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Liberal Arts and Sciences
Physiology & Biophysics
Don C. DeVault Papers, 1956-90

Box 1:

Conferences

Federation Meeting, April 1965
Johnson Foundation Colloquium on "The Chemistry of Hemes and Hemoproteins",
Philadelphia, April 1966
Brookhaven Symposium, 1966
Hakone Symposium on "Comparative Biochemistry and Biophysics or Photosynthesis",
August 1967
Cytochrome Symposium, Osaka, Japan, August 1967
Symposium on Electronic Transfer Phenomena, U.C.L.A., December 1967
British Biophysical Society, University of Nottingham, England, April 1968
Gordon Conference, "Energy Coupling Mechanisms," July 1968
Fifth International Congress on Photobiology, Dartmouth, August 1968
National Institutes of Health Symposium, October 1968
Gordon Conference, Santa Barbara, January 1969
Johnson Foundation Colloquium on "Structural Probes for the Function of Proteins and
Membranes," April 1969
Northeast Photobiology Conference, Cornell, May 1969
Gordon Conference, June-July 1969
Third International Biophysics Congress, Cambridge, Massachusetts, August 1969
Biophysical Society Meeting, Baltimore, February 1970
Trip to Cornell, Clayton's Lab, High pressure cells, May 1970
International Conference on the Photosynthetic Unit, Gatlinburg, Tennessee, May 1970
Biophysical Society Meeting, New Orleans, February 1971
Argonne Conference, November 1971
Biophysical Society Meeting, Toronto, February 1972
Federation of American Societies for Experimental Biology, Atlantic City, April 1972
Biophysical Society Meeting, Columbus, Ohio, 1973
International Congress of Biochemistry, Stockholm, July 1973
International Union of Biochemistry Symposium, in Honor of Professor Britton Chance,
Stockholm, July 1973
Gordon Conference, August 1973
Biochemistry/Biophysics Meeting, Minneapolis, June 1974
Biophysical Society Meeting, Philadelphia, February 1975
Gordon Conference, July 1975
Photobiology Meeting, Denver, February 1976
Biophysical Society Meeting, Seattle, February 1976
Brookhaven Symposium, June 1976
Mini-Symposium on Molecular Tunneling, June 1976
American Physical Society, Chicago, February 1977

Biophysical Society Meeting, New Orleans, February 1977
 Tunneling Conference, Philadelphia, November 1977
 Conference honoring Martin Kamen, "From Cyclotrons to Cytochromes," August 1978
 Sixth International Biophysics Conference, Kyoto, September 1978
 Fast Photosynthetic Processes Conference, Moscow, September 1978
 Midwest Photosynthesis Conference, Turkey Run, Indiana, October 1978
 Biophysical Society Meeting, Atlanta, 1979
 Visit to Northwestern University, April 1979
 Midwest Photosynthesis Meeting, Spencer, Indiana, October 1979
 International Federation of Institutes for Advanced Study (IFIAS) Workshop, Philadelphia,
 November 1979

Box 2:

Midwest Photosynthesis Meeting, Turkey Run, October 1980
 Biophysical Society Meeting, Denver, February 1981
 Midwest Photosynthesis group visit to Argonne Lab, October 1982
 Plant Physiology meeting, Urbana, June 1982
 Gordon Conference, Ventura, California, February 1983
 Biophysical Society Meeting, San Diego, February 1983
 Departmental retreat, UI Physiology Department, Allerton Park, May 1983
 Sixth International Congress on Photosynthesis, Brussels, August 1983
 Midwest Photosynthesis Meeting, Turkey Run, October 1983
 Lecture at Northern Illinois University, September 1984
 Midwest Photosynthesis Meeting, October 1984
 Conference on Protein Structure, Philadelphia (April 1985), and related material on
 publication of the Springer-Verlag Co. book based on the conference proceedings,
 1985-87
 Midwest Photosynthesis Meeting, Turkey Run, November 1985
 French Lick Springs, November 1986
 Departmental Retreat, UI Physiology Department, Allerton Park, November 1986
 Frauenfelder Symposium, UI, May 1987
 Midwest Photosynthesis Meeting, Turkey Run, October 1987
 October 1988
 French Lick Springs, October 1989
 C5 Symposium, Montreal, August 1990
 Johnson Foundation, University of Pennsylvania, general business, 1964-74
 Biochemistry/Biophysics Department, University of Pennsylvania, 1975-77
 Correspondence, general, 1964-76
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 Agarwal, Purshottam Lal, 1971-75
 Austin, Robert, 1983-84

Cai, Jundao, 1981-82
 Chou, Esther, 1969-72
 Gewirtz, Andrew E., 1973
 Goklany, Indur, 1973-74
 Hale, William Clinton III, 1974, 1977
 Henderson, Drew, 1972-73
 Jung, Frank, 1978-81
 Kumar, Prasana, 1975
 Nantwi, Kwaku, 1981
 Narayan, Srinivasa R., 1971, 1978
 Narra, Satya, 1979-80
 Neshich, Goran, 1982-88
 Overfield, Robert, 1979
 Rodman, Hillary, 1980
 Sarai, Akinori, 1982-88
 Seibert, Michael, 1967-77
 Taoka, Shinishi, 1984-90
 Wang, Gene, 1989
 Yerkes, Christine, 1983

Laser facility at UI, Director search, 1977
 Employee records, 1972-78
 National Institutes of Health (NIH), grant proposals, 1975-77
Research Investigator's Handbook, University of Pennsylvania, 1977
 Grants, general information, 1974-78
 National Science Foundation (NSf) proposal, June 30, 1986
 Johnson Foundation, promulgations, 1974-78
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 Molecular Biology group, 1970
 Grant application, University of Pennsylvania, 1973-75
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 Tutorials, UI, 1984-87
 F.B.I. Interview, November 3, 1983
 Biophysics examination questions, 1983-90
 Calendar, Tektronix, 1967
 Calendars, I²R Calendar for Scientists (3 folders), 1969, 1971-84, 1986-89

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 reviews and reconciliations, 1974-77
Equipment transfer, University of Pennsylvania to UI, 1977-78
USDA, grant applications, 1979
Simon, Al, notebook, Johnson Foundation, 1970
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Graduate group in Biochemistry/Biophysics, University of Pennsylvania, 1968-72
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Ethylicum & Chlorobium data, 1966
Non-chromatium (bacteria), data, 1964-68
Radiation Safety, 1969-71
Rotating D.B., data, 1968
Holography, 1964-67
Oscillating reactions, 1964-65
DeVault and Chance, "Studies of Photosynthesis Using a Pulsed Laser, II: Survey of Photosynthetic Bacteria," ca. 1968
DeVault's reviews of NSF proposals by others:
 Maurice Windsor, 1977
 R. H. Ruby, 1976
 Colin Wraight, 1974
 R. R. Alfano, 1973

D. Fleischman, 1975
 Donald Berns, 1975
 R. D. Clayton, 1975
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 University of Pennsylvania, Council, Senate and other administrative affairs, 1970-71
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 New York Photosynthesis Meetings, 1970-71
 Japan-U.S. cooperation, photosynthesis
 Rapid Biomedical Kinetics Facility, proposal, 1970-72
 University of Pennsylvania, Richards Building, Laser Lab renovation, 1971, 1975-76
 Tunneling, history of the literature, ca. 1966
 notes, ca. 1965
 H₂ problem, 1979-80
 H₂⁺, data and notes, 1979
 Copies of tables and figures
 April 1979 seminar paper, originals
 DeVault, "Current Problems in Biological Electron Transport," delivered in Kyoto, September 1970
 Figure 13 versions (paper not named)
 Control: energy gap, 1980
 Energy gap, 1979
 Charge transfer bonds, 1980
 References file
 Reverse primary reaction of photosynthesis, ca. 1979
 Non-photosynthesis data, ca. 1979
 Summaries, ca. 1979-80
 Cytochrome, photooxidation, reduction, ca. 1979
 Tunneling, R. P. Ball's approach, 1975
 General electron and electron transfer, 1968
 Influence of polar environment on electron transfer, 1968
 Quantum Mechanics, (structure), ca. 1965-66

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Digital computing, and University of Pennsylvania Computer Center, 1966-71
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 Correspondence with Mrs. Britton Chance, 1978
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 Biophysics Department, UI, faculty minutes, memos, 1978-85
 Mailing list for publication reprints

DeVault, "Report of a Study of Basic Quantum Mechanical Rate-of-Transition Theory", 1979
 "Nanosecond Absorbance Spectrophotometry," and related correspondence, 1977-78
 DeVault Publications, reprint file and correspondence, 1964-89
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 N.S.F., November 1989
 Research Board, UI, reports, application, 1986-87
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 Biophysics Department, memos, minutes & correspondence (2 folders), 1980-90

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School of Life Sciences, memos, 1982-88
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 Business--appointments, general, 1977-90
 Accounts, Telephone, 1979-88
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 ICR, 1983-89
 DeVault, "Interactions Among Photosynthetic Excited States", related correspondence, calculations,
 1977-78
 "Higher Order Fluorescence from Antenna Bacteriochlorophyll, delivered in Moscow,
 September 1978
 Tunneling, Electron transport theory, n.d.
 Critiques of DeVault's work, 1978-79
 Entropy in human affairs, 1980-82
 The moon, 1977
 Letter to Nature magazine, 1967
 Statistics calculations, 1988
 Likelihood in regression, data, 1989
 Experiments, data, July 24-26, 1971

November 7-8, 1971

December 16-17, 1971

DeVault, Quantum-mechanical Tunneling in Biological Systems, page proofs, corrections, index manuscript, 1983

Cancer research, 1956-73

Photosynthesis Research Notes from lectures, seminars, papers (11 folders), 1972-82

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(4 folders), 1983-86

Groupe d'Etude des Rythmes Biologiques, annual conference, 1976

Ideas, 1962-80

High pressure work, 1968-80

DeVault, "Apparent Midpoint Potentials in Membranes Subject to Transmembrane Electric Fields and to Proton Gradients" (5 versions), 1987

"Thermodynamics of Redox Measurements," 1975

Statistics, 1964-84

references, 1975-89

DeVault, "Information Theory and the Analysis of Experimental Samples: Relation to Boyes' Theorem," and notes, 1984-87

Jaynes, E. T., and other references on statistics

Fisher, R. A., Statistical Methods for Research Workers, DeVault's notes from, n.d.

NMR, statistics, 1984-88

TRENDS5, REGMAP2, data, 1987-88

Survival Analysis statistics, including Linus Pauling experimentation with Vitamin C on cancer, 1965-88

Biophysics 404-D (minimal statistics), class at UI, course materials, ca. 1986

problem sets, 1987

official business, 1988

final examination and student reports, 1988

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official business, 1989

final examination, 1989

1990

Biophysics 404-G (minimal statistics), class at UI, official business, 1986

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Biophysics 406, class at UI, 1985

Non-linear curve fitting by computer, 1962-76-88
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 Electron transfer, simulation, 1983-87
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 Cytochromes, 1971-82

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Michael Seibert's (U. Penn.) dissertation on Bacterial photosynthetic research on chromatium D, 1971.