

Box List: Govindjee and Rajni Govindjee Papers, 1938-2025
 Physiology and Biophysics, UIUC
ID: 15/17/21

Arrangement:

Series 1: Personal, 1956-2019
 Series 2: Rajni Govindjee, 1953-1969
 Series 3: Correspondence, 1950-2008
 Series 4: Research Notebooks and Data, 1937-2007 Series 5:
 Subject files, 1948-2016
 Series 6: Grants, 1963-2012
 Series 7: Conferences and Presentations, 1957-2019
 Series 8: International Society of Photosynthesis Research, 1990-2001
 Series 9: Teaching Materials, 1958-2007
 Series 10: Research on the History of Photosynthesis, 1938-2011
 Series 11: Publications, 1955-2019
 Series 12: Slides, Lantern Slides, and Photographs, 1950-2000
 Series 13: Artifacts, ca. 1920s-2025

Complete Finding Aid:

<https://archon.library.illinois.edu/index.php?p=collections/controlcard&id=3170>

Box list created 2020-08-02

Repository:

University Archives
 University of Illinois at Urbana-Champaign
<http://archives.library.illinois.edu/>

Govindjee's CV, publications, graduate students, photos, teaching materials, and more can be found on his website: <https://www.life.illinois.edu/govindjee/>

Accession 1: 1981

15/17/21

Liberal Arts and Sciences Physiology
 and Biophysics Govindjee Papers, 1955-
 1982

Box 1:

Curriculum Vitae, with list of publications, August 1, 1980 Correspondence
 from Emerson, Chalmers, Rabinowitch;

Clippings concerning Emerson, Botany Department (1955-59)

Publication, Reprints of Research Articles, 1965-68

1969-1970

1971

1972-1973

1974-1975

1960-1961

1976-1984

Lecture on Photosynthesis, May 1978, Modified and Published 1982

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Accession 2: 2019

Series 1: Personal, 1956-2019

This series includes Govindjee's curriculum vitas, as well as his academic records, awards, and materials related to doctoral coursework at the University of Illinois, including his thesis: "Effect of Combining Two Wavelengths of Light on the Photosynthesis of Algae". Also included are several biographical accounts, an interview by Joy Block, and a retirement scrapbook. This series is arranged chronologically, with the CVs listed first.

Box 2:

1. Curriculum vitae, 1967-1995
2. Govindjee vitae and figures, 1982-1984
3. Fulbright Educational Exchange Program certificate, 1956
4. Biochemistry exams, 1957
5. Franck-Condon principle notes, in response to E. Rabinowitch's questions, ca. 1957
6. Photobiology qualifying exam, ca. 1957
7. Physico-Chemical Biology exam, 1957
8. Summary of Thesis, c. 1967
9. Reading notes—photosynthesis, ca. 1958
10. Lab book—Botany 436, with Robert Emerson, 1958
11. Lab book—Physics 371, 1958
12. Lab book—Physics 371, ca. 1958-1959
13. Lab book—Physics 374, 1959
14. Photograph—Extended family, ca. 1960
15. UIUC—Thesis deposit certificate, 1960
16. Govindjee thesis, University of Illinois: "Effect of Combining Two Wavelengths of Light on the Photosynthesis of Algae", 1960
17. Index of lectures given outside the botany department c. 1960s
18. Correspondence—Visa, 1961-1962
19. Autobiographical Notes of Govindjee, 1965-1968
20. Exams – language, 1966
21. University of Illinois transcript, 1967
22. Society membership certificates, 1970-1978
23. Lists of past research collaborators and PhD students, 1976-1999
24. UIUC—Distinguished Lecturer Award, 1978
25. *Hindustan Times* interview, 1983
26. Alumni Lab, 1985
27. Govindjee book announcements and reviews, 1986-1989
28. Biographies, ca. 1990-2007
29. Retirement scrapbook, 1999
30. *Amma and Babuji: Our Life at Allahabad*, edited by Govindjee, 2007
31. Rebeiz, et. al., "Govindjee was Honored with the First Lifetime Achievement Award," *Photosynthesis Research*, 2007
32. Jawaharlal Nehru University ID card, ca. 2008
33. Indian Cultural Society of Urbana-Champaign, 2010
34. Joy Block, Interview of Govindjee and dissertation chapter, 2016-2018
35. National Symposium on Photosynthesis and Felicitation Function of Professor Govindjee plaque (located in Oversized Materials, Box 35), 2017

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Box 2:

36. University of Hyderabad award for Pioneering Research Contributions to the Field of Photosynthesis (located in Oversized Materials, Box 36), 2017
37. Sikkim University National Science Day plaque (located in Oversized Materials, Box 37), 2019
38. Virendra Kumar, "Wings to a Child's Dream: A Tribute to Govindjee," ca. 2019

Series 2: Rajni Govindjee, 1953-1969

This series contains Rajni Govindjee's correspondence, academic records, research data, and lecture notes. Rajni Govindjee's lab books are of particular interest and contain research data and notes from her collaborations with Robert Emerson and Eugene Rabinowitch. This series is arranged alphabetically.

Box 2:

39. Chlorella—Light curves and data, 1964
40. Chlorella—Light curves and data, 1964
41. Correspondence, 1957-1969
42. Correspondence—University of Illinois appointments, 1958-1966
43. Graduate school application materials, including academic records, 1953-1956
44. Lab book—Ethyl Chlorophyllide-Thiourea, 1957-1959
45. Lab book—Laboratoire de Photosynthèse, France, 1968
46. Lab book—Personal notes, 1955
47. Lab book—TPN reaction experiments and PPNR preparation, 1962

Box 3:

1. Lab book—TPN reaction notes, also contains lab dad collected by Louisa Yang, 1962-1963
2. Magner, Thomas F, *Manual of Scientific Russian*, 1958
3. Notes on molecules and light absorption laws, in response to E. Rabinowitch's questions, ca. 1957
4. Photobiology—"The Photochemical Stage of Photosynthesis," 1957
5. Rajni Govindjee lecture notes (includes some Govindjee Govindjee), 1959
6. University of Illinois—Graduate College records, 1959-1961

Series 3: Correspondence, 1950-2008

This series comprises personal and professional correspondence. This series is divided into four subseries based on Govindjee's original arrangement. The first subseries contains correspondence related to Robert Emerson, Eugene Rabinowitch, and Govindjee's research laboratory at the University of Illinois in the 1950s and 1960s. Thus, this subseries includes correspondence by Emerson and Rabinowitch as well as Govindjee. The second subseries comprises Govindjee's personal and professional correspondence with friends, graduate students, associates, collaborators, academic organizations, and publishers in the 1960s and early 1970s. Subseries three includes Govindjee's correspondence with graduate students, and research associates, and collaborators from the late 1960s through the 1970s. The fourth subseries comprises Govindjee's general correspondence. This series is arranged alphabetically.

Subseries 1: Emerson, Rabinowitch, and Govindjee Lab Correspondence, 1950s-1970s

Box 3:

7. Thomas Bannister, 1958-1969
8. Maarib Bazzaz, 1961-1968
9. Glenn Bedell, 1966-1969
10. Patrick Breen, 1965-1970

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Box 3:

11. Jean-Marie Briantais, 1968-1969
12. Marcia Brody, 1958-1967
13. S.S. Brody, 1956-1969
14. Carl Cederstrand, 1955-1966
15. Bireswar Chakrabarti, 1967
16. Ruth V. Chalmers, 1952-1959
17. Frederick Y. Cho, 1966-1969
18. Lucie Clark, 1958-1959
19. Mrinmoyee Das, 1965-1969
20. Ervie Ditzler, 1958-1967
21. Harry Ehrmantraut, 1951-1952
22. Fred Fowler, 1968-1969
23. Danuta Frackowiak, 1963-1969
24. Ashish Kumar Ghosh, 1962-1975
25. Govindjee, 1956-1968
26. John Heise, 1960
27. Janos Hevesi, 1968
28. A. Stanley Holt, 1954-1966
29. William S. Hough, 1967-1968
30. William Huemoeller, 1967
31. Shoji Ichimura, 1950-1961
32. E.E. Jacobs, 1952-1967
33. He Chun Kim, 1960
34. Anne Krey, 1963-1966
35. Ashok Kumar, 1967-1977
36. Paul Latimer, 1956-1967
37. Prasanna Mohanty, 1966-1975
38. John Munday, 1965-1969
39. Neti R. Murty, 1962-1965
40. Mary Osbakken, 1966-1969
41. George Papageorgiou, 1966-1975
42. Prospective research associates—closed, 1962-1968
43. Prospective research associates—current, 1968
44. Prospective students, 1968-1969
45. Prospective students—closed, 1958-1962
46. Thomas Punnett, 1952-1967
47. Daniel Rubinstein, 1959-1963
48. Suresh Dayahabi Shroff, 1960-1962
49. Carmela Shimony, 1966-1967
50. Vitaly Alexeyevich Sineshchokov, 1967
51. G.S. Singhal, 1965-1969
52. Jobie Spencer, 1959-1966
53. V. Srinivasan, 1967-1968
54. Alan Stemler, 1967-1975
55. Christiaan Sybesma, 1965-1975
56. Elisabeth Szalay, 1965-1970
57. Laszlo Szalay, 1968-1968

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Box 3:

58. Joseph Thomas, 1968
59. Giiti Tomita, 1961-1966
60. Marilyn West, 1967-1970
61. W. Patrick Williams, 1964-1968
62. Wardella A. Wolford, 1968
63. Daniel Wong, 1972-1978
64. Louisa Yang, 1961-1966

Subseries 2: Govindjee's Personal and Professional Correspondence, 1960s-early 1970s

Box 3:

65. A, 1962-1974
66. Bernard Abbott, 1962-1971
67. Academic Press, Inc., 1962-1975
68. Advising Med. Tech. and Med. Rec., 1966-1967
69. Air Force Office of Scientific Research, 1965-1969
70. American Institute of Biological Sciences, 1972
71. American Society of Plant Physiologists (ASPP) Bulletins, 1963-1965

Box 4:

1. Jan M. Anderson, 1966
2. Annual Reviews of Plant Physiology, 1968
3. Atomic Energy Commission, 1965-1969
4. B, 1967-1975
5. Margery Beinfeld, 1972
6. Biochimica Biophysica Acta, 1965-1971
7. *Biophysical Journal*, 1966-1973
8. Biophysics, 1966-1975
9. Biophysics at Urbana, 1969-1973
10. *Botanical Review*, 1964-1969
11. Botany curriculum, 1969-1973
12. Botany Department, 1967-1974
13. Botany Department advisory committee, 1966-1967
14. Botany Department minutes and reports, 1964-1970
15. Botany Department requests for equipment, 1968-1972
16. Botany faculty, 1961
17. Patrick J. Breen, 1968
18. Jean-Marie Briantais, 1970-1972
19. Brown Publishing Company, 1966-1967
20. C, 1963-1974
21. *Catholic Youth Encyclopedia*, 1967
22. Carl Cederstrand, 1965
23. Britton Chance, 1963-1973
24. George Cheniae, 1967-1972
25. Chinese Delegation, 1974-1975
26. Codebag, 1970
27. Crop Science, 1967
28. D, 1962-1975
29. Manchehr, Dezfulian, 1962-1964
30. E, 1965-1975

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Box 4:

31. Ecology search committee, 1972-1973
32. Emerson book—University of Illinois Press, 1963
33. Emerson Memorial Fund, 1965-1968
34. European Molecular Biology Organization, 1968-1971
35. F, 1963-1975
36. FEBS Letters, 1971-1973
37. Karen Fischer, 1971-1974
38. Food Technology Transfer-Foundation, Inc., 1975
39. Freeman Publishers, 1969-1975
40. G, 1963-1975
41. Elizabeth Gantt, 1966
42. Nichlas Geacintov, 1970-1974
43. Ashish Ghosh, 1969-1974
44. Arthur Giese, 1969-1971
45. Govindjee, 1962-1971
46. Govindjee—Academic appointments, 1965-1974
47. Govindjee—Personal, 1964-1975
48. Govindjee—Sabbatical, 1967
49. Graduate programs, 1969
50. George Guilbault, 1967-1972
51. H, 1962-1975
52. I, 1965-1975
53. Indiana University, 1970-1971
54. J, 1962-1975
55. Jobs, 1964-1972
56. Pierre Joliot, 1968-1974
57. *Journal of Scientific and Industrial Research*, 1966-1972
58. Junk Publishers, 1972
59. K, 1963-1975
60. L, 1963-1975
61. Jean Lavorel, 1964-1973
62. John C. Munday, 1965-1973
63. Mc, 1965-1975
64. McGraw Hill, 1966-1970
65. George Papageorgiou, 1968-1974
66. *Photochemistry and Photobiology*, 1964-1969
67. *Photophysiology*, 1968-1969
68. *Photosynthetica*, 1966-1967
69. Physiology and Biophysics, 1967
70. Plant Physiology, 1963-1973
71. Prospective Research Associates, 1968-1974
72. Publishing companies, 1962-1975
73. Q, 1972
74. R, 1965-1975
75. Eugene Rabinowitch, 1962-1975

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Box 5:

1. S, 1970-1975
2. S, 1962-1972
3. *Science*, 1964-1966
4. *Science and Culture*, 1966
5. *Scientific American*, 1962-1974
6. Seminars given by Govindjee, 1969-1973
7. W.P. Stewart, 1963-1974
8. T, 1966-1975
9. U, 1965-1975
10. University of Illinois—General, 1970-1973
11. University Research Board, 1969-1972
12. V, 1962-1975
13. W, 1963-1974
14. John Wiley, 1966-1974
15. Patrick Williams, 1965-1974
16. XYZ, 1969-1974

Subseries 3: Correspondence with Graduate Students, Research Associates, and Collaborators, 1970s

Box 5:

17. A, 1966-1978
18. V.K. Anand, 1974
19. B, 1961-1980
20. A.K. Banerjee, 1971-1972
21. Maarib Bazzaz, 1970-1974
22. Glen Bedell, 1972-1973
23. N.R. Bhat, 1972-1973
24. *Bioenergetics of Photosynthesis*, 1974
25. Barbara Zilinskas Braun, 1971-1976
26. C, 1973-1979
27. Saroj K. Chakrabarti, 1972
28. Fred Cho, 1967-1970
29. Raymond Chollet, 1970-1972
30. A.R. Crofts, 1975
31. D, 1973-1979
32. E, 1968-1978
33. Anne-Lise Etienne, 1966-1967
34. F, 1973-1979
35. Fred Fowler, 1972
36. G, 1963-1980
37. Ralphreed A. Gasanov, 1972-1974
38. H, 1973-1980
39. *Handbook of Nutrition and Food*, 1976
40. Gwendolyn Hayes, 1970-1971
41. Peter Hummeland, 1972
42. I, 1978-1980
43. Invited lectures and trips, 1976-1978
44. J, 1973-1978
45. Job inquiries and opportunities, 1976-1979

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Box 5:

46. Paul Jursinic, 1972-1978
47. K, 1973-1980
48. Kettering Foundation, 1975-1976
49. Rita Khana, 1972-1976
50. L, 1973-1979
51. Deborah Lamm, 1974
52. Letters of recommendation, 1975-1978
53. Kevin Lynch, 1973-1974
54. M, 1973-1980
55. Shobha Madan, 1975
56. Ted Mar, 1966-1975
57. Ted Mar, 1972-1978
58. Peter Melcarek, 1972
59. Prasanna Mohanty, 1970-1978
60. Mohammad H. Mondal, 1972-1974
61. John C. Munday, 1967-1978
62. C.K. Munirathnam, 1971-1973
63. N, 1975-1979
64. O, 1977-1978
65. O, 1980
66. P, 1973-1979
67. P, 1979-1980
68. George Papageorgiou, 1965-1980
69. *Plant Biochemical Journal*, 1974-1975
70. *Photochemistry and Photobiology*, 1976
71. Prospective students and research associates, 1967-1974
72. R, 1973-1979
73. Nursing Rao, 1978
74. Research Board, 1975-1976
75. S, 1973-1980

Box 6:

1. Sabbatical leave, 1975-1976
2. Ralph Schooley, 1974
3. *Scientific American* article, 1974
4. Dilip K. Shamanna, 1971-1972
5. James N. Siedow, 1969
6. Roy Smith, 1972
7. Alan Stemler, 1971-1974
8. Student inquiries, 1976
9. Charles Swenberg, 1975
10. T, 1973-1980
11. Travel approvals, 1976-1979
12. V, 1973-1980
13. U, 1976-1979
14. Karel Vacek, 1975-1977
15. David Vander Meulen, 1972-1980
16. Malina Vatal, 1972

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Box 6:

17. W, 1973-1980
18. Joseph Warden, 1971-1972
19. Thomas Wydrzynski, 1975-1978
20. X, Y, Z, 1973-1980
21. Rakesh C. Yashroy, 1972
22. Barbara Ann Zilinskas

Subseries 4: General Correspondence

Box 6:

23. 2005-2005 correspondence
24. General Correspondence -- A, 1982-2003
25. George Akoyunoglou, 1973
26. American Society for Photobiology, 1967-1997
27. ASP – 1979 PS SXMP.
28. Yash P. Arbol 1995
29. William Arnold, 1976-1996
30. Takashi Akazawa 1993
31. General Correspondence -- B, 1979 – 2007
32. Bioenergetics of Photosynthesis, 1973
33. Jean-Marie Briantais, 1985-1993
34. S. Brushing, 1984
35. General Correspondence – C, 1984-1998
36. Commissariat A L'Energie Atomique, 1992
37. Comments on molecular and cellular biophysics, 1979-1985
38. Children's Letters to Govindjee, 1968-1969
39. CRC Press, Inc., 1976-1985
40. Bill Coleman, 1985-1986
41. General Correspondence – D, 1984-1995
42. Desai Manuscript, 1989-1990
43. General Correspondence – E, 2011
44. Julian Eaton-Rye, 1957-1992
45. Anne-Lise Etienne, 1993
46. General Correspondence – F, 1985
47. George Feher, 1987-1988
48. James Fenton, Coleman Blubaugh, 1976-1986
49. General Correspondence – G, 1984-1997
50. Germany, Berlin, 1976
51. Gibbs Martin letter, 1969-1996
52. Adam Gilmore, 1992-1996
53. Govindjee, 1974-1997
54. General Correspondence – H, 1984-2010
55. Bruce Henkin – IBM Lecture, 1976
56. Inoue, Y., 1995
57. Invitations, 1963-2006
58. Invitations, 1987-1988
59. ISPR emails part 1, 2001-2002
60. ISPR emails part 2, 2002

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Box 6:

61. Jobs, 1988-1989
62. Journal for Plant physiology and Biochemistry, 1982
63. School of Life Sciences, 1973
64. Wolfgang Junge, 1975-1977
65. General Correspondence – K, 1980-2004
66. Charles F. Kettering Award correspondence, 1973-1974
67. Charles Kettering Foundation correspondence and expenditure joint grant ER and Gov., 1973
68. Rita Khanna, 1984
69. Kluwer Publishers, 2000
70. A. Krasnovsky, 1978-1979
71. General Correspondence – L, 1984-1998
72. Lavergne, 1973
73. Jean Lavorel, 1972-1973
74. Paul Loach, 1977
75. General Correspondence – M, 1981-2011
76. Magazines – Biochemica et Biophysica ect..., 1973
77. Midwest photosynthesis, 1981
78. Prassana Mohanty Reviewer's Forms, 1986
79. Prassana Mohanty, 1982-1990
80. I. Moya, Luve U. of Orsay, Orsay, France, Jan. 1990
81. Jack Myers, 1961-1988
82. J.B. – Netherlands, 1961
83. General Correspondence – N, 1988-1996
84. James Nance, 1977-1998
85. National Academy of Sciences, India, 1980-2001
86. National Academy of Sciences, India – Election to Academy in India, 1979
87. James Nauš, 1985
88. General Correspondence – O, 1989-1991
89. General Correspondence – P, 1980-2008
90. Dr. Robert Pearlstein, 1975
91. Photosynthesis research emails, undated
92. Photosynthesis research journal correspondence, instructions, Oct. 14, 1986
93. Photosynthesis research journal correspondence, 1986
94. Raghubir Prasad, 1970
95. Barbara Prézelin, 1977-1979
96. Martinus Pulles, 1978
97. General Correspondence – R, 1980-1998
98. Recommendations, 1975-1997
99. Reviews, 1975-1982
100. General Correspondence – S, 1980-2000
101. P.V. Sane, 1878-1980
102. Scientific American, 1973-1989
103. G.S. Singhal, 1976-1994
104. Society for Plant Physiology and Biochemistry, 1982
105. Marty Spalding, 1983
106. Stationary, 2002
107. Stemler, 1973-1995

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Box 6:

108. Strasser's 1978 letter to Govindjee (from Butler's book)
109. Lazlo Szalay, 1976-1980
110. General Correspondence – T, 1996
111. John Tooze, 1975-1976
112. UIUC – Biophysics, 1977-1980
113. UIUC – Botany, 1975-1981
114. UIUC – Center for Advanced Study, 1982-1988
115. General Correspondence – V, 1980-1997
116. J.J.S. Van Rensen, 1976-2002
117. Bruno Velthuys, 1978
118. Wim Vermaas, Nov. 10, 1992
119. Vermaas, 1980
120. Vroomau and Myers, 1963

Box 7:

1. General Correspondence – W, 1993-2003
2. John Whitmarsh, 1980-1985
3. Correspondence 1974 Whitmarsh with Govindjee
4. Tom Wydrzynski, 1980-2000
5. Wydrzynski, 1976
6. Wydrzynski letter on chloride 1989
7. Wydrzynski, Wurmser, and Coleman, c. 1980s
8. Chunhe Xu, 1986-1993
9. General Correspondence – X, Y, Z, 1990-1993

Series 4: Research Data, Notes, and Lab Books, 1937-2007

This series comprises research data, analytics, notes, and lab books relating to Govindjee's study of photosynthesis. This series is divided into three subseries. The first contains research data and analytics from Govindjee's laboratory experiments, the earliest of which he conducted with Robert Emerson, Eugene Rabinowitch, and Rajni Govindjee. Thus, some folders may contain Emerson's, Rabinowitch's, or Rajni Govindjee's research data and notes. Items in this subseries are listed in chronological order by year and alphabetically therein. The second subseries includes Govindjee's research notebooks, conference and meeting notebooks, and lab books, arranged chronologically. The third subseries comprises graduate students' and research associates' lab books, chronologically arranged.

Box 7:

Subseries 1: Research Data and Analytics

10. Results of W.C.I. Cooper, 1937
11. Transmission curves (possibly Robert Emerson's data), 1948
12. Laboratory recipes (possibly Robert Emerson's recipes), 1949
13. a/b experiments (possibly Robert Emerson's data), ca. 1950s
14. Bacterial photosynthesis (possibly Robert Emerson's data), ca. 1950s
15. Emerson's curves, ca. 1950s
16. Ethyl chlorophyllide preparation, ca. 1950s
17. Lab recipes (possibly Rajni Govindjee's recipes), 1951-1959
18. Material for manuscript on optical densities of cells and extracts, 1953

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Box 7:

19. *Scenedesmus* (possibly Robert Emerson's data), 1953
20. Anita Lasher and Lowell Woodstock, 1954-1959
21. Calculations of vessel constants, 1955
22. Data—Inequality between ρ and KO_2 / RO_2 (possibly Robert Emerson's data), 1955
23. *Anacystis nidulans* culture and pigment analysis (possibly Robert Emerson's data), 1956-1957
24. D_2O experiments (possibly Robert Emerson's data), 1957
25. D_2O correspondence (Robert Emerson's correspondence), 1957
26. *Porphyridium/Navicula* blue-greens, 1957
27. Quantum field measurements—HBO 410, 1957
28. Research data from India, 1957
29. Research: Miscellaneous data and notes, 1957-1961
30. Valuable results—Twin beam, etc. (possibly Robert Emerson's data), 1 of 2, 1957
31. Valuable results—Twin beam, etc. (possibly Robert Emerson's data), 2 of 2, 1957
32. *Anacystis nidulans* nanometric experiments (possibly Robert Emerson's data), 1958
33. *Polyedriella helvetica* nanometric experiment, 1958
34. Spectrophotometric data (possibly Robert Emerson's data), April 1958
35. *Porphyra perforata*, 1959
36. Fred Cho—*Chlorella* emission spectra data, ca. 1960s
37. Curves: Absorption, ca. 1960s
38. Hg spectral line graph, ca. 1960s
39. 740-750 m μ pigment, 1960
40. 740-750 in vitro pigment, 1960
41. 740 pigment, 1960-1961
42. *Anacystis* absorption, 1960
43. *Anacystis sp.*, experiments 1 through 24, 1960
44. *Anacystis* supplim. light experiments, 1960
45. Bacterial photosynthesis, 1960-1963
46. Charact. curve RCA PM6217, correction factors and summary, 1960
47. *Chlorella* extreme red lite effect (new grating), 1960
48. *Chlorella* "negative pigment," 1960-1961
49. *Chlorella* phytochrome or algae graphs and curves, 1960-1967
50. Emerson Effect in PHS of *Chlorella* grown in earth extracts, 1960
51. Fluorescence data, March 21-31, 1960
52. Fluorescence data, 1 of 2, April 1960

Box 8:

1. Fluorescence data, 2 of 2, April 1960
2. Graphs 1 to 4 and Ichimura's curve, 1960
3. Grating certifications, 1960-1961
4. Hill Reaction Experiments—Inhibitory effect (possibly Rajni Govindjee's data), 1960-1962
5. Light curve *Chlorella* (2), 1960
6. Light curves *Porphyridium*, 1960
7. *Porphyridium*, 1960
8. *Porphyridium* ("counter effect"), 1960
9. *Porphyridium* supplim., 1960
10. Sensitivity of λ to inhibition effect, 1960-1961
11. Spectroscopy of 745 m μ pigment, 1960

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Box 8:

12. Suppem. Experiments results, 1960
13. 3λ experiments, 1961
14. 650 mμI and Emerson effect, 1961
15. 690 mμI and Emerson effect, 1961
16. Absorption spectra—Wet filter paper technique, 1961
17. Calibrations, 1961-1965
18. *Chlorella*—Beekman-unsteady-abs., 1961
19. *Chlorella*—Blue peak, 1961
20. *Chlorella*—Reinvestigation of inhibition effect, 1 of 2, 1961-1962
21. *Chlorella*—Reinvestigation of inhibition effect, 2 of 2, 1961-1962
22. Effect of Temperature on absorption spectra, 1961
23. Emerson Effect, 1 of 2, 1961
24. Emerson Effect, 2 of 2, 1961
25. Fluorescence curves, 1961-1962
26. Fluorescence instrument, Spencer and Govindjee, 1961-1962
27. Light intensity of supplementary light and the Emerson effect, 1961
28. Vitamin K experiments, 1961
29. Vitamin K experiments, 1961
30. P705 experiments, 1962
31. *Anacystis*, 1962
32. *Anacystis*, 1962
33. *Chlorella*, 1962
34. Chloroplast-TPN E.E. Long paper, 1962
35. Emerson Effect, 1962
36. Ms. chloroplasts, 1962
37. Ms. chloroplasts, 1962

Box 9:

1. Rabinowitch and Govindjee lab correspondence, 1962-1963
2. RIAS data, 1962
3. Calibration of our thermophile, 1963-1967
4. Emerson Effect experiment data, 1963
5. Experiments: purple bacteria, 1963
6. Data calculations, 1963
7. Some spectra from Jobie Spencer's time in the lab, 1963
8. Louisa Yang, 1963
9. *Anacystis nidulans* absorption spectrum, 1964
10. Light intensity curves fluorospectrometer, 1964
11. Brown *Chlorella*, 1964
12. *Chlorella/porphyridium* data, 1964
13. Research notes (old work), 1964
14. Absorption spectra from algae, 1965
15. Shimony Ems, 1965-1967
16. Quantum yield data, 1967
17. P680 data—Berlin, 1968-1971
18. FCCP work, 1968
19. Fluorescence papers, 1968-1969

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
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Series 4: Research Data, Notes, and Lab Books, 1937-2007

Box 9:

20. Lavorel lab—M+ petik m data, 1968
21. *Chlorella* quenching vs. enhancement experiment, 1969-1971
22. Diagrams for instruments in the lab, ca. 1970s
23. Experimental plans HCO₃, ca. 1970s
24. Untitled lab notes and data, ca. 1970s
25. Breen's unfinished review of quinones and cytochromes, 1970
26. Lab assistants' notes and reports, 1970-1972
27. O₂ for red *preillum.*, 1971
28. Fluorescence Ψ data, 1972
29. DAS: action spectra of fluorescence, 1975
30. Ψ - Na and Mg (Moya), 1976
31. Manganese model, 1977
32. Research notes, 1977
33. Emission spectra 77K, sun and shade leaves, 1979
34. *Aphanothece halophytica*, ca. 1980s
35. Relaxation techniques, ca. 1980s
36. CIW reports, 1980s
37. Mn protein results, 1980
38. *Chlorella* experiment, 1981
39. Algae and HCO₃⁻, 1983
40. CO₂ depletion, 1983
41. H⁺ data, 1983-1986
42. Ψ paper RC, 1987-1989
43. High/low temperature fluorescence, 1988
44. *Chlamydomonas* data, 1989
45. *Chlamydomonas* transients—Trixie OIP only, 1989
46. Xutong—Data on M234 mutants, 1989
47. *Chlamydomonas* transients—npq81, npq2, wt, cc4, ca. 1990s
48. Thermoluminescence from D₁257 mutants ut, W, K, M, E, ca. 1990s
49. S6803 77K spectrum, 1990

Box 10:

1. PsbH- mutant (with Dilly and Ahmed)/Fluorescence data on *P. cruentum* (Fred Cho), 1990
2. DCMU results, 1993
3. Vlad's PNAS paper, 1993
4. Barley thylakoid emission spectra, 1996
5. Fluorescence data, 1996-1998
6. *Arabidopsis* graphs and reg. data, 1998
7. Ψ data Karukstis/Fanckniek greening of plants, 1998-1999
8. *Arabidopsis* charts, ca. 1998
9. *Arabidopsis* data, graphs, and tables, 1998
10. Calculations for Slaisi and Patil's data, 1998
11. Okazaki emission spectra data sets, 1998-2001
12. Saya Patil, W, X, Y, Z, 1998
13. Recipes/protocols, 1998-2008
14. *Nigericin* rpt., 1999

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Box 10:

15. Saya Patil—Report on study of npq mutants, ca. 1999
16. Manfredo Seuffereleld and Bengt TL data, 1999
17. Manfredo Seuffereleld *Arabidopsis* data, 1999
18. Q₁519H₂ / Q₁519H₂ data, ca. 2000s
19. Chemicals, ca. 2000s
20. Normalized *Arabidopsis* graphs, ca. 2000s
21. Spilotro, ca. 2000s

Subseries 2: Govindjee's Research Notebooks, Conference and Meeting Notebooks, and Lab Books

Box 10:

22. Bibliography of photosynthesis, ca. 1950s
23. Photosynthesis reading notes and chart, 1953
24. Photosynthesis lab book, 1955
25. Photosynthesis lab book, 1957-1958
26. Photosynthesis lab book, 1958
27. Differential manometer, ca. 1960s
28. Calvin Cycle, Botony, 1962
29. *Chlorella* experiments, 1962
30. *Chlorella* experiments, 1962
31. Notes—vision and Botany 330 lectures, ca. 1970s
32. FCCP data on *Chlorella*, 1971

Box 11:

1. Gordon Research Conference, Colby College; Philadelphia, PA, 1971
2. Items borrowed from Govindjee's lab/reading notes, 1971-1974
3. India research trip, 1973
4. Fluorescence reading and lab notes, 1974
5. Notes on chlorophyll and photosynthesis, CO₂, DLE intensity, 1974
6. Leiden, Utrecht seminars, 1976
7. Spheroplasts, 1977-1978
8. Green plants and cyanobacteria, 1978
9. Chloroplasts *in vivo*, 1979
10. Photosynthesis research, 1979
11. Figures from Hall and Rao, 1981
12. Midwest photosynthesis, 1981
13. Cyber 175, 1981
14. Tokten, 1981-1982
15. Reading and experiment notes, 1983
16. Genetics of photosynthesis and extrachromosomal inheritance, 1983-1987
17. Fluorescence research; BIO 121, 252, slides; 196 history SI + book; 250 Papageorgiou book, 1983-2000
18. Gordon Research Conference #2, 1984
19. *Photosynthesis* reviews; department; fluorescence instrument; Summer 1995, 1984-1996
20. Biophysical Society, San Francisco; Weber Symposium, 1985-1986
21. Molecular Biology basics; India photosynthesis research on bicarbonate, 1988-1989
22. Action spectrum of polarized fluorescence, 1989
23. Bicarbonate research, 1989-1992

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Box 11:

24. Mike Novak; Biology 251 notes; CCSO, 1989-1994
25. Quinones, bicarbonate, Q₃ Herbicides and the PSII RCs; Information on preps from Seibert; Carotenoids, 1989-1998

Box 12:

1. Arizona State University, 1990
2. 285-325 nm UV-B, 1990
3. Gordon and other conferences; PSII lab notes, 1990-1993
4. Historical Corner; Cao and bicarbonate effect, 1990-1998
5. Insight II and mutant research, 1991-1992
6. Ohio State University Argonne book, 1991-1993
7. Fluorescence spectroscopy, 1992
8. Turku, Finland lab notes, 1993
9. Research lab notes on fluorescence and PSII, 1995
10. Fluorescence imaging of *Arabidopsis* and contact lists, 1997
11. Japan research, 1997-1999
12. Photosystem II and chlorophyll *a* fluorescence, 1998
13. *Arabidopsis* research and lab notes, 1999
14. Photosynthesis education website plans, 2000
15. Photosynthesis reading notes and "Personal Perspectives," 2004
16. Bochum, New Delhi, 2006
17. Fluorescence course, 1999
18. Calculations, 1999

Subseries 3: Other researchers' lab books

Box 12:

19. Lary Orr—Photosynthesis II, 1985
20. Tom Sternberg—Summer Research 1994/lab notes on mutants, 1997-1998; Saya Patil—oxygen electrode, 1998
21. Manfredo Seufferheld, 1999-2000

Box 13

1. Manfredo Seufferheld, 2000
2. Diana Monsivais—*Agrobacterium* mutants, 2001
3. Manfredo Seufferheld—Exopolyphosphatase project tripanosoma, 2001-2002
4. Manfredo Seufferheld—Results reports, 2001-2002
5. Manfredo Seufferheld, 2002
6. Manfredo Seufferheld—*Agrobacterium* Ac. Cals. And *Rhodospirillum* Ac. Calci, 2002-2004
7. Unknown researcher—Growth curves, fura, polyphosphate, and proteins, 2006-2007

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Series 5: Subject files, 1948-2007

This series includes publication drafts, figures and tables, notes, outlines, overheads, posters, reference books and pamphlets for lab work, and research files. Some research data is included in these folders. This series also contains materials relating to Govindjee's overseas research trips and sabbaticals, visiting scholar lectures, collaborations with other scholars, teaching photosynthesis over the internet, and academic appointments. This series also contains copies of signatures from Adolf von Harnack's guest book—including signatures of Nobel laureates and Adolf Hitler. This series begins with sabbatical folders and annual reports binders put together by Govindjee. Those are listed first and arranged chronologically. The series also includes a card index of laboratory equipment and material suppliers: this is listed after the annual report binders. The rest of the series is arranged alphabetically.

Box 13:

8. Annual activity report 1973-74
9. Sabbatical 1967
10. Sabbatical 1975
11. Sabbatical 1975-1977
12. Sabbatical 1981-1982
13. Sabbatical 1989
14. Sabbatical 1994-1995
15. Sabbatical 1996
16. Govindjee Annual Report binder # 5 1978-1979
17. Govindjee Annual Report binder # 6 1980

Box 14:

1. Govindjee Annual Report binder # 7 1981
2. Govindjee Annual Report binder # 8 1982
3. Govindjee Annual Report binder # 9 1983
4. Govindjee Annual Report binder # 10 1984
5. Govindjee Annual Report binder # 11 1985-1986
6. Govindjee Annual Report binder # 12 1987
7. Govindjee Annual Report binder # 13 1988

Box 15:

1. Govindjee Annual Report binder # 14 1989
2. Govindjee Annual Report binder # 15 1990
3. Govindjee Annual Report binder # 16 1991
4. Govindjee Annual Report binder # 17 1992
5. Govindjee Annual Report binder # 18 1993
6. Govindjee Annual Report binder 1994 and 1995

Box 16:

1. Card index of suppliers for laboratory equipment/materials

Box 17:

1. 1/F USF plots of mutants, 1992
2. 251/438 stuff that led to Australia course and lectures, 1994
3. 410 TV Gov synechocystis model data cartridge, undated
4. 1996 book proposal, data, correspondence, and lecture
5. "A Background on: Two-electron Gate, Stress, Herbicide, and Bicarbonate Effects in Thylakoids of Plants and Cyanobacteria" first draft, 1993

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Series 5: Subject files, 1948-2007

Box 17:

6. Absorption chapter Blackwell, 1973-1974
7. Absorption characteristics of photosynthetic pigments in vitro and in vivo, 1966
8. Abstracts, 1974-1987
9. Addresses from China research trip, undated
10. Advances in photosynthesis, 1992-1997
11. Advances in photosynthesis – Kluwer Academic Publishers, 1991-1998
12. Advances in photosynthesis – New board – advances, Susan Golden/K. Satow/Christine Foyer – where is the form?, 1997
13. Advances in Photosynthesis – series descriptions, c. 2015
14. Ahmad, Uzma – molecular evolution of oxygenic photosynthesis, 1998
15. Allakhverdiev, Suleyman, 1996
16. American Academy of Arts and Sciences – fellow application, 2007-2008
17. Ames on APIH books
18. "appendix II" draft, undated
19. "Arginine 257 of the D1 Polypeptide of Chlamydomonas Reinhardt II is Implicated in the Bicarbonate and Formate Binding and Functionality in Photosystem II" summary, figures, and legends, c. 1990s-2000s
20. Argonne National Laboratory – Project Report, c. 1990s
21. ARIS, 1986-1991
22. Arizona State University – lecture notes and overheads: bicarbonate and Photosystem II, c. 1990sf
23. Arizona State University – methods folder, 1990
24. Arizona State University – seminar on Bicarbonate and Photosystem II, 1993
25. Arizona State University – x-ray films, 1990
26. ASP (American Society for Photobiology), 1976-1979
27. ASPP (American Society of Plant Physiologists) directories and addresses, 1962-1968
28. Bakri: Legends of figs./Bedell: figs. And tables, c. 1980s
29. Bannister/Govindjee's manuscript, c. 1970s
30. Bazzaz & Govindjee: Bundle sheath and Mesophyll paper, 1973
31. Beckman DU spect. Classical, c. 1970s
32. Bedell & Govindjee paper, 1973
33. Benson, Andy, 2008-2009
34. Berlin October 34, 1997 Govindjee overheads and slides, includes Adolf von Harnack book with copy of guest book signatures (including Nobel laureates and Adolf Hitler)
35. Bharati reviews, undated
36. Bicarbonate, 1976-1992
37. Bicarbonate, 1989
38. Bicarbonate and Carbonic Anhydrase notes, 1980-1986
39. Bicarbonate – Danny Blubaugh research proposal, 1985
40. Bicarbonate drafts, figures, and correspondence, 1988-1990
41. Bicarbonate – for presidential lecture, 1974-1975
42. Bicarbonate – Gibas model, c. 1990s
43. Bicarbonate – Gov., 1974-1984
44. Bicarbonate – Julian Eaton-Rye research proposal, c. 1985
45. Bicarbonate reprints Gov., 1981-1986

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Series 5: Subject files, 1948-2007

Box 18:

1. Binder – correspondence, grants, and reports (1 of 3), 1999-2000
2. Binder – correspondence, grants, and reports (2 of 3), 1999-2000
3. Binder – correspondence, grants, and reports (3 of 3), 1999-2000
4. Bioenergetics of Photosynthesis – correspondence, 1972-1973
5. Biological Spectroscopy, University of Geneva, 1992
6. *Biology Explorer* series – Photosynthesis Wings Program, 1993-1995
7. Biology lecture, undated
8. Biology programs – correspondence, 1982
9. Bionet.photosynthesis archives – email correspondence, 1999
10. Blubaugh and Govindjee, 1988
11. Blubaugh and Govindjee paper #1 to BBA Feb. 4, 1988
12. Blubaugh, David, 1993
13. Blubaugh, Govindjee, and Yu paper photochem – photobiol., 1987
14. Blubaugh – trial plant physiol. Paper, 1988
15. Book contribution invitations, 1978-1981
16. Book review – Clayton, "Photosynthesis: Physical Mechanisms and Chemical Patterns," 1981
17. Briantais, Jean-Marie, 1995-1996
18. Buffers: A Guide for the Preparation and Use of Buffers in Biological Systems, 1981
19. Butler, Warren, 1984
20. Calbiochem Biochemicals: "A Guide to the Use of Detergents in Biology and Biochemistry," 1990
21. Canaani, Ora, c. 1986
22. Cao and Govindjee BBA June 14, 1989
23. Cao, et al. Herbicide Resistant D1 Mutants article – published correspondence, 1992
24. Cao, et al. Herbicide Resistant D1 Mutants article – William Arnold letter, c. 1992
25. Cao/Govindjee "Electron Transfer article correspondence, 1991-1992"
26. CAO: PS RES., 1988
27. CARY spectrophotometer, 1971
28. Cation control of intersystem effects/structural changes, 1972-1974
29. Cederstrand – chlorella, undated
30. Cederstrand's Dodecahedron, 1965
31. Cederstrand paper on spectrophotometer instrument, 1965
32. Cederstrand spectrophotometer monochromator, dodecahedron amplifier
33. Chemically induced organic nuclear polarization, c. 1980s
34. China paper – 1999 figures Xu
35. Chlorella and chloroplast figures, 1962
36. Chloride and O₂ NMR Ion, 1981-1982
37. Chloride – NMR, 1988
38. Chl *a* fluorescence, 1991
39. Chlorophyll *a* Fluorescence as Intrinsic Probe of Photosynthesis, 1975
40. Chlorophyll *a* fluorescence – correspondence and lab data, 1977-1979
41. "Chlorophyll *a* fluorescence of Gonyaulax polyedra," 1978
42. Chloroplast genetics notes, 2005
43. Chylla, Roger, 1989
44. Climate change and global warning, 2001-2003
45. CMCB "Solar Energy Conversion: Charge Separation in Isolated Chlorophyll -Complexes from Green Plants," 1979
46. CO₂, 1981

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Box 18:

47. CO₂ – Carbon Dioxide, 1986-1988
48. CO₂ – Bruce Osborne, 1987-1994
49. CO₂ file/call Jordan, 1982-1987
50. CO₂ file -- other 1981-1982
51. CO₂, -- poster text and figures, 1990-1992
52. CO₂ Review BBA Bioenergetics issue, 1977-1978
53. Coleman, Bill, 1983-1994
54. Coleman, Bill – lecture notes, abstracts, correspondence, figures, and transparencies, including materials presented at Madras, 1984-1985
55. Coleman – chloride, 1985
56. Coleman et al. RPB 13032 revision, 1987

Box 19:

1. Coleman, William figs., 1988
2. Coleman, William – thesis figures, 1985
3. "Comparison of Mitchell and Williams' Theories for Energy Conservation," 1975
4. Contact and mailing lists, 2000-2001
5. Corning Glass Color Filter Catalog, 1965-1979
6. Correspondence about photosynthesis book, 1974-1984
7. Council for International Exchange of Scholars, 1980
8. Critchley, Christa, 1985
9. Crofts, undated
10. Cunningham Industries – photomultiplier curve correction device, 1964-1965
11. Dark reactions, undated
12. Date book and planner, 2004
13. ΔA Instrument/ EXAFS proposal, 1982
14. DeVault, Don 1985-1991
15. DeVault et al. paper 10/16/1981
16. Dilley figures,
17. Dmitrievski, O.D., et al. "Direct Measurements of the Life Time of Excited Molecules of Chlorophyll and Similar Pigments in Different Media," 1957
18. Draft, correspondence, and mailing lists for reviews – "Photosynthesis in Green Plants" (Govindjee, Rita and Rajni), 1983
19. Draft – Govindjee, R. Khanna, and R. Govindjee, "Photosynthesis in Green Plants," 1977
20. Drafts (1 of 2), c. 1982-1986
21. Drafts (2 of 2), c. 1982-1986
22. Drafts of Time-Res Chlorine, Gilmore, 1996
23. Drawings for Fluorescence Instrument, J.D. Spencer, 1964-1965
24. D'Souza, Joe – Council for International Exchange of Scholars, 1984
25. Ducoff, Howard – "Biophysics: The Dawn of CBCB and the Advantage of Physical Insight," c. 2000s
26. Duysens – reading notes, 1976
27. Eaton-Rye and Govindjee – "Effect of pH on Electron Transfer through the Quinone Acceptor Complex of Photosystem #," 1987-1988
28. Efficiency of light absorption, c. 1980s
29. "Electron Acceptor Side Differences between Photosystem II and Photosynthetic Bacteria," c. 1990s
30. Emerson, Robert – Memorial, 1959

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Box 19:

31. EMI photomultiplier tubes catalog, 1965
32. Emission notes and drafts, c. 1960s
33. "Emission Spectra at 77K of Wild Type and Des A-/ Des D- mutant of Synechocystis sp. PCC 6803," 1997
34. Energy transfer, 1987
35. Eppley Thermocouple, 1962-1964
36. ESR Draft and data, 1972
37. Excitation Energy and Electron Transfer in Photosynthesis – reviews, 1987
38. Fakhri and Wydrzynski write-ups, 2007-2008
39. Figures, c. 1990
40. Figures and data (unpublished), 1968-1973
41. Figures and tables, c. 1980s-1990s
42. Figures and tables – unpublished negatives, 1972
43. Figures for paper, c. 1980s
44. Figures, protein complexes, 1980

Box 20:

1. Figures, tables, and data, c. 1980s-2000s
2. Figures, tables, and data (unpublished), c. 1980s
3. Finland, 1996
4. Finland: Flr spectra, 1996
5. Finland Workshop, 1996
6. Fluorescence, 1969-1978
7. Fluorescence, 1980-1981
8. Fluorescence and Electron Transfer Paper – Govindjee and Louisa Yang, 1963-1955
9. Fluorescence – historical overview, c. 1970s
10. Fluorescence in the Study of PS, 1959
11. Fluorescence letter head, c. 1990s
12. Fluorescence polarization, 1971-1972
13. Frank, J., et al. "On the History and Function of the Jablonski Diagram," c. 2000s
14. Garab, 1988
15. Gasanov & Gov., 1973
16. Gasanov et al. Z.P. April 1979, 1975-1979
17. Gibbs, Martin – autobiographical text, c. 2000s
18. Gilmore and Hideo Yamasaki paper, c. 2000s
19. Gilmore et al. figures, 1998
20. Gilmore et al. "Photosystem II Chlorophyll Fluorescence Lifetimes," 1996
21. Gordon Conference, 1984
22. Govindjee and Coleman – figures and legends, c. 1980s
23. Govindjee/Eaton-Rye, 1986
24. Govindjee, et al. "Development of 'Oxygen Clock' in Greening Pea Leaves" poster, 1998
25. Govindjee et al. "Formate and Nitric Oxide," 1990
26. Govindjee et al., "Formate and Nitric Oxide Fail to Inhibit Electron Flow," 1990
27. Govindjee Plant Antibody collection posters, 2016-2019 OVERSIZE
28. Govindjee/Prof. N. Murata's lab overheads #1, 1997
29. Govindjee/Prof. N. Murata's lab overheads #2, 1997
30. Govindjee/Prof. N. Murata's lab overheads Jin, 1997

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Box 20:

31. Govindjee research notebook, c. 1983
32. Govindjee et al. *Physiologia Plantarum* Dec 1, 1992
33. Greek paper, 1977
34. Dr. Hanson – notes, 1974
35. Harnischfeger, Doz, 1977-1978
36. HEI model, 1966
37. Herbicide resistant mutants – correspondence and lab notes, 1988-1990
38. High energy phosphates, c. 1980s
39. High school encyclopedia, 1999
40. Holland report, 1983
41. Hungary (NSF program), 1986
42. Ideas for book projects, c. 1990s
43. IIT, Kanput – chloride talk overheads, 1962-1986
44. India Fulbright -- Application for sabbatical, 1995
45. India Fulbright – correspondence, 1995-1996
46. India Fulbright – correspondence and clippings, 1996-1997
47. India Fulbright – Minicourse on photosynthesis, lecture notes and transparencies (1 of 3), 1996-1997
48. India Fulbright – Minicourse on photosynthesis, lecture notes and transparencies (2 of 3), 1996-1997
49. India Fulbright – Minicourse on photosynthesis, lecture notes and transparencies (3 of 3), 1996-1997
50. India Fulbright – Rajni Govindjee notes, 1996-1997

Box 21:

1. India International Center, 1986-1987
2. India Ministry of Science and Technology, 1997
3. India Ministry of Science and Technology Department of Biotechnology – annual report, 1997-1998
4. India – Tokten correspondence, 1981-1985
5. India visit, 1996-1997
6. Indian Cultural Society of Urbana-Champaign meeting attendance and photosynthesis notes, 1982
7. Indore, Davv: Chlorophyll *a* fluorescence overheads, Nov. 27, 2000
8. Instruments for Emission and Excitation, and correspondence (Spiro and Haldrup), 1983
9. Intact chloroplasts algae 3, c. 1983
10. Japan list of experiments, 1980
11. Japan – National Institute for Basic Biology, 1986-1997
12. Japan – Rikagaku Kenkyusho (Riken), 1983-1986
13. Japan – Riken and Wako, 1983
14. Japan – Riken Symposium original figures, 1983
15. Jena^{ER} Glaswerk filter glass manual books, c. 1960s
16. Joys of Research quotes, 1982
17. Junge lecture outlines + some more, 1975
18. Junge, Wolfgang – G.A. Miller professorship, 1973
19. Jursinic O₂ mutant, 1990
20. Jursinic Review, 1978
21. Kambara et al. – Madras lecture never published, 1985
22. Katz, Joseph J. – review by Francis Fong, 1975
23. Kenyusho, Rikagaku, 1980-1983
24. Kettering, Charles F. – "Boss Ket" brochure, including LP, c. 1979
25. Kettering, Charles F. research laboratory – literature surveys, 1967-1970

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Series 5: Subject files, 1948-2007

Box 21:

26. Khanna et al. – "Evidence for a Close Spatial Location of the Binding Sites for CO₂ and Photosystem II Inhibitors," 1980
27. Khanna, Wydrzynski, and Govindjee – Site of Bicarbonate Effect in HiU Reaction, 1977
28. Kiang, Nancy, 2004
29. Kinetics O₂ Evolution, 1969-1970
30. Kinetics of DLE → to follow, 1972
31. "Kinetics of the Flash-Induced Oxygen Evolution Step in Plants Estimated from Chlorophyll A Fluorescence" poster presentation, 1993
32. Kolling, D. et. al. "Measurement of Chlorophyll a Fluorescence Lifetimes in Chlamydomonas reinhardtii NPQ1 and NPQ2 Knockout Mutants," c. 2000s
33. Kramer, TL paper, 1993
34. Krishnani, Dada CV, c. 1975
35. Laboratory of Water Relations and Photosynthesis, Praha – bibliography and publications, 1965
36. Lavergne, Jerome – photosynthesis II DMQ and DMBQ data and correspondence, 1991-1992
37. Lavergne – more on Lavergne/Strasser, etc., 1993
38. Lavergne notes and lectures, 1959-1992
39. Lecture announcements, 1985-1997
40. Lecture handouts, figures, and notes, 1992-1997
41. Lecture notes, handouts, and transparencies, c. 1990s
42. Lectures/seminars, c. 1970s
43. Lewis, Charleton M obituary, 1996
44. LI-COR catalogs and equipment manuals, 1989-1990
45. *Life Science News* 1975: Govindjee & Black
46. Lifetime paper, 1993
47. Lifetime corrections, c. 1993
48. Lifetime of the Excited States in vivo, 1972-1974
49. Light – Harvesting Antennas in Photosynthesis – book proposal, 1998
50. Liu figures Govindjee, undated
51. Loose papers – figures, correspondence, and name list, 1973-2002
52. Loose papers – notes and data, 1992-1995
53. Loose papers – photosynthesis notes and correspondence, 1991
54. Mäenpää, Pirkko et. al. "Mutation in the D-de Loop of D," 1994-1995
55. Malkin, Shmuel – corrections paper, 1973
56. Mallinckrodt: "Laboratory Safety Handbook," 1969

Box 22:

1. Manganese research file, c. 1987-1990s
2. Mar et al., 1973 paper
3. Marks – Flasking Lights, NMR, and O₂ Evolution, 1977
4. McGraw Hill articles, 1985-2006
5. Meeting and symposia notes, 1984
6. Membrane Potential Paper/letter from Bill Arnold, 1977
7. Mohanty and Govindjee Salt Effects: Chlorella, 1973
8. Mohanty, P. K. – "The Emerson Effect," c. 1970s
9. Mohanty, Prasanna, c. 1972
10. Molecular Biology of Photosynthesis – reviews, 1990
11. Molybdate paper, 1974

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Series 5: Subject files, 1948-2007

Box 22:

12. Motor Drive for Second Warburg Tank, c. 1950s
13. "Multiflex" – Galvanometer, c. 1960s
14. Music of Sunlight by Wilbert Weit overheads, 2000
15. Mutant paper, 1973
16. Natal, Malini, 1970-1971
17. National Botanical Research Institute collaboration – Glow Peak from Photosystems I and II, 1983
18. Naturwissenschaften paper, 1989-1990
19. NMR – correspondence and figures, 1987-1991
20. NMR – lecture notes, c. 1970s-1980s
21. Notes on lab experiments, conferences, sabbatical, Aug – Sept. 1972
22. Notes (mostly on Vermaas et al. (1990))
23. O₂ issue, 1993
24. One experiment Int. vs λ , Dec. 1958
25. Oral histories – 2 CDS, 2016
26. Oriel product catalog, 1970
27. Ort, Donald, 1987
28. Outlines of PS Seminars, 1972-1973
29. Overheads, figures, and data – fluorescence, undated
30. Overheads – general, 1985-1986
31. PAM Chlorophyll Fluorescence Measuring System operation manual, 1986
32. Papageorgiou, George, c. 1968
33. Papageorgiou, George – Porphrydium paper, 1970
34. PEA (Plant Efficiency Analyser), 1989
35. Pecheux, Martin, 1989-1999
36. Photosynthesis – AD Greenwood EMs, 1975
37. Photosynthesis – correspondence, 1974-1987
38. Photosynthesis – correspondence, 1981
39. Photosynthesis in Twelve Sessions by Govindjee as visiting professor in Geneva, 1977
40. "Photosynthesis," *Institute of Biology's Studies in Biology* # 37, c. 1970s
41. Photosynthesis – material for photosynthesis course Jan. 2016 – short-term visiting professor, Jawaharlal Nehru University, New Delhi, India
42. Photosynthesis notes – lectures, 1958-1965
43. *Photosynthesis: Photoreactions to Plant Productivity* – reviews, 1994
44. Photosynthesis Research – Bibliographies, 1969
45. Photosynthesis Research – Information chlorophyll det., herbicides, etc.
46. Photosynthesis Research – notes and abstracts, 1968-1973
47. Photosynthesis Research – notes and overheads, c. 1990s-2000s

Box 23:

1. Photosynthesis Research – notes, overheads, and grant materials, c. 1980s
2. Photosynthesis Research – Photosynthesis II analysis paper and figures, c. 2000s
3. Photosynthesis Research – Photosynthesis II lab protocols, 1987-1988
4. Photosynthesis Research – PS II reaction center for BBA Bioenergetics, 1991
5. Photosynthesis – reviews, 1969
6. Photosynthesis – revision, 1974
7. Photosynthesis – Russian translation, 1984-1985
8. Photosystem II reactions, Feb. 17, 1994

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
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ID: 15/17/21

Series 5: Subject files, 1948-2007

Box 23:

9. Physik-Kolloquium der FUB (anlässlich der Verleihung des Bundesverdienstkreuzes an Prof. K. Möbius) Nov. 24, 1996
10. Plant Physiology – correspondence, 1964
11. PMS, Norman Good, 1975
12. PNAS papers, Kamhara & Govindjee, 1985
13. Polarization of Fluorescence (discussions with others), 1971-1980
14. Polarization Paper (Wong), 1980
15. Polish Academy of Science and Inst. Of Physics of Poznań Tech. University, 1979
16. Poster session: Agriculture to Physics, Rhodopsin to Mangroves, Photons to Forests, Schuten to Delucia, c. 1995
17. Pratham Allahabad Education Initiative, 2001
18. Precision Cells spectrophotometer catalog, c. 1970s
19. Presentation notes and transparencies, c. 1980s
20. "Probing Photosynthesis: Exploring How its Clocks Work," c. 1990s
21. Prof. S. Brody Carlsberg laboratory Department of Physiology figures, November 22, 1994
22. Project summaries, drafts, and correspondence, 1993-1994
23. PSU, 1974-1975
24. PSU – article (HIST.), c. 1974
25. Q-Cycle, for Govindjee from JW, 1985
26. Ranjan, Shri, 1988
27. Rappaport, et al. – reading notes, 2005
28. References and diagrams, c. 1970s
29. Request for access to the NCSA facility (Biological Systems Users Group), 1986
30. Research – correspondence, data, figures, processes, 1992
31. Research ideas and proposals, 1967-1991
32. Research in Europe – Finland, Switzerland, and France, 1991-1993
33. Research notes, ideas, and outlines, 1973-1981
34. Research notebook – bicarbonate effect and history of discovery series, 1991
35. Research reports, 1987
36. Reviews by Govindjee, 1979-1998
37. Reviews of papers by Govindjee et al., 1968-1971
38. Roffey, Robin – to write a letter for Robin Roffey, 1993
39. RPB 012975 revision #2, 1987-1988
40. Rubicon, c. 1950s
41. Sane et al., 1976
42. Sane, Raj – retirement booklet, 1997
43. Sarojini paper, 1981
44. Schooley, Ralph, c. 1970s
45. SCIAM 1974 "Bioenergetics of Photosynthesis"
46. Selected topics in PB332 whole plant photosynthesis 11.19/11.21, 1988
47. Shinkarev and Govindjee figures, c. 1990s
48. Shopes, Blubaugh, Wraight, and Govindjee – "Absence of a Bicarbonate-depletion effect," 1989
49. Siggel paper, 1977
50. Singhal, Mohanty, and Govindjee – "Effect of Preheating Intact Algae Cells in Pigments Revealed by Absorption and Fluorescence Spectra," 1981
51. SOLS space committee request for information, and research summary, Nov. 1988
52. Sorvall: "Continuous Interference Color and Thickness Scale for Thin Sections," undated

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
Physiology and Biophysics, UIUC
ID: 15/17/21

Series 5: Subject files, 1948-2007

Box 23:

53. Sparr, Heather O₂ *Arabidopsis* mutant light curve, 1998
54. Spectroscopy, c. 1970s
55. Stanford figures, c. 1980s
56. Stemler, Alan, c. 1974
57. Stemler, Alan – CO₂ chapter, 1980-1981
58. Stemler, Alan – poster presentation on Formate and Nitric Oxide, 1992
59. Stemler and Govindjee – "Bicarbonate Ion as a Critical Factor in Photosynthetic Oxygen Evolution" review, 1973
60. Stemler and Govindjee – "Effects of Bicarbonate Ion on Chlorophyll *a* Fluorescence Transients and Delayed Light Emission from Maize Chloroplasts," 1973
61. Stemler & Carbonic Anhydrase, 2002
62. Stemler and Radmer paper, 1973

Box 24:

1. Stirbet, Alexandrina and Strasser, Reto 1995
2. Strasser, Reto – data and figures, 1989
3. Strehler, Goda Caf., Cal Tech, 1948-2011
4. Structure and Function of Photosystem II overheads, 1996
5. Summer '95 – notes, correspondence, data, etc,
6. Sylvania General Telephone and Electronics: Laser calculator slide chart and unit conversion table, 1970
7. Tamil or Telugu??, undated
8. Tamiya – death of Tamiya, March 20, 1984
9. Tataka, V.G. – Govindjee and DeVault calculations 1978-1979
10. Tataka, V.G. – Desai, Govindjee, and Sane – "Energy Storage State of Photosynthetic Membranes," 1978-1979
11. Tataka, V.G. paper, c. 1970s
12. Teaching photosynthesis from the internet, 1998
13. Teaching photosynthesis from the internet and correspondence, 1996-1998
14. Temperature paper, 1977
15. TETD paper Blubaugh and Govindjee *plant physiol.*, 1988
16. Thellungiella notes, c. 2010
17. Thermoluminescence, 1983
18. Thermoluminescence of D1-257 E,M,Q, and K Mutants, 1997
19. Thomas, Carly, 1998-2001
20. Thunberg Cell for Beckman Spectrophotometer, c. 1960s
21. Thylakoid isolation protocol, 1996
22. TL minireviews for *Physiologia Plantarum*, 1988
23. TL on OB- Flr. Notes, c. 1970s
24. Transmitting filter graphs, c. 1980s
25. Travel journal with photosynthesis notes, c. 1961
26. Tripathy, B.C., 1981
27. TRISSL, 1993
28. Tyystjärvi, Esa – draft, 1998
29. Tyystjärvi, Esa, et al. – Finland Mutants, 1997
30. UIUC – bills, requisitions, ect., 1973
31. UIUC – Botany Department, 1952-1974

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Physiology and Biophysics, UIUC
ID: 15/17/21

Series 5: Subject files, 1948-2007

Box 24:

32. UIUC – Center for Bioinformatics and Genome Science, 1989-1997
33. UIUC – expense reports and inventories, 1983-2001
34. UIUC – faculty listings & directories, 1973
35. UIUC – Illinois Research Network, 1985
36. UIUC – list of recent papers, Govindjee's laboratory at Urbana, 1973
37. UIUC – Morrill Hall addition, 1966
38. UIUC – photosynthesis brochure, c. 1980s
39. UIUC – Photosynthesis Center, 1975
40. UIUC – photosynthesis directory, 1967-1969
41. UIUC – "Photosynthesis: Research and Opportunities in Urbana" correspondence, 1979
42. UIUC – Photosynthesis Research Center, 1977-1979
43. UIUC – Physiology and Biophysics, 1977-1988
44. UIUC – Plant Biology, 1987-2000
45. UIUC – School of Life Sciences faculty index, 1994
46. UIUC – Senate Committee on University Statutes and Senate Procedures, 1970
47. UIUC – University-Industry Cooperative Program in Biotechnology, 1983
48. Untitled reading notes, equations, and lab notes, c. 1970s-2000s
49. University of Sheffield – Research Institute for Photosynthesis annual reports, 1987-1988
50. USDA Photosynthesis Institute, 1976
51. US-USSR – A. Borisov, 1986
52. US-USSR – Minisymposium on Photosynthesis, 1990
53. US-USSR – National Science Foundation Exchange Program, 1975-1977
54. Vandermeulen & Govindjee #2, 1974
55. Vermaas and Govindjee – "Bicarbonate Effects on Chlorophyll Δ Fluorescence Transients," c. 1980s
56. Vernon, Leo, 2001
57. Vernotte et al. (1994) in preparation C. Vernotte, J-M. Briantais and Govindjee
58. Wageningen, 1985
59. Wasielewski, Johnson, Seibert, and Govindjee – "Determination of the Primary Charge Separation Rate in Isolated PSII Reaction Centers," 1989
60. Wasielewski, Fenton, Govindjee – "The Rate of Formation of $P700^+ \rightarrow A_0^-$ in Photosystem I Particles from Spinach," 1986
61. Wassink references, c. 1975
62. Web and Photosynthesis Fibonacci series diagram, c. 1990s

Box 25:

1. Weizman Institute of Science, 1974-1975
2. Whitmarsch, Sam – Biology 390w Photosynthesis and Global Climate Change, 1995
3. Wildman, misc., 2000
4. Wong, Daniel – in vitro, 1978
5. Wong, Daniel – Prague paper on salt, 1976
6. Wong, Daniel – Reductant paper, c. 1980s
7. Wong, Daniel – research proposal, 1974
8. Wong, Daniel's salt paper *Photochem. & Photobiol. Paper* March 1978
9. Wong, Daniel – Thesis proposal, 1977
10. Workshop in Photosynthesis and Global Climate Change, 1995
11. Wraight, Colin, 1994
12. Wurmser, René, 1987

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
Physiology and Biophysics, UIUC
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Series 5: Subject files, 1948-2007

Box 25:

13. Wydrzynski, Tom, 1975
14. Wydrzynski, Tom and Govindjee – BBA Report to Bioenergetics Section, 1975
15. Wydrzynski, Tom et al., 1975
16. Wydrzynski, Tom – light paper, 1977-1981
17. Xiong et al. 1257 mutants letter to BBA, 1998
18. Xiong, Jin et al. Conduits Protein Science, 1996
19. Xiong, Jin figures – colored, 1997
20. Xu – CO₂H figures, c. 2000s
21. Xu's Plant Phys. paper
22. Xu, Rogers, Goldstein, Widhold, and Govindjee – "Fluorescence Characteristics of Photoautotrophic Soybean Cells," 1988
23. Zilinskas, Barbara A., c. 1975
24. Zilinskas, Barbara A. and Govindjee – Antisera against a Component in the Oxygen Evolving Side of System II Reaction, 1973-1974
25. Zilinskas, Barbara – Membrane paper, 1975

Series 6: Grants, 1963-2012

This series contains grant and fellowship applications, correspondence, and reports relating to Govindjee's research, arranged alphabetically by grant funder and chronologically therein.

Box 25:

26. Agricultural Research Service: "Photosynthesis of Soybean in Low Light Intensity: Role of Bicarbonate Ions" correspondence, 1974
27. American Soybean Association: "Photosynthesis of soybean in low light intensity" 1973
28. 1. Applications for money. 2. Get a copy from Ed dole and place it here. 3. Write URB grant, 1994
29. Atomic Energy Commission, 1963
30. Atomic Energy Commission – Study of the Organization of Pigments and the Mechanism of Energy Transfer Within the Chloroplast, 1968-1969
31. Cooperative State Research Service – "Mutagenesis of the D1 Protein and the Tole of Bicarbonate in Photosystem II", 1990
32. Department of Energy – biological energy grant, 1986
33. France – OECD short term fellowship, 1985
34. Fulbright Legacy Fund May 24, 2001 AIA application
35. Fulbright Scholar Award – "For Lecturing on Photosynthesis and Global Climate Change," 1996
36. Fulbright file report, 1997-1998
37. Fulbright specialist grant in Agriculture, 2012
38. Grant Applications: Others, 1965-1971
39. IL-IN Sea grant – The Salinity Requirement of Halophilic Cyanobacteria: Relationship of Photosynthesis
40. JSPS Fellowship for Research in Japan, 1997
41. JSPS Fellowship for research in Japan: "Chlorophyll a Fluorescence as a Probe of the Physiology of Lipid Mutants of Cyanobacteria", 1997
42. Laser Grant, 1990
43. "Limitations on Photosynthesis: An Interdisciplinary Approach", c. 1985
44. Manganese and O₂ Proposals, 1980-1981
45. Manganese and O₂ Proposals, 1980-1981
46. McKnight Foundation photosynthesis research grant, 1985-1987

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
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Series 6: Grants, 1963-2012

Box 25:

47. NATO – "Cation Control of the Structure and Function of the Photosynthetic Apparatus" c. 1970s
48. NIH – GM13913
49. NSF – G19437 Further Studies of the Interaction of Light Beams of Different Wavelengths in Photosynthesis and Related Photochemical Processes, 1961
50. NSF – G19437 The Emerson Enhancement Effect in Photosynthesis, 1963
51. NSF Grant Applications by others, 1964-1965
52. NSF – GB4040 Photosynthetic Mechanisms of Green Plants, 1965-1968
53. NSF – GB7331 Chlorophyll a Fluorescence and Photosynthesis, 1968
54. NSF – Mechanism of Photosynthesis in Corn and its Mutants, 1969
55. NSF – Photoreduction of Pyridine Nucleotides in Vivo: Alternative Pathways, c. 1970
56. NSF – GI31605 Mode of Action of Heavy Metals (Particularly Lead and Mercury) on Plant Photosynthesis, 1971-1972
57. NSF GI31605 (Lead Grant) Correspondence, 1971-1972
58. NSF – GB36751 Study of Oxygen Evolving Side of Photosystem II Reactions of Photosynthesis in Chloroplasts of Higher Plants, 1972-1975
59. NSF – P4B0421 Intrinsic and Extrinsic Probes and Chloroplast Membranes, 1973-1974
60. NSF – P4B0464 Role of Bicarbonate Ions in the Evolution of Oxygen During Chloroplast Reaction, 1974-1975
61. NSF – Molecular Conformation and Stability of the Chloroplast Thylakoid Membrane, 1975
62. NSF – PCM 79-06795 Dynamic Role of Manganese in the Evolution of Oxygen during Photosynthesis: Use of NMR and ESR Techniques, 1976-1979
63. NSF – PCM – 76 11657, The Role of Bicarbonate in Regulating Photosynthetic Electron Flow, 1978
64. NSF – PCM 78-24532, Interaction of Bicarbonate with Herbicides and Quinones in Chloroplast Membranes, 1978-1983
65. NSF – PCM 83-06061 Bicarbonate, Quinone, and Herbicide Interactions in Chloroplast Membranes, 1985
66. NSF – travel grant applications, 1980

Box 26:

1. NSF application 1993 – IBN 91-16838 – The Role of Bicarbonate in Photosystem II using D1 and D2 Mutants
2. NSF – IBN/MCB 91-16838 Role of Bicarbonate in Photosystem II using D1 and D2 Mutants, correspondence, 1993-1994
3. NSF – Photosynthesis Research: A Millennium Celebration of Historical Highlights, 2000
4. National Soybean Improvement Council – Photosynthesis of Soybean in Low Light Intensity: Role of Bicarbonate Ions, 1974
5. Office of Pesticide Programs, energy grant correspondence, 1975
6. Project Financial Statements, 1971-1973
7. PHS – Photosynthesis and Respiration, 1965
8. PHS – GM 13913 Photosynthetic Mechanisms of Green Plants, 1965-1972
9. PHS – GM 720-0851 Biophysics Training Grant, 1967-1971
10. PHS – Biotechnology Predoctoral Training Program, 1989
11. USDA – Bicarbonate Regulation of Photosynthesis in corn, soybean, peas, and spinach, 1978-1981
12. USDA/SEA – A Study of Primary Reactions in Photosynthesis, 1979
13. USDA – "Regulation of Electron Flow by CO₂ in Peas, Spinach, Maize, and Soybean," 1981
14. USDA Chlorophyll Fluorescence as a Tool for the Study of Photosystem II in Plants, 1993
15. UIUC Biomedical Sciences grants, 1970 -1974

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
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Series 6: Grants, 1963-2012

Box 26:

16. UIUC – Biomedical Research Support Grants, 1977-1988
17. University of Illinois: Biomedical Research Support Grant, 1988-1989
18. UIUC – Research Board grants, 1968-1994
19. UIUC Research Board – Tokten Travel Grants, 1980-1982
20. Untitled grant applications and project descriptions, c. 1990s-2000s

Series 7: Conferences and Workshops, 1957-2019

This series includes conference and workshop papers, presentation outlines, notes, and correspondence. The folder on the International Genetics Congress in New Delhi includes a photo of Govindjee with Indira Gandhi. This series is arranged chronologically.

Box 26:

21. Summer Institutes of Botany 1957
22. Photobiology Oxford, London Discussion Meeting 1964
23. Thomas Meeting Woudschoten, 1965
24. Thomas Meeting, Woudschoten 1965
25. Agronomy Society Meeting Nov. 1965
26. Brookhaven Symposium 1966
27. IMC meeting Chicago, 1966
28. Biophysics Meeting Houston, 1967 (Feb.)
29. ACS Meeting Miami Beach, 1967 (April)
30. Meeting AASPP Midwestern Section 1967
31. Livingston Symposium
32. Fluorescence and phosphorescence spectrometry workshop 1969
33. IBP/PP technical meeting Trebon, 1969
34. Gordon Conference early days 1969
35. Gordon Research Conferences participant lists 1969-1987
36. Madras Symposium on Taxonomy and Biology of Blue Green Algae 1969-1970
37. Madras Symposium (Blue-Green Algae) 1969-1972
38. Invited Seminars and Talks – Lecture notes c. 1970s
39. Photosynthesis Symposium Tennessee, May, 1970
40. Stressa Congress (Photosynthesis) 1971
41. Photosynthesis Meeting (Italian) 1971
42. Moscow Congress (Biophysics) 1972
43. NATO Congress (Italy) Photobiology 1972
44. NATO Advanced Study Institute on Primary Molecular Events in Photobiology 1972
45. American Institute of Biological Sciences Symposium on Contemporary Problems in Chloroplast Structure and Function 1972
46. Bochum Congress (Photobiology) 1972
47. Madurai Symposium (Biomembranes) 1973
48. AIBS Symposium 1972
49. Vancouver Meeting, 1974
50. Israel Congress, 1974

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Series 7: Conferences and Workshops, 1957-2019

Box 27:

1. Gordon Research Conference – Physico-Chemical Aspects of Photosynthesis 1975
2. IBM Seminar 1976
3. Symposium Puerto Rico 1976
4. Symposium on Photosynthetic Oxygen Evolution, Tübingen, Germany 1977
5. 4th International Congress on Photosynthesis, Reading, England 1977
6. International Symposium on Membrane Biogenetics, Spetsai, Greece 1977
7. ATP Conference Leningrad Conference 1978
8. 1977 Bioenergetic Italy 1980 Greece
9. Fifth International Congress Photosynthesis, Halkidiki, Greece 1980
10. Sino – USA bilateral symposium on photosynthesis Shanghai, China 1980-1985
11. Sixth International Congress on Photosynthesis 1983
12. International Genetics Congress, New Delhi – photo with Indira Gandhi 1983
13. Wageningen Workshop, Aug. 1983
14. 16th Meeting of the Federation of European Biochemical Societies, Moscow 1984
15. Greece International Workshop on Ion Interactions in Energy Transfer Systems 1984
16. International Workshop on Biomembranes, Madurai, India 1985
17. Second International Symposium on Biomembranes, Montreal 1985
18. Versailles Summit Program of Cooperation on Photosynthesis and Photochemical Conversion of Solar Energy – Directory of Scientists 1985
19. Joint Symposium on Photochemistry and Optical Spectroscopy; Reinhardsbrunn, DDR 1985
20. Madras Symposium International Workshop on Molecular Biosciences and Biotechnology 1985-1986
21. Indo-US Workshop 1986
22. Japan – US Binational Seminar on Solar Energy Conversion , Okazaki, Japan 1986-1992
23. 14th International Congress of Biochemistry, Prague, Czechoslovakia 1986-1988
24. US-Hungarian Cooperative Congress on Photosynthesis 1986
25. Gordon – 1987 Govindjee
26. Gene Age lecture by Govindjee "Towards a New World View" conference at Ganges, MI, Aug. 28, 1988
27. "Towards a New World View" Ganges, MI 1988
28. US-India 1991
29. Gordon Research Conferences – Proctor Academy 1991-1992
30. International Congress Japan 1992
31. Molecular Regulation of Chloroplast Functions, Omiya, Japan 1992
32. National Institute for Basic Biology – Meeting on Evolution of Photosynthetic Systems 1992
33. Workshop in Photosynthesis and Global Climate Change, University of Illinois 1992-1995
34. Workshop on Cryopreservation of Plant Genetic Resources, Buenos Aires, Argentina 1993
35. 4th International Congress of Plant Molecular Biology, Amsterdam 1994
36. Cooperative Research Center for Plant Science – Minicourse on Photosynthesis Outline 1994
37. Workshop in Photosynthesis and Global Climate Change, University of Illinois 1994-1996
38. Photosynthesis and Global Climate Change, A Workshop for High School Teachers, 1995-1996
39. An Olga G. Nalbandov Symposium: Photosynthesis Research at the Frontiers of Biology, Beckman Institute, University of Illinois, April 12-14, 1996
40. Center for Plant Biotechnology Research – Workshop on Transgenic Plants: Biology and Applications 1996
41. European Research Conference on Biophysics of Photosynthesis, Sitges, Spain 1996
42. Biotechnology, GOI, May '97 8th meeting
43. Holub Talk FLIM Gov c. 2000s
44. International Conference on trends in Cellular and Molecular Biology, New Delhi, India 2003

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Series 7: Conferences and Workshops, 1957-2019

Box 27:

45. First International Symposium on Chloroplast Bioengineering, University of IL 2005
46. International Meeting on "Biotic and Abiotic Stress Response in Plants" Dec. 2006
47. National Symposium on Photosynthesis and Fertilization Function of Prof. Govindjee Mohantal Sukhadia University 2007
48. "The Two-Light-Reactions and the Two-Photosystems in Oxygenic Photosynthesis: Scaling from the Past to the Present" 2009
49. International Conference on Plant Science in Post Genomic Era, Sambalpur University 2011
50. International Workshop on Mechanisms of Non-photochemical quenching, Passau, Germany 2011
51. International Conference on Photosynthesis Research for Sustainability in honor of Jalal A. Aliyev, Azerbaijan 2013
52. International Society of Photosynthesis Research – 16th International Conference St. Louis MO 2013
53. International Conference on Photosynthesis Research for Sustainability in honor of Nathan Nelson and T. Nejat Veziroglu., Russia 2016
54. National Conference on Challenges and Strategies to Improve Crop Productivity in Changing Environment: An Integrated Approach, University of Delhi 2018
55. 10th International Conference on Photosynthesis and Hydrogen Energy Research for Sustainability, Govindjee lecture notes, St. Petersburg, Russia 2019
56. 2nd Mexican Plant Physiology Conference, Govindjee lecture notes, Merida Mexico 2019

Series 8: International Society of Photosynthesis Research, 1990-2001

This series comprises correspondence, drafts, meeting notes, and agendas relating to the International Society of Photosynthesis Research, of which Govindjee was a member of both the executive committee and the publication committee. This series is arranged chronologically.

Box 28:

1. International Society of Photosynthesis Research – 9th International Congress, Nagoya, Japan, 1990-1992 (1 of 2)
2. International Society of Photosynthesis Research – 9th International Congress, Nagoya, Japan, 1990-1992 (2 of 2)
3. International Society of Photosynthesis Research – 10th International Congress, Montpellier, France I, 1992-1995 (1 of 2)
4. International Society of Photosynthesis Research – 10th International Congress, Montpellier, France I, 1992-1995 (2 of 2)
5. International Society of Photosynthesis Research – 10th International Congress, Montpellier, France II, 1992-1995 (1 of 3)
6. International Society of Photosynthesis Research – 10th International Congress, Montpellier, France II, 1992-1995 (2 of 3)
7. International Society of Photosynthesis Research – 10th International Congress, Montpellier, France II, 1992-1995 (3 of 3)
8. International Society of Photosynthesis Research – President I, 1995-1998 (1 of 5)
9. International Society of Photosynthesis Research – President I, 1995-1998 (2 of 5)
10. International Society of Photosynthesis Research – President I, 1995-1998 (3 of 5)
11. International Society of Photosynthesis Research – President I, 1995-1998 (4 of 5)
12. International Society of Photosynthesis Research – President I, 1995-1998 (5 of 5)
13. International Society of Photosynthesis Research – President II, 1995-1998 (1 of 3)
14. International Society of Photosynthesis Research – President II, 1995-1998 (2 of 3)
15. International Society of Photosynthesis Research – President II, 1995-1998 (3 of 3)

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Series 8: International Society of Photosynthesis Research, 1990-2001

Box 28:

16. International Society of Photosynthesis Research – 12th International Congress, Brisbane, Australia, 2001
17. International Society of Photosynthesis Research – 12th International Congress, Brisbane, Australia, 2000-2001

Series 9: Teaching Materials, 1958-2007

This series includes Govindjee's syllabi, handouts, lecture notes, lab notes, and assignments, for courses taught at the University of Illinois. The series is arranged by course number and chronologically therein. Folders not associated with a specific course are listed chronologically at the end of the series.

Box 28:

18. PB 102 – '93
19. Growth Equations – Sanjay for Biol. 121, 1995
20. Biology 121 notes University of Illinois – plant biology, fall 1995
21. Biology 121, 1998
22. Botany 230 exams, 1966
23. Handouts biol 251 Apr 27,29; May 4,6 & 9, 1988
24. Old biol. 251, 1989
25. Biol. 251 lectures – 1992 light → chemical (& schedule)
26. Biology 251 protein structure lab, 1992
27. Biol. 251 lecture 1 transparencies, 1993
28. Biol. 251 lecture 2 transparencies, 1993
29. Biol. 251 lecture 3 transparencies, 1993
30. Biol. 251 lecture 4 transparencies, 1993
31. Biol. 251 lecture 5 transparencies, 1993
32. Biol. 251 lecture 6 transparencies, 1993
33. Biol. 251 lecture 7 transparencies, 1993
34. Biol. 251 lecture 8 transparencies, 1993
35. Biol. 251 lecture 9 transparencies, 1993
36. Biol. 251 lecture 11 transparencies, 1993
37. Biology 251 – 1994

Box 29:

1. Biology 251 – 1995
2. Photosynthesis lecture notes biophysics 301, 1960
3. Electron xport theory biophysics 301, 1977
4. Biophysics 301, undated
5. Biophysics 301 (fall), undated
6. Photosynthesis guide and lecture notes botany 330, 1962-1965
7. Botany 330 and biology 440, 1969-1972
8. Botany 330, 1971
9. Botany 330, undated
10. CO₂ fixation notes biophysics 332, 1982
11. Energy transfer & regulation biophysics 332, 1982
12. Plant biology/bioph. 332, 1984
13. PB332 hour exams I & II, 1984
14. Biophysics 332, 1986
15. Photosynthesis course 332, 1986

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Series 9: Teaching Materials, 1958-2007

Box 29:

16. Bioph. 332 PS, 1986
17. Advanced Products Co. biophysics 332, 1986
18. 332, 1988
19. Biophysics – Plant Biology 332 includes sun → earth calculation fall #1, 1988
20. Plant Biol. 332 stuff, 1988
21. Biophysics 332, 1988
22. Biophysics 332 Dec. 7, 1990 lecture
23. Biophysics/Plant Biology 332 – lecture notes and handouts, 1990
24. Biophysics 332 Molecular Biophysics training grant, 1990
25. Plant Biology/Biophysics 332, 1992
26. Biophysics 332 Photorespiration, 1992
27. Biophysics 332, 1995
28. Biophysics 401-410/Agronomy 436, 1974
29. Biophysics 402 old exam on mimeo paper, 1960
30. Biophysics 402, 1967
31. Biophysics 402, 1967
32. Weber's seminar 402-410 exam, 1975
33. Chl a fluorescence lab, physiol. 404 E, 1992
34. Phys. 404 E spring 1992, Govindjee
35. Biophysics 406, 1978
36. Biophysics 406, 1985
37. Biophysics 406 4th screen disc, May 6th, 1985
38. Biophysics 406, 1986
39. Biophysics 406 fall, 1986
40. 406, 1986-1988
41. Biological spectroscopy biophysics 406, 1987
42. 406 Argonne photos, Blubaugh figures, Fatma figs., 1988

Box 30:

1. Botany 410, 1966
2. Biop. 410-401, 1973
3. Biophysics 410, 1975
4. Botany 419, 1965-1975
5. Botany 419, c. 1970s
6. Botany 419 seminars, 1972
7. Botany 419 fall, 1974
8. Botany 419 section 4, 1974
9. Book Botany 419, 1975
10. 419 fall '79-'90
11. References Botany 419, undated
12. Biophysics 432 lecture, 2007
13. Botany 436, 1958
14. Botany 436, 1962
15. Botany 436. 1967
16. Botany/Agronomy 436, 1969
17. Bot. 436, 1972
18. Botany 436, 1974

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Series 9: Teaching Materials, 1958-2007

Box 30:

19. Biophysics 432 sections 2.2, 1976
20. Biophysics 432, section 6, undated
21. Biophysics 438, 1977
22. Biophysics 438 student paper, 1983
23. Biophysics 438, 1986
24. Govindjee Bioph. 438, 1988
25. Molecular Biology 438, 1991
26. Biophysics 438, 1993
27. 438 fliers, 1993
28. Plant Biology/Biophysics 438, undated
29. Bio 440 - 1968
30. Bio 440, fall 1993
31. Bio 490 – SPKO TRO figures c. 1990s
32. Biochem 494, 1999
33. Biochem 494, 1999
34. Plant physiology curriculum, 1967-1969
35. Biophysics qualifying exam, c. 1970s
36. Govindjee list of courses taught, 1975, 1989
37. Photosynthesis course, 1980-1982
38. Biological energy course proposal, undated
39. Photosynthesis figures, undated

Series 10: Research on the History of Photosynthesis, 1938-2011

This series contains correspondence, drafts, and research files related to the history of photosynthesis research. This series is arranged alphabetically.

Box 30:

40. Arnold, William, 1973
41. Arnold, William Archibald – biographical file, including photos and passport, 1938-2007
42. On Arnold – Myers Mauzerall, 2006
43. Arnold Issue of Photosynthesis Research, 1995
44. David Arnon Bancroft Library research notes, 2001
45. Biographies, undated
46. Conference on Photosynthesis, Gatlinburg, TN participant list photocopies, 1952-1955
47. Correspondence re. history of photosynthesis, 1982-2006
48. Emerson – archival photocopies, 1948-1959
49. Emerson – biographical file, including Emerson's correspondence with Govindjee, 1955-2007
50. Emerson – materials for bulletin display case, including newspaper clippings (1 of 2), 1946-1960
51. Emerson – materials for bulletin display case, including newspaper clippings (2 of 2), 1946-1960
52. Emerson – Newspaper clipping photocopies, c. 1949
53. Emerson – Research file, including photocopied correspondence, 1941-2002
54. Emerson – Research file, including photographs, c. 1956-1999
55. Charles Stacy French – research file, 1955-1999
56. Frontiers in plant physiology – correspondence, 2011
57. Martin Gibbs – manuscript draft, c. 2000s
58. "Historical Corner" – correspondence, 1990-1993
59. "Historical Corner" – correspondence and research (1 of 2), 1947-1982

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Series 10: Research on the History of Photosynthesis, 1938-2011

Box 31:

1. "Historical Corner" – correspondence and research – includes Emerson account of Warburg visit (2 of 2), 1948-1996
2. Historical minireview series – correspondence, 2000-2001
3. History issues – correspondence, mailing lists, and drafts, 1992-2001
4. History of Photosynthesis, 1951-1992
5. History of photosynthesis research materials, 1981-2005
6. Martin D. Kamen – Albert Frankel Letter, 2003
7. Fritz Albert Lippman – Albert Frankel Letter, 2004
8. Notes on history of photosynthesis, c. 1990s
9. "Personal Perspectives" publication list, c. 1993
10. Photographs and scanned images, c. 1960s-2000s
11. *Photosynthesis Research*, History of Photosynthesis special issue correspondence, drafts, and research files, 2000-2001
12. Photosynthesis timeline, c. 2000
13. Presentation slides on history of photosynthesis, c. 2010s
14. Rabinowitch – "Eugene Rabinowitch: His Life" by Govindjee, 1988
15. Rabinowitch – Hindi obit. Of ER by GOV, 1973
16. Rabinowitch – Interview of Eugene Rabinowitch by Govindjee, – Scotch magnetic tape 140, c. 1968
17. Rabinowitch – research file, including Rabinowitch's correspondence with Govindjee, 1948-1999
18. Rabinowitch – Rotblat, "Fifty Pugwash Conferences: A Tribute to Eugene Rabinowitch," 2000
19. Eugene Rabinowitch story research file with photocopied correspondence, 1946-2002
20. RPM to g conversion for Ti50 Rotor graph, undated OVERSIZE
21. Shibata interview, 1983
22. Edmund Sinnott, "The Past as Prelude," 1966
23. Bernie Stehler – research file, 1996
24. Jan Thomas History, 1977
25. University of Illinois – Botany Annex photographs c. 1940s-1950s
26. University of Illinois – Department of Botany newsletters, includes bios of Emerson and Rabinowitch, 1958
27. University of Illinois – Physiology and Biophysics newsletter, 1969
28. Vignettes Book – Instructions, 2001
29. Warburg – "The Efficiency of Photosynthesis in the Utilization of Solar Energy," radio script, 1952
30. Evert Christiaan Wassink – research file, 1982
31. Sam Wildman – Emerson and Hendricks, 2001

Series 11: Publications, 1955-2019

The series contains books, articles, and reviews authored and co-authored by Govindjee and Rajni Govindjee. Govindjee's articles and reviews are listed first, followed by Rajni Govindjee's articles, and finally Govindjee's books. This series is arranged chronologically, based on the publication lists provided on Govindjee's website. These publication lists include links to pdf versions of Govindjee's articles.

Publications 1955 – 1993: <https://www.life.illinois.edu/govindjee/pubschron.html> Publications
 1994 – 2020s: <https://www.life.illinois.edu/govindjee/pubschron.html>

Box 31:

32. List of Govindjee Publications 1955-2021, 2023

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Series 11: Publications, 1955-2019
Box 31:

Journal Articles

33. Journal articles, 1955-1960

- S. Ranjan, Govindjee, and M.M. Laloraya (1955), Chromatographic Studies on the Amino Acid Metabolism of Healthy and Diseased Leaves of *Croton sparsiflorus* Morong. *Proc. Natl. Inst. Sci. (India)* 21: 42-47.
- M.M. Laloraya, Govindjee, and T. Rajarao (1955), A Chromatographic Study of the Amino Acids (and Sugars) of Healthy and Diseased Leaves of *Acalypha indica*. *Curr. Sci. (India)* 24: 203.
- M.M. Laloraya and Govindjee (1955), Effect of Tobacco Leaf-curl and Tobacco Mosaic Virus on the Amino Acid Content of *Nicotiana* sp. *Nature (London)* 175: 907-908.
- M.M. Laloraya, Govindjee, R. Varma, and T. Rajarao (1956), Increased Formation of Asparagine in Carica-curl Virus Infected Leaves. *Experientia* 12: 58-59.
- Govindjee, M.M. Laloraya, and T. Rajarao (1956), Formation of Asparagine and Increase in the Free Amino Acid Content in Virus Infected Leaves of *Abelmoschus esculentus*. *Experientia* 12: 180-181.
- T. Rajarao, M.M. Laloraya, and Govindjee (1956), Absence of Some Free Amino Acids from the Diseased Leaves of *Trichosanthes anguina*. *Naturwissenschaften* 43: 301.
- Govindjee (1956), Effect of X-rays on the Oxygen Uptake of *Cicer arietinum* T87 Seedlings. *Naturwissenschaften* 43: 524.
- Govindjee (1957), Effect of X-rays on the Content of Free Amino Acids and Amides of *Cicer arietinum* T87 Seedlings. *Naturwissenschaften* 44: 183.
- Govindjee and E. Rabinowitch (1960), Two Forms of Chlorophyll a in vivo with Distinct Photochemical Function. *Science* 132: 355-356.
- E. Rabinowitch, Govindjee and J.B. Thomas (1960), Inhibition of Photosynthesis in Some Algae by Extreme-Red Light. *Science* 132: 422.
- Govindjee, S. Ichimura, C. Cederstrand, and E. Rabinowitch (1960), Effect of Combining Far-Red Light with Shorter Wave Light on the Excitation of Fluorescence in *Chlorella*. *Arch. Biochem. Biophys.* 89: 322-323.
- J.B. Thomas and Govindjee (1960), Changes in Quantum Yield of Photosynthesis in the Red Alga *Porphyridium cruentum* Caused by the Stepwise Reduction in the Intensity of Light Preferentially Absorbed by the Phycobilins. *Biophys. J.* 1: 63-72.
- Govindjee and E. Rabinowitch (1960), Action Spectrum of the Second Emerson Effect. *Biophysic. J.* 1: 73-89.
- Govindjee, E. Rabinowitch, and J.B. Thomas (1960), Inhibition of Photosynthesis in Certain Algae by Extreme Red Light. *Biophysic. J.* 1: 91-97.

34. Journal Articles, 1961-1962

- E. Rabinowitch and Govindjee (1961) Different Forms of Chlorophyll a in vivo and Their Photochemical Function. In: *Light and Life* (eds. W.D. McElroy and B. Glass) The Johns Hopkins Press. pp. 378-387.
- J.B. Thomas and Govindjee (1961) On the Long-wave Decline of the Quantum Yield of Photosynthesis in the Red Alga *Porphyridium cruentum*. In: *Light and Life* (eds. W.D. McElroy and B. Glass) The Johns Hopkins Press, pp. 475-478.
- Govindjee, C. Cederstrand, and E. Rabinowitch (1961) Existence of Absorption Bands at 730-740 and 750-760 Millimicrons in Algae of Different Divisions. *Science*. 134: 391-392.

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
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Box 31:

- Govindjee (1961), letter to the editor, *Biophysic. J.* 1, 4: 373-175.
 - R. Govindjee, Govindjee, and G. Hoch (1962) The Emerson Enhancement Effect in TPN-Photoreduction by Spinach Chloroplasts. *Biochem. Biophys. Res. Comm.* 9: 222-225.
35. Journal Articles, 1963-1964
- Govindjee, O. v.H. Owens, and G. Hoch (1963) A Mass Spectroscopic Study of the Emerson Enhancement Effect. *Biochim. Biophys. Acta* 75: 281-284.
 - Govindjee (1963) Photosynthesis in *Stichococcus*. *Carnegie Inst. Wash. Year Book* 62: 363-364.
 - Govindjee (1963) Emerson Enhancement Effect and Two Light Reactions in Photosynthesis: Dedicated to the Memory of Late Professor Robert Emerson. In: *Photosynthetic Mechanisms of Green Plants* (eds. B. Kok, and A.T. Jagendorf) Publication 1145, Nat. Acad. Sci. Nat. Res. Council. Washington, D.C. pp. 318-334.
 - Govindjee (1963) Observations on P750A from *Anacystis nidulans*. *Naturwissenschaften* 50: 720-721.
 - Govindjee and C. Cederstrand (1963) Letter to the Editor. *Biophys. J.* 3: 507-508.
 - R. Govindjee, Govindjee, and G. Hoch (1964) Emerson Enhancement Effect in Chloroplast Reactions. *Plant Physiol.* 39: 10-14.
 - Govindjee and R. Govindjee (1964) Induction Transients in O₂ Evolution by *Porphyridium cruentum* in Monochromatic Light. *Carnegie Inst. Wash. Year Book* 63: 468-472.
 - Govindjee and R. Govindjee (1964) Oxygen Evolution From a Red Alga Exposed to Monochromatic Light Flashes with Background Light of Different Wavelengths and Intensities. *Carnegie Inst. Wash. Year Book* 63: 472-477.
 - A. Krey and Govindjee (1964) Fluorescence Changes in *Porphyridium* Exposed to Green Light of Different Intensity: A New Emission Band at 693 nm: Its Significance to Photosynthesis. *Proc. Nat. Acad. Sci. USA* 52: 1568-1572.
36. Journal Articles, 1965-1966
- E. Rabinowitch and Govindjee (1965) The Role of Chlorophyll in Photosynthesis. *Scientific American* 213: 74-83.
 - Govindjee and R. Govindjee (1965) Two Different Manifestations of Enhancement in the Photosynthesis of *Porphyridium cruentum* in Flashing Monochromatic Light. *Photochem. Photobiol.* 4: 401-415.
 - Govindjee and R. Govindjee (1965) Action Spectra for the Appearance of Difference Absorption Bands at 480 and in Illuminated *Chlorella* Cells and Their Possible Significance to a Two-Step Mechanism of Photosynthesis. *Photochem. Photobiol.* 4: 675-683.
 - Govindjee (1965) Modern Trends in Photobiology: Energy Conversion in Photosynthesis. *Science and Culture* 31: 468-476.
 - Govindjee and E. Rabinowitch (1965) The Photochemical Stage of Photosynthesis. *J. Sci. Indus. Res.* 24: 591-596.
 - Govindjee and L. Yang [Ni] (1966) Structure of the Red Fluorescence Band in Chloroplasts. *J. Gen. Physiol.* 49: 763-780.
 - Govindjee (1966) Photosynthesis. *Catholic Encyclopedia for Home and Schools*. McGraw-Hill Publishers, NY. pp. 425-429.
 - A. Krey and Govindjee (1966) Fluorescence Studies on a Red Alga *Porphyridium cruentum*. *Biochim. Biophys. Acta* 120: 1-18.

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Box 31:

- A. Ghosh, Govindjee, H.L. Crespi, and J.J. Katz (1966) Fluorescence Studies on Deuterated *Chlorella vulgaris*. *Biochim. Biophys. Acta* 120: 19-22.
 - C. Cederstrand and Govindjee (1966) Some Properties of Spinach Chloroplast Fractions Obtained by Digitonin Solubilization. *Biochim. Biophys. Acta* 120: 177-180.
 - C. Cederstrand, E. Rabinowitch, and Govindjee (1966) Absorption and Fluorescence Spectra of Spinach Chloroplast Fractions Obtained by Solvent Extraction. *Biochim. Biophys. Acta* 120: 247-258.
 - G. Bedell and Govindjee (1966) Quantum Yield of Oxygen Evolution and the Emerson Enhancement Effect in Deuterated *Chlorella*. *Science* 152: 1383-1385.
 - Govindjee (1966) Fluorescence Studies on Algae, Chloroplasts and Chloroplast Fragments. In: *Currents in Photosynthesis* (eds. J.B. Thomas and J.H.C. Goedheer) Ad Donker Publisher, Rotterdam, pp. 93-103.
 - C. Cederstrand, E. Rabinowitch, and Govindjee (1966) Analysis of the Red Absorption Band of chlorophyll a in vivo. *Biochim. Biophys. Acta* 126: 1-12.
 - F. Cho, J. Spencer, and Govindjee (1966) Emission Spectra of *Chlorella* at Very Low Temperatures (-269 C to -196 C). *Biochim. Biophys. Acta* 126: 174-176.
 - A.K. Ghosh and Govindjee (1966) Transfer of the Excitation Energy in *Anacystis nidulans* Grown to Obtain Different Pigment Ratios. *Biophys. J.* 6: 611-619.
37. Journal Articles, 1967-1968
- E. Rabinowitch, L. Szalay, M. Das, N. Murty, C. Cederstrand, and Govindjee (1967) Spectral Properties of Cell Suspensions. In: *Energy Conversion by the Photosynthetic Apparatus* (ed. J.M. Olson) Brookhaven Symposia in Biology 19: 1-7.
 - Govindjee, J.C. Munday, Jr., and G.C. Papageorgiou (1967) Fluorescence Studies with Algae: Changes with Time and Preillumination. In: *Energy Conversion by the Photosynthetic Apparatus* (ed. J.M. Olson) Brookhaven Symposia in Biology 19: 434-445.
 - G.C. Papageorgiou and Govindjee (1967) Oxygen Evolution from Lyophilized *Anacystis* with Carbon Dioxide as Oxidant. *Biochim. Biophys. Acta* 131: 173-178.
 - L. Szalay, E. Rabinowitch, N. Murty, and Govindjee (1967) Relationship Between the Absorption and Emission Spectra and the Red Drop in the Action Spectra of Fluorescence in vivo. *Biophys. J.* 7: 137-149.
 - G.C. Papageorgiou and Govindjee (1967) Changes in Intensity and Spectral Distribution of Fluorescence. Effect of Light Treatment on Normal and DCMU-Poisoned *Anacystis nidulans*. *Biophys. J.* 7: 375-390.
 - Govindjee, G.C. Papageorgiou, and E. Rabinowitch (1967) Chlorophyll Fluorescence and Photosynthesis. In: *Fluorescence Theory, Instrumentation and Practice* (ed. G.G. Guilbault) Marcel Dekker Inc. NY, pp. 511-564.
 - Govindjee and M. Bazzaz (1967) On the Emerson Enhancement Effect in the Ferricyanide Hill Reaction in Chloroplast Fragments. *Photochem. Photobiol.* 6: 885-894.
 - M. Das and Govindjee (1967) A Long-wave Absorbing Form of Chlorophyll a Responsible for the Red Drop in Fluorescence at 298 K and the F723 Band at 77 K. *Biochim. Biophys. Acta* 143: 570-576.
 - L. Szalay, M. Toerok, and Govindjee (1967) Effect of Secondary Fluorescence on the Emission Spectrum and Quantum Yield of Fluorescence in chlorophyll a Solutions and Algal Suspensions. *Acta Biochim. Biophys. Acad. Sci. Hung.* 2: 425-432.

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Box 31:

- C. Shimony, J. Spencer, and Govindjee (1967) Spectral Characteristics of Anacystis Particles. *Photosynthetica* 1: 113-125.
 - Govindjee (1967) Transformation of Light Energy into Chemical Energy: Photochemical Aspects of Photosynthesis. *Crop Science* 7: 551-560.
 - R. Govindjee, E. Rabinowitch, and Govindjee (1968) Maximum Quantum Yield and Action Spectra of Photosynthesis and Fluorescence in *Chlorella*. *Biochim. Biophys. Acta* 162: 530-544.
 - G.C. Papageorgiou and Govindjee (1968) Light-Induced Changes in the Fluorescence Yield of Chlorophyll a in vivo. I. *Anacystis nidulans*. *Biophys. J.* 8: 1299-1315.
 - G.C. Papageorgiou and Govindjee (1968) Light-Induced Changes in the Fluorescence Yield of Chlorophyll a in vivo. II. *Chlorella pyrenoidosa*. *Biophys. J.* 8: 1316-1328.
38. Journal Articles, 1969-1970
- J.C. Munday, Jr. and Govindjee (1969) Light-Induced Changes in the Fluorescence Yield of Chlorophyll a in vivo. III. The Dip and the Peak in the Fluorescence Transient of *Chlorella pyrenoidosa*. *Biophys. J.* 9: 1-21.
 - J.C. Munday, Jr. and Govindjee (1969) Light-Induced Changes in the Fluorescence Yield of Chlorophyll a in vivo. IV. The Effect of Preillumination on the Fluorescence Transient of *Chlorella pyrenoidosa*. *Biophys. J.* 9: 22-35.
 - H. Merkelo, S.R. Hartman, T. Mar, G.S. Singhal, and Govindjee (1969) Mode locked Lasers: Measurements of Very Fast Radiative Decay in Fluorescent Systems. *Science* 164: 301-302.
 - H. deKlerk, Govindjee, M.D. Kamen, and J. Lavorel (1969) Age and Fluorescence Characteristics in Some Species of *Athiorhodaceae*. *Proc. Natl. Acad. Sci. USA* 62: 972-978.
 - G.C. Papageorgiou and Govindjee (1969) The Second Wave of Fluorescence Induction in *Chlorella pyrenoidosa*. *Progress in Photosynthesis Res. Vol.II*: 905-912.
 - J.C. Munday, Jr. and Govindjee (1969) Fluorescence Transients in *Chlorella*: Effects of Supplementary Light, Anaerobiosis and Methyl Viologen. *Progress in Photosynthesis Res. Vol.II*: 913-922.
 - F. Cho and Govindjee (1970) Fluorescence Spectra of *Chlorella* in the 295-77 K Range. *Biochim. Biophys. Acta* 205: 371-378.
 - Govindjee, G. Doering, and R. Govindjee (1970) The Active Chlorophyll a II in Suspensions of Lyophilized and Tris-Washed Chloroplasts. *Biochim. Biophys. Acta* 205: 303-306.
 - P. Mohanty, J.C. Munday, Jr., and Govindjee (1970) Time-dependent Quenching of Chlorophyll a Fluorescence from (Pigment) System II by (Pigment) System I of Photosynthesis in *Chlorella*. *Biochim. Biophys. Acta* 223: 198-200.
 - R. Govindjee, Govindjee, J. Lavorel, and J.M. Briantais (1970) Fluorescence Characteristics of Lyophilized Maize Chloroplasts Suspended in Buffer. *Biochim. Biophys. Acta* 205: 361-370.
 - F. Cho and Govindjee (1970) Low-Temperature (4-77 K) Spectroscopy of *Chlorella*: Temperature Dependence of Energy Transfer Efficiency. *Biochim. Biophys. Acta* 216: 139-150.
 - F. Cho and Govindjee (1970) Low Temperature (4-77 K) Spectroscopy of *Anacystis*: Temperature Dependence of Energy Transfer Efficiency. *Biochim. Biophys. Acta* 216: 151-161.

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Box 31:

39. Journal Articles, 1971-1972

- T. Mar and Govindjee (1971) Thermoluminescence in Spinach Chloroplasts and in Chlorella. *Biochim. Biophys. Acta* 226: 200-203.
- Govindjee and G.C. Papageorgiou (1971) Chlorophyll; Fluorescence Compounds, *Plant. McGraw-Hill Encyclopedia of Science and Technology*. McGraw-Hill Book Co Inc, NY, pp 86-87; 382-386.
- Govindjee (1971) Bacterial Photosynthesis; Photosynthesis. *McGraw-Hill Encyclopedia of Science and Technology*. McGraw-Hill Book Co Inc, NY, pp. 62-66; 201-210.
- G.C. Papageorgiou and Govindjee (1971) pH Control of the Chlorophyll a Fluorescence in Algae. *Biochim. Biophys. Acta* 234: 428-432.
- Govindjee and G.C. Papageorgiou (1971) Chlorophyll Fluorescence and Photosynthesis: Fluorescence Transients. In: *Photophysiology* (ed. A.C. Giese) Academic Press, NY, Vol. 6: 1-46.
- W.T. Stacy, T. Mar, C.E. Swenberg, and Govindjee (1971) An Analysis of a Triplet Exciton Model for the Delayed Light in Chlorella. *Photochem. Photobiol.* 14: 197-219.
- Govindjee and P. Mohanty (1971) Chlorophyll a Fluorescence in the Study of Photosynthesis. *Fluorescence News* (eds. R.A. Passwater and P. Welker) Vol.6 (no. 2). Publ. by Biochemical Instrumentation Div. American Instrument Co. Silver Spring, MD, pp. 1-4.
- P. Mohanty, T. Mar, and Govindjee (1971) Action of Hydroxylamine in the Red Alga *Porphyridium cruentum*. *Biochim. Biophys. Acta* 253: 213-221.
- P. Mohanty, G.C. Papageorgiou, and Govindjee (1971) Fluorescence Induction in the Red Alga *Porphyridium cruentum*. *Photochem. Photobiol.* 14: 667-682.
- Govindjee and J.M. Briantais (1972) Chlorophyll b Fluorescence and an Emission Band at 700 nm at Room Temperature in Green Algae. *FEBS Lett.* 19: 278-280.
- P. Mohanty, B.Z. Braun (Zilinskas), and Govindjee (1972) Fluorescence and Delayed Light Emission in Tris-Washed Chloroplasts. *FEBS Lett.* 20: 273-276.
- P. Mohanty, B.Z. Braun (Zilinskas), Govindjee, and J. P. Thornber (1972) Chlorophyll Fluorescence Characteristics of System I Chlorophyll a-Protein Complex and System II Particles at Room and Liquid Nitrogen Temperatures. *Plant Cell Physiol.* 13: 81-91.
- P. Jursinic and Govindjee (1972) Thermoluminescence and Temperature Effects on Delayed Light Emission (Corrected for Changes in Quantum Yield of Fluorescence) in DCMU-Treated Algae. *Photochem. Photobiol.* 15: 331-348.
- P. Jursinic and Govindjee (1972) Delayed Light Emission in DCMU-treated Chlorella: Temperature Effects. In: *Photosynthesis, Two Centuries After its Discovery by Joseph Priestley* (eds. G. Forti, M. Avron, and A. Melandri). Dr. W. Junk N.V. Publishers, Den Haag, pp. 223-232.
- T. Mar and Govindjee (1972) Decrease in the Degree of Polarization of Chlorophyll Fluorescence Upon the Addition of DCMU to Algae. *Photosynthesis, Two Centuries After its Discovery by Joseph Priestley* (eds. G. Forti, M. Avron, and A. Melandri) Dr. W. Junk N.V. Publishers, Den Haag, pp. 271-281.
- T. Mar, Govindjee, G.S. Singhal, and H. Merkelo (1972) Lifetime of the Excited State in vivo. I. Chlorophyll a in Algae, at Room and Liquid Nitrogen Temperature; Rate Constants of Radiationless Deactivation and Trapping. *Biophys. J.* 12: 797-808.

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Box 31:

- Govindjee, J.H. Hammond, and H. Merkelo (1972) Lifetime of the Excited State in vivo. II. Bacteriochlorophyll in Photosynthetic Bacteria at Room Temperature. *Biophys. J.* 12: 809-814.
 - J.M. Briantais, H. Merkelo, and Govindjee (1972) Lifetime of the Excited State t in vivo. III. Chlorophyll During Fluorescence Induction in *Chlorella pyrenoidosa*. *Photosynthetica* 6: 133-141.
 - B.Z. Braun (Zilinskas) and Govindjee (1972) Antibodies Against an Intermediate on the Water Side of Photosystem II of Photosynthesis. *FEBS Lett.* 25: 143-146.
 - T. Mar and Govindjee (1972) Kinetic Models of Oxygen Evolution in Photosynthesis. *J. Theor. Biol.* 36: 427-446.
 - Govindjee and P.K. Mohanty (1972) Photochemical Aspects of Photosynthesis in Blue-Green Algae. In: *Biology and Taxonomy of Blue-Green Algae* (ed. T. Desikachary) U. Madras, Madras, India pp. 171-196.
 - Govindjee (1972) (Guest Editor) Photosynthesis, July issue of *Biophysical Journal*, Dedicated to Eugene I. Rabinowitch.
40. Journal Articles, 1973-1974
- P. Mohanty, B.Z. Braun (Zilinskas), and Govindjee (1973) Light-induced Slow Changes in Chlorophyll a Fluorescence in Isolated Chloroplasts: Effects of Magnesium and Phenazine Methosulfate. *Biochim. Biophys. Acta.* 292: 459-476.
 - M.B. Bazzaz and Govindjee (1973) Absorption and Chlorophyll a Fluorescence Characteristics of Tris-treated and Sonicated Chloroplasts. *Plant Sci. Lett.* 1: 201-206.
 - P. Mohanty and Govindjee (1973) Light-induced Changes in the Fluorescence Yield of Chlorophyll a in *Anacystis nidulans*. I. Relationships of Slow Fluorescence Changes with Structural Changes. *Biochim. Biophys. Acta.* 305 95-104.
 - D. VanderMeulen and Govindjee (1973) Is There a Triplet State of Chlorophyll in Photosynthesis? *J. Sci. Indust. Res.* 32: 62-69.
 - A. Stemler and Govindjee (1973) Bicarbonate Ion as a Critical Factor in Photosynthetic Oxygen Evolution. *Plant Physiol.* 52: 119-123.
 - P. Mohanty and Govindjee (1973) Effect of Phenazine Methosulfate and Uncouplers on Light-induced Chlorophyll a Fluorescence Yield Changes in Intact Algal Cells. *Photosynthetica* 7: 146-160.
 - M.B. Bazzaz and Govindjee (1973) Photochemical Properties of Mesophyll and Bundle Sheath Chloroplasts of Maize. *Plant Physiol.* 52: 257-262.
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 - G.W. Bedell and Govindjee (1973) Photophosphorylation in Intact Algae: Effects of Inhibitors, Intensity of Light, Electron Acceptors and Donors. *Plant Cell Physiol.* 14: 1081-1097.
 - Govindjee (1973) Eugene Rabinowitch. *Vigyan.* 111 (12) 11-12.
 - M.B. Bazzaz and Govindjee (1974) Effects of Cadmium Nitrate on Spectral Characteristics and Light Reactions of Chloroplasts. *Environ. Lett.* 6: 1-12.

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Box 31:

- M.B. Bazzaz and Govindjee (1974) Effects of Lead Chloride on Chloroplast Reactions. *Environ. Lett.* 6: 175-191.
 - M.B. Bazzaz, Govindjee, and D.J. Paolillo (1974) Biochemical, Spectral, and Structural Study of Olive Necrotic 8147 Mutant in *Zea Mays*. *L. Z. Pflanzenphysiol.* 72: 181-192.
 - A. Stemler and Govindjee (1974) Effects of Bicarbonate Ion on Chlorophyll a Fluorescence Transients and Delayed Light Emission from Maize Chloroplasts. *Photochem. Photobiol.* 19: 227-232.
 - A. Stemler and Govindjee (1974) Bicarbonate Stimulation of Oxygen Evolution, Ferricyanide Reduction and Photoinactivation Using Isolated Chloroplasts. *Plant Cell Physiol.* 15: 533-544.
 - R. Gasanov and Govindjee (1974) Chlorophyll Fluorescence Characteristics of Photosystems I and II from Grana and Photosystem I from Stroma Lamellae. *Z. Pflanzenphysiol.* 72: 193-202.
 - P. Mohanty, Govindjee, and T. Wydrzynski (1974) Salt-induced Alterations of the Fluorescence Yield and of Emission Spectra in *Chlorella pyrenoidosa*. *Plant Cell Physiol.* 15: 213-224.
 - B.Z. Braun (Zilinskas) and Govindjee (1974) Antisera Against a Component of the Oxygen-Evolving Side of System II Reaction: Antisera Prepared Against an Extract from Frozen and Thawed Chloroplasts. *Plant Sci. Lett.* 3: 219-227.
 - R. Govindjee, W.R. Smith, Jr., and Govindjee (1974) Interaction of Viologen Dyes with Chromatophores and Reaction-Center Preparations from *Rhodospirillum rubrum*. *Photochem. Photobiol.* 20: 191-199.
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Books Box

32:

20. E. Rabinowitch and Govindjee (1969) *Photosynthesis*. John Wiley and Sons Inc. NY. 273 pages. Master Copy.
21. E. Rabinowitch and Govindjee (1969) *Photosynthesis*. John Wiley and Sons Inc. NY. 273 pages.
22. Govindjee (1972) (Guest Editor) *Photosynthesis*, July issue of *Biophysical Journal*, Dedicated to Eugene I. Rabinowitch. The Rockefeller University Press.
23. Govindjee (1987). (Editor). *Photosynthesis Volume 1*. Academic Press. (translated into Russian by A.O. Ganago, E.V. Ganago, and A.A. Melkoseranova; Edited by A.A. Krasnovsky and F.F. Litvin). Mir Publishers, Moscow, USSR.
24. Govindjee (1987). (Editor). *Photosynthesis Volume 2*. Academic Press. (translated into Russian by A.O. Ganago, E.V. Ganago, and A.A. Melkoseranova; Edited by A.A. Krasnovsky and F.F. Litvin). Mir Publishers, Moscow, USSR.

Box 33:

1. Govindjee. (1997). *Photosynthesis in Twelve Sessions*. Collation sponsored by: Bioenergetics Laboratory, University of Geneva, CH-1254 Jussy/Geneva, Switzerland.
2. Govindjee. (2005). *Discoveries in Photosynthesis, Volume 20, Advances in Photosynthesis and Respiration*. Springer.

Box 32

25. Govindjee and Srivastava SL (eds.) (2010) *A Tribute: Krishnaji (January 13, 1922 - August 14, 1997)*.
26. Karin Nickelsen and Govindjee (2011) *The Maximum Quantum Yield Controversy: Otto Warburg and the Midwest Gang*. Bern Studies in the History and Philosophy of Science, University of Bern, Switzerland; Institute für Philosophie.
27. Shevela D, Bjorn L and Govindjee (2019) *Photosynthesis: Solar Energy for Life*. World Scientific, Singapore.

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
Physiology and Biophysics, UIUC
ID: 15/17/21

Series 12: Slides, Lantern Slides, and Photographs

This series includes slides, lantern slide, photographs, and negatives of Govindjee's presentations, research (including the Emerson Effect), events, colleagues, family, and friends. This series is arranged by category and alphabetically therein.

**Box 33:
 Slides**

3. Presentation of research results (may be teaching material), undated
4. Slides – events, colleagues, students, and personal, c. 1970s-1990s

**Box 32:
 Lantern Slides**

28. Emerson Effect lantern slides c. 1950s
29. Govindjee – Emerson Effect, Color slides, Ted's old O₂ model, c. 1960s

**Box 34:
 Photographs and Negatives**

1. Carly, Paul, Manfredo, Saye, Puilgud?, c. 1990s-2000s
2. Govindjee black and white photos, c. 1950s-1970s
3. Govindjee headshots and negatives (maybe Sweden), undated
4. Govindjee photos – personal and colleagues/students, c. 1970s-2000s
5. Graduation photograph, c. 1950s
6. Inventory of scanned photographs (1 of 2), c. 1999
7. Negatives – data and event, c. 1980s
8. Photo of cell, undated
9. Photos – events, colleagues, students, personal (some of these photos match the inventory of scanned photos) (2 of 2) c. 1970s-2000s

Oversize Series 1: Personal, 2017-2019

Box 35: OVERSIZE

1. National Symposium on Photosynthesis and Felicitation Function of Professor Govindjee plaque, 2017

Box 36: OVERSIZE

1. University of Hyderabad award for Pioneering Research Contributions to the Field of Photosynthesis, 2017

Box 37: OVERSIZE

1. Sikkim University National Science Day plaque, 2019

Processing Notes for the 2019 Accession:

Some material has been transferred to the Robert Emerson and Eugene Rabinowitch collections. Duplicates, some published figures, secondary literature and reading notes, bibliographies, some old CVs, drafts of published work, some course material for courses with multiple years, receipts, and transactional correspondence has been weeded. Folder titles added by archivist are indicated by brackets []. This collection was pre-processed by Olivia Hagedorn and finished by Lana Kay Tutterow in 2023 under the supervision of Susanne Belovari and Joanne Kaczmarek. Some of the finding aid and descriptive texts were written by Olivia Hagedorn.

Box List: Govindjee and Rajni Govindjee Papers, 1938-2019
 Physiology and Biophysics, UIUC
ID: 15/17/21

A third accession occurred spring 2026.

Arrangement:

Series 13: Artifacts, ca. 1920s-2025

Series 13: Artifacts, ca. 1920s-2025

Series 13 contains a drum chain analytical balance (ca. 1960s; mahogany case ca. 1920s-1950s) manufactured by Voland Corporation in New Rochelle, New York and distributed by A. Daigger & Co., Chicago, and a horizontal microscope (ca. 1920s) manufactured by Ernst Leitz company in Wetzlar, Germany.

Provenance of these two items is somewhat unclear: according to Professor Govindjee, both instruments were in Emerson's Photosynthesis Research Laboratory by September 1956 when Govindjee began working there as a research assistant. Govindjee studied under Professor Emerson and Professor Rabinowitch, both of whom spent time in Germany, receiving PhDs from the University of Berlin in 1927 and 1925, respectively. It is possible Emerson or Rabinowitch acquired the microscope while in Germany. In 1946, Dr. Emerson became professor of Botany, and in 1947, Dr. Rabinowitch became professor of Biophysics, both at UIUC.

Drum chain analytical balance (ca. 1960s; mahogany case ca. 1920s-1950s) manufactured by Voland Corporation, New Rochelle, New York and distributed by A. Daigger & Co., Chicago.

The balance is in a mahogany cabinet with a drawer holding small paper cups from the Mallinckrodt company, a dust brush, a Drierite desiccant tube, a wooden box of weights from *Central Scientific Company*, a plastic box of weights from *Obaus Scale Corporation*, and paper instructions as well as a diagram for a *Typical Analytical Rider Balance* by Voland & Sons Inc. in New Rochelle, New York, which differs from the drum chain analytical balance.

While early Voland balances were sold in mahogany cabinets, by 1950, models were typically sold in metal cabinets. The index plate on the scale itself reads "Voland Corporation;" *Voland & Sons Inc.* changed its name to *Voland Corporation* in 1961.

Horizontal Microscope (ca. 1920s) manufactured by Ernst Leitz company in Wetzlar, Germany.

The microscope is made of iron and bronze with a water scale. It has an additional metal post with a convex lens and an extension possibly used to hold a glass vial (see folder 2, box 39). The glass vial was removed before transfer to the archives and is located in box 39.

A small strip of metal with a screw is broken off (temporarily taped back onto microscope to indicate correct placement). See photograph (2025) of microscope depicting correct placement of metal strip and glass vial.

Box 38:

1. Drum chain analytical balance, manufactured by Voland Corporation, ca. 1960s; mahogany case ca. 1920s-1950s

Box 39:

1. Horizontal microscope, manufactured by Ernst Leitz company in Wetzlar, Germany, ca. 1920s
2. Glass vial, ca. 1930s-1950s
3. Photograph of Leitz horizontal microscope, 2025

Processing Note:

The third accession was processed by Maeve Daley under the supervision of Susanne Belovari, spring 2026.