



General appendix

A list of photosynthesis conferences and of edited books in photosynthesis

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Abstract

This paper is a general appendix to the three parts of 'Celebrating the millennium – historical highlights of photosynthesis research' (Photosynth Res, Vols 73 (2002), 76 (2003), 80 (2004)). The major part of this paper includes a comprehensive list of most of the edited volumes on research in the area of photosynthesis. However, I begin this paper by describing selected conferences, related to photosynthesis, held in USA, during 1935–1965, followed by the 1963 International Colloquium held in Gif-sur-Yvette, France (René Wurmser (1890–1993), President); and the 2nd Western European Congress (1965), held in the Netherlands, under the leadership of Jan B. Thomas (1907–1991), both these European conferences being the precursors of the first International Congress on Photosynthesis (1968), organized by Helmut Metzner (1925–1999) at Freudenstadt, Germany. A list of the subsequent international photosynthesis congresses is available in Govindjee and David Krogmann (this issue).

Photosynthesis conferences in USA: 1935–1965

Some of the conferences during the period 1935–1965, held in the USA, are briefly described below.

1935: Cold Spring Harbor Symposium

One of the earliest discussions on photosynthesis was included in the 1935 Cold Spring Harbor Symposium on Quantitative Biology (Cold Spring Harbor Laboratory, 1935). This conference, held when I was only a three-year-old boy, was focused on '*reactions and processes initiated by light*'; it was held for 11 full days and 14 half days, and included presentation of 35 papers followed by discussions. According to the frontmatter in the proceedings, many hours were spent in carefully considering and revising discussions as originally presented, and many days (~10) were then

spent for informal consultation. About 84 scientists took part in the symposia and discussions, out of which 36 communicated discussions by mail.

To give a flavor of what went on then in photosynthesis, I list below the topics (and authors) of the papers presented at the above symposium. (1) Protochlorophyll (Paul Rothemund); (2) Behavior of chlorophyll in inheritance (M. Demerec); (3) Fluorescence of the chlorophylls (V.M. Albers and H.V. Knorr); (4) Quantitative photochemical study of photosynthetic system (F. Paul Zscheile); (5) Light intensity and CO₂ as factors in wheat photosynthesis (F.S. Brackett); (6) Kinetics of photosynthesis in *Chlorella* (William Arnold); (7) Effect of intense light and its bearing on the CO₂ factor (Robert Emerson); (8) Photosynthesis of bacteria (Cornelis B. van Niel); (9) Chemistry of photosynthesis (Neel Ratan Dhar); (10) Kinetic mechanism of photosynthesis (Dean Burk and Hans Lineweaver); (11) Evolution of O₂ in the process

of photosynthesis (O.L. Inman); (12) Absorption of radiation by leaves and algae (Harold Mestre). Others who took part in the discussions included: G.E. Briggs, C. Stacy French, E.D. MacAlister and H.A. Spoehr.

1949: Photosynthesis in Plants, Ames, Iowa

The first known symposium volume devoted solely to photosynthesis in the USA was published in 1949, edited by the physicist James Franck and the plant physiologist W.E. Loomis. 'Photosynthesis in Plants' was the second volume of the monograph series of the American Society of Plant Physiologists; (Franck and Loomis 1949). Two major areas discussed were: (1) The question of the maximum quantum yield of oxygen evolution; (2) Carbon fixation, using tracer methods. Also included were discussions on the use of 'Chlorophyll fluorescence in understanding photosynthesis.'

The 1949 monograph 'Photosynthesis in Plants' contained the following 22 papers (authors). (1) Introduction (W.E. Loomis); (2) Photosynthesis under field conditions (Moyer D. Thomas and George R. Hill); (3) Products of photosynthesis (James H.C. Smith); (4) Diffusion through multiperforate septa (J. Verduin); (5) Chloroplasts: their structure, composition and development (Sam Granick); (6) Functions and properties of the chloroplast pigments (Harold H. Strain); (7) Photochemistry of chlorophyll (Robert Livingston); (8) Chlorophyll studies (P. Rothemund); (9) Processes accompanying chlorophyll formation (James H.C. Smith); (10) Quantum requirement of photosynthesis (Robert Emerson and M.S. Nishimura); (11) Quantum efficiency of photosynthesis in *Chlorella* (W.E. Moore and B.M. Duggar); (12) Quantum efficiencies for photosynthesis and photoreduction in green plants (Foster F. Rieke); (13) Calorimetric determination of the quantum yield in photosynthesis (William Arnold); (14) Photochemical liberation of oxygen from water by isolated chloroplasts (A. Stanley Holt and C. Stacy French); (15) Chlorophyll fluorescence as an energy flowmeter for photosynthesis (E.E. Katz); (16) Relation of the fluorescence of chlorophyll to photosynthesis (James Franck); (17) Pattern of photosynthesis in *Chlorella* (Jack Myers); (18) Some remarks on tracer researches in photosynthesis (Martin D. Kamen); (19) ^{14}C in photosynthesis (Andrew A. Benson, Melvin Calvin, V.A. Haas, Sam Aronoff, A.G. Hall, James A. Bassham and

J.W. Weigl); (20) Kinetics of photochemical intermediate in photosynthesis (Allan H. Brown, E.W. Fager and Hans Gaffron); (21) Investigation of the chemical properties of intermediates in photosynthesis (E.W. Fager); (22) Comparative biochemistry of photosynthesis (Cornelis B. van Niel).

1952 and 1955: Gatlinburg Conferences on photosynthesis

In 1952, the first Gatlinburg Photosynthesis Congress was held. No written proceedings are available. A group photograph of those attending this congress is shown in Part 2 of these History issues (see p. vii of Govindjee et al. 2003a) under the title 'Celebrating the Golden Jubilee of the 1952 Conference on Photosynthesis, Gatlinburg, Tennessee, USA.' The second Gatlinburg conference on 'Research in Photosynthesis' was held on 25–29 October 1955, and its proceedings (524 pages) were published in 1957, and were edited by Hans Gaffron, Allan H. Brown, C. Stacy French, Robert Livingston, Eugene I. Rabinowitch, Bernard L. Strehler and N. Ed Tolbert (Gaffron et al. 1957). This conference deliberately de-emphasized the topics of the quantum yield of oxygen evolution and the path of carbon, covered extensively in the 1952 conference. Instead, it focused on: (1) Absorption, fluorescence, luminescence, and photochemistry of pigments *in vitro* (8 papers); (2) Absorption, scattering, fluorescence, luminescence, and photochemistry of pigments *in vivo* (12 papers); (3) Possible roles of cytochromes (7 papers); (4) Dark reactions: fixation of CO_2 (4 papers); Photoreduction (3 papers); reduction of various oxidants (2 papers); Reactions in chloroplasts and cell extracts (5 papers); Phosphate metabolism (6 papers); (5) Kinetics, transients and induction phenomena (15 papers); (6) Formation and the condition of chlorophyll in the living cell (5 papers). This conference was unique in that it attracted more than 65 papers from many of the pioneers of photosynthesis, several from outside the USA.

Among the almost 80 contributors, I mention some examples (in alphabetical order): Mary Belle Allen; William Arnold; Daniel Arnon; Sam Aronoff; Margreta Baltscheffsky (Sweden); James Al Bassham; Andrew Benson; Lawrence Blinks; Lawrence Bogorod; Allan Brown; Warren Butler; Melvin Calvin; Britton Chance; Louis N.M. Duysens (The Netherlands); Robert Emerson; James Franck; C. Stacy French; Albert Frenkel; Hans Gaffron; Howard Gest; Martin Gibbs; Norman Good; Sam Granick;



Figure 1. Photographs of some of the scientists attending the 1958 Conference at Brookhaven National Laboratory, Upton, New York (Fuller 1959). *Top row (left):* Martin Kamen (center) exchanging jokes with other participants; *(right):* Leo Vernon (left) with Martin Gibbs (right). *Bottom row (left):* Robert Emerson and Hans Gaffron (I assume they were discussing the quantum yield controversy between Emerson and Otto Warburg; is Gaffron making a bet with dollar bills in his hand?); *(center):* William Arnold explaining his physical theories to Tom Punnett; *(right):* Bessel Kok (seated in the middle) talking with Clint Fuller (standing). Joop Goedheer is standing with a cup in his hand.

A. Stanley Holt; Martin Kamen; Bessel Kok (The Netherlands); Robert Livingston; Shigetoh Miyachi (Japan); Jack Myers; John Olson; André Pirson (Germany); Eugene Rabinowitch; Kazuo Shibata (Japan); James H.C. Smith; Bernard Strehler; Hiroshi Tamiya (Japan); N. Ed Tolbert; Leo P. Vernon; Wolf Vishniac; E.C. Wassink (The Netherlands); F.R. Whatley; C.P. Whittingham (UK); Horst Witt (Germany).

In 1971, a conference on 'Photosynthetic Unit,' organized by Bob Pearlstein, was held in Gatlinburg, honoring William Arnold, Hans Gaffron, C. Stacy French, Eugene Rabinowitch and Lawrence Blinks (see Govindjee and D. Krogmann for a photograph).

1958: Brookhaven symposia on photosynthesis

I draw attention to an outstanding symposium, organized in 1958 by Brookhaven National Laboratory (Long Island, New York), 'Photochemical Apparatus'

(Fuller 1959). The symposium committee included R. Clinton Fuller, J.A. Bergeron, L.G. Augustine, M.E. Koshland and H.J. Curtis. There were 31 papers arranged in seven sections. Speakers in *Section I* (Physical Chemical Aspects; chair, James A. Bassham) were: William Arnold (& H.K. Maclay); Louis N.M. Duysens; James A. Bassham; Earl E. Jacobs; Gordon Tollin; in *Section II* (Biochemical Aspects; chair, C. Stacy French), they had: Roger Y. Stanier; Wolf Vishniac; C. Stacy French; Britton Chance; J.J. Wolken; in *Section III* (Morphological Aspects; chair, Lawrence Bogorad): Ruth Sager; J.A. Brgeron; L. Bogorad (and coworkers); D. von Wettstein; in unnamed *Section IV* (chair, D.E. Koshland Jr.): the speaker was Melvin Calvin; in *Section V* (Enzymatic Activities of Chloroplasts; chair, Andrew A. Benson): Daniel I. Arnon; André T. Jagendorf; L.A. Delavan and Andrew A. Benson; Anthony San Pietro; N.E. Tolbert; in *Section VI* (Enzymatic Properties of Primitive Photochemical

Structures; chair, Martin D. Kamen): Albert W. Frenkel; J.W. Newton; and James H.C. Smith; and in *Section VII* (Contributed Papers, chair Martin D. Kamen): Rodney A. Olson (& E.K. Engel); L. Smith (& J. Ramirez); John M. Olson; Joop C. Goedheer; Norman I. Bishop; Mary Belle Allen; S. Scheer (& S. Aaronson); F.H. Hulcher and Wolf Vishniac. The proceedings contains nine photographs of the participants including: William Arnold; Martin Gibbs; Robert Emerson; Hans Gaffron; Martin Kamen, Bessel Kok, Leo Vernon and others (see photographs of some of these scientists in Figure 1).

This first Brookhaven symposium was later followed by three other symposia (not discussed here): (1) Energy Conversion (Olson 1967); (2) Chlorophyll proteins (Olson and Hind 1977); (3) Photosynthetic Carbon Assimilation (Siegelmann and Hind 1978). Readers may consult the original publications for details. A photograph of the speakers at the 1966 Brookhaven Symposium (Olson 1967) appears in Pearlstein (2002).

1960: Light and Life Symposium

A symposium on 'Light and Life,' 28–31 March 1960, at the Johns Hopkins University, was held after the publication of the Emerson enhancement effect in 1957 (see Govindjee and David Krogmann, this issue; McElroy and Glass 1961) when the concept of two-light reactions and two-pigment systems was evolving, and it included several other related areas of photochemistry and photobiology: (1) Molecular structure and excited states; (2) excited states of molecules of biological interest; (3) light emission by chemical reactions; (4) biological responses to light.

Several speakers touched upon the question of two-light effects: Melvin Calvin; C. Stacy French; Robert Hill (& Walter D. Bonner); Bessel Kok (& George Hoch); Eugene Rabinowitch (& Govindjee). Mary Belle Allen; Daniel Arnon; Andrew A. Benson; Barry Commoner; Albert Frenkel; Martin D. Kamen; David Krogmann; Fritz Lipmann; M. Losada; Anthony San Pietro; Lucille Smith; Bernard Strehler; Jan B. Thomas; Cornelis B. van Niel; Birgit Vennesland participated in this conference, among others.

1963: The Airlie House Conference

From 14–18 October 1963, about 15 months after the *La Photosynthèse* (Gif-sur-Yvette) conference (see next Section), Bessel Kok and André Jagendorf organized a symposium on 'Photosynthetic Mechanisms

of Green Plants' at the Airlie House in Warrenton, Virginia. This conference was a successor to the 1955 conference held at Gatlinburg, Tennessee. After giving credit to Lawrence Blinks and Robert Emerson's work, Kok and Jagendorf wrote in their Preface: 'Every so often someone manages to remove another stone from the wall through which we all want to see, and the crowds tend to flock around the new peep hole' (see Kok and Jagendorf 1963). At this conference, I had been on the faculty at the University of Illinois at Urbana for two years. It was a very important meeting where the two-light reaction and two-pigment system ('Z-Scheme' of photosynthesis) became fully accepted.

A group photograph of this conference adorns the frontispiece of this issue. Hans Rurainski (this issue) has written a detailed account and a perspective of this meeting; photographs of many scientists, attending this conference, are shown in his article.

Precursors to international conferences on photosynthesis: 1962 and 1965

1962: La Photosynthèse, Gif-sur-Yvette, France

A full-fledged conference (Colloques Internationaux du Centre National de la Recherche Scientifique,



Figure 2. A 1961 photograph of Jan B. Thomas (third from left) at 51 Laan van Minsweerd, Utrecht, The Netherlands. Others are: Govindjee (first from left); Mrs Jan B. Thomas (second from left); Jan's daughter Tineke Thomas (extreme right). Photo taken in Utrecht, The Netherlands, by Rajni Govindjee.



Figure 3. Participants at the 2nd Western European Photosynthesis meeting, held at 'Woudschoten,' Zeist, The Netherlands, 6–12 September 1965. This photograph is a courtesy of Yaroslav de Kouchkovsky. Question marks imply that we are unsure of the identity listed. *Sitting on chairs are:* (1) N. Jeeji Bai; (2) M. van Kooten-Hertogs; (3) Joan H. Argyroudi-Akoyunoglou; (4) Giuliana Zanetti; (5) Unidentified; (6) Marie-Rose Michel-Wolwertz; (7) Anne Joliot. *Standing are:* (8) F.W.J. Teale; (9) Danuta Franckowiak; (10) H. Sagromsky; (11) Ryuzi Kanai; (12) Zdenek Sestak; (13) W. Verwer; (14) W. Lindeman; (15) Wilhelm Nultsch; (16) Unidentified; (17) R. Chabaud; (18) Helmut Metzner; (19) Unidentified; (20) Jacques Garnier; (21) Charles P. Whittingham; (22) J.F.G.M. Wintermans; (23) Unidentified; (24) George Akoyunoglou; (25) Gert H.M. Kronenberg; (26) C. Stacy French; (27) Achim Trebst (?); (28) G. Albert Pieters; (29) Alexis Moyse; (30) J.S.C. Wessels; (31) Cyrille H.V. Sironval; (32) Jan B. Thomas; (33) Unidentified; (34) Joop C. Goedheer; (35) Pierre Guérin de Montgareuil; (36) Louis N.M. Duysens; (37) Jean-Marie Michel; (38) Jaques Duranton; (39) Joseph (?) Weikard; (40) Daniel I. Arnon; (41) David C. Fork; (42) Unidentified; (43) Christiaan Sybesma; (44) Bacon Ke; (45) Giorgio Forti; (46) Pierre Joliot; (47) J. Zurzycki; (48) Widmar H. Tanner; (49) René Delosme; (50) Wilhelm Simonis; (51) M. Sangster; (52) Wim J. Vredenberg; (53) John M. Olson; (54) Mordhay Avron; (55) Noun Shavit; (56) Jan Amesz; (57) Richard E. Dale; (58) Peter (?) Massini; (59) Manuel Losada; (60) Gunter Jacobi; (61) Govindjee; (62) P. Schmidt-Mende (some readers suggest that no. 62 may be Richard P.F. Gregory); (63) Bernd Rumberg; (64) Jacques Aghion; (65) Achim Trebst (??, cf. 27); (66) Gabriel Gingras (?); (67) Horst T. Witt; (68) Unidentified; (69) Unidentified; (70) Unidentified; (71) Jean Lavorel; (72) Yaroslav de Kouchkovsky; (73) Unidentified; (74) Gaston Ducet; (75) Willemke Terpestra; (76) Tom Buegeling; (77) Unidentified; (78) Unidentified; (79) Ulrich W. Heber; (80) Unidentified; (81) Herrick Baltscheffsky; (82) Roderick K. Clayton; (83) Bessel Kok; (84) Leo P. Vernon. There are only 12 persons unidentified in the photo from a list of the following 15: Marcel André (France); Reinhard Bachofen (Germany); J.L. Bailey (UK); Jiri Catsky (Czechoslovakia); R.E. Clijsters (UK); Gunt(h)er (?) Döhler (Germany); H.D. Dorrer (Germany); Karl Egle (Germany); Richard P.F. Gregory (UK); David O. Hall (UK); Knud W. Henningsen (Denmark); J.M. D'Olieslager (Belgium); Gerald Oster (USA); Aloysius (or Augustus?) Ried (Germany); G. Throm (Germany); R. van der Veen (The Netherlands). Please note that J.F.G.M. Wintermans is recognized above, but he is not in the participants list in the book. Also note that the list of participants has 95 names. We note that the following eight, present in the list of the participants, are not in the photograph: J.-M. Bové, J.-M. Briantais, J.-M. Galmiche, G. Giraud, C.J.P. Spruit, A. San Pietro; E.C. Wassink and J.Chr. Wesselius. The list was prepared by one of us (G) with the help of many including Yaroslav de Kouchkovsky; Bacon Ke and Wim Vredenberg.

CNRS), that covered all aspects of photosynthesis including the then two-light reaction and two-pigment system concept, was held on 23–27 July 1962, at Gif-sur-Yvette, France. Its proceedings were published in 1963 (Wurmser 1963). Photographs

and further discussion of this colloquium is found in Yaroslav de Kouchkovsky (2002). The 1931 Nobel laureate in Physiology or Medicine, Otto Warburg, ended this conference with words that included:

I felt happy to be again in the country of the great Pasteur, who has taught me, if not personally, the spirit and the method of Science. It is this spirit of Pasteur, that has reigned over our meeting and made it the most successful meeting in photosynthesis many of us have attended.

At this conference, the following scientists discussed two-light reaction schemes: Jan Amesz; Daniel Arnon; Melvin Calvin; Louis N.M. Duysens; Hans Gaffron (& Norman Bishop); Joop C. Goedheer; Bessel Kok (& George Hoch); Eugene Rabinowitch; Horst T. Witt (with A. Müller & B. Rumberg). Other participants included: Mordhay Avron; V.B. Evstigneev; Ulrich Heber; Pierre Joliot; Jean Lavorel; Rod Park; A.A. Shlyk; C. Sironval; Achim Trebst; Wim Vredenberg; Otto Warburg.

1965: *Currents in Photosynthesis Research, Woudschoten, Zeist, The Netherlands*

The second Western European Photosynthesis Conference was held in the Netherlands in 1965 (Thomas and Goedheer 1965). I celebrate the initiative of Jan Bartholomeus Thomas (1907–1991). Figure 2 is a photograph of Jan Barth Thomas taken in 1961. On 6 September 1965, A. Moyse, at the Conference Center ‘Woudschoten’ in Zeist, The Netherlands, stated ‘*C’est en 1959 que Monsieur le Professeur J.B. Thomas suggéra d’organiser périodiquement en Europe des symposiums consacrés à la photosynthèse. Nous devons, à ce propos, lui témoigner toute notre gratitude.*’ [It was in 1959 that Professor J.B. Thomas suggested periodic symposia in Europe devoted to photosynthesis. For this proposal we must all be grateful.] This conference was the second Western European Conference on Photosynthesis, the first one being the one in 1962 held in Gif-sur-Yvette, France, although it was not so called. The proceedings ‘Currents in Photosynthesis’ were edited by Thomas and Goedheer (1965). (See van Ginkel and Goedheer (1991) for an obituary of Thomas.)

Figure 3 is a group photograph of this conference (provided by Yaroslav de Kouchkovsky). At the conference, 52 papers were presented, and the proceedings had 486 pages. As already mentioned above, this and the 1962 ‘La Photosynthèse’ conferences were the precursors of the three-yearly International Congresses on Photosynthesis Research. For a

complete list of all the international congresses, see Govindjee et al. (1962) and Govindjee and Krogmann (this issue).

The authors in ‘Currents in Photosynthesis’ included: Jan Amesz; Daniel I. Arnon; Mordhay Avron; H. Baltscheffsky; Britton Chance; Rod Clayton; Yaroslav de Kouchkovsky; Louis N.M. Duysens; David Fork; Giorgio Forti; Joop C. Goedheer; Govindjee; Ulrich Heber; Günter Jacobi; Pierre and Anne Joliot; Otto Kandler; Bacon Ke; Bessel Kok; Jean Lavorel; M. Losada; John Olson; B. Rumberg; W. Simonis; C. Sironval; Christiaan Sybesma; Jan B. Thomas; Leo Vernon; Wim J. Vredenberg; J.S.C. Wessels; Horst Witt.

The first International Photosynthesis Congress: 1968

First International Conference on Photosynthesis Research: Freudenstadt, Germany

During 4–8 June 1968, the first international conference on photosynthesis was held in Freudenstadt, Germany. It was organized by Helmut Metzner (Director of the Institute of Chemical Biology, University of Tübingen, Germany). Metzner (1969) did a wonderful job in securing attendance by scientists from the former Soviet Union, and single-handedly published its proceedings in three volumes (Volume I: Structure of the Photosynthetic Apparatus; Physiology of Photosynthesis; Volume II: Plastid Pigments; Electron Transfer; Volume III: Photophosphorylation; CO₂ Fixation; Mechanisms of Action of Herbicides; 1807 pages) containing 215 papers from 362 authors. [See Karin Fischer-Zeh (2000) for an obituary of Metzner.]

A bit of historical statistics: about 10% of the authors of the 1968 conference are also authors in these historical volumes (Govindjee and Gest 2002; Govindjee et al. 2003a, b; Govindjee, Thomas and Allen, this issue). Figure 4 shows some of the participants at the Freudenstadt conference. After the presentation of the Presidential address by Helmut Metzner, Melvin Calvin delivered a unique ‘perspective’ of the entire field of photosynthesis discussing the contributions of different groups of scientists (organic chemists; physical chemists; biochemists; physicists) followed by recent developments that included the Z-scheme.



Figure 4. A photograph of some of the participants at the 1st International Congress of Photosynthesis Research, held in June 1968, at Freudstadt. In the front row, I recognize C.P. Whittingham (first from left) and Giorgio Forti (third from left); in the second row Wolfgang Junge (second from left), Govindjee (third from left); in the third row R. Gregory (first from left); Helmut Metzner (organizer, second from left; wearing striped tie and glasses), Wim Vredenberg (third from left); in the fourth row Nam Hai Chua (first from right, holding the railing) and Paul Levine (second from right, behind Chua). Readers may send corrections, and additional identities by e-mail: gov@uiuc.edu. Photo by FOTO-LENGERER (photo no. 6V); courtesy of the late Helmut Metzner.

List of edited books, symposia volumes, and selected special issues of journals: author's choice

In Part 2 of the history issues, Govindjee et al. (2003b) provided a list of selected books published on photosynthesis. Here, I provide a list of selected edited volumes since 1935 (Proceedings of conferences, discussed thus far, are, however, listed under 'References').

The following list is arranged chronologically, but within the same year, it is alphabetical. N/A stands for 'Not applicable,' or 'Not available.' LCCC no.: Library of Congress Catalog Card Number; ISBN: International Standard Book Number; in some cases special notes and additional information are provided; *the special issues of the journals are italicized.*

The 1950s

Danielli JF and Brown R (eds) (1951) Carbon Dioxide Fixation and Photosynthesis. Symposia for Experimental Biology Number V. The University Press, Cambridge, UK (ISBN/LCCC no.: N/A)

Biological Section of USSR Academy of Science and Biology Department of Moscow State University (organizers) (1959) Problems of Photosynthesis (symposium held in 1957). Publishing House of the USSR Academy of Sciences, Moscow, USSR (ISBN/LCCC no.: N/A)

The 1960s

Allen MB (ed) (1960) Comparative Biochemistry of Photoreactive Systems. Symposia on Comparative Biology of the Kaiser Foundation Research Institute, Vol. I. Academic Press, New York (LCCC no.: 60-14262)

Daniels F (ed) (1960) Photochemistry in the Liquid and Solid States. Based on Some of the Papers Presented at a Symposium Arranged by the Sub-committee of the National Academy of Sciences-National Research Council on the Photochemical Storage of Energy, 1957, Endicott House. John Wiley and Sons, New York (ISBN/LCCN: N/A)

Pirson A (ed) [Ruhland W (General ed)] (1960) Encyclopedia of Plant Physiology, Vol. V, Parts 1 and 2: The Assimilation of Carbon Dioxide. Springer-Verlag, Berlin (ISBN: N/A) (see a discussion in Govindjee, Beatty, J. Thomas and Gest, Howard (2003) Photosynth Res 76: 1-11.)

Steward FC (ed) (1960) Plant Physiology, A Treatise, Vol. IB: Photosynthesis and Chemosynthesis. (See chapters by Hans Gaffron and by Martin Gibbs and Jerome Schiff) Academic Press, New York (LCCC no.: 59-7689)

- Ashida J (President) and the Japanese Society of Plant Physiologists: (1963) Studies on Microalgae and Photosynthetic Bacteria: A Collection of Papers Dedicated to Hiroshi Tamiya on the Occasion of his 60th Birthday. The University of Tokyo Press, Tokyo (ISBN/LCCC no.: N/A) (Note that at this conference, the concept of 'Q' (Q_A) in Photosystem II was born, Louis N.M. Duysens and H.E. Sweers, pp 353–372.)
- Gest H, San Pietro A and Vernon LP (eds) (1963) Bacterial Photosynthesis, a Symposium Sponsored by the Charles F. Kettering Research Laboratory. The Antioch Press, Yellow Springs, Ohio (ISBN/LCCC no.: N/A) (At this conference Robin Hill presented a toast to Cornelis B. van Niel; see the photograph in Vernon (2003) Photosynth Res 76: 379–388.)
- Tamiya H (ed) (1963) Mechanisms of Photosynthesis: Proceedings of the 5th International Congress of Biochemistry, Moscow, 10–16 August 1961, Vol. 6. IUB Symposium Series, 26. PWN – Polish Scientific Publishers and Pergamon Press, London (LCC no.: 59-8791)
- Krogmann DW and Powers WH (eds) (1965) Biochemical Dimensions of Photosynthesis. Wayne State University Press, Detroit, Michigan/Ambassador Books, Toronto, Ontario (LCCC no.: 65-18209)
- Goldman CR (ed) (1966) Primary Productivity in Aquatic Environments. Proceedings of an I.B.P. P.F. Symposium, Pallanza, Italy, 26 April–1 May 1965. University of California Press, Berkeley, California (ISBN: 0520014251)
- Goodwin TW (ed) Davies BH, Goodwin TW (director) Kirk JTO, Mercer EI, Rogers LJ, Threlfall DR and Wasdell MR (organizers) (1966) Biochemistry of Chloroplasts. Vol. I – Proceedings of a NATO Advanced Study Institute held at Aberystwyth, UK, August 1965. Academic Press, London (LCCC no.: 66-25085)
- Sanadi DR (ed) (1966) Current Topics in Bioenergetics, Vol. 1. Academic Press, New York (LCCC no.: 66-28678) (It contains chapters by Warren Butler, George Cheniae, Norman Good, Geoffrey Hind, Seikichi Izawa, and Bessel Kok, among others.)
- Vernon LP and Seely GR (eds) (1966) The Chlorophylls. Academic Press, New York (LCCC no.: 66-24176)
- Goodwin TW (ed) Davies BH, Goodwin TW (director) Kirk JTO, Mercer EI, Rogers LJ, Threlfall DR and Wasdell MR (organizers) (1967) Biochemistry of Chloroplasts. Vol. II – Proceedings of a NATO Advanced Study Institute held at Aberystwyth, UK, August 1965. Academic Press, London (LCCC no.: 66-25085)
- Nichiporovich AA (ed) (1967) Photosynthesis of Productive Systems. Israel Program for Scientific Translations, Israel. Academy of the Sciences of USSR. (IPST catalog no.: 2182)
- San Pietro A, Greer FA and Army TJ (eds) (1967) Harvesting the Sun: Photosynthesis in Plant Life. A symposium sponsored by International Minerals and Chemical Corporation (IMC), Chicago, Illinois, 5–7 October 1966. Academic Press, New York
- Gurinovich GP, Sevchenko AN and Solov'ev KN (1968) Spectroscopy of Chlorophyll and Related Compounds. [in Russian] Izdatel'stvo Nauka i Tekhnika, Minsk, The Soviet Union (translation, prepared in 1971, is available from the National Technical Information Service, US Department of Commerce, Springfield, Virginia 22151; AEC-tr-7199, Translation Series, US Atomic Energy Commission)
- Shibata K, Takamiya A, Jagendorf AT and Fuller RC (eds) (1968) Comparative Biochemistry and Biophysics of Photosynthesis. University Park Press, State College, Pennsylvania/University of Tokyo Press, Tokyo (LCCC no.: 68-24152)
- The 1970s*
- Gibbs M (ed) (1971) Structure and Function of Chloroplasts. Springer-Verlag, New York (ISBN: New York 0387052585; Berlin 3540052585)
- Hatch MD, Osmond CB and Slatyer RO (eds) (1971) Photosynthesis and Photorespiration; Proceedings of a Conference Held at Australian National University, Canberra, Australia, 23 November–5 December 1970. Wiley-Interscience, New York (ISBN: 0471359009)
- Pearlstein RM (ed) (Smith KC, executive editor) (1971). *The Photosynthetic Unit. Proceedings of the International Conference held in Gatlinburg, Tennessee, 18–21 May 1970. Photochem Photobiol 14: 231–471.* This conference honored five pioneers of photosynthesis: William A. Arnold; Lawrence R. Blinks; C. Stacy French; Hans Gaffron; Eugene I. Rabinowitch. It included papers (numbers are given in parenthesis) on 'Luminescence' (5); The oxygen side (3); Reaction centers (4); The Z-scheme (4); 'The photosynthetic unit' (1). In addition to those honored, the list of speakers included: Daniel I. Arnon; Warren Butler; George Hoch; George Feher; R. Clinton Fuller; Leo P. Vernon; J. Philip Thornber; Bessel Kok; Pierre Joliot; Jean Lavorel; Derrel Fleischmann; Walter Bertsch.
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