typographical dress and illustrations which have heretofore given character to this magazine will be sustained, and it will be of a thoroughly popular nature, so as to interest the general reader as well as the young naturalist. It will continue to be a journal of science-education and for the use of science teachers.

Each number of the Naturalist contains carefully written articles on various scientific subjects, and, in addition, departments of Recent Literature, Botany, Zoölogy, Anthropology, Geology and Palcoontology, Geography and Exploration, and Microscopy. The department of Birds and Mammals is edited by Dr. Elliott Coues, U. S. A., and that of Microscopy, by Dr. R. H. Ward, of Troy, N. Y. The Department of Geography and Travels is edited by Ellis H. Yarnall, Esq. Prof. O. T. Mason will continue his monthly summaries of Anthropological News, and will edit the department of Anthropology. Arrangements have been made to report the Proceedings of Scientific Societies with great promptness. A Digest of the Contents of Foreign Scientific Journals and Transactions will also be given each month, together with the Latest Home and Foreign Scientific News.

The attention of publishers and teachers is called to critical notices of scientific books, to which especial attention will be given.

A new feature and one which will render The Naturalist most useful to American scientists and students of science, are summaries of progress made during the preceding year (1879) in different departments of science. Reviews of progress in Geology will be furnished by Prof. T. Sterry Hunt ; in Botany by Sereno Watson, Esq.; in the study of Mammals and Birds by Dr. Elliott Coues, U. S. A.; of Fishes by Prof. Theodore Gill ; of Crustacea by Mr. J. S. Kingsiey ; of Mollusca by Dr. W. H. Dall, and of other classes by the Editors; Prof. C. A. White will report on Invertebrate Polceontology; Prof. Otis T. Mason will prepare a report on progress in American Arithropology during 1879. American Geography and Explorations will be reported upon by Ellis H. Yarnall, Esq., and American Microscopy by Dr. R. H. Ward.

Original articles or notices by over fifty of our leading naturalists have appeared in the volumes for 1878 and 1879, among which occur the following names :-
Dr. C. C. Abbott, Prof. F. V. Hayden, Prof. C. Sedgwick Minot,

Mr. W. W. Bailey, Mr. E. A. Barber, Prof. W. G. Beal, Mr. A. S. Gatschet, Prof. Alfred W. Bennett, Prof. G Browne Goode, Prof. C. E. Bessey, Prof. W. K. Brooks, Hon. J. D. Caton, Dr. J. G. Cooper, Prof. E. D. Cope, Dr. Elliott Coues, Gen. J. D. Cox,
Dr. W. H. Dall, Prof. O. A. Derby, Prof. Persifor Frazer, Jr., Mr. J. H. Mellichamp, prof. C. a. White.

## Mr. Ernest Ingersoll,

 Prof. D. S. Jordan, Mr. J. S. Kingsley, Prof. Josepi Leidy Dr. Joshua Lindahl, Prof. Samuel Lockwood, Prof. O. T. Mason,Per. Sedgwick Minot, Dr. J. C. Merrill,
Dr. A. S. Packard,
Mr. Richard Rathbun,
Mr. Robert Ridgway,
Prof. C. V. Riley,
Prof. I. C. Russell,
Mr. J. A. Ryder,
Mr. C. S. Sargent,
Mr. S. H. Scudder,
Prof. F. H. Snow,
Mr. R. E. Stearns,
Mr. Lister F. Ward,
Dr. R. H. Ward,
Prof. A. G. Weatherby,
-ASUBSCRIPTION*PRICE*\$4,00\&PER\&ANNUM*IN*ADIANCED


Remittances by mail should be sent by a money-order, draft on Philadelphia or New York, or registered letter to
only rarely given honoris causa and which confers on its recipient peculiar professional privileges. Only six of the sixty-eight colleges mentioned above gave the degree of Doctor of Medicine honoris causa during the eight years covered by the Commissioner's reports. They so gave it eight times in all ; but during the same time conferred it after examination 1546 times. Only one of these institutions during the eight years conferred the degree of Doctor of Philosophy after examination.

The objections to conferring the degree of Doctor of Philosophy honoris causa apply equally to the degree of Doctor of Science. This degree is set apart for candidates in the general subject of philosophy who make special studies in the natural sciences; and the American Association for the Advancement of Science was led to include it in its resolutions from the fact that, although it is a degree which has only recently been conferred in the United States, it also has already been given honoris causa.

The Committee believe that a clear understanding of the facts on the part of the governing boards of colleges and univerisities will stay the evil so earnestly deprecated by the two Associations which they have the honor to represent. They believe also that it will be possible to maintain the integrity of the degrees of Doctor of Philosophy and of Doctor of Science only by a universal agreement on the part of colleges in the United States to abstain wholly from conferring them honoris causa. As the representatives, therefore, of their respective Associations they pray you, if the practice of giving these degrees honoris causa has arisen in the college under your control, that it shall by your authority from this time be discontinued.

John Whllams White (Chairman).
William D. Whitney.
Basil L. Gildersleeve.
Irving J. Manatt.
Charles R. Lanman.

For the American Philological Association. .
The Chairman's address is Cambridge, Mass.

George J. Brush (Chairman).
William B. Rogers.
H. Carrington Bolton.
F. A. P. Barnard.
J. P. Lesley.
F. W. Clarke.

For the American Association for the Advancement of Science.
The Chairman's address is New Haven, Conn.

March, 1882.

## From the Proceedings of the Thirteenth Annual Session of the American Philological Association, held in Cleveland, Ohio, July, 1881.

The following resolutions were presented:
"Whereas, Many colleges in the United States have in recent years conferred the degree of Doctor of Philosophy, not by examination, but honoris causa:
"Resolved, first, That this Association deprecates the removal of this degree from the class to which it belongs (namely, B.D., LL.B., M.D., and Ph.D., degrees conferred after examination), and its transfer to the class of honorary degrees.
"Secondly, That a committee of three be appointed to present this resolution to the American Association for the Advancement of Science, and to request them to co-operate with this Association in addressing a memorial to the Boards of Trustees of all colleges in the United States empowered to confer degrees, stating the objections to conferring the degree of Doctor of Philosophy honoris causa, and praying them to discontinue the practice, if it exists in the colleges under their control."

These resolutions were referred to the Executive Committee, and were subsequently returned by them with the recommendation that they be passed. They were thereupon, after some discussion, adopted. The committee was subsequently enlarged to five.

## From the Proceedings of the American Association for the Advancement of Science, Vol. xxx., Cincinnati Meeting, August, 1881.

The following resolutions were reported to the Standing Committee by a Subcommittee, with the recommendation that they be brought before the Association for action:
"Whereas, Many colleges in the United States have in recent years conferred the degree of Doctor of Philosophy, not by examination, but honoris causa:
"Resolved, 1. That this Association concurs with the American Philological Association in deprecating the removal of this degree from the class to which it belongs (viz.: B.D., LL.B., M.D., and Ph.D., degrees conferred after examination), and its transfer to the class of honorary degrees.
" 2. That a committee of six, including the President of the Association, be appointed by the Chair to co-operate with the Committee of the American Philological Association in addressing a memorial to the Boards of Trustees of all colleges in the United States empowered to confer degrees, stating the objections to conferring the degree of Doctor of Philosophy honoris causa, and praying them to discontinue the practice, if it exists in the colleges under their control."

The resolutions having been accepted by the Standing Committee, and the degree of Doctor of Science included in the recommendation, the report was submitted to the Association. The resolutions were thereupon, after discussion, unanimously adopted.

TABLE
Showing the manner of granting the Degree of Ph.D. by Seventy-nine Colleges during the years 1872-1879,

| The degree of Doctor of Phil- osophy was conferred . | $\begin{aligned} & \text { in } 1872 \\ & \text { ex. \|hon. } \end{aligned}$ |  | $\begin{gathered} 1873 \\ \text { ex. hon. } \end{gathered}$ |  | $\begin{gathered} 1874 \\ \text { ex. hon. } \end{gathered}$ |  |  |  |  |  |  |  | 1878 |  | 1879 |  | Total. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| By colleges (11 in number) conferring it only after examination | 12 |  | 17 |  | 11 |  | 9 |  | 13 |  | 21 |  | 21 |  | 18 |  | 122 |  |
| $\left.\begin{array}{l} \text { By colleges ( } 55 \text { in number) } \\ \text { giving it only homoris causa } \end{array}\right\}$ |  | . |  | 13 |  | 12 |  | 13 |  | 20 |  | 17 |  | 20 |  | 28 |  | 128 |
| By colleges (13 in number) conferring it both after examination and honoris causa | 2 | 2 | 8 | 4 |  | 3 | 3 | 6 | 5 | 6 | 8 | 2 | 11 | 12 | 16 | 7 | 53 | 42 |
| After examination | 14 |  | 25 |  | 11 |  | 12 |  | 18 |  | 29 |  | 32 |  | 34 |  | 175 |  |
| Honoris causa. |  | 7 |  | 17 |  | 15 |  | 19 |  | 26 |  | 19 |  | 32 |  | 35 |  | $\overline{170}$ |

On the other hand, during these eight years the degree was conferred after examination 175 times. The total number of colleges which so conferred it is twenty-four. Of these, thirteen at the same time gave it also honoris causa. Three of this number, however, gave it honoris causa only once, afterwards always by examination, the first nine, the second ten, and the third seventeen times. Apart from these three colleges, the degree was conferrred only seventeen times after examination by colleges which gave it also honoris causa.

Eleven of the twenty-four colleges abstained altogether from giving the degree as a mere honor. These conferred it in all 122 times. This is about 70 per cent. of the total number of 175 cases in which it was conferred after examination.

These statistics are instructive. They show that the degree of Doctor of Philosophy has been established in the United States as a professional degree; that at the same time it has been largely given as a purely honorary degree; but that in the great majority of instances this has been done by colleges which have not provided graduate courses of study in philosophy and have never conferred the degree after examination.

An inspection of the list of persons upon whom this degree has been conferred honoris causa by colleges in the United States leads the Committee to believe that a widespread misapprehension exists among Boards endowed with the power of conferring academic honors concerning its true intent and significance. It has been regarded as a compliment to be bestowed on persons perhaps worthy of honorable distinction, but possessing no technical training, no superior qualifications in philosophy. It has been regarded as an honor intermediate between the degrees of Master of Arts and Doctor of Laws. It has been conferred upon masters of high-schools and principals of academies, whose capacity to manage such institutions, however conspicuous, is nevertheless not evidence of those professional acquirements which the degree of Doctor of Philosophy ought always to signify.

To confer the degree in this manner is to misuse it and ultimately to destroy its value; but all colleges are interested in maintaining it in its integrity. It is in a pre-eminent sense the appropriate degree for teachers, a large and growing class of persons in this country. Three colleges in the United States have within the last twenty years conferred this degree after examination upon 119 different persons. Of these 75 per cent. have adopted the profession of teaching. It is reasonable to suppose that the number of colleges in the United States which within the next fifty years will establish graduate schools in philosophy will be large; and the number will constantly increase. The degree which these schools will then confer will be that of Doctor of Philosophy, and it is for the interest of all alike that its significance should not be obscured. Looking at the degree in the light of its past and future significance, the impropriety of any college conferring it otherwise than by examination is obvious. There are no sufficient reasons for conferring this degree differently from the three other professional degrees, for example, that of Doctor of Medicine, which is

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## Gentlemen :

The undersigned, a joint Committee of the American Philological Association and of the American Association for the Advancement of Science, respectfully present for your consideration the resolutions appended to this communication; and in obedience to their instructions they ask your attention to the following facts.

The degree of Doctor of Philosophy has been adopted by American colleges from the universities of Germany. The faculties in nearly all Gorman universities are four in number, - theology, law, medicine, and philosophy. The last embraces the humanities and the mathematical and natural sciences. In all respects the degree conferred in the faculty of philosophy is of equal dignity with the degrees conferred in the other faculties. In order to obtain it the candidate must first have pursued successfully the studies of the gymnasium or real-school, which correspond in the amount of study required to the ordinary American college ; must have been in residence at the university for three years; must present a thesis, which at many universities is printed; and must pass a severe examination. The degree of Doctor of Philosophy in Germany is as much a professional degree as that in Theology, Law, or Medicine.

When this degree was first transferred to this country, the conditions under which it was conferred abroad were rigidly maintained here. These conditions still exist in full force in eight or ten universities which since that time have provided courses of study in philosophy for Bachelors of Arts. But meanwhile the practice has been established of giving it honoris causa; and this practice has alarmingly increased. The statistics given in the Reports of the United States Commissioner of Education at Washington for the years 1872-1879 inclusive prove that it has been transferred from the class of degrees given on examination to the class of honorary degrees. In these eight years the degree of Doctor of Philosophy was given honoris causa 170 times. The Commissioner's list includes 415 colleges. The entire number of colleges which gave the degree honoris causa is sixty-eight. The greatest number of times the degree was thus given by any one college is twelve; the smallest, one. It is a striking fact that in 75 per cent. of these 170 cases the degree was given by colleges which had never conferred it by examination. Whereas there are many distinguished colleges on the general list, which, having no provision for conferring the degree by examination, have abstained from giving it as a mere honor.

