News and Notes

American Society of Plant Physiologists: Minutes of the Executive Committee Meeting, August 23, 1964. The meeting was called to order at 1:15 p.m. by President Melvin Calvin in Room 128, Hellmans Building, University of Colorado, Boulder. Members present were M. Calvin, S. Aronoff, B. B. Stowe, W. H. Klein, M. Gibbs, R. S. Loomis, H. E. Joham, W. T. Jackson (acting for L. H. Weinstein), and R. H. Burris. Also attending were B. O. Phinney, G. G. Laties, J. L. Liverman, A. T. Jagendorf, C. A. Price, B. S. Meyer, R. B. Salisbury, E. Epstein and S. A. Gordon. The minutes of the last meeting as published in the November, 1963, issue of PLANT PHYSIOLOGY were approved with the following corrections: The word “net” on line 13 of the second column of page 751 to be changed to “available,” and “cash reserve” on line 17 to be modified to “cash operating reserve.” Election results were announced. New officers to take office October 1, 1964 are Sam Aronoff, President; George G. Laties, Vice President; Harry Beevers, member of the Executive Committee; and Walter A. Bonner, Jr. and Paul J. Kramer, members of the Editorial Board. President Calvin announced the following appointments made during the past year. A.I.B.S. Local Committee, E. K. Bondes (chairman), A. D. Moinat and F. B. Salisbury; Barnes Award Committee, A. W. Naylor (chairman), A. H. Brown, L. Bogorad, H. J. Evans, H. J. Teas; Kettering Award Committee, A. T. Jagendorf (chairman), W. A. Arnold, J. E. Meyers; second A.A.A.S. representative, A. T. Jagendorf; International Union of Biological Sciences representative, C. S. French; A.I.B.S. representative, A. W. Galston; and Board of Trustees, Harry Beevers.

Executive Secretary-Treasurer W. H. Klein made his annual report. In summary, the membership has increased from 1952 to 1962 by 1,627 with no categories showing a decline. Nonmember subscriptions showed an increase of 48 to a total of 1,372. The Journal had a total paid circulation in all categories of 3,734.

Operating income totaled $51,456.03, whereas expenditures were $49,023.96 for a net gain of $2,432.07. Nonetheless, costs are rising at a such a rate that the augmentation of income is not keeping pace. In particular, extrapolation of the mushrooming costs of the Journal make it clear that we can anticipate a deficit of about $15,000.00 next year if the Journal is to continue publishing all acceptable papers. The choice appears to be either to curtail the Journal to slightly more than half its present size and some quality, or to find a source of additional money which this year needs to be at least $15,000.00. Proposals to solve this problem are made by the editor in his report below. Another related problem is that the administrative chores of the Society have reached a level such that it is becoming increasingly difficult to rely on largely voluntary or unskilled labor. If the Society wishes to continue its growth, it is clear that in the near future adequate salaries will have to be paid skilled personnel for full-time work.

Last year's action concerning transfer of $6,000.00 of accumulated available income to the Stephen Hales Award endowment and an equal amount to the cash operating reserve account proved adequate in maintaining these items at an appropriate level. Because of the restrictions placed upon the budget by the new amendment to the constitution, Secretary-Treasurer Klein proposed the establishment of a contingency fund from this year's $2,432.07 net profit. This would be available for disbursement at the discretion of the Executive Secretary-Treasurer when requests for small necessary expenditures over the budget allocations are received or for obligations in amounts of less than $100.00 that were not anticipated in preparation of the budget. Several such examples of unanticipated expenses that arose during the past year were discussed.

Dr. Klein finally presented his budget of $50,474.72 for the coming year with the warning that anticipated expenses for the Journal could be expected to be about $15,000.00 in excess of this amount. The Executive Committee approved his report and the establishment of the contingency fund, but deferred action on the budget until the report of the editor.

Professor Martin Gibbs presented his report as editor-in-chief of PLANT PHYSIOLOGY.

Editor's Report to Editorial Board, 1964

This report summarizes the affairs of PLANT PHYSIOLOGY during the period of August 11, 1963 to August 10, 1964.

With regard to the operation of the Journal, the Editor has examined its various parts and reports to you on the following areas:

Journal Growth. During the previous period (August 11, 1962-August 10, 1963) the Journal experienced a 25% increase in manuscripts submitted. This trend has continued, but, fortunately, for this office, at a slower pace. A tabulation of the previous 5 years is given for comparison.

<table>
<thead>
<tr>
<th>Vol.</th>
<th>Year</th>
<th>No. articles published</th>
<th>No. pages in vol.</th>
<th>No. manuscripts submitted during year ending Aug. 10</th>
<th>Pages per manuscript</th>
</tr>
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<tbody>
<tr>
<td>34</td>
<td>1959</td>
<td>124</td>
<td>692</td>
<td>211</td>
<td>5.5</td>
</tr>
<tr>
<td>35</td>
<td>1960</td>
<td>153</td>
<td>1,020</td>
<td>185</td>
<td>6.7</td>
</tr>
<tr>
<td>36</td>
<td>1961</td>
<td>141</td>
<td>880</td>
<td>185</td>
<td>6.3</td>
</tr>
<tr>
<td>37</td>
<td>1962</td>
<td>154</td>
<td>865</td>
<td>195</td>
<td>5.0</td>
</tr>
<tr>
<td>38</td>
<td>1963</td>
<td>117</td>
<td>779</td>
<td>243</td>
<td>6.7</td>
</tr>
<tr>
<td>39</td>
<td>1964</td>
<td>180*</td>
<td>1,056*</td>
<td>262</td>
<td>6.0*</td>
</tr>
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* Estimated

Volume 39 will be the largest published by the Society both with respect to the number of articles and to the number of pages. The present status of PLANT PHYSI-
OLOGY is not due to an increase in the amount of words per manuscript (this has remained surprisingly stable) but rather is due to a recognition that publication in the Journal is prized. An extrapolation of the volume of manuscripts processed this summer indicates that Volume 40 will be about as large if not larger than Volume 39.

A 1000 plus page volume can be expected to continue. The editorial policy of Allan Brown and of myself has been to publish without delay all manuscripts which come up to the standards that we are trying to maintain. If this policy is continued, it seems likely that Journal volumes will continue to increase in size and in overall costs. Perhaps growth and spiralling costs may be disturbing to some but, after all, we should be more concerned with standards of quality rather than with mere total size.

I pointed out in my report of last year that a level of some 200 articles was the limit that could be handled without delaying publication date to the point of losing contributions by a staff of a half-time editorial assistant and a one-third time clerk-typist. I recommended and the Executive Committee agreed to an increase of editorial assistant time of approximately 8 hours per week. To take care of the recent 35% increase in growth and to provide for further expected rises in the next few years, I am proposing that a full-time editorial assistant be engaged. This increased need is necessary if the Journal is to continue to print manuscripts approximately 6 to 8 months after submission. The Editor is pleased to report that our cost of editorial help is far below that of comparable journals.

Membership of Editorial Board. Essentially all articles reviewed during this period have been examined by at least 1 associate editor. About half were read by 2 associate editors. The increased number of manuscripts has placed a heavy burden on the 15 editors. It was primarily for this reason that I recommended to the Society that the Board be increased. In addition, plant physiology has become so splintered that it is difficult for a group of this limited size to represent the various fields.

Editors retiring this coming December 31 are: C. M. Johnson, A. Lang, and K. V. Thimann. The Editor would like to record by means of this report his warmest appreciation for the services rendered by these retiring editors.

The following new members were appointed or elected: B. Axelrod, I. Zelitch, W. D. Bonner, and P. J. Kramer.

Processing of Manuscripts. A tabulation follows on the handling of the manuscripts received during this period with that of the previous 24 months. Discrepancies among subtotals are due to some manuscripts being in the hands of reviewers or awaiting the decision of the Editor.

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<tr>
<td>New manuscripts received</td>
<td>195</td>
<td>243</td>
</tr>
<tr>
<td>Accepted for publication</td>
<td>111</td>
<td>141</td>
</tr>
<tr>
<td>Rejected</td>
<td>55</td>
<td>64</td>
</tr>
</tbody>
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During the year all Journal issues but one (January) have appeared in the same month as the date of issue. The delay in the January book was brought about by the rather sudden closing of Craftsman, Inc. in November. We lost the dedicated services of Mr. Wylie. The parent company suggested that we move our operation to Business Press, Inc. in Lancaster, Pennsylvania. The Editor is grateful to Mr. John Houck, the plant superintendent, for the relatively smooth transfer. With the transfer of PLANT PHYSIOLOGY to the Lancaster plant the Journal returns to its birth site. In fact, the present plant superintendent’s father supervised the operation during the early years of PLANT PHYSIOLOGY.

Costs. The Journal budget has 2 major categories: expenses of the editorial office and charges for printing and mailing. The major source of additional expense, of course, continues to be the increased volume of publication and there is no reason to suspect that this situation will change significantly in the years to come. This situation has meant rather rapid but realistic salary level increases, primarily, for editorial assistance help. The stipend for the services of a clerk-typist has remained fairly level.

The following comparison shows the trend:

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<tr>
<td>Editorial assistant</td>
<td>$2,254</td>
<td>$2,663</td>
<td>$4,672</td>
</tr>
<tr>
<td>Clerk-typist</td>
<td>1,127</td>
<td>1,616</td>
<td>1,552</td>
</tr>
<tr>
<td>Honorarium</td>
<td>1,000</td>
<td>1,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Postage</td>
<td>421</td>
<td>697</td>
<td>755</td>
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<tr>
<td>Office supplies</td>
<td>70</td>
<td>336</td>
<td>358*</td>
</tr>
<tr>
<td>Telephone</td>
<td>86</td>
<td>50</td>
<td>33</td>
</tr>
<tr>
<td>Printing and mailing</td>
<td>27,996</td>
<td>24,593</td>
<td>33,007</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$32,954</strong></td>
<td><strong>$31,490</strong></td>
<td><strong>$41,377</strong></td>
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* Does not include the purchase of an IBM Typewriter ($335).

Our printing bill this past year was well above expectation. Part of this is attributable to the printing of 25,800 copies. This figure contrasts with 21,600 for the period of 1961–62. Another part was due to increased mailing costs. However, most of the increase was accounted for by the fact that we printed more pages.

On the assumption that our present editorial policy with respect to journal growth (see above) is a desirable one, the following budget is proposed for 1964 to 1965.

**Proposed Budget, 1964–1965**

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<tbody>
<tr>
<td><strong>Editorial Office</strong></td>
<td></td>
</tr>
<tr>
<td>Editorial assistant</td>
<td>$5,200</td>
</tr>
<tr>
<td>Clerk-typist</td>
<td>1,750</td>
</tr>
<tr>
<td>Honorarium</td>
<td>1,000</td>
</tr>
<tr>
<td>Postage</td>
<td>800</td>
</tr>
<tr>
<td>Office supplies</td>
<td>300</td>
</tr>
<tr>
<td>Telephone and telegraph</td>
<td>90</td>
</tr>
<tr>
<td>Printing and mailing</td>
<td>45,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$54,140</strong></td>
</tr>
</tbody>
</table>

This budget takes into account a modest increase in the number of pages to be published. It provides for the additional printing of approximately 1000 copies. It anticipates a small increase in the volume of overseas manuscripts (approximately 15 to 25% of the published papers in recent issues come from foreign plant physiologists). It takes into account that the May issue costs $7,477 while the July issue costs $7,218. The budget provides for a full-time editorial assistant and a part-time clerk-typist.

**Conclusion.** The upward trend in the costs of the Journal may result in a deficit. The Editor recommends to the Executive Committee that it is imperative to look into the financial status of PLANT PHYSIOLOGY.

Respectfully submitted,

**Martin Gibbs, Editor-in-Chief**

August 23, 1964
Since the mounting expenses for the Journal can only be curbed by restricting its scope or limiting its size, the Executive Committee after considerable discussion voted to seek additional funds to maintain the Journal in its present form by increasing nonmember subscription fees from $16.00 to $25.00 and to place before the membership for their vote a proposed increase of their dues from $10.00 to $15.00. Since neither of these actions can have effect until a year from now, it was further decided that a page charge not exceeding $20.00 per page be imposed for publication in the Journal as soon as possible. This would have effect before the end of this fiscal year and is the most flexible method of meeting the expenses of an expanding journal.

Dr. Gibbs also announced the appointment of Winslow Briggs and Harold J. Evans to the Editorial Board under the original constitutional provision. Under the newly adopted constitutional amendment, he announced appointment for a 2-year term, Lawrence Bogorad, Helen A. Stafford; 3 years, Peter M. Ray, Herbert Stern; 4 years, Andre T. Jagendorf, Carl A. Price; 5 years, David P. Hackett, Bruce B. Stowe. These additions to the Board were selected after discussion with all present Editorial Board members and will take effect October 1, 1964. Editor Gibbs' report was unanimously approved, but final decisions on the budget were deferred until later.

Reports were received from the following representatives: National Research Council (I. Zelitch), Grasslands Council (M. A. Sprague), American Standards Association (J. van Overbeek). Among items of interest to the general membership was the report by J. L. Liverman on the activities of the A.A.A.S. in formulating an ethical code for scientists. A symposium on this matter is to be held at the A.A.A.S. Montreal meeting in December. B. O. Phinney, our representative on the Botanical Society's governing board, reported the interest of Botanical Society members in obtaining our abstracts by mail. It was agreed to take up the matter with their new Secretary to formulate a method by which this may be done.

It became apparent from the discussion arising from several of these reports that the present term of office for Society representatives is often inadequate, and it was moved and unanimously passed that, insofar as possible, representatives of the Society to other organizations, and from sections on the Executive Committee have 3-year terms. The Secretary was instructed to write to all section secretaries to clarify the status of their representatives under this new provision. It was also requested that sections submit news of their meetings and their current officers promptly so that they can be published in the Journal well in advance of the meeting.

Prof. C. A. Price, reporting for the Committee on Professional Status and Training, discussed the problem of subcategorizing plant physiologists and of how to attract more and better graduate students to the field. It was also his suggestion that we could use the Journal News and Notes pages more effectively to publicize the activities of the Society, and in particular make it clear to students that all phases of plant biochemistry and physiology are encompassed by the Society.

In this year's elections the membership was asked to submit nominations for the 1965 Hoblitzelle Award. A number of nominations and several detailed biographies were received by the Secretary. All candidates were discussed by the Executive Committee which voted to forward 3 of the nominations to subcommittees to prepare the final statements to be forwarded to the Hoblitzelle Foundation.

It was reported that the efforts for constitutional revision have been successful in that all amendments submitted to the membership were approved. Several members have noticed an error in the ballot arising from a typographic error in the constitution as printed in the 1962 Directory which has 2 Article II's. The amendment submitted to the membership actually referred to Article III, but upon examination of the wording of the ballot, the Executive Committee ruled unanimously that there was no ambiguity in the ballot and that the amendment therefore stands approved.

Executive Secretary-Treasurer W. H. Klein then led a discussion concerning the actions of the Board of Trustees and their role in Society management. It was finally moved that an amendment to the bylaws should be submitted to the membership specifying that Section 2, part d be amended to read "The Board of Trustees shall advise upon and approve the actions of the Executive Secretary-Treasurer with reference to investment of the productive funds of the Society. . . . They shall report annually upon their activities." All 9 members of the Executive Committee present voted in favor of this amendment, but since this does not quite meet the two-thirds majority of the committee required, the 5 absent members will be polled by mail by the Secretary.

In another action it was moved and passed to allow the firm of W. J. Johnson to sell for current nonmember subscription prices back issues of Volumes 34, 35, and 36 as well as Volume 37 as of December 31, and that these be sent to him on condition he furnish us 50% of the price he charges for them. It was also agreed that the Johnson Reprint Corporation be allowed to sell Volumes 1–33 in the original edition at a maximum price of $16.00 each volume.

In the A.I.B.S. report by B. S. Meyer, he informed the Executive Committee that the financial status of the A.I.B.S. now seems secure and that a long-term settlement has been made of their obligations to the National Science Foundation. The full details are available in the June, 1964, BIOSCIENCE. There also will be a group insurance program to be initiated shortly, and this Society will be asked whether it wishes to participate in the program. No decision was made on this point at this year's meeting. It was also noted that the tax exemption status of the A.I.B.S. and other scientific nonprofit organizations has been recently challenged by the Internal Revenue Service. W. H. Klein will meet with A.I.B.S. Legal Counsel to look over our situation, although Internal Revenue Service rulings of 1936 and 1941 granting tax exempt status have continued to be honored to date. The discussion was also held on the relationship of A.I.B.S. officers to membership. A letter by Peter Albersheim and others printed June, 1964, BioScience, was discussed and it was finally decided that a recommendation be made to our A.I.B.S. representative that he support the principle that A.I.B.S. officers be elected rather than appointed to the A.I.B.S. governing body.

Concerning the election of our own officers, several suggestions for increasing the number of nominations were considered. These will be tried out at the discretion of the secretary.

President Calvin also brought forward several names for consideration as corresponding members of the Society. It was voted that R. Hill of Cambridge University and A. L. Kursanov of the Timiriazev Institute be elected corresponding members.

B. B. Stowe reported on the meeting of the International Association for Plant Physiology at Edinburgh, Scotland on August 8, 1964. There are now 17 countries affiliated with the I.A.P.P. and 3 others are considering
joining. The Association has already stimulated several countries to form national societies of plant physiologists. President T. A. Bennet-Clark and Secretary Arthur W. Galston have been successful in obtaining a small financial grant from the International Union of Biological Sciences which has proved sufficient for the so-far largely organizational activities of the Association. A directory of plant physiologists in the countries affiliated with the Association is under active preparation and copies will be distributed to the major scientific societies and institutes in various countries in due course. The major discussion of the meeting centered on the activities the Association should concern itself with. It was decided that the I.A.P.P. act to organize symposia, especially in connection with meetings of national societies in smaller countries so that an international exchange of ideas might be fostered at meetings smaller than large international congresses. Dr. Tamiya of Japan reminded the group that I.U.B.S. approval is required for foreign travel for most Japanese and probably for nationals of other countries as well. It was agreed that the organization of the I.A.P.P. under the I.U.B.S. provides a means to meet this requirement. At the present time 2 to 3 years advance notice is required for the I.U.B.S. to take official action so the I.A.P.P. will have to plan far ahead. In this connection, the proposed Plant Growth Substances Conference in Italy in 1966 was discussed and tentatively approved for I.A.P.P. sponsorship. Final action will be the unanimously approved reinstatement of the present officers for a second term of 5 years.

In connection with this report, the Executive Committee considered the recommendation by Prof. Wain of Wye College, currently chairman of the Plant Growth Substance Conference Committee, that an invitation from Professor Fausto Lona of the University of Parma and Professor Conte Alessandro Marcello of the University of Padova be accepted and that the 1966 Growth Conference be held in Italy. It was also requested that the A.S.P.P. apply for a travel grant for American scientists to attend this meeting. It was unanimously moved that the Society so act and the Secretary was empowered to prepare and submit such a grant application during the coming year.

Several members complained that the present Executive Committee meeting allows insufficient time for full discussion of all Society business, but it was realized that there are difficulties in running a meeting that lasts more than 1 day. It was finally decided to start next year’s meeting on Sunday morning at 9:00 AM, and to request more convenient housing so that Society members are closer to each other. It was also decided that an increased effort be made to centralize full information on new business before the meeting.

The matter of constitutional revision was discussed again and it was decided that some effort should be made to regularly review the situation, perhaps every 5 years.

The final matter was the decision on the budgetary considerations brought up by the report of the editor and the Executive Secretary-Treasurer. President Calvin announced the appointment of a Financial Status Committee to be chaired by J. L. Liverman and include H. Beevers, M. Gibbs, W. H. Klein, R. W. Krauss, G. G. Lattles, and A. W. Naylor. This committee is to examine the budgetary matters that have led to the current crisis. In particular it is to examine the increase in nonmember subscription rate and increase in membership dues with the expectation that should they support the present recommendations of increases any recommendations for modifications by them be made before the February ballot. Finally, the decision to introduce a page charge not exceeding $20.00 per page for publication in PLANT PHYSIOLOGY was reaffirmed unanimously. How the charge is to be applied will be studied by the Financial Status Committee. It was specified that the page charge will be announced in the November issue. Since this motion implied full support of the Journal, it was then necessary to increase the budget of the Society. It was moved and passed unanimously to allow Executive Secretary-Treasurer William H. Klein a budget of $65,000.00 and he was authorized to expend Society reserves if needed to maintain the operation of the Journal. The meeting adjourned at 11:15 PM.

Respectfully submitted,

BRUCE B. STOWE, Secretary
American Society of Plant Physiologists

American Society of Plant Physiologists: Annual Business Meeting, August 24, 1964, Room 140, Chemistry Building, University of Colorado, Boulder. The meeting was called to order by Vice President-elect George G. Laties at 7:25 PM. 73 persons were in attendance at the start of the meeting. Minutes of the last meeting were accepted as published in the November, 1963 issue of PLANT PHYSIOLOGY. The reports of Executive Secretary-Treasurer Klein and Editor Martin Gibbs were made. These reports are summarized in the above minutes of the Executive Committee meetings. The membership unanimously accepted these reports. Secretary B. B. Stowe reported on the International Association for Plant Physiology meeting in Edinburgh and on the decisions of the Executive Committee to attempt to make better use of the News and Notes column of PLANT PHYSIOLOGY. Finally Vice President-elect George G. Laties reported on the page charge to be applied to PLANT PHYSIOLOGY papers and on the studies to be made of an increase in Society dues and nonmember subscriptions.

The death of the following members during the past year was announced: Charles O. Appleman, David M. Bonner, R. Ciferri, B. Ekdahl, George N. Hofer, Paul J. Linder, W. J. V. Osterhaut, Elmer L. Petersen, Norbert J. Scully, Clair L. Worley.

A vote of thanks to the local committee was unanimously adopted. The meeting was adjourned at 8:15 PM.

Respectfully submitted,

BRUCE B. STOWE, Secretary
American Society of Plant Physiologists

Events of the 1964 A.I.B.S. meetings, University of Colorado, Boulder. At this, its 40th anniversary meeting, the American Society of Plant Physiologists held special ceremonies in recognition of those of its members who were present at the founding of the Society and since have retained their interest in its activities. Seven of the 11 remaining Charter Members accepted the Society’s invitation to travel to the A.I.B.S. meetings and participate in the celebrations there.

In recognition of their long service to the Society, the Charter Members were presented with Charles A. Shull Life Membership certificates by Professor Melvin Calvin, President of the Society and Nobel prize laureate. These certificates also honor the name of the late Charles A. Shull, formerly Professor at the University of Chicago, who was the major force behind the movement to found the Society 40 years ago.

On hand to accept their awards from Professor Calvin were Professor Arthur L. Bakke of the Department of
Botany at Iowa State University, Professor James P. Bennett of the University of California, Berkeley, Dr. Ward B. Davis of the United States Department of Agriculture, Rosemead, California, Dr. Frank M. Eaton of the University of California, Riverside, Professor George R. Johnstone of the University of Southern California, Los Angeles, Professor A. E. Murreck of the University of Missouri, and Professor Albert C. Saeger of the University of Kansas City, Missouri. Receiving their awards in absentia were Professor W. M. Atwood of Oregon State University, Corvallis, Professor C. H. Arndt of Clemson College, Clemson, South Carolina, Dr. Robert B. Dusman, of the University of West Virginia, Morgantown, and Dr. John P. Jones of the United States Department of Agriculture, Drexel Hill, Pennsylvania. Messages to the Society from these absent members were read at the banquet.

In presenting the awards, President Calvin cited the scientific contributions made by the charter members and their vision in acting to found a Society which has grown from a little over a hundred members to its approximate membership of 2000 today. The Society is now recognized as the primary professional organization of those persons carrying out research on both the pure and the applied aspects of the physiology of plants.

In addition to receipt of the award itself, charter members were invited, as guests of the Society, to attend the scientific sessions held over 4 days at which more than 2000 papers were presented before the American Institute of Biological Sciences. Among these, some 275 scientific papers originated from members of the American Society of Plant Physiologists.

Other announcements made at the banquet included the following:

The winner of the 1964 $1000 Charles F. Kettering Award for excellence in research on photosynthesis is Dr. L. N. M. Duysens of the Biophysical Laboratory, Leiden University, The Netherlands. By this award recognition is made of his major contributions to photosynthetic research. In particular, his pioneering efforts in devising instrumental techniques have provided new insights of photosynthetic mechanisms. His study of fluorescence has demonstrated that energy can be transferred from various accessory pigments in green plants to chlorophyll. In addition, he has made other contributions in the areas of cofactors, and their relationship to the electron transport system. These studies have led to a reasonable model for the character of the mechanism involved. Furthermore his understanding and competence in the physical sciences has permitted him to make theoretical as well as practical contributions in this area of research.

His design of physical experiments has been coupled with judicious use of comparative material chosen from across the entire realm of photosynthetic organisms. Moreover, his theoretical interpretations have been firmly grounded in the framework of known biochemistry. He has sought quantitative answers to critical questions and as a result his laboratory has always provided an extensive and definitive description of the nature of each new phenomenon under study. The American Society of Plant Physiologists is proud to confer this award upon him and wishes to acknowledge the grant to the Society from the Charles F. Kettering Foundation which made it possible.

Each year our Society makes an award of a life membership in honor of Dr. Charles Reid Barnes, the first professor of plant physiology at the University of Chicago. The award is made to a senior member of the Society whose character and contribution to scientific research merit this recognition. This year's winner is Professor W. Z. Hassid of the Department of Biochemistry of the University of California at Berkeley. Professor Hassid's outstanding work in the field of sugar biochemistry has over many years provided numerous pioneering discoveries in the metabolism of carbohydrate compounds. These studies have culminated this year in the first unambiguous demonstration of a test tube synthesis of cellulose, the major carbohydrate of all green plants. For these reasons the Society is particularly proud to confer upon Professor W. Z. Hassid its Charles Reid Barnes Life Membership Award.

Our greatest honor [awarded by the American Society of Plant Physiologists] is the Stephen Hales Prize, granted every other year to a resident of North America who has served the science of plant physiology in some noteworthy manner. This year's award and the prize we conferred upon Professor F. C. Steward, F.R.S., Laboratory of Cell Physiology, Growth and Development, Cornell University, Ithaca, New York, in recognition of his many years of work on the salt uptake of plants, the nitrogenous constituents of plant tissues, and for his growth substance investigations. Most recently, Professor Steward has achieved the long sought goal of regenerating an entire plant from a single cell isolate. This achievement resulted from his insight and his mastery of the technique of tissue culture and represents a major advance in plant physiological research. Professor Steward also has rendered significant service to his scientific discipline through his activities as editor and lecturer.

The recipient of the award customarily delivers the Stephen Hales lecture at the next annual meeting of the Society. This meeting is now scheduled for the University of Illinois in August, 1965.

Finally, elected to corresponding membership in the Society were Dr. R. Hill, M.A., Sc.D., F.R.S. of the Department of Biochemistry, Cambridge University, England and Academician A. L. Kursanov of the K. A. Timiriazev Institute, Soviet Academy of Science, Moscow, U.S.S.R.

Other News. Twenty-two invited papers on "Pest Control by Chemical, Biological, Genetic, and Physical Means" will be presented in a series of special sessions at the American Association for the Advancement of Science meetings to be held in Montreal, Canada from December 27 through 30, 1964. Your Society has agreed to act as a co-sponsor of this symposium. Watch SCIENCE for details.

The nineteenth annual Cotton Defoliation and Physiology Conference will be held at the Dinkler Plaza Hotel, Atlanta, Georgia on January 12 and 13, 1965. A symposium on the influence of climate on cotton will be held, and several sessions of both invited and contributed papers are being arranged. For details contact Bruce Roark, U.S.D.A. Cotton Field Station, Stoneville, Mississippi, 38776.

The Society for Cryobiology was initiated in November, 1963 and held its first meeting August 23-26, 1964, at the International Inn, Washington, D. C. The unfortunate conflict with the A.I.B.S. meeting will be avoided at future meetings. The Society has initiated a bimonthly journal, the first issue of which (September–October, 1964) contains the abstracts of the above meeting. Papers for future issues should be sent to: Dr. Theodore Malinin, Editor in Chief, Department of Pathology, School of
Charter members of the Society are pictured after receiving their 40-year membership citations from President Melvin Calvin. From left to right; front row, A. E. Munneke, A. C. Saeger, W. B. Davis, and G. R. Johnstone; back row, J. P. Bennett, A. L. Bakke, F. M. Eaton, and President Calvin.

Medicine, Georgetown University, Washington, D. C. 20007.

One of the chief aims of this journal is the rapid publication of original articles in the field of cryobiology.

The American Institute of Biological Sciences. Since, by coincidence, both the President and the President-elect of the A.I.B.S. in 1964 are plant physiologists, this is a particularly appropriate time to bring readers of PLANT PHYSIOLOGY up to date with the Institute’s present status and organization. The A.I.B.S. has an unusual structure in that both societies and individuals can be members of it. There are 43 adherent societies (of which the A.S.P.P. is one) and their aggregate membership totals some 50,000, or about two-thirds of the nation’s professional biologists. These societies cover every field from microbes to forests and from physiologists to sport fishermen. Each society supplies one member of the A.I.B.S. Governing Board; A.S.P.P.’s member for several years has been Professor Bernard Meyer of Ohio State University, now succeeded by Professor Arthur Galston of Yale.

In addition to the societies there are some 12,000 individual members, paying $10 a year (or $5 if graduate students), and receiving the journal BIOSCIENCE monthly, with the right to use the employment exchange, etc. These supply one member of the Governing Board for each 1000 members. Elections for the 12 representatives of individual members have just taken place, and the enlarged Governing Board of 55 plus 4 officers will convene in February 1965. The Board meets twice a year, once at the national meetings and once (in Washington) in the winter. For closer supervision and guidance the Board elects an executive committee of 7, which meets 4 times a year, or oftener if need be. The permanent staff, which includes Dr. John Olive, Director, and Robert Leisner, Co-Editor of BIOSCIENCE, is located at 2000 P Street, Washington, D. C. 20036, but will be moving to better quarters on December 1st, 1964.

Functions of the A.I.B.S. are: to provide a central body for U. S. biologists; to organize, with the help of a selected university, the annual national meetings, in which most or all of the adherent societies participate; to keep biologists in touch with current developments in the broad area of biological sciences, as well as with the Washington scene, by means of its monthly journal BIOSCIENCE; to provide services such as free employment information and life insurance at special rates; to improve education in the biological sciences; and generally to uphold standards of biology at all levels. Its educational activities have given rise first to: 1) the B.S.C.S., now located at the University of Colorado, and responsible for the highly successful “blue, green and yellow versions”
of high school biology texts, and later 2) to the C.U.E.B.S., with headquarters in Washington, which seeks to work out parallel developments at the college undergraduate level. In addition A.I.B.S. has its own education committee, which is now developing vigorously under the chairmanship of Professor Donald Kennedy of Stanford.

To make A.I.B.S. a really strong and effective national body similar to those which serve the nation's chemists and physicists, wide and representative membership and participation in its affairs are essential. All plant physiologists are urged to join. The $10 subscription is a modest fee for helping to put biology on the map.

The next national meeting will be at the University of Illinois, Urbana, on August 15–20, 1965. Titles of papers will probably be called for (via the adherent societies) about December 1, 1964. Papers for the A.S.P.P. will not require abstracts to be submitted until April, however.

Further information about A.I.B.S. can be had from A.S.P.P.'s past Board member, Professor Meyer, its present Board member, Professor Galston, or from Dr. Olive at headquarters. Correspondence about plant physiological papers for the meetings, however, should go to the secretary of the A.S.P.P., Professor B. B. Stowe.

Kenneth V. Thimann

News of the Sections

The annual meeting of the Northeastern Section, with 158 registered participants, was held May 8 and 9 at the University of Connecticut, Storrs, under the Chairmanship of Dr. Donald F. Wetherell. Thirty papers were presented, bearing on photobiology, chemical control of growth, phosphorylation, enzymology, and transpiration. Professor James G. Horsfall gave an illustrated talk on "Symbolism in Japanese Gardens" after the annual banquet, Friday evening. At Saturday's business meeting the officers for 1965 were elected: Chairman, John M. Ward, Temple University; Vice Chairman, William T. Jackson, Dartmouth College; Secretary-Treasurer, Hubert J. Dyer, Brown University; Executive Committee, George M. Carney, Tufts University, Wm. O. Drinkwater, Rutgers University, Sam Granick, Rockefeller Institute, and Israel Zelich, Connecticut Agricultural Experiment Station, New Haven.