

Series Outline

1. Correspondence, 1937-1985 2001 undated
2. Images, Biographical and Audio / Visual Materials, 1920-1995
3. Classroom Lectures and Other Academic Materials, 1918-1984
4. Article Manuscripts and Research Materials, 1922-1982 undated
5. Speeches, Meetings and Travel, 1929-1985 undated
6. Publications by Paul Emmett, 1924-1984 undated
7. Non-Emmett Reprints, 1918-1987 undated
8. Non-Emmett Research Files, 1921-1980 undated

Detailed Description of the Collection

Box

1. Correspondence, 1937-1985 2001 undated (22 boxes)

Series 1 consists of individual, organizational and general correspondence created and collected by Emmett as a result of his professional activities. Letters related to job recommendations, reprint requests and manuscript reviews are also contained in this series, as are Emmett's address files.

1.001 Correspondence: A, 1949-1985 2001

Folder

- 1.1 A: General Correspondence, 1967 1976 1980
- 1.2 Adams, Ron A., 2001
- 1.3 Amenomiya, Yoshi, 1978
- 1.4 American Chemical Society, 1964-1985
- 1.5 American Institute of Chemical Engineers, 1975
- 1.6 American Institute of Chemists, 1977
- 1.7 Amoco Oil Company, 1972-1975
- 1.8 Anderson, Robert B., 1970-1983
- 1.9 *Annual Review of Physical Chemistry*, 1949-1950
- 1.10 Atomic Energy Commission, 1965-1975
- 1.002 Correspondence: B, 1955-1984
- 2.1 B: General Correspondence, 1979-1982
- 2.2 Baker, R. Terry, 1980
- 2.3 Bartholomew, Calvin, 1976-1977
- 2.4 Bartley, Burton, 1963-1976 1983-1984
- 2.5 Battelle - Pacific Northwest Laboratory, 1973-1980
- 2.6 Baumgartner, Werner, 1982
- 2.7 Benchmark Books, 1978
- 2.8 Benedict, Donald L., 1971-1972
- 2.9 Block, Jochen, 1972-1973
- 2.10 Bordley, John L., 1970-1977
- 2.11 Boudart, Michel, 1970-1982
- 2.12 Brenner, Alan, 1968-1982
- 2.13 Brookhaven National Laboratory, 1962-1966
- 2.14 Brunauer, Stephen, 1955-1981
- 1.003 Correspondence: C, 1956-1985
- 3.1 C: General Correspondence, 1976 1979-1981
- 3.2 California Catalysis Society, 1972-1984
- 3.3 California Institute of Technology, 1978-1979
- 3.4 Campbell, John S., 1963-1965
- 3.5 Carberry, Jim, 1975-1976
- 3.6 *Catalysis Reviews*, 1970
- 3.7 Catalysis Society, 1970-1978 1985
- 3.8 Chaudron, Georges, 1956-1958
- 3.9 Chile, 1970
- 3.10 Ciapetta, Frank G., 1970
- 3.11 Clark, Alfred, 1980-1981
- 3.12 Coal Advisory Committee - Oak Ridge, 1977-1978
- 3.13 Cohen, Robert C., 1984
- 3.14 Connor, William C., Jr., 1982
- 3.15 Coon, Victoria, 1978

- 3.16 Cox, John L., 1981-1982
- 1.004 Correspondence: D, 1943 1957-1984
 - 4.1 D: General Correspondence, 1970 1979-1982
 - 4.2 Davis, Burtron, 1972-1978
 - 4.3 Davis, Burtron, 1979-1983
 - 4.4 Davison Chemical Company, 1960-1973
 - 4.5 Delord, Jean, 1983
 - 4.6 Demorgue, Louis, 1957-1961
 - 4.7 Dent, Anthony L., 1943
 - 4.8 Dickenson, J. T., 1974
 - 4.9 Dobashi, H., 1975
 - 4.10 Doolittle, Russell F., 1983
 - 4.11 Douglas, John, 1984
 - 4.12 Duda, J. L., 1984
 - 4.13 Dumesic, Jim A., 1981
- 1.005 Correspondence: E - G, 1955-1983 undated
 - 5.1 Eischens, Bob, undated
 - 5.2 Engel, Tom, 1980-1981
 - 5.3 Ertl, Gerhard, 1977-1980
 - 5.4 Fejes, Pal - Hungarian Academy of Science, 1964-1970
 - 5.5 Ferguson, Donald E., 1971-1982
 - 5.6 Fisher, Farley, 1983
 - 5.7 Ford Motor Company, 1962
 - 5.8 Fort, Tomlinson, Jr. - Carnegie-Mellon University, 1975-1976
 - 5.9 Franke, Frederick R., 1974
 - 5.10 Freeman, Mark P., 1971
 - 5.11 Gardner, Ralph A., 1981
 - 5.12 Garnett, Jack L., 1970-1983
 - 5.13 Garten, Robert L., 1975-1981
 - 5.14 Germer, Lester, 1971
 - 5.15 Giddings, Calvin J., 1977-1979
 - 5.16 Goddard, David R., 1979
 - 5.17 Gonzales, Richard D., 1982
 - 5.18 Grenall, Alex, 1955-1961
 - 5.19 Gryder, John, 1974-1977
- 1.006 Correspondence: H, 1946-1951 1960-1984
 - 6.1 Haag, Werner O., 1984
 - 6.2 Haensel, Vladimir, 1971-1976
 - 6.3 Hall, W. Keith, 1970-1984
 - 6.4 Hansford, Rowland C., 1970-1981
 - 6.5 Hanson, Francis, 1982-1984
 - 6.6 Harkins, C. Girvin, 1964-1965
 - 6.7 Harris, Ben, 1979
 - 6.8 Hawley, G. G., 1970
 - 6.9 Hegedus, Louis L., 1981-1983
 - 6.10 Heinemann, Heinz, 1973-1980
 - 6.11 Hightower, Joe Walter, 1960-1976
 - 6.12 Hill, Terrell - University of Wisconsin-Milwaukee, 1946-1951
 - 6.13 Horiuti, Juro, 1972-1979
 - 6.14 Hosemann, R., 1962
 - 6.15 Huang, Yun-Yang, 1970-1973
- 1.007 Correspondence: I, 1967-1981
 - 7.1 I: General Correspondence, 1969 1974-1975
 - 7.2 India, 1970-1981

- 7.3 Institute for Scientific Information, 1977-1978
- 7.4 International Vacuum Society, 1971
- 7.5 Ionescu, Constantin, 1967
- 1.008 Correspondence: J, 1943 1946 1972-1983
 - 8.1 Japan, 1973-1981
 - 8.2 Job referrals and recommendations, 1972-1982
 - 8.3 *Journal of Catalysis*, 1973-1974 1980-1983
 - 8.4 *Journal of Physical Chemistry*, 1971-1973
 - 8.5 *Journal of the American Chemical Society*, 1943 1946
- 1.009 Correspondence: K, 1963-1984 undated
 - 9.1 K: General Correspondence, 1963 1974-1984
 - 9.2 Kemball, Charles, 1974
 - 9.3 Kendall & Co., 1971-1978
 - 9.4 Keulks, George W., 1967 1971-1973
 - 9.5 Klier, Kamil, 1983
 - 9.6 Klotsche, J. Martin, 1970-1981
 - 9.7 Klotzkin, Myrna, 1982-1984
 - 9.8 Kohn, Harold, 1971-1973
 - 9.9 Kokes, Richard J., 1970-1973
 - 9.10 Koski, Walter, 1966 1978-1979
 - 9.11 Kubokawa, Yutaka, undated
 - 9.12 Kugler, Edwin L., 1974-1975
 - 9.13 Kuhn, Istvan, 1965-1973 1981
 - 9.14 Kummer, Joseph T., 1975-1981
- 1.010 Correspondence: L, 1937 1952-1983
 - 10.1 L: General Correspondence, 1967 1972 1976 1979-1980
 - 10.2 Lebovitz, P., 1983
 - 10.3 Lewinson, Victor A., 1952-1953
 - 10.4 Libby, Willard F., 1976-1981
 - 10.5 Lind, Samuel C. - *Journal of Physical Chemistry*, 1937
 - 10.6 Little, Leslie, 1973-1974
 - 10.7 Litton Educational Publishing - *Catalysis*, 1974
 - 10.8 Long, Frank A., 1955
 - 10.9 Low, Manfred J. D., 1975-1977
 - 10.10 Lowell, Seymour, 1980
- 1.011 Correspondence: M, 1939-1983
 - 11.1 M: General Correspondence, 1976-1981
 - 11.2 Madix, Robert J., 1974-1976
 - 11.3 Manhattan Project - SAM Laboratories, Columbia University, 1941-1947 1983
 - 11.4 Marisic, Milton M., 1939-1940
 - 11.5 Mason, Howard S., 1973
 - 11.6 Matsushita, Sanjuro, 1964-1969 1976-1982
 - 11.7 McGraw-Hill Book Co., 1954-1956
 - 11.8 Melton, Charles E., 1970-1977
 - 11.9 Merrill, Robert, 1973
 - 11.10 Meyer, Edwin F., 1973-1976
 - 11.11 Miller, Bill, 1977
 - 11.12 Moore, George E., 1969-1981
 - 11.13 Morikawa, Kiyoshi, 1971
 - 11.14 Mysels, Karol J., 1972-1973
- 1.012 Correspondence: N-Nat, 1945-1946 1970-1983
 - 12.1 N: General Correspondence, 1971-1981
 - 12.2 National Academy of Sciences, 1970-1975
 - 12.3 National Academy of Sciences, 1977-1983

- 12.4 National Defense Research Committee, 1945-1946
- 1.013 Correspondence: Nat-Nav, 1960-1978
- 13.1 National Institute of Catalysis, 1960-1964
- 13.2 National Institute of Catalysis, 1965-1978
- 13.3 Naval Research Laboratory, 1970-1971
- 1.014 Correspondence: O, 1956-1959 1969-1981
- 14.1 O: General Correspondence, 1978
- 14.2 Oak Ridge National Laboratory, 1956-1959
- 14.3 Oak Ridge National Laboratory, 1965-1975
- 14.4 Oak Ridge National Laboratory, 1976-1981
- 14.5 Oblad, Alex G., 1980
- 14.6 Oregon Graduate Center, 1974 1977
- 14.7 Oregon State University, 1976-1980
- 14.8 Ozaki, Atsumu, 1972-1980
- 1.015 Correspondence: P-Pa, 1940-1985 undated
- 15.1 P: General Correspondence, 1978-1979 undated
- 15.2 Parr, Robert G., 1966 1973
- 15.3 Paul H. Emmett Award, 1981
- 15.4 Paul H. Emmett Award, 1982
- 15.5 Paul H. Emmett Award, 1983
- 15.6 Paul H. Emmett Award, 1984-1985
- 15.7 Pauling, Linus, 1940-1980
- 1.016 Correspondence: Pe-Pi, 1949-1951 1960-1982
- 16.1 Peterson, E. E., 1982
- 16.2 Petroleum Research Fund, 1981
- 16.3 Phillips, Mary J., 1960-1978
- 16.4 Pierce, Conway, 1949-1951
- 16.5 Pines, Herman, 1971
- 1.017 Correspondence: Pr, 1964-1984
- 17.1 Pratt and Whitney Aircraft, 1964-1965
- 17.2 Pratt and Whitney Aircraft, 1966-1981
- 1.018 Correspondence: R, 1956 1963-1983
- 18.1 R: General Correspondence, 1972 1976
- 18.2 Reed College, 1983
- 18.3 Reid, E. Emmett, 1963-1980
- 18.4 Remsen Memorial Lectures, 1956
- 18.5 Reprint requests, 1973-1982
- 18.6 Retzer, J. Ridgely, 1970-1973
- 18.7 Reviews of manuscripts and grant applications, 1970-1982
- 18.8 Riseman, Edwin F., 1976
- 18.9 Roethel, David A. H. - American Institute of Chemists, Inc., 1980
- 18.10 Rossini, Frederick D., 1970-1974
- 1.019 Correspondence: S-T, 1959-1982
- 19.1 S: General Correspondence
- 19.2 Salbakken, Åge, 1971
- 19.3 Samour, Carlos, 1981
- 19.4 Schaefer, Hans, 1960-1968
- 19.5 Scott, Charles D. - Oak Ridge Laboratory, 1973
- 19.6 Selwood, Pierce W., 1975-1976
- 19.7 Sevenster, Peter, 1959-1960
- 19.8 Shell Development Co., 1965
- 19.9 Shockley, William, 1971
- 19.10 Slabaugh, Wendell H., 1972-1979
- 19.11 Somorjai, Gabor A., 1975-1981

- 19.12 Spindell, William, 1975
- 19.13 Stone, Frank S., 1959-1961 1968
- 19.14 Takezawa, Nobutsune, 1960-1978
- 19.15 Tamaru, Kenzi, 1978-1979
- 19.16 Taylor, Ellison, 1964-1979
- 19.17 Teichner, Stan. J., 1973-1979
- 19.18 Teller, Edward, 1977-1979
- 19.19 Thompson, Theo, 1970
- 19.20 Tobin, Hugh H., 1978
- 19.21 Toyoshima, Isamu, 1981-1982
- 19.22 Tracy, J. C. - General Motors, 1973-1974
- 19.23 Trau, Jerzy, 1973-1978
- 19.24 Turkevitch, John, 1971
- 1.020 Correspondence: U-V, 1970-1982
- 20.1 Union Carbide Corporation, 1970-1982
- 20.2 Union 76, 1976
- 20.3 United Aircraft Research Laboratories, 1974-1979
- 20.4 United States Bureau of Mines, 1972-1978
- 20.5 University of California - Lawrence Berkeley Laboratory, 1976
- 20.6 University of Oregon, Medical School, 1979
- 20.7 University of Toronto, 1977
- 20.8 University of Wisconsin-Milwaukee, 1974
- 20.9 UOP, Inc, 1979
- 20.10 Van Leirsburg, Dean, 1979
- 20.11 Vannice, M. Albert, 1981-1982
- 20.12 Vanselow, Ralf, 1976-1979
- 1.021 Correspondence: W-Z, 1957-1984
- 21.1 W: General Correspondence, 1970
- 21.2 W. R. Grace & Co., 1957-1971
- 21.3 W. R. Grace & Co., 1972-1982
- 21.4 Wagner, Carl, 1969
- 21.5 Walker, Philip L., Jr., 1977-1982
- 21.6 Wallace, William E., 1973-1979
- 21.7 Weinberg, W. Henry, 1975
- 21.8 Weisz, Paul, 1977
- 21.9 Winfield, Malcolm E., 1970-1980
- 21.10 Wise, Henry, 1974
- 21.11 Wojciechowski, B. W., 1976
- 21.12 Wormsbecher, Richard F., 1984
- 21.13 Wymer, Ray G., 1975-1977
- 21.14 Yang, Ralph T., 1984
- 21.15 Yao, Hsien C., 1960
- 21.16 Zijlstra, H., 1973
- 21.17 Zweitering, P., 1960-1965
- 1.022 Emmett Address files, [Files are contained in a metal box labeled "Advances in Catalysis."]

Box

2. Images, Biographical and Audio / Visual Materials, 1920-1995 (7 boxes)

Series 2 contains a wide array of biographical materials including personal correspondence, awards, articles written about Emmett and various keepsakes collected by Emmett over the course of his life. The series also contains a large set of personal slides and a smaller collection of audio-visual materials, most of which document lectures delivered by Emmett.

- 2.001 Assorted Personal and Biographical Information, 1929-1995
- 1.1 Certificate of Membership: Ancient Free and Accepted Masons of Oregon, October 16, 1929
 - 1.2 Articles: "Catalysis to Spark Future Energy" and "Catalysis Shapes a Career." *Chemical and Engineering News*, ca. 1950s
 - 1.3 Typescripts: biographical sketches of P. H. Emmett, ca. 1950s - 1970s
 - 1.4 Typescript: *List of Articles published by Paul H. Emmett and Co-Workers*; assorted additional lists of Emmett publications, July 1967
 - 1.5 Article: "Emmett, Paul Hugh." Biographical entry in the *McGraw-Hill Encyclopedia of Science and Technology*, ca. 1960s
 - 1.6 Correspondence: Leila L. Emmett Memorial Collection, Milton S. Eisenhower Library, Johns Hopkins University, 1968-1973
 - 1.7 Materials re: Emmett's entry in *Who's Who in the World*, 4th edition, 1970s
 - 1.8 Correspondence: Personal, 1970-1982
 - 1.9 Correspondence, Assorted Materials re: Medical Issues, 1970-1978
 - 1.10 Correspondence: Financial Matters, 1970-1984
 - 1.11 Typescript: *Autobiographical Remarks on the Career of Paul H. Emmett*, September 1974
 - 1.12 Reprint: "Interview with Paul H. Emmett." Interview by Burtron H. Davis, edited by R. C. Brasted and P. Fargo. *Impact*, April 1978
 - 1.13 Article: "A Lifetime of Effort in Catalytic Research," by Paul H. Emmett. *The Chemist*, 57 (8 & 9): 10-11, 19-20, August - September, 1980
 - 1.14 Typescript: *Paul H. Emmett: Six Decades of Contributions to Catalysis*, by Robert L. Garten. Symposium on the History of Heterogeneous Catalysis, meeting of the American Chemical Society, Las Vegas, Nevada, March 28 - April 2, 1982
 - 1.15 Reprint: "Paul H. Emmett (1900-1985): Six Decades of Catalysis," by Burtron H. Davis. *The Journal of Physical Chemistry*, 90 (20): 4701-4705, 1986
 - 1.16 Article: "B, E, & T: The Scientists Behind Surface Science," by Burtron H. Davis. *Chemtech*, January 1991
 - 1.17 Article: "Paul Hugh Emmett, 1900-1985," by Walter S. Koski. *Biographical Memoirs of the National Academy of Science*, 1995
- 2.002 Materials re: untitled survey of the history of catalysis, by Burtron Davis [?], ca. 1980s
- 2.1 Typescript, Reprints: *Chapter 1*. [homogeneous catalysis and adsorption references], ca. 1980s
 - 2.2 Typescript, Reprints: *Chapter 2*. [physical adsorption, B.E.T. equation and adsorption references], ca. 1980s
 - 2.3 Typescript, Reprints: *Chapter 3*. [particle size and pore size references], ca. 1980s
 - 2.4 Typescript, Reprints: *Chapter 4*. [heterogeneous catalysis, the early questions and surface sciences references], ca. 1980s
 - 2.5 Typescript, Reprints: *Chapter 5*. [electronic and vibrational adsorption spectroscopic studies with adsorption references], ca. 1980s
 - 2.6 Typescript, Reprints: *Chapter 6*. [instrumental techniques used for surface characteristics and electron-spin references], ca. 1980s
 - 2.7 Typescript, Reprints: *Chapter 7*. [methods of determining active sites and references], ca. 1980s
- 2.003 Materials re: Awards Received by Paul Emmett, 1953-1980
- 3.1 Seating Chart: The Pittsburgh Award. American Chemical Society, Pittsburgh Section, December 17, 1953
 - 3.2 Typescript: *Material required for the nomination of Dr. Paul H. Emmett for one of the National Medal of Science Awards*, 1962
 - 3.3 Newspaper Clippings: "Hopkins Professor Gets Highest Spanish Award", *The Evening Sun*, December 21, 1964 and "D.r. Emmett, J.H.U., Named to Honorary Spanish Post," *New York Times*, December 1964. [re:

- Emmett's appointment as an honorary councilor of the Consejo Superior], December 21, 1964 December 1964
- 3.4 Typescript: *Citation for the Phi Lambda Upsilon Induction of P. H. Emmett*, presented by Richard J. Kokes. Meeting of the American Chemical Society, Atlantic City, New Jersey, September 1965
- 3.5 Correspondence, Background Materials re: Emmett's receipt of the Remsen Award. American Chemical Society, Maryland Section, 1966
- 3.6 Materials re: Emmett's receipt of the Certificate of Merit, American Chemical Society. Atlantic City, New Jersey, 1968
- 3.7 Materials re: honorary degree awarded to Emmett by the University of Wisconsin-Milwaukee, 1969
- 3.8 Correspondence re: Honorary doctor of science degree awarded to Emmett by Clarkson College, 1969
- 3.9 Correspondence re: The Catalysis Club of Philadelphia Award. 1970., 1970
- 3.10 Citation, Correspondence: Distinguished Service Award, Oregon State University, June 2, 1974
- 3.11 Certificate: Fifty-Year Member, Phi Kappa Tau Fraternity, 1975
- 3.12 Certificate: Fifty-Year Anniversary of Emmett's graduation from the California Institute of Technology, 1975
- 3.13 Materials re: Centennial Commemorative Ceremony. P. H. Emmett recipient of Honorary Degree. Hokkaido University, Japan, 1976
- 3.14 Award Information and Correspondence re: Distinguished Alumni Award, California Institute of Technology, 1977., 1977
- 3.15 Correspondence, Citation, Background Information: The Howard Vollum Award for Distinguished Accomplishment in Science and Technology. Reed College, 1980
- 3.16 Correspondence, Background Material: Chemical Pioneers Award, American Institute of Chemists, 1980
- 2.004 Awards and Medals, 1939-1980
- 4.1 Honorary Doctor of Science. Oregon State College. Diploma, May 29, 1939
- 4.2 "Columbia University, World War II. For Participation in the Work of the Division of Research." Bronze Medal, ca. 1940s
- 4.3 The Pittsburgh Award. American Chemical Society, Pittsburgh Section. Medal, 1953
- 4.4 Consejo Superior de Investigaciones Cientificas. [Spain] Medal, 1964
- 4.5 The Catalysis Club of Philadelphia Award. Bound collection of congratulatory letters, 1970
- 4.6 Distinguished Service Award. Oregon State University. Certificate, 1974
- 4.7 Distinguished Alumni Award. California Institute of Technology. Medal, May 14, 1977
- 4.8 Howard Vollum Science and Technology Award. Reed College. Medal, 1980
- 2.005 Slides: Personal, Biographical and Travel , ca. 1920-1983 [Collection of approximately 400 slides of images documenting Emmett's travels, colleagues, immediate family and home life. Specific sets of slides were arranged and annotated by Emmett according to theme or travel destination. Emmett's set titles are as follows: "Our home and family," "New Hampshire," "Fuji and Hakone," "Eastern Oregon," "Kyoto," "Nagasaki" and "Europe 1960."]
- 2.006 Audio-Visual Materials, 1952 1957 1974 1982
- 6.1 Compact Disc: "Dr. Paul Emmett: Science and Energy. Parts 1, 2, & 3." WDUQ, producer., 1952 [Transferred to digital form from a vinyl original held in the Pauling Papers.]
- 6.2 DVD: "Educating a Chemist," Johns Hopkins File 7, December 28, 1957 [Transferred to digital form from a film reel original held at Johns Hopkins University.]
- 6.3 Film Reel: "Exxon Demonstration Film #1", 1950s
- 6.4 DVD: "Adsorption and Properties of Coal," P. H. Emmett lecture, Oak Ridge National Laboratory lecture series, November 1974 [Transferred to digital form from a VHS original. Includes full transcript.]
- 6.5 DVD: "Coal Gasification, Liquefaction, and Desulfurization," P. H. Emmett lecture, Oak Ridge National Laboratory lecture series, November 1974 [Transferred to digital form from a VHS original. Includes full transcript.]
- 6.6 DVD: "Coal Gasification to Form CO and H₂," P. H. Emmett lecture, Oak Ridge National Laboratory lecture series, November 1974 [Transferred to digital form from a VHS original. Includes full transcript.]
- 6.7 DVD: "Catalytic Processes Utilizing CO and H₂," P. H. Emmett lecture, Oak Ridge National Laboratory lecture series, November 1974 [Transferred to digital form from a VHS original. Includes full transcript.]
- 6.8 DVD: "Liquefaction of Coal," P. H. Emmett lecture, Oak Ridge National Laboratory lecture series, November 1974 [Transferred to digital form from a VHS original. Includes full transcript.]

- 6.9 DVD: "Sulfur Control by Hydrodesulfurization by Flue Scrubbing and by Underground Gasification," P. H. Emmett lecture, Oak Ridge National Laboratory lecture series, November 1974 [Transferred to digital form from a VHS original. Includes full transcript.]
- 6.10 Audiocassette: "Gordon Conference on Catalysis", June 1982
- 2.007 Artifacts, ca. 1940s-1950s
- 7.1 Keuffel & Esser Slide Rule No. 4081 and leather carrying case, ca. 1940s [Includes user's manual.]
- 7.2 Lead spline weight, ca. 1950s

Box**3. Classroom Lectures and Other Academic Materials, 1918-1984 (12 boxes)**

Materials related to Paul Emmett's primary academic affiliations are collected into series 3. Included are the class notebooks kept by Emmett as a graduate student at the California Institute of Technology as well as a wide array of materials documenting his teaching and administrative duties at Johns Hopkins University, George Washington University, the Mellon Institute and University of Pittsburgh, and Portland State University.

- 3.001 Exercise Book: P. H. Emmett Undergraduate Studies, Oregon Agricultural College, 1918
 - 1.1 Exercise Book: Chemistry, P. H. Emmett, Oregon Agricultural College, October 1918
- 3.002 Class Notes: P. H. Emmett Doctoral Studies, California Institute of Technology, 1922-1925
 - 2.1 Notebook: *An Advanced Course of Instruction in Chemical Principles*. Notes by P. H. Emmett. Professors A. A. Noyes and M. S. Sherrill, California Institute of Technology, September 1922
 - 2.2 Class Notes: "Radiation Chemistry." Professor R. C. Tolman, California Institute of Technology, 1922-1923
 - 2.3 Class Notes: "Thermodynamic Chemistry." Professor A. A. Noyes, California Institute of Technology, 1923
 - 2.4 Class Notes: "Radiation Chemistry" and "Sommerfeld's Lectures." California Institute of Technology, 1923
 - 2.5 Class Notes: "Introduction to Mathematical Physics." Professor R. C. Tolman, California Institute of Technology, 1923
 - 2.6 Class Notes: "Surface and Colloid Chemistry." Professor R. C. Tolman, California Institute of Technology, 1923-1924
 - 2.7 Class Notes: "Atomic Structure Course" and "Statistical Mechanics Course." Professor R. C. Tolman, California Institute of Technology, 1923-1925
 - 2.8 Assorted Research Notes, Typescript Fragments and Class Materials: California Institute of Technology, 1923-1925
 - 2.9 Notebook: "Problems in Lewis + Randall's Thermodynamics," P. H. Emmett [Includes Expenditures and other Problems], 1920s [Includes partial ledger of Emmett's expenditures, 1927-1935.]
- 3.003 Class Notebooks: P. H. Emmett Doctoral Studies, California Institute of Technology, 1923-1924
 - 3.1 Notebook: *Kinetic Theory by R. A. Millikan*, P. H. Emmett, 1923-1924
 - 3.2 Notebook: *Atomic Structure and Research Seminar*, P. H. Emmett, 1923-1924
 - 3.3 Notebook: *Thermodynamics by Dr. Epstein*, P. H. Emmett, 1924
 - 3.4 Notebook: *Quantum Theory by Dr. Epstein*, P. H. Emmett, ca. 1924
 - 3.5 Notebook: *Thermodynamics and Quantum Theory*, P. H. Emmett, ca. 1924
- 3.004 Lecture Materials: George Washington University, 1927-1936
 - 4.1 Lecture Outlines re: ammonia synthesis, George Washington University, 1927-1929
 - 4.2 Lecture Outlines re: contact catalysis, George Washington University, 1927-1936
 - 4.3 Lecture Outlines re: gas-solid reactions, promoter action and other reactions, George Washington University, 1928-1929
 - 4.4 Assorted Reading Assignments, Worksheets and Examinations: George Washington University, 1928-1936
 - 4.5 Lecture Outlines, Examinations re: chemistry, George Washington University and Johns Hopkins University, 1929-1934
 - 4.6 Lecture Outlines, Examinations, Notes re: catalytic synthesis and the nature of catalytic surfaces, George Washington University, 1929-1936
 - 4.7 Lecture Outlines re: ammonia synthesis and other topics, George Washington University, 1932
- 3.005 Lecture Materials: Johns Hopkins University, 1937-1942
 - 5.1 Lecture Outlines, Examinations re: industrial catalysis, Johns Hopkins University, 1937-1942

- 5.2 Correspondence re: cooperative industrial research plans, Johns Hopkins University, 1938-1939
- 5.3 Lecture Outlines re: catalysis, Johns Hopkins University, 1938-1942
- 5.4 Lecture Outlines re: kinetics, Johns Hopkins University, 1937-1941
- 5.5 Research Notes: work conducted by undergraduate and graduate students supervised by P. H. Emmett. John Hopkins University, 1939
- 3.006 Lecture Materials: Mellon Institute/University of Pittsburgh, 1945-1957 1974
 - 6.1 Guides for Reprint and Punch Card Filing System, University of Pittsburgh, 1945-1957
 - 6.2 Typescript: *Industrial Catalysis*, bound lecture notes pp. 1-171. University of Pittsburgh, 1946-1947
 - 6.3 Lecture Outlines, Examinations, Attendance and Grade Book: industrial catalysis, University of Pittsburgh, 1946-1947 1950-1957
 - 6.4 Materials re: effort by P. H. Emmett to create a catalysis book based on his lectures. Contains *A New Approach to the Theory of Adsorption* by A. Wheeler, 1950
 - 6.5 Class List: catalysis course, University of Pittsburgh, 1950
 - 6.6 Correspondence: Mellon Institute, 1950-1951 1956
 - 6.7 Assorted Final Grades, Graded Examinations and Notes: University of Pittsburgh, 1951-1955
 - 6.8 Outlines re: various lecture seminars delivered by P. H. Emmett, 1954
 - 6.9 Notebook: log of Emmett's daily activities and scientific work, 1954
 - 6.10 Invitation: "Dedication of the Lauren H. Ashe Auditorium and Chemistry Building," University of Pittsburgh, November 11-12, 1974
- 3.007 Lecture Materials: Johns Hopkins University, 1955-1980
 - 7.1 Assorted Lecture Materials: Johns Hopkins University, 1955-1968
 - 7.2 Examinations and Numbered Figures re: catalysis, Johns Hopkins University, 1957-1968
 - 7.3 Examinations re: physical chemistry, Johns Hopkins University, 1958-1966
 - 7.4 Lecture Outlines, Reprints re: research and training in science, Johns Hopkins University, 1958-1960
 - 7.5 Examinations re: organic chemistry, Johns Hopkins University, 1961-1964
 - 7.6 Organizational Correspondence and Graded Student Work: Johns Hopkins University, 1959-1965 1969-1980
- 3.008 Lecture Materials: Johns Hopkins University, 1960-1970
 - 8.1 Reprint Filing Guide: Johns Hopkins University, 1960-1967
 - 8.2 Calendar: Johns Hopkins University, 1961
 - 8.3 Notes: "Research Plans for Post Doctorate (PD), Graduate Student (G), and First Year Graduate Student (F)," Johns Hopkins University, September 20, 1966
 - 8.4 Graded Work, Class Lists and Other Course Materials: Johns Hopkins University, 1965-1968
 - 8.5 Materials re: microcalorimetry equipment, 1965-1970
 - 8.6 Lecture Outlines re: surface science, Johns Hopkins University, 1970
 - 8.7 Lecture Outlines re: chemisorption and isotopic tracers for studying catalytic reactions, Johns Hopkins University, 1970
- 3.009 Lecture Materials: Portland State University, 1968-1984
 - 9.1 Correspondence: Portland State University, 1968-1984
 - 9.2 Lecture Outlines, Handouts, Examinations, Class Lists re: catalysis. Portland State University, 1971-1983
- 3.010 Lecture Materials: Portland State University, 1972-1983
 - 10.1 Lecture Outlines, Reprints re: catalytic synthesis of ammonia and catalytic hydrogenation, Portland State University, 1972-1983
 - 10.2 Reprint: *Chemistry Faculty Publications*, Portland State University, Fall 1973
 - 10.3 Lecture Outlines, Reprints, Course Outline, Class Lists, Graded Homework, re: surface chemistry, Portland State University, 1974-1975
 - 10.4 Lecture Outlines, Visual Aides, Notes re: coal gasification and desulfurization, Portland State University, 1974-1980
 - 10.5 Lecture Outlines: "New Sources and Types of Fuel," Portland State University, 1974-1982
- 3.011 Lecture Materials: Portland State University, 1974-1979
 - 11.1 Lecture Outlines, Reprints, Notes, Visual Aides and Correspondence re: environmental sciences, Portland State University, 1973-1988
- 3.012 Lecture Materials: Portland State University, 1980-1983
 - 12.1 Portland State University Energy Reports, 1976-1980

- 12.2 Vitae and Biographical Sketches: Applicants for an open faculty position at Portland State University, ca. 1970s
- 12.3 Notes re: *Journal of Catalysis* articles of teaching interest, Portland State University, 1980
- 12.4 Examinations, Notes, Visual Aides re: radioactivity of hydrocarbon products, Portland State University, 1980
- 12.5 Assorted Reprints, Graded Student Work: Portland State University, 1980
- 12.6 Visual Aides re: coal, Portland State University, 1983

Box**4. Article Manuscripts and Research Materials, 1922-1982 undated (60 boxes)**

Much of Emmett's scientific output is collected into the expansive Series 4. Included are manuscripts and typescripts of articles written by Emmett, materials related to grant-funded contract work conducted by Emmett, research notes and notebooks created by Emmett and a vast collection of glass plate negatives and lantern slides used by Emmett to present his work.

4.001 Manuscripts and Typescripts of Articles, 1923-1941

- 1.1 Typescripts: *The Reduction of Nickelous and Ferric Oxides by Hydrogen*, P. H. Emmett and A. F. Benton, ca. 1923
- 1.2 Manuscript: *The Crystal Structure of Barite*, Linus Pauling and P. H. Emmett, 1925
- 1.3 Typescript, Notes: *The Catalytic Synthesis of Water Vapor in Presence of Melting Nickel*, Arthur Benton and P. H. Emmett. California Institute of Technology, 1926
- 1.4 Typescript, Notes: *Kinetics of Ammonia Synthesis*, February 1927
- 1.5 Typescript, Notes: *Kinetics of Ammonia Synthesis: Data Summary*, 1927
- 1.6 Typescripts, Notes: *Rate of Ammonia Synthesis*, P. H. Emmett, J. T. Kummer, et al., 1927
- 1.7 Typescript: *Adsorption of Gases in Multimolecular Layers*, P. H. Emmett, S. Brunauer and E. Teller. George Washington University, 1938
- 1.8 Typescript, Galley Proofs: *The Measurement of the Surface Areas of Finely Divided or Porous Solids by Low Temperature Adsorption Isotherms*, P. H. Emmett, 1941

4.002 Manuscripts and Typescripts of Articles, 1942-1948 ca. 1940s

- 2.1 Typescript, Notes, Correspondence: *Catalysis and its Industrial Applications*, P. H. Emmett, ca. 1942
- 2.2 Typescript: *The Carbides of Iron, Cobalt and Nickel*, ca. 1943
- 2.3 Manuscript, Typescript, Notes: *Iron Catalysts and the Fischer-Tropsch Synthesis*, P. H. Emmett [?], 1944
- 2.4 Typescript and Research Notes: *The Hydrogenation of Ethylene Propylene and 2-Butene on Iron Catalysts*, P. H. Emmett and J. B. Gray, ca. 1944
- 2.5 Typescript, Notes, Correspondence: *Research on the Fischer-Tropsch Synthesis Over Iron Catalysts in Progress at Mellon Institute*, April 22, 1946
- 2.6 Typescript, Notes, Correspondence: *Adsorption of Carbon Monoxide and Hydrogen on Iron Fischer-Tropsch Catalysts*, H. H. Podgurski, T. W. DeWitt and P. H. Emmett, ca. 1947
- 2.7 Typescript, Notes: *Use of C14 and N15 in Studying Catalytic Reactions and Adsorption Processes on Iron Catalysts*, J. T. Kummer and P. H. Emmett, 1947-1948
- 2.8 Manuscript: *Critique of Paper by Smith and Pierce* ["Heats of Adsorption," by R. Nelson Smith and Conway Pierce, *The Journal of Physical and Colloid Chemistry*, Vol. 52, No. 7], 1948
- 2.9 Outline: *Surface Area Measurements on Metal Surfaces*, P. H. Emmett, ca. 1940s

4.003 Manuscripts and Typescripts of Articles, 1952-1955

- 3.1 Typescript, Notes, Reprints: *Adsorption of H₂, CO and Mixtures of H₂ and CO on Iron Oxide Catalysts*, H. H. Podgurski and P. H. Emmett, January 24, 1952
- 3.2 Typescripts: *The Adsorption of Normal Olefins on Silica-Alumina Catalysts*, D. S. MacIver, R. C. Zabor and P. H. Emmett, August 7, 1952
- 3.3 Typescript, Notes: *Mechanism Studies of the Fischer-Tropsch Synthesis*, 1953
- 3.4 Manuscript, Typescripts, Correspondence: *The Adsorption of Hydrogen and Carbon Monoxide on Iron surfaces*, H. H. Podgurski and P. H. Emmett, 1953
- 3.5 Typescript: *Critical Comments on the paper by Oblad, Hindin and Mills entitled "Dynamic Structure of Oxide Cracking Catalysts"*, 1953

- 3.6 Manuscript, Typescript: *Hydrogen Exchange Between Isobutane and a Deuteriated Cracking Catalyst*, R. G. Haldeman and P. H. Emmett. Prepared for American Chemical Society meeting, Chicago, 1953
- 3.7 Manuscript, Typescript: *Surface Area Measurements on Carbon Black Produced by the Catalytic Decomposition of Carbon Monoxide over Iron*, D. S. MacIver and P. H. Emmett, September 10, 1954
- 3.8 Manuscript, Typescripts: *Summary of Recent Tracer Experiments Relative to the Mechanism of Fischer-Tropsch Synthesis*, W. K. Hall, R. J. Kokes and P. H. Emmett, 1954
- 3.9 Typescripts: *Specific Adsorption of Alkyl Orange Dyes on Silica Gel*, R. G. Haldeman and P. H. Emmett, 1955
- 3.10 Manuscript, Typescript, Correspondence: *Adsorption*, article written for publication in *Encyclopaedia Britannica*, ca. 1955
- 4.004 Manuscripts and Typescripts of Articles, 1956-1958
- 4.1 Typescript, Notes, Correspondence: *A Study of the Water Content of a Silica-Alumina Catalyst and its Component Oxides*, R. G. Haldeman and P. H. Emmett, 1956
- 4.2 Typescript, Notes: *An Improved Microcatalytic Technique*, W. Keith Hall and P. H. Emmett, ca. 1956
- 4.3 Typescripts: *The Water Content of a Silica-Alumina Catalyst and its Component Oxides*, R. G. Haldeman and P. H. Emmett, 1956
- 4.4 Typescripts, Correspondence: *Evaluation of the Nuclear Science Programs, Resources and Requirements in the Departments of Chemistry, Physics and Biology* W. D. McElroy, P. H. Emmett, et al. Johns Hopkins University radiation committee, ca. 1956
- 4.5 Typescript, Notes: *New Techniques in Catalytic Research*, 1957
- 4.6 Typescript: *An Improved Microcatalytic Technique*, W. K. Hall and P. H. Emmett, 1957
- 4.7 Typescripts: *Mechanism Studies of the Fischer-Tropsch Synthesis. The Addition of Radioactive Methanol, Carbon Dioxide and Gaseous Formaldehyde*, W. K. Hall, R. J. Kokes and P. H. Emmett, 1957
- 4.8 Typescript, Galley Proofs: *Tracer and Adsorption Techniques in Catalysis*, 1957
- 4.9 Typescript: *Alkane Adsorption on Silica, Alumina and Silica-Alumina Catalysts*, D. S. MacIver, P. H. Emmett, and Henry S. Frank, 1958
- 4.005 Manuscripts and Typescripts of Articles, 1958-1959 ca. 1950s
- 5.1 Typescript, Abstract, Notes: *The Use of Tracers and Gas Chromatography in Studying Catalytic Reactions*, 1958
- 5.2 Typescript: *The Hydrogenation of Benzene over Copper-Nickel Alloys*, W. K. Hall and P.H. Emmett, 1958
- 5.3 Manuscript, Typescript, Correspondence: *Chemisorption of Nitrogen on Nickel Catalysts*, R. J. Kokes and P. H. Emmett, 1958
- 5.4 Manuscript, Typescripts: *Fischer-Tropsch Synthesis Mechanism Studies. The Addition of Radioactive Ketene to the Synthesis Gas*, P. H. Emmett and G. Blyholder, 1959
- 5.5 Typescripts: *Adsorption and Catalysis*, P. H. Emmett. John Hopkins University, 1959
- 5.6 Typescripts: *Studies of the Hydrogenation of Ethylene over Copper-Nickel Alloys*, P. H. Emmett and W. K. Hall, 1959
- 5.7 Typescript: *Kinetics of Catalytic Liquid Phase Hydrogenation I: The Hydrogenation of Aromatic Nitrocompounds over Colloidal Rhodium and Palladium*, H. C. Yao and P. H. Emmett, 1959
- 5.8 Typescript, Referee's Report: *The Role of Hydrogen in Raney Nickel Catalysis*, R. J. Kokes and P. H. Emmett, 1959
- 5.9 Manuscript: *Effect of Base-Exchange on Activity of Silica-Alumina Cracking Catalyst*, L. B. Wayne and P. H. Emmett, ca. 1950s
- 5.10 Manuscript: *Exchange Properties of Cracking Catalyst Deposits*, L. B. Wayne and P. H. Emmett, ca. 1950s
- 5.11 Manuscript: *Reaction between Propylene and Isobutane over Cracking Catalyst*, L. B. Wayne and P. H. Emmett, ca. 1950s
- 5.12 Manuscript: *Base Exchange Catalysts*, ca. 1950s
- 5.13 Manuscript, Research Notes: *The Melting Point of Liquids Condensed in Very Small Capillaries*, ca. 1950s
- 4.006 Materials re: *Contact Catalysis*, book by P. H. Emmett, ca. 1950s
- 6.1 Typescript: *Preface to Contact Catalysis*, ca. 1950s
- 6.2 Typescript: *Introduction*, Chapter 1 of *Contact Catalysis*, ca. 1950s
- 6.3 Typescript: *Adsorption*, Chapter 2 of *Contact Catalysis*, ca. 1950s
- 6.4 Typescript: *Measurement of the Surface Area of Solid Catalysts*, Chapter II of *Contact Catalysis*, ca. 1950s
- 6.5 Typescript: *The Pore Structure of Catalysts*, Chapter III of *Contact Catalysis*, ca. 1950s
- 6.6 Typescript: *Influence of Pore Size on the Behaviour of Catalysts*, Chapter IV of *Contact Catalysis*, ca. 1950s

- 6.7 Annotated Typescript Drafts, Notes: *Contact Catalysis*, ca. 1950s
- 6.8 Correspondence, Publication Agreement: *Contact Catalysis*, 1947-1952 1968-1969
- 4.007 Manuscripts and Typescripts of Articles, 1960
- 7.1 Typescript: *The Activity of Raney Nickel as a Function of Hydrogen Content*, R. J. Kokes and P. H. Emmett, 1960
- 7.2 Typescripts: *The Contribution of Chemisorption Work to the Investigation of Catalysis*, 1960
- 7.3 Typescripts: *Mechanism Studies of the Fischer-Tropsch Synthesis: The Incorporation of Radioactive Ethylene, Propionaldehyde and Propanol*, W. K. Hall, R. J. Kokes and P. H. Emmett, 1960
- 7.4 Typescripts: *The Gas Chromatographic Determination of Hydrogen, Deuterium and HD*, W. A. Van Hook and P. H. Emmett, 1960
- 7.5 Typescripts: *Fischer-Tropsch Synthesis Mechanism Studies. The Addition of Radioactive Ketene to the Synthesis Gas II*, G. Blyholder and P. H. Emmett, 1960
- 7.6 Typescript: *A National Institute for Catalysis in the United States*, P. H. Emmett, A. G. Oblad and J. Turkevich, 1960
- 4.008 Manuscripts and Typescripts of Articles, 1961-1962
- 8.1 Typescript, Correspondence, Notes: *The Catalytic Hydrogenation of Substituted Olefins on Platinum and Palladium Catalysts*, P. H. Emmett and H. Schaefer, March 1, 1961
- 8.2 Typescript: *Kinetics of Liquid Phase Hydrogenation. I-III*. P. H. Emmett and H. C. Yao, 1961
- 8.3 Typescripts, Notes, Correspondence: *Kinetics of Liquid Phase Hydrogenation II. Hydrogenation of Aromatic and Aliphatic Nitrocompounds over a Colloidal Platinum Catalyst*, H. C. Yao and P. H. Emmett, 1961
- 8.4 Typescript: *Kinetics of Liquid Phase Hydrogenation III. The Nature of Platinum Oxide Catalysts*, H. C. Yao and P. H. Emmett, 1961
- 8.5 Typescript, Correspondence: *Study of the Hydrogenation of Ethylene over Homogenized Copper-Nickel Alloy Films*, M. K. Gharpurey and P. H. Emmett, 1961
- 8.6 Manuscript, Typescript, Notes: *A Decade of Progress in Heterogeneous Catalysis*, 1961
- 8.7 Typescript, Notes: *Tracer Studies with C14. The Formation and Behavior of Aromatics during the Cracking of n-Hexadecane over a Silica-Alumina Catalyst*, P. H. Emmett and J. W. Hightower, 1961
- 8.8 Typescript, Graph: *The Use of Iron as a Catalyst for the Hydrogenation of Benzene and Olefins*, M. J. Phillips and P. H. Emmett, 1961
- 8.9 Typescripts: *Formation of Hydrogen Atoms in Irradiated Catalysts*, P. H. Emmett, R. Livingston, H. Zeldes and R. J. Kokes, ca. 1961
- 8.10 Manuscript, Typescript, Notes: *Gas Chromatographic Studies of Hydrogen Adsorption on Iron Synthetic Ammonia Catalysts*, P. H. Emmett and N. Takezawa, 1961-1962
- 4.009 Manuscripts and Typescripts of Articles, 1962
- 9.1 Typescripts: *Chemisorption and Catalysis*, lecture delivered at an ASTM symposium, June 29, 1962
- 9.2 Typescripts, Figures: *New Approaches to the Study of Catalysis*, P. H. Emmett, Priestley Lectures, 1962
- 9.3 Typescript, Figures, Notes: *Kinetics of Liquid Phase Hydrogenation. IV. Hydrogenation of Nitrocompounds over Raney Nickel and Nickel Powder Catalysts*, H. C. Yao and P. H. Emmett, 1962
- 9.4 Typescripts, Correspondence: *Nitrogen Adsorption Isotherms on Polyolefins*, P. H. Emmett and J. W. Hightower, 1962
- 4.010 Manuscripts and Typescripts of Articles, 1962-1963
- 10.1 Typescript, Notes: *Catalytic Cracking of Hexadecane. II. The Nature of Carbonium Ion Forming Steps and the Exchange of Hydrocarbons with Radioactive Coke*, W. A. Van Hook and P. H. Emmett, 1962
- 10.2 Typescripts, Notes: *Tracer Studies with Carbon-14. I. Some of the Secondary Reactions Occurring During the Catalytic Cracking of n-Hexadecane over a Silica-Alumina Catalyst*, W. A. Van Hook and P. H. Emmett, 1962
- 10.3 Typescripts, Notes, Correspondence: *The Catalytic Hydrogenation of Substituted Olefins on Platinum and Palladium Catalysts*, P. H. Emmett and H. Schaefer, September 1963
- 10.4 Typescript, Correspondence: *Catalytic Cracking of Hydrocarbons. III. Product Distribution Obtained in Cracking Cetane over a Silica Alumina Catalyst at 372 °C*, W. A. Van Hook and P. H. Emmett, 1963
- 4.011 Manuscripts and Typescripts of Articles, 1963
- 11.1 Typescript: *Industrial Catalysis* [Copy 1], 1963
- 11.2 Typescript: *Industrial Catalysis* [Copy 2], 1963
- 4.012 Manuscripts and Typescripts of Articles, 1963-1965

- 12.1 Typescripts, Figures: *Nitrogen Adsorption Isotherms on Polyolefins*, J. W. Hightower and P. H. Emmett, 1963
- 12.2 Manuscripts, Typescripts, Notes, Correspondence: *The Use of Iron as a Catalyst for the Hydrogenation of Benzene and Olefins*, M. J. Phillips and P. H. Emmett, 1963
- 12.3 Manuscript, Notes: *NO, NO₂, N₂ a Separation by Gaschromatographic Method*. K. Matsushita and P. H. Emmett, July 25, 1964
- 12.4 Typescript: *Physical Chemistry of Processes on Solid Surfaces. Adsorption, Tracers, and Micro-catalytic-chromatographic Techniques*, 1964
- 12.5 Typescripts, Correspondence, Notes: *Transient Species Observed in the Catalyzed Decomposition of Ammonia*, C. E. Melton, E. H. Taylor and P. H. Emmett, 1964
- 12.6 Typescript, Correspondence: *Catalytic Cracking of n-Hexadecane. IV. The Formation and Behavior of Aromatics over a Silica-Alumina Catalyst*, J. W. Hightower and P. H. Emmett, 1965
- 4.013 Manuscripts and Typescripts of Articles, 1965
- 13.1 Typescript: *Catalysis*, pp. 1-247. [update of *Industrial Catalysis*], 1965
- 13.2 Typescript: *Catalysis*, pp. 76-248, 1965
- 13.3 Typescript: *Catalysis*, pp. 1-248, 1965
- 4.014 Manuscripts and Typescripts of Articles, 1965-1966
- 14.1 Typescripts, Notes re: *The Catalytic Hydrogenation of Ethylene Over a Supported Platinum Catalyst. The Reported Migration of Hydrogen Atoms Over Catalyst Supports*, G. Kremenec and P. H. Emmett, 1965
- 14.2 Typescript, Correspondence: *Chemisorption of Carbon Monoxide on Finely Divided Platinum Held in Aqueous Suspension*, J. W. Hightower and P. H. Emmett, 1965
- 14.3 Bound Typescript: *Industrial Catalysis*, Part I, 1965-1966
- 14.4 Bound Outline: *Industrial Catalysis*, Part II. [pp. 101-247], 1965-1966
- 14.5 Typescripts, Correspondence, Figures: *The Formation and Influence of Methyl Carbonium Ions in the Catalytic Cracking of Propane, Isobutane and n-Butane*, P. Fejes and P. H. Emmett, February 1966
- 14.6 Typescript, Galley Proof: *The Initiation of the Free Radical Thermal Decomposition of Saturated Hydrocarbons by Mercury Perchlorate*, G. W. Keulks and P. H. Emmett, 1966
- 14.7 Manuscript, Notes, Correspondence: *Formation of Xenon Fluorides*, P. H. Emmett, J. L. Wishlade and Burtron Davis, 1966
- 4.015 Manuscripts and Typescripts of Articles, 1967-1968
- 15.1 Typescripts, Galley Proofs, Notes, Correspondence: *The Reactions of Xenon and Fluorine to Form Xenon Fluorides*, B. H. Davis, J. L. Wishlade, P. H. Emmett, December 19, 1967
- 15.2 Typescript, Galley Proofs, Notes, Correspondence, Figures: *The Catalytic Hydrogenation of Ethylene on Nickel-Copper and Nickel-Gold Alloys*, J. S. Campbell and P. H. Emmett, 1967
- 15.3 Typescript, Notes, Correspondence: *The Adsorptions of Nitrogen and Hydrogen on Iron Synthetic Ammonia Catalysts*, N. Takezawa and P. H. Emmett, 1968
- 15.4 Typescripts, Galley Proofs, Correspondence: *Interaction of Nitrogen and Carbon Monoxide on Iron Synthetic Ammonia Catalysts*, N. Takezawa and P. H. Emmett, 1968
- 15.5 Typescripts, Galley Proofs, Correspondence: *The Influence of "Added-Back" Water Vapor on the Chemisorption and on the Rate of Catalytic Cracking of Paraffins on a Silica-Alumina Catalyst*, K. Matsushita and P. H. Emmett, 1968
- 15.6 Typescript, Correspondence, Reprints: *Equilibrium Measurements in the Mo-C-H System*, Å. Solbakken and P. H. Emmett, 1968
- 15.7 Typescript: *Theory of Gas Solid Interface Catalysis*, ca. 1968
- 4.016 Manuscripts and Typescripts of Articles, 1968-1973
- 16.1 Typescript, Notes, Correspondence: *Exchange of H₂O₁₈ with the Oxygen of Promoters on the Surface of Iron Catalysts*, V. Solbakken, Å. Solbakken and P. H. Emmett, 1968-1969
- 16.2 Typescript, Notes, Correspondence: *Catalysis: Its Past, Present and Future*, 1969
- 16.3 Typescripts: *Catalytic Research in Japanese Universities*, 1969
- 16.4 Typescript: *The Use of Iron as a Catalyst for the Hydrogenation of Benzene and Olefins*, M. J. Phillips and P. H. Emmett, ca. 1969
- 16.5 Typescripts: *Use of Radioactive Acetone in Studying Catalytic Dehydrogenation and Dehydration of Isopropanol on Cr₂O₃ and The Catalytic Dehydration and Dehydrogenation of Isopropyl Alcohol over Chromium Oxide*, G. Kremenec and P. H. Emmett, ca. 1960s

- 16.6 Typescript, Galley Proof: *The Inhibition by Nitrogen of the Chemisorption of Carbon Monoxide on an Unpromoted Iron Catalyst*, Y. Huang and P. H. Emmett, 1971
- 16.7 Typescript: *Synthetic Ammonia Catalysts - Retrospect and Prospect*, 1971
- 16.8 Typescript, Correspondence, Figures: *The Use of Isotopic Tracers in Studying Catalysts and Catalytic Reactions*, 1972
- 16.9 Typescript: *Adsorption and Catalysis*. [update of 1959 article], 1972
- 16.10 Typescripts, Notes: *The Effect of Exchanged Cations and Heat Treatment on the Adsorption of Carbon Monoxide, Nitrogen, Argon and Krypton on Amorphous Silica-Alumina Cracking Catalysts*, Y. Haung and P. H. Emmett, 1973
- 4.017 Manuscripts and Typescripts of Articles, 1973-1976
- 17.1 Typescript, Notes: *Surface Areas and Adsorption Characteristics of Four Willamette Valley Soils*, T. M. Quale, G. L. Gard and P. H. Emmett, ca. 1973
- 17.2 Typescript, Correspondence, Figures: *Carbon-14 Tracer Studies of the Secondary Reactions in the Cracking of Hexadecane over Zeolite Catalysts*, J. L. Bordley, Jr. and P. H. Emmett, 1973
- 17.3 Typescript, Correspondence, Figures: *Fifty Years of Progress in Surface Science*, 1974
- 17.4 Typescript, Figures: *Fifty Years of Progress in the Study of The Catalytic Synthesis of Ammonia*, 1974
- 17.5 Typescripts, Notes, Correspondence: *Secondary Reactions in the Cracking of n-Hexadecane Over Solid Acidic Catalysts and Catalytic Cracking of n-Hexadecane. VI. Carbon-14 Tracer Studies of Secondary Reactions over Amorphous Silica-Alumina and Zeolite Catalysts*. B. H. Bartley and P. H. Emmett, 1976
- 17.6 Typescript, Notes, Correspondence: *A Tracer Method for Investigating Secondary Reactions*, P. H. Emmett and B. H. Bartley, 1976
- 4.018 Manuscripts and Typescripts of Articles, 1976-1982
- 18.1 Typescript, Notes, Correspondence: *Catalytic Cracking of n-Hexadecane. VI. Carbon-14 Tracer Studies of Secondary Reactions over Amorphous Silica-Alumina and Zeolite Catalysts*, B. H. Bartley and P. H. Emmett, ca. 1976
- 18.2 Typescripts, Notes, Correspondence: *The Chemisorptions of Gases on Well-Reduced Iron Synthetic Ammonia Catalysts*, P. H. Emmett and N. Takezawa, 1978
- 18.3 Typescript, Notes: *Process Mentioned in Article on Synthetic fuels C&E News*, 1979
- 18.4 Typescript, Notes: *Measurement of the CO₂ Adsorption on Coal at 25° C Using the Quantasorb Apparatus*, 1980
- 18.5 Typescript: *The Use of Tracers and Gas Chromatography in Studying Catalytic Reactions*, P. H. Emmett, ca. 1981
- 18.6 Typescript, Graphs: *Fischer-Tropsch Synthesis on Iron Catalysts-Tracer and Mechanism Studies*, ca. 1981
- 18.7 Typescript, Notes, Correspondence: *Dehydrogenation - The First Step in the Cracking of Isopentane over Silica-Alumina Cracking Catalysts*, A. Brenner and P. H. Emmett, 1982
- 4.019 Manuscripts and Typescripts of Articles, 1983 ca. 1980s
- 19.1 Typescripts, Correspondence: *The Enlargement of the Micropores of a Caking Bituminous Coal by Controlled Oxidation*, Salvador Leon, Myrna Klotzkin, Gary Gard and Paul Emmett, 1983
- 19.2 Typescripts, Correspondence: *The Use of Controlled Oxidation to Increase the Surface Area of Coal as Measured by Nitrogen Adsorption at 77 K. Application to a Bituminous and a Semi-Anthracite Coal*, Maria Ludvig, Gary Gard and Paul Emmett, 1983
- 19.3 Typescript, Notes, Correspondence: *The Fixed Nitrogen Laboratory*, P. H. Emmett, ca. 1983
- 19.4 Typescript: *The Decomposition of Iso-Pentane and n-Pentane over Silica-Alumina Catalysts*, Robert L. Garten and P. H. Emmett, ca. 1980s
- 19.5 Typescript: *Fischer-Tropsch Synthesis on Iron Catalysts - Tracer and Mechanism Studies*, ca. 1980s
- 19.6 Typescript: No Title. [re: the development and popularity of the BET equation], ca. 1980s
- 4.020 Grant-Funded Contract Work, 1944-1955
- 20.1 Weekly Reports: Gulf Research and Development Company, 1944-1947
- 20.2 Weekly Reports: Gulf Research and Development Company, 1948-1951
- 20.3 Weekly Reports: Gulf Research and Development Company, 1952
- 20.4 Research Notebook, Notes, Memorandum re: Gulf catalysis research project, Mellon Institute, 1945-1955
- 4.021 Grant-Funded Contract Work, 1952-1955
- 21.1 Quarterly Reports: Gulf Research and Development Company, 1952-1954

- 21.2 Research Proposals and Progress Reports: "The Use of Tracers in Studying the Mechanisms of Catalytic Reactions," contract AT (11-1)-3273. P. H. Emmett, Principal Investigator, 1953
- 21.3 Weekly Reports: Gulf Research and Development Company, 1953-1955
- 4.022 Grant-Funded Contract Work, 1954-1965
- 22.1 Typescript: *A Study of Catalytic Cracking*, summary report by Paul H. Emmett. Gulf Research and Development Company, Industrial Fellowship 106-42, June 30, 1954
- 22.2 Typescript: *General Catalysis*, summary report by Paul H. Emmett. Gulf Research and Development Company, Industrial Fellowship 106-42, June 30, 1954
- 22.3 Typescript: *Fischer-Tropsch Synthesis*, summary report by Paul H. Emmett. Gulf Research and Development Company, Industrial Fellowship 106-42, June 30, 1954
- 22.4 Typescripts: catalysis-related summary reports, P. H. Emmett, et al. Gulf Research and Development Co. fellowship, December 31, 1954
- 22.5 Typescripts re: catalysis-related summary reports, P. H. Emmett. Gulf Research and Development Co. fellowship, June 30, 1955
- 22.6 Research Notes, Correspondence re: cracking catalysts, P. H. Emmett, et al. Gulf Research and Development Co. fellowship, 1955-1957
- 22.7 Research Proposal: *Catalytic Hydrogenation Over Metals - Importance of and Participation of Hydrogen as Ions on Catalyst Surfaces*, P. H. Emmett, Principal Investigator. Submitted to the Air Force Office of Scientific Research, March 1956
- 22.8 Progress Reports and Final Report re: "Catalytic Hydrogenation and Dehydrogenation over Metals and over Chromium Oxide," P. H. Emmett, et al. National Science Foundation grant, 1957-1965
- 22.9 Typescript, Correspondence: *Progress Report on Project Entitled "New Micro-catalytic Chromatographic Technique for Studying Catalytic Reactions"*. P. H. Emmett, principal investigator. Air Force contract 18(603)-129, May 16, 1958
- 22.10 Typescript: *Liquid Phase Hydrogenation of Nitrocompounds over Palladium, Rhodium, Platinum and Platinum Oxide Catalysts*, Hsien-Cheng Yao and P. H. Emmett. Annual report, National Science Foundation grant (NSF-G2753), 1958
- 22.11 Progress Reports, Correspondence re: "New Micro-catalytic Chromatographic Technique for Studying Catalytic Reactions" and "Catalytic Activity of Metal and Alloys," Air Force contract 18(603)-129, 1958-1962
- 22.12 Typescripts: *Catalytic Hydrogenation over Metals. Importance of and Participation of Hydrogen as Ions on Catalyst Surfaces*. National Science Foundation grant proposal, March 1959
- 4.023 Grant-Funded Contract Work, 1960-1966
- 23.1 Progress Reports, Correspondence re: "Studies of Supported and Unsupported Metal Catalysts." Air Force contract 18(603)-129, 1960-1966
- 23.2 Progress Reports re: "Catalytic Activity of Metals and Alloys," Air Force contract 18(603)-129, 1961-1962
- 23.3 Typescripts, Notes: *New Microcatalytic Chromatographic Technique for Studying Catalytic Reactions and Catalytic Activity of Metals*, P. H. Emmett, principal investigator. Air Force contract 18(603)-129, Final Report, 1962
- 23.4 Typescript: *Catalytic Hydrogenation over Metals. Importance of and Participation of Hydrogen as Ions on Catalyst Surfaces*. National Science Foundation grant proposal, 1962
- 23.5 Research Proposal, Notes re: "Catalytic Hydrogenation over Metals. Importance of and Participation of Hydrogen as Ions on Catalyst Surfaces." National Science Foundation grant, 1962
- 23.6 Research Proposal, Progress Report re: "Information Relative to the Nature of Catalyst Surfaces. The Use of Tracers in Studying the Mechanisms of Catalytic Reactions and in Obtaining Information Relative to the Nature of Catalyst Surfaces," P. H. Emmett, I. Toyoshima and J. W. Hightower. Contract AT (30-1)-2008, 1962
- 23.7 Report re: "The Catalytic Hydrogenation of Substituted Olefins on Platinum and Palladium Catalysts", P. H. Emmett and H. Schaefer. National Science Foundation grant (NSF-G9986), final report, September 1963
- 23.8 Typescript: *Research on Petroleum Research Fund, Grant 876-C*, P. H. Emmett, et al., October 1963
- 4.024 Grant-Funded Contract Work, 1964-1976
- 24.1 Progress Report: "The Use of Tracers in Studying the Mechanism of Catalytic Reactions and in Obtaining Information Relative to the Nature of Catalyst Surfaces," grant contract AT (30-1)-2008, 1964
- 24.2 Progress Report, Notes: "Catalytic Hydrogenation and Dehydrogenation over Metals and over Chromium Oxide," National Science Foundation grant (NSF-GP-754 and G-9986). Final report, July 1965

- 24.3 Proposal: "The Use of Tracers in Studying the Mechanisms of Catalytic Reactions and in Obtaining Information Relative to the Nature of Catalyst Surfaces," P. H. Emmett, chief investigator. Contract no. NYO-2008-1, 1966
- 24.4 Proposal: "Derivation of New Equations for Physical Adsorption; Calculation of Vapor-Liquid Equilibrium Data from Newly Modified Equations of State," P. H. Emmett, chief investigator. Contract no. NYO-2008, 1966
- 24.5 Progress Reports, Renewal Proposal, Correspondence re: "The Use of Tracers in Studying the Mechanism of Catalytic Reactions and in Obtaining Information Relative to the Nature of Catalyst Surfaces." P. H. Emmett, Principal Investigator. Contract no. NYO-2008-4, 1967-1974
- 24.6 Research Proposals, Progress Reports re: "The Use of Tracers in Studying the Mechanism of Catalytic Reactions and in Obtaining Information Relative to the Nature of Catalyst Surfaces." P. H. Emmett, Principal Investigator. Grant no. AT(30-1)-2008, 1968-1970
- 24.7 Report: "The Use of Iron as a Catalyst for Hydrogenation." Final report by P. H. Emmett, condensed from thesis by Mary Jane Phillips. American Chemical Society Petroleum Research Fund grant, Project 163-A, 1969
- 24.8 Final Report: *The Use of Tracers in Studying the Mechanism of Catalytic Reactions*, P. H. Emmett. Contract AT(11-1)-3273, 1971
- 24.9 Typescript, Notes, Correspondence: *The Influence of Pretreatment on the Surface Area and Pore Distribution of Coal; its Nature, Magnitude, and Possible Utility in Low Temperature Desulfurization, Beneficiation, Solvent Pyrolysis, and Clean up Processes*, P. H. Emmett, et al. ERDA grant proposal, ca. 1976
- 4.025 Grant-Funded Contract Work, 1977-1982
- 25.1 Proposal, Correspondence re: "Studies on Methods for Increasing the Surface Area and Optimizing the Pore Distribution of Coal," P. H. Emmett. Department of Energy grant proposal, 1977-1981
- 25.2 Proposal, Correspondence, Notes re: "A Study of the Changes in Internal Surface Area and Pore Size Distribution of Coals as a Function of Treatment with Various Reagents," Myrna Klotzin and P. H. Emmett. National Science Foundation grant proposal, 1979-1980
- 25.3 Proposal: "Studies of Methods for Increasing the Surface Area of Coals and Optimizing Their Pore Distributions," Gary L. Gard, P. H. Emmett. National Science Foundation grant proposal, 1980
- 25.4 Proposal: "Studies on Methods for Increasing the Surface Area and Optimizing the Pore Distribution of Coal," P. H. Emmett, Principal Investigator. Department of Energy grant proposal, 1980-1981
- 25.5 Proposal, Correspondence, Notes re: "The Study of the Physical and Chemical Structure of Coal by Reaction with Various Gaseous Molecules and Atoms and by Solvent Degradation," G. L. Gard, P. H. Emmett and W. W. Paudler. Gas Research Institute grant proposal, 1982
- 4.026 Research Notes: A,
- 26.1 Research Notes re: adsorption, P. H. Emmett and J. B. Gray, 1940
- 26.2 Research Notes re: adsorption, Robert C. Zabor and P. H. Emmett, 1948-1952
- 26.3 Research Notes, Graphs re: adsorption, etc. "Miscellaneous Adsorption, Decomposition and Surface Area," P. H. Emmett, et al., ca. 1960s
- 26.4 Research Notes re: adsorption calculations, 1958
- 26.5 Research Notes re: ammonia synthesis, 1931-1935
- 26.6 Research Notes, Correspondence re: aldehydes - catalytic preparation of, P. H. Emmett and M. Prettre, 1952
- 26.7 Research Notes re: aluminosilicate catalyst. "The Poisoning of an Aluminosilicate Catalyst by Steam," P. H. Emmett and R. G. Haldeman, 1954
- 26.8 Research Notes re: ammonia calculations, C. E. Melton and P. H. Emmett, ca. 1960s
- 4.027 Research Notes: B-Ca,
- 27.1 Research Notes, Correspondence re: B. E. T. equation, 1948 1966
- 27.2 Research Notes re: butadiene study, R. T. Davis and P. H. Emmett, 1944-1945
- 27.3 Research Notes re: catalysis, 1953-1954
- 27.4 Research Notes re: catalysis, Colin Stoddart and P. H. Emmett, 1960-1963
- 27.5 Research Notes re: catalysis, 1962-1967
- 27.6 Research Notes re: catalysis, H. Schaefer and P. H. Emmett, ca. 1960s
- 27.7 Research Notes: catalysis - problems and bibliography, 1923-1924

- 27.8 Research Notes re: catalysts - preparation techniques, by Charles E. O'Neill for P. H. Emmett. [includes Emmett notes], 1963
- 4.028 Research Notes: Ca-Co,
- 28.1 Research Notes, Correspondence re: catalytic cracking, L. G. Wayne and P. H. Emmett, 1945-1955
- 28.2 Research Notes re: catalytic cracking, W. A. Van Hook and P. H. Emmett, 1960-1969
- 28.3 Research Notes, Correspondence re: catalytic cracking, P. H. Emmett, et al., 1978
- 28.4 Research Notes re: catalytic hydrogenation. "Tables I," H. Schaefer and P. H. Emmett, ca. 1960s
- 28.5 Research Notes re: catalytic hydrogenation. "Tables II," H. Schaefer and P. H. Emmett, ca. 1960s
- 28.6 Research Notes re: chemisorption, P. H. Emmett. Cabot Research Fellowship, 1941-1947
- 28.7 Research Notes, Correspondence re: coal, P. H. Emmett, et al., 1961-1982
- 28.8 Research Notes re: coal pores, P. H. Emmett and Salvador Leon, 1979
- 4.029 Research Notes: D-G,
- 29.1 Research Notes re: dehydrogenation, 1954
- 29.2 Research Notes re: energies of activation, 1927
- 29.3 Research Notes re: equilibrium - graphite, 1933
- 29.4 Research Notes, Correspondence, Reprint re: equilibrium measurements. "Equilibrium Measurements in the System C-CH₄-H₁," by L. C. Browning and P. H. Emmett, *Journal of the American Chemical Society*. Vol. 73, No. 581, 1951-1967
- 29.5 Research Notes, Correspondence re: Fischer-Tropsch studies, porous surface studies and thermodynamics, 1943-1945
- 29.6 Research Notes, Memoranda re: Fischer-Tropsch synthesis, J. T. Kummer, W. B. Spencer and P. H. Emmett, 1946-1951
- 29.7 Research Notes re: Fischer-Tropsch synthesis, H. P. Leftin and P. H. Emmett, 1954-1955
- 29.8 Research Notes re: Fischer-Tropsch synthesis, Louis DeMourgues and P. H. Emmett, 1958
- 29.9 Research Notes, Correspondence, Non-Emmett Typescripts re: gas analysis, P. H. Emmett, et al., 1953
- 29.10 Correspondence, Reprints re: gas chromatography, P. H. Emmett, Fred Franke, et al., 1966-1967
- 4.030 Research Notes: H-Ki,
- 30.1 Research Data re: hydrocarbons. *Research Project 44: Collection, Analysis, and Calculation of Data on the Properties of Hydrocarbons*, Tables 00-7. American Petroleum Institute, June 30, 1945
- 30.2 Research Data re: hydrocarbons. *Research Project 44: Collection, Analysis and Calculation of Data on the Properties of Hydrocarbons*, Tables 8 - 25. American Petroleum Institute, December 31, 1945
- 30.3 Research Notes re: hydrocarbons and cracking catalysis, C. G. Delany and P. H. Emmett, 1952-1955
- 30.4 Graphs re: hydrogen consumption, ca. 1950s
- 30.5 Research Notes re: kinetics, Pal Fejes and P. H. Emmett, 1963-1965
- 30.6 Research Notes re: kinetics - analysis, 1927-1928
- 4.031 Research Notes: Ki-R,
- 31.1 Research Notes re: kinetics - equations, 1937-1941
- 31.2 Research Notes re: kinetics - homogeneous and heterogeneous, 1929-1931
- 31.3 Research Notes re: molybdenum preparation. "Reappraisal of Composition of Molybdenum Preparation," Leroy E. Alexander and P. H. Emmett, 1953
- 31.4 Research Notes re: nickel-copper alloy catalysts - preparation of, 1958
- 31.5 Research Notes: nickel tetracarbonyl. "Ni+4CO Ni(CO)₄," P. H. Emmett, 1953
- 31.6 Research Notes re: oxides - thermodynamic treatment of, 1930-1931
- 31.7 Research Notes re: oxides - reduction of by hydrogen, 1925-1929
- 31.8 Research Notes re: platinum, V. R. Helm and P. H. Emmett, 1963
- 31.9 Research Notes, Correspondence re: raney nickel, P. H. Emmett and P. G. Sevenster, 1961
- 31.10 Notes re: research plans and calibration calculations, P. H. Emmett, 1967-1968
- 4.032 Research Notes: S-X,
- 32.1 Correspondence, Reprint re: surface area measurements, P. H. Emmett, et al., 1956-1958
- 32.2 Research Notes re: surface areas and samples of iron catalysts. S. C. Smith with annotations by P. H. Emmett, 1949
- 32.3 Notes re: surface studies - research plans, ca. 1950s
- 32.4 Research Notes, Correspondence re: thermal diffusion, 1932
- 32.5 Notes re: tracer studies research proposal, W. A. Van Hook, P. H. Emmett, ca. 1950s

- 32.6 Research Notes: "Vapor Phase Chromatography Calibration," P. H. Emmett [?], 1960-1962
- 32.7 Assorted Graphs re: vapor pressure of N₂ versus temperature and other topics, P. H. Emmett, L. C. Browning and W. B. Spencer, 1941-1950 [Contents labeled as "Useful Curves" by Emmett.]
- 32.8 Research Notes re: xenon tetrafluoride calculations, P. H. Emmett and J. L. Wishlade, 1961-1962
- 4.033 Research Notebooks, 1922-1924 1936
- 33.1 Research Notebook: *California Institute of Technology Research Book No. 1*, 1922-1923
- 33.2 Research Notebook: *California Institute of Technology Research Book No. 2*, 1923
- 33.3 Research Notebook: *Book IV*. California Institute of Technology, 1923-1924
- 33.4 Research Notebook: *Book V*. California Institute of Technology, 1924
- 33.5 Research Notebook: *Preparation of Crystals*, ca. 1924
- 33.6 Research Notebook: *Statistical Mechanics*, 1936
- 4.034 Research Notebooks, 1956-1959
- 34.1 Research Notebook: *Review*, ca. 1956
- 34.2 Research Notebook: *Book V, Work on Platinum*, 1957
- 34.3 Research Notebook: *Reviews*, 1957
- 34.4 Research Notebook: *Surface Area Measurements on TiCl₂ Samples*, 1957
- 34.5 Research Notebook: *Book IX, Nickel Catalyst*, 1958
- 34.6 Research Notebook: *Book VII. Reviews*, 1958
- 34.7 Research Notebook: *Book XI. Hydroisomerization*, 1959
- 4.035 Research Notebooks, 1961-1968
- 35.1 Research Notebook re: hydrogenation, H. Schaefer and P. H. Emmett, 1961-1962
- 35.2 Research Notebook: *Research Oct. '61*, 1961-1966
- 35.3 Research Notebook: *Fischer-Tropsch - No. 6*, 1962
- 35.4 Research Notebook: No Title. [re: kinetics], 1963
- 35.5 Research Notebook: No Title. [re: cracking catalysts and cracking catalysis], 1968
- 4.036 Patents, 1956-1959
- 36.1 Patent: "Catalytic Conversion Process with the Use of a Base-Exchanged Silica-Alumina Catalyst." P. H. Emmett, patent no. 2,744,057, May 1, 1956
- 36.2 Patent: "Composite Materials and Processes for Making the Same." P. H. Emmett, patent no. 2,779,742, January 29, 1957
- 36.3 Patent: "Dual Function Catalysts." P. H. Emmett, patent no. 2,886,536, May 12, 1959
- 4.037 Assorted Scientific Figures, undated
- 4.038 Assorted Scientific Negatives, undated
- 4.039 Note Cards re: various research topics, 1925-1939
- 4.040 Note Cards re: various research topics, 1940-1949
- 4.041 Note Cards re: various research topics, 1950-1969
- 4.042 Annotated Computer Punch Cards re: various research topics, 1940-1969
- 4.043 Slide Sets Arranged by Paul Emmett, ca. 1960s
- 43.1 Slide Set: "I. Surface Area", ca. 1960s
- 43.2 Slide Set: "II. Ammonia Synthesis", ca. 1960s
- 43.3 Slide Set: "III. Tracer", ca. 1960s
- 43.4 Slide Set: "IV. Alloy Hybrids", ca. 1960s
- 43.5 Slide Set: "V. Fischer-Tropsch", ca. 1960s
- 43.6 Slide Set: "VI. Cracking", ca. 1960s
- 43.7 Slide Set: "VII. Cracking Tracer", ca. 1960s
- 4.044 Slide Set Arranged by Paul Emmett, ca. 1980s
- 44.1 Slide Set: "Cracking; NH₃", ca. 1980s
- 4.045 Slide Set Arranged by Paul Emmett, ca. 1970s

- 45.1 Slide Set: "Sulfur; Reform and Cracking; New Tools; Surface Area and Pore Size; Coal; NH₃", ca. 1970s
- 4.046 Glass Plates re: Ammonia Cracking, undated
- 4.047 Glass Plates re: Ammonia Synthesis, ca. 1960s
- 4.048 Glass Plates re: Catalysis on Metals, undated
- 4.049 Glass Plates re: Catalytic Cracking, ca. 1960s
- 4.050 Glass Plates re: Chromatography, undated
- 4.051 Glass Plates re: Fischer-Tropsch Synthesis; Hydrogenation, undated
- 4.052 Glass Plates re: Mossbauer Spectra; "New Tools", ca. 1960s
- 4.053 Glass Plates re: Surface Area and Pore Size, ca. 1950s
- 4.054 Glass Plates re: Olefins; P₄ Oxidation; Structure of Cr₂O₃, undated
- 4.055 Glass Plates re: Semiconductors; Theories of Catalysis, ca. 1960s
- 4.056 Glass Plates re: Assorted Data Samples, undated
- 4.057 Glass Plates re: Assorted Data Samples, undated
- 4.058 Glass Plates re: Assorted Data Samples, undated
- 4.059 Glass Plates re: Assorted Data Samples, undated
- 4.060 Glass Plates re: Assorted Data Samples, undated

Box**5. Speeches, Meetings and Travel, 1929-1985 undated (17 boxes)**

Series 5 consists primarily of manuscripts of speeches delivered by Emmett. To a lesser extent, his international travel and attendance of various meetings is also documented in this series.

- 5.001 Speeches, Meetings and Travel, 1929-1960
 - 1.1 Manuscript: *Study on the Mechanism of NH₃ Synthesis on Iron Catalysts*, P. H. Emmett lecture, Maryland Branch of the American Chemical Society, January 25, 1929
 - 1.2 Manuscript: Physics seminar on mechanics of ammonia synthesis by P. H. Emmett, February 19, 1930
 - 1.3 Manuscript: *Catalytic Synthesis of Ammonia*, P. H. Emmett lecture, Johns Hopkins University, July 15, 1932
 - 1.4 Manuscript: Seminar on the decomposition of N₂O by P. H. Emmett, January 13, 1933
 - 1.5 Manuscript: *Catalytic Synthesis of Ammonia*, P. H. Emmett lecture, Johns Hopkins University, July 25, 1933
 - 1.6 Manuscript: *Paper for Cincinnati Meeting*, P. H. Emmett lecture [re: industrial catalytic synthesis], ca. 1930s
 - 1.7 Manuscript: Seminar on developments in catalysis by P. H. Emmett, ca. 1930s
 - 1.8 Manuscript: *Research Laboratories in France and England - Scientific and General Observations*, P. H. Emmett lecture, October 13, 1950
 - 1.9 Typescript: *Science And Energy*, talk by P. H. Emmett broadcast on "The Open Door: Adult Education Series," WDUQ. Duquesne University, February 5, 1952
 - 1.10 Notes re: conference on nitric oxide, October 1952
 - 1.11 Agenda: meeting on proposed subjects for exploratory research in catalytic cracking. Harmarville, Pennsylvania, February 11, 1953
 - 1.12 Transcript: "Symposium on Catalysis." Notes by E. M. Loebel. Polytechnic Institute of Brooklyn, January 9, 1954
 - 1.13 Outline, Correspondence: *Catalysis*, series of talks by P. H. Emmett. George Fisher Baker Lectures, Cornell University, November 8 - December 15, 1955
 - 1.14 Typescript: *New Approaches to the Study of Catalysis*, lecture P. H. Emmett. Lecture series sponsored by the Rochester section of the American Chemical Society, December 5, 1957
 - 1.15 Abstracts, Correspondence, Program: Gordon Research Conference: Catalysis. P. H. Emmett, lecturer. Colby Junior College, New London, New Hampshire, June 29 - July 3, 1959
 - 1.16 Correspondence, Notes, Program: Second International Congress on Catalysis. P. H. Emmett, chairman. Paris, France, July 4-9, 1960
 - 1.17 Correspondence, Notes, Program: Gordon Research Conferences: Catalysis. P. H. Emmett, lecturer. Colby Junior College, New London, New Hampshire, August 22-26, 1960

- 1.18 Correspondence, Notes, Program: Heterogeneous Catalysis Symposium, meeting of the American Chemical Society. P. H. Emmett, session chair. New York, New York, September 14-15, 1960
- 5.002 Speeches, Meetings and Travel, 1961-1962
- 2.1 Correspondence, Notes, Program: 18th International Congress of Pure & Applied Chemistry, P. H. Emmett, chairman and speaker. Montreal, Canada, August 6-12, 1961
- 2.2 Correspondence, Notes, Program: Gordon Research Conferences: Catalysis, P. H. Emmett, lecturer. Colby Junior College, New London, New Hampshire, June 19-23, 1961
- 2.3 Abstract, Correspondence: *A Decade of Progress in Petroleum Technology*, talk by P. H. Emmett. Meeting of the American Chemical Society, Chicago, Illinois, September 1961
- 2.4 Abstract, Correspondence, Program, Figures: *Adsorption and Catalysis*, talk by P. H. Emmett. Fall Lecture Series on Solid State Chemistry. University of Rochester, November 30, 1961
- 2.5 Correspondence, Program, Group Photograph re: Gordon Research Conferences: Catalysis. Colby Junior College, New London, New Hampshire, June 18-22, 1962
- 2.6 Correspondence, Program: Conference on the Fundamentals of Heterogeneous Catalysis. American Chemical Society. Atlantic City, New Jersey, September 1962
- 2.7 Materials re: *Chemisorption and Catalysis*, lecture by P. H. Emmett. ASTM Fourth Pacific Area National Meeting, Los Angeles, California, September 5 - October 5, 1962
- 5.003 Speeches, Meetings and Travel, 1962-1963
- 3.1 Correspondence, Program, Proceedings: Conference on Surface Phenomena in Semiconductors, American Chemical Society meeting, Washington, D. C., March 26-29, 1962
- 3.2 Offprint, Program: *New Approaches to the Study of Catalysis*, lectures by P. H. Emmett. Thirty-sixth Annual Priestley Lectures. Penn State University, April 9-13, 1962
- 3.3 Correspondence, Program: *Recent Studies in the Use of Isotopes in Catalytic Research*, lecture by P. H. Emmett. Tenth Annual Symposium, Chicago Catalysis Club. Hinsdale, Illinois, May 13, 1963
- 3.4 Proceedings: 37th National Colloid Symposium, American Chemical Society. Carleton University, Ottawa, Canada, June 24-26, 1963
- 3.5 Correspondence, Notes, Program: Gordon Research Conferences: Catalysis, P. H. Emmett, Vice Chairman. Colby Junior College, New London, New Hampshire, July 1-5, 1963
- 3.6 Correspondence, Notes, Proceedings: Survey Conference on Heterogeneous Catalysis. National Academy of Sciences, Hershey, Pennsylvania, August 20-21, 1963
- 3.7 Correspondence, Program: Catalyst Symposium. American Chemical Society. New York City, NY. [Emmett canceled due to family illness], September 10-13, 1963
- 5.004 Speeches, Meetings and Travel, 1964
- 4.1 Typescripts, Correspondence, Program, Figures: *Tracer Studies with C14. The Formation and Behavior of Aromatics During the Cracking of n-Hexadecane Over a Silica-Alumina Catalyst*, P. H. Emmett, Chairman and Speaker. Third International Congress on Catalysis, Amsterdam, Holland, July 20-25, 1964
- 4.2 Typescript, Notes, Correspondence, Figures, Background Materials: *Physical Chemistry of Processes on Solid Surfaces - Adsorption, Tracers and Micro-catalytic-chromatographic Techniques*, lecture by P. H. Emmett. Conference on Physical Chemistry of Processes on Solid Surfaces, Madrid, Spain, October 19-24, 1964
- 5.005 Speeches, Meetings and Travel, 1965-1967
- 5.1 Correspondence, Flyer: Symposium on Catalysis held in honor of Paul Emmett, Catalysis Club of Metropolitan New York, March 19, 1965
- 5.2 Typescript, Correspondence, Program: *Absorption of Gases by Solids*, lecture by P. H. Emmett. National Science Foundation Conference on Colloid, Surface and Macromolecular Chemistry, Lehigh University, Bethlehem, Pennsylvania, July 7-22, 1965
- 5.3 Abstract, Correspondence: *Present Approaches to the Study of Catalysis*, lecture by P. H. Emmett. Stauffer Chemical, Co., Eastern Research Center, New York, September 9, 1965
- 5.4 Abstract, Correspondence: *Radioactive Tracers in Determining the Mechanism of Catalytic Reactions*, lecture by P. H. Emmett. Symposium on Kinetics, Gulf Research Center, Pittsburgh, Pennsylvania, November 4, 1965
- 5.5 Correspondence, Program: Chemical Engineers Symposium on Reaction and Adsorption Engineering, keynote address by P. H. Emmett. Carnegie Institute of Technology, November 5, 1965
- 5.6 Correspondence, Program: *Kinetics of Catalytic Cracking*, lecture by P. H. Emmett. Spring Symposium of the Pittsburgh Catalysis Club, April 28-29, 1966

- 5.7 Proceedings: 40th National Colloid Symposium: Journal of Colloid and Interface Science. University of Wisconsin, Madison, June 14-16, 1966
- 5.8 Correspondence, Program: Symposium on Mechanism of Heterogeneous Catalysis, including lecture by P. H. Emmett. Division of Petroleum Chemistry, American Chemical Society, September 12-16, 1966
- 5.9 Correspondence, Outline: *New Approaches to the Study of Contact Catalysis*, lecture by P. H. Emmett, University of Virginia, March 9, 1967
- 5.10 Correspondence, Program: Symposium on Magnetic and Magnetic Resonance Properties of Surfaces, P. H. Emmett, session chair. American Chemical Society meeting, Miami, Florida, April 12, 1967
- 5.11 Correspondence, Outline: *Catalysis*, lecture by P. H. Emmett. Maryland Section of the American Institute of Chemical Engineers, Baltimore, April 18, 1967
- 5.12 Correspondence: Meeting of the Catalysis Club of New England, P. H. Emmett, Speaker. Massachusetts Institute of Technology, May 5, 1967
- 5.13 Outline, Correspondence: *Catalysis, Then and Now*, lecture by P. H. Emmett. Phillips Lecture, University of Pittsburgh, May 24, 1967
- 5.14 Notes, Offprints re: visits to Rikagaku Kenkyusho Co. and the Institute of Physical and Chemical Research, Japan, June 28, 1967
- 5.15 Proceedings: 41st National Colloid Symposium, American Chemical Society. State University of New York at Buffalo, June 19-21, 1967
- 5.16 Program: International Symposium on Heterogeneous Catalysis. Roermond, Netherlands, July 3-6, 1967
- 5.17 Abstract, Correspondence, Notes, Program: Ipatieff Centenary meeting, P. H. Emmett, Speaker. Northwestern University, Evanston, Illinois, September 7, 1967
- 5.18 Correspondence: *Adsorption Theories and the Use of Isotopic Tracers in the Study of Surface Reactions*, lecture by P. H. Emmett. University of Wisconsin-Milwaukee, September 30, 1967
- 5.006 Speeches, Meetings and Travel, 1968
- 6.1 Proceedings: 42nd National Colloid Symposium. Illinois Institute of Technology Research, June 19-21, 1968
- 6.2 Correspondence, Program: Fourth Annual International Congress on Catalysis, Moscow, USSR. [Emmett declined invitation due to family health issues], June 23-29, 1968
- 6.3 Outlines: Lecture series on catalysis by P. H. Emmett. University of California, Santa Barbara, November 7 - December 16, 1968
- 6.4 Notes, Outline, Correspondence, Figures, Background Materials: *Catalysis - Its Past, Present and Future*, lecture by P. H. Emmett. First Meeting of the Division of Catalysis, New York Academy of Sciences, November 14, 1968
- 6.5 Correspondence, Outline, Program, Proceedings: First National Symposium on Heterogeneous Catalysis for Air Pollution. Includes lecture by P. H. Emmett. Philadelphia, Pennsylvania, November 21-22, 1968
- 5.007 Speeches, Meetings and Travel, 1968
- 7.1 Proceedings: *Fourth International Congress on Catalysis, Vol. 1*, compiled by J. W. Hightower, The Catalysis Society. Moscow, June 1968
- 7.2 Proceedings: *Fourth International Congress on Catalysis, Vol. 2*, compiled by J. W. Hightower, The Catalysis Society. Moscow, June 1968
- 7.3 Proceedings: *Fourth International Congress on Catalysis, Vol. 3*, compiled by J. W. Hightower, The Catalysis Society. Moscow, June 1968
- 7.4 Proceedings: *Fourth International Congress on Catalysis, Vol. 4*, compiled by J. W. Hightower, The Catalysis Society. Moscow, June 1968
- 5.008 Speeches, Meetings and Travel, 1969-1970
- 8.1 Correspondence, Program, Abstract: *The Exchange of H₂O¹⁸ with Oxygen of Promoters on the Surface of Iron Synthetic Ammonia Catalysts*, lecture by V. Solbakken, Å. Solbakken and P. H. Emmett. First North American Meeting of the Catalysis Society. Atlantic City, New Jersey, February 20, 1969
- 8.2 Correspondence: Kendall Award Symposium on Surfaces and Colloids, Division of Colloid & Surface. Minneapolis, Minnesota, April 15, 1969
- 8.3 Abstract, Correspondence, Program: *The Use of Radioactive Tracers in Catalytic Studies*, lecture by P. H. Emmett. Davison Research Laboratories Dedication, W.R. Grace & Co., Clarksville, Maryland, April 22, 1969
- 8.4 Outlines, Correspondence re: lectures delivered during Emmett's Visiting Professorship at University of Wisconsin-Milwaukee, April - May 1969

- 8.5 Abstract, Program: *Tracers and Catalysis*, P. H. Emmett Lecturer. Catalysis Club of Chicago Annual Symposium, Illinois Institute of Technology, May 19, 1969
- 8.6 Flyer: *Recent Research on the Ammonia Synthesis*, P. H. Emmett Lecturer. Special Seminars on Catalysis, McMaster University, June 4-5, 1969
- 8.7 Proceedings, Correspondence, Program: *The Catalytic Synthesis of Ammonia*, lecture by P. H. Emmett. Symposium on Nitrogen Fixation. W.R. Grace & Co., Clarksville, Maryland, June 10, 1969
- 8.8 Proceedings: *43rd National Colloid Symposium: Journal of Colloid and Interface Science*, American Chemical Society. Case Western Reserve University, Ohio, June 23-29, 1969
- 8.9 Offprint: *Catalytic Research in Japanese Universities*, report by P. H. Emmett prepared for W.R. Grace & Co., June 1969
- 8.10 Correspondence, Itinerary: visit to the Research Institute for Catalysis, Hokkaido University, Japan, June-July 1969
- 8.11 Correspondence re: P. H. Emmett's proposed Visiting Professorship, Multinational Project in Chemistry. Universidad de Chile and Argentina [Trip delayed due to sister's illness], 1969-1970
- 5.009 Speeches, Meetings and Travel, 1970-1972
- 9.1 Correspondence, Program: *Iron Synthetic Ammonia Catalysts and Reminiscences*, lecture by P. H. Emmett. Gordon Research Conferences on Catalysis. Colby Junior College, New London, New Hampshire, June 22-26, 1970
- 9.2 Outline: *Mechanism Studies on the Synthesis of Hydrocarbons Over Iron Catalysts and Reminiscences*, lecture by P. H. Emmett. Maryland Chemical Society Award, September 16, 1970
- 9.3 Abstracts: Second North American Meeting of the Catalysis Society, paper contribution by P. H. Emmett, presented by Y. Haung. Houston, Texas, February 24-26, 1971
- 9.4 Correspondence, Outlines re: Trondheim (Norway) University lecture series, P. H. Emmett, visiting scientist, May 6, 1971 [Lecture titles include *Studies on the Mechanism of the Catalytic Synthesis of Ammonia*, *The Use of Isotopic Tracers in Studying Catalytic Reactions*, *Catalytic Naphtha Reforming*, *Study of the Mechanism of Fischer-Tropsch Synthesis* and *The Catalytic Cracking of Hydrocarbons*.]
- 9.5 Correspondence, Outlines re: Washington State University lecture series, P. H. Emmett, May 17-19, 1971 [Lecture titles include *Physical and Chemical Adsorption in Catalytic Research*, *Studies on the Mechanism of the Catalytic Synthesis of Ammonia* and *The Use of Isotopic Tracers in Studying Catalytic Reactions*.]
- 9.6 Correspondence, Program, Group Photograph: Gordon Research Conferences: Catalysis. Colby Junior College, New London, New Hampshire, June 28 - July 2, 1971
- 9.7 Notes, Preprint, Program: *The Use of Isotopic Tracers in Studying Catalysts and Catalytic Reactions*, P. H. Emmett lecture. The U.S.A. - Japan Seminar on Catalytic Science. Honolulu, Hawaii, July 19-23, 1971
- 9.8 Correspondence, Background Materials re: International Conference on Solid Surfaces & the International Vacuum Congress. P. H. Emmett, Committee Member. Boston, Massachusetts, October 11-15, 1971
- 9.9 Outlines re: University of New South Wales and University of Sydney lectures series, P. H. Emmett, visiting scientist, October 26, 1971 May 22, 1972 [Lecture titles include *Physical and Chemical Adsorption in Catalytic Research*, *Studies on the Catalytic Synthesis of Ammonia*, *The Use of Isotopic Tracers in Studying Catalytic Reactions*, *Catalytic Hydrogenation over Metals and Alloys*, *The Catalytic Cracking of Hydrocarbons*.]
- 5.010 Speeches, Meetings and Travel, 1972-1973
- 10.1 Outline: *Catalytic Synthesis of Ammonia*, lecture by P. H. Emmett. Creative Invention Award Symposium, Boston, Massachusetts, April 11, 1972
- 10.2 Abstract, Correspondence, Program: *Catalytic Synthesis of Ammonia - Past, Present, Future*, lecture by P. H. Emmett. Twelfth Richard C. Tolman Award Symposium, American Chemical Society, April 19, 1972
- 10.3 Correspondence, Itinerary, Group Photograph: Gordon Research Conferences: Catalysis. Colby Junior College, New London, New Hampshire, June 16-16, 1972
- 10.4 Program: Fifth International Congress on Catalysis, P. H. Emmett, honorary chairman. The Catalysis Society of North America. Palm Beach, Florida, August 21-25, 1972
- 10.5 Typescript: *Memorial Service for Richard J. Kokes*, P. H. Emmett, speaker, 1972
- 10.6 Travel Itinerary for two month tour of United States and Europe, May 24 - July 21, 1973
- 10.7 Outlines, Correspondence re: French Catalytic Institute lecture series, P. H. Emmett. Villeurbanne, France, June 8, 1973 [Lecture titles include *Studies on the Catalytic Synthesis of Ammonia*, *The Use of Isotopic Tracers in Studying Catalytic Reactions*, *Catalytic Hydrogenation over Metals and Alloys*, *Study of the*

Mechanism of Fischer-Tropsch Synthesis of Hydrocarbons, The Catalytic Cracking of Hydrocarbons, Study of Secondary Reactions in Catalytic Cracking of Centane - Use of Carbon-14 Tracers and Catalytic Naphtha Reforming.]

- 10.8 Correspondence, Program: The Role of Catalysis in Problems of Pollution, Euchem Conference. Santander, Spain, July 1-6, 1973
- 10.9 Outline: Untitled seminar. [re: iron and platinum as adsorbents and catalysts] P. H. Emmett, lecturer. University of California, Berkeley, August 8, 1973
- 10.10 Typescript, Correspondence, Program: *Fifty Years of Progress in Surface Science*, P. H. Emmett, lecturer. International Summer Institute in Surface Science. University of Wisconsin-Milwaukee, August 27, 1973
- 10.11 Proceedings: Electric Power Research Institute Conference on Coal Catalysis, W. F. Libby Laboratories. Santa Monica, California, September 24-25, 1973
- 10.12 Outline, Correspondence: *Fifty Years of Progress in the Study of Synthetic Ammonia Catalysts*, P. H. Emmett Lecturer. California Catalysis Society, California Institute of Technology, November 2-3, 1973
- 10.13 Proceedings, Correspondence, Itinerary, Background Material: *The Future of Catalysis*, P. H. Emmett, lecturer. ARPA Workshop on the Needs of the Defense Department for Catalysis. Santa Monica, California, November 5-6, 1973
- 5.011 Speeches, Meetings and Travel, 1974
- 11.1 Program, Abstracts: Third North American Meeting of the Catalysis Society, P. H. Emmett chairman and concluding remarks. San Francisco, California, February 4-6, 1974
- 11.2 Correspondence, Program, Abstracts: Second International Conference On Solid Surfaces, P. H. Emmett, Chairman of Special Lectures. Kyoto, Japan, March 25-29, 1974
- 11.3 Typescript, Correspondence, Background Material: "*Position Statement*" for Workshop on "*Needs for Fundamental Research in Catalysis as Related to Energy.*" P. H. Emmett, lecturer. National Science Foundation workshop on Energy/Catalysis. Rice University, June 24-25, 1974
- 11.4 Correspondence, Background Material: Gordon Research Conferences: Catalysis. Colby Junior College, New London, New Hampshire, June 17-21, 1974
- 11.5 Typescript, Abstract, Correspondence, Program, Background Material: *Fifty Years Progress in the Study of the Catalytic Synthesis of Ammonia*, P. H. Emmett Lecture. Battelle Colloquium, Gstaad, Switzerland, September 2-6, 1974
- 5.012 Speeches, Meetings and Travel, 1974-1975
- 12.1 Correspondence, Program: Symposium on The Catalytic Chemistry of Nitrogen Oxides, Research Laboratories of General Motors, Warren, Michigan, October 7-8, 1974
- 12.2 Correspondence, Program: *The Use of Radioactive Carbon in Studying Catalytic Cracking of Hydrocarbons*, P. H. Emmett Speaker. First Chemical Congress of the North American Continent. Mexico City, Mexico, November 10-15, 1974
- 12.3 Outlines: Oak Ridge National Laboratory lectures on Coal Gasification, Liquefaction and Desulfurization. P. H. Emmett, lecturer, November 20-22, 1974 [Lecture titles include *Physical and Chemical Adsorption and Properties of Coal, Carbonization or Pyrolysis Solvent Refining, Coal Gasification to Form CO and H₂, Catalytic Processes Utilizing CO and H₂, Liquefaction of Coal and Sulfur Control by Hydrosulfurization, by Flue Gas Scrubbing and by Underground Gasification.*]
- 12.4 Abstracts: Fourth North American Meeting of the Catalysis Society. Toronto, Canada, February 17-19, 1975
- 12.5 Correspondence, Program: Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 16-20, 1975
- 12.6 Outlines, Correspondence: *Catalysis Fuel Processes*, lecture series by P. H. Emmett. Summer Session: ChE 269S. Stanford University, June 27 - August 22, 1975
- 12.7 Outlines: *Physical and Chemical Adsorption and Properties of Coal and Catalytic Processes Utilizing H₂ - CO; Also Catalytic Hydrodesulfurization*, P. H. Emmett lecture series. University of California, August 12, 1975
- 12.8 Outlines, Correspondence, Itinerary: "Lecture Tour Sponsored by the Japanese Society for the Promotion of Science: Physical and Chemical Adsorption with Applications to Cracking Catalysts, Moon Dust, Metal-nitrogen Systems, and Coal." Lectures by P. H. Emmett, Japan., October - November 1975
- 12.9 Abstract, Correspondence: *Catalytic Synthesis of Ammonia*, P. H. Emmett Lecture. Adsorption and Ion Exchange [AIChE] Meeting, American Chemical Society. Los Angeles, California, November 1975
- 5.013 Speeches, Meetings and Travel, 1976

- 13.1 Notes: *Ammonia Synthesis*, P. H. Emmett Lecture. University of Georgia, February 1976
- 13.2 Program, Abstracts: The California Catalysis Society, Spring Meeting. Berkeley, California, March 26-27, 1976
- 13.3 Outlines, Background Materials: *Catalysis*, P. H. Emmett lecture series. University of Pittsburgh, June 26-30, 1976
- 13.4 Correspondence, Program: Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 28 - July 2, 1976
- 13.5 Participant List, Group Photograph, Background Materials: Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 28 - July 2, 1976
- 13.6 Meeting Materials: Coal Technology Program, P. H. Emmett, advisory committee. Oak Ridge National Laboratory, Tennessee, July 8-9, 1976
- 13.7 Correspondence, Program, Proceedings: Sixth International Congress on Catalysis, P. H. Emmett, co-chair. Imperial College, London, July 12-16, 1976
- 13.8 Correspondence, Program, Background Materials: spillover workshop, Brussels, Belgium, July 18-19, 1976
- 13.9 Notes, Correspondence: *The Catalytic Synthesis of Ammonia - Retrospect and Prospect*, lecture by P. H. Emmett. American Chemical Society, Chicago Section, November 19, 1976
- 5.014 Speeches, Meetings and Travel, 1977
- 14.1 Program, Abstracts: The California Catalysis Society, Spring Meeting. Stanford Research Institute, California, March 31 - April 1, 1977
- 14.2 Program, Abstracts: Fifth North American Meeting of the Catalysis Society. Pittsburgh, Pennsylvania, April 24-28, 1977
- 14.3 Abstract, Correspondence, Program: *Solar Energy Utilization*, lecture by P. H. Emmett. Thirty-Second Northwest Regional Meeting, American Chemical Society. P. H. Emmett, Chairman. Portland State University, June 15-17, 1977
- 14.4 Typescript, Background Materials: *Fifty Years of Progress in the Study of the Catalytic Synthesis of Ammonia*. Symposium on Catalysis of Coal Conversion Processes, Montreal ACS-CIC Joint Meeting. Canada, June 19-22, 1977
- 14.5 Program, Background Materials: Third International Summer Institute in Surface Science, University of Wisconsin-Milwaukee, August 22-26, 1977
- 14.6 Meeting Materials: Coal Technology Program Advisory Committee Meeting. Oak Ridge National Laboratory, August 25-26, 1977
- 5.015 Speeches, Meetings and Travel, 1978
- 15.1 Correspondence, Program: 175th American Chemical Society National Meeting, Anaheim, California, March 12-17, 1978
- 15.2 Program: Conference on Catalyst Deactivation and Poisoning, Lawrence Berkeley Laboratory, University of California, May 24-26, 1978
- 15.3 Abstracts, Background Materials: 52nd Colloid and Surface Science Symposium, American Chemical Society. University of Tennessee, June 12-14, 1978
- 15.4 Program: Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 26-30, 1978
- 15.5 Registration Form: Scientific Bases for the Preparation of Heterogeneous Catalysts, Second International Symposium. Belgium, September 4-6, 1978
- 15.6 Preprints: *Symposia*, American Chemical Society, Division of Petroleum Chemistry. Miami, Florida, September 10-15, 1978
- 15.7 Registration Form: Conference on Catalysis on Zeolites, Hungarian Chemical Society, September 11-13, 1978
- 15.8 Correspondence, Group Photograph, Meeting Materials: Mt. Hood Interactive Planning Workshop. Portland, Oregon, October 15-17, 1978
- 15.9 Abstracts: Heterogeneous Catalysis Research Meeting. Germantown, Maryland, December 13-15, 1978
- 5.016 Speeches, Meetings and Travel, 1979-1981
- 16.1 Program: Sixth North American Meeting of the Catalysis Society, Chicago, Illinois, March 18-22, 1979
- 16.2 Program, Correspondence: Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 25-29, 1979
- 16.3 Program, Background Materials: Conference on Chemistry and Chemical Engineering of Catalytic Processes. Noordwijk, Netherlands, August 19-31, 1979

- 16.4 Program, Abstracts: "Advances in Catalytic Chemistry I: A Symposium in Honor of Alex G. Oblad." Snowbird, Utah, October 3-5, 1979
- 16.5 Program: International Symposium: New Horizons in Hydrocarbon Chemistry. University of Southern California, December 10-11, 1979
- 16.6 Typescript: *Professor Emmett's Speech*. [Biographical talk in which Emmett discusses his early work from high school through his retirement from Johns Hopkins University], ca. 1970s
- 16.7 Outline: *Twenty Minute Talk on the Occasion of the Pioneering Chemist Award*, P. H. Emmett lecture. Washington, D. C., May 10, 1980
- 16.8 Program, Abstracts: Nineteenth Annual Spring Symposium of the Pittsburgh Catalysis Society. Monroeville, Pennsylvania, May 28-30, 1980
- 16.9 Program: First International Gas Research Conference, Chicago, Illinois, June 9-12, 1980
- 16.10 Program, Correspondence, Background Materials: Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 23-27, 1980
- 16.11 Abstracts, Program, Participant List, Background Materials: First Berkeley Catalysis and Surface Science Conference. Lawrence Berkeley Laboratory, University of California, July 16-18, 1980
- 16.12 Outline, Correspondence: *Very Small Particles - Less than 1000 Millionth of an Inch: Studying the Surfaces of Finely Divided and Porous Materials*, P. H. Emmett Lecture. In-Service Day Science Conference for Elementary Teachers, Portland, Oregon, October 10, 1980
- 16.13 Program: International Symposium: Catalyst Deactivation. Antwerp, Belgium, October 13-15, 1980
- 16.14 Abstracts, Program, Participant List: "The Analysis and Characterization of Surfaces and Interfaces," Twenty-fourth Industrial Affiliates Symposium. Stanford University, October 20-21, 1980
- 16.15 Call for Papers: Material Research Society Annual Meeting. Boston, Massachusetts, November 16-21, 1980
- 16.16 Call for Papers: "Molecular Aspects of Catalysis and Metal Assisted Chemistry," Fourth Biennial Carl S. Marvel Symposium. University of Arizona, March 16-17, 1981
- 16.17 Abstract, Correspondence: *Studies of Fischer-Tropsch Synthesis in Iron Catalysts*, P. H. Emmett lecture. California Catalysis Society symposium in honor of Paul Emmett, SRI International, Menlo Park, California, March 26-27, 1981
- 16.18 Outline, Correspondence: biographical lecture by P. H. Emmett. Science Club, Astoria High School, Oregon, April 28, 1981
- 16.19 Typescript, Outline: *A Lifetime of Effort in Catalytic Research*, P. H. Emmett Sigma Xi lecture. Location Unknown, May 5, 1981
- 16.20 Program: Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 22-26, 1981
- 16.21 Program: The California Catalysis Society, Annual Fall Meeting. La Jolla, California, September 24-25, 1981
- 16.22 Abstracts: The Catalysis Society, Seventh North American Meeting. Boston, Massachusetts, October 11-15, 1981
- 16.23 Flyer: The Robert A. Welch Foundation Conferences on Chemical Research XXV. Heterogeneous Catalysis. Houston, Texas, November 9-11, 1981
- 5.017 Speeches, Meetings and Travel, 1982-1985
- 17.1 Proceedings: "Advances in Catalytic Chemistry II: A Symposium in Honor of Heinz Heinemann," Salt Lake City, Utah, May 18-21, 1982
- 17.2 Proceedings: Second GRI Gas Separations Workshop, Gas Research Institute, Boulder, Colorado, October 21-22, 1982
- 17.3 Abstracts: Eighth North American Meeting, The Catalysis Society, Philadelphia, Pennsylvania, May 1-4, 1983
- 17.4 Outline, Notes, Group Photograph: *Paul H. Emmett: His Life Work, Students, Research Assistants and Senior Scientists*, P. H. Emmett lecture, Gordon Research Conference: Catalysis. Colby-Sawyer College, New London, New Hampshire, June 27 - July 1, 1983
- 17.5 Program: Sixth International Zeolite Conference. Reno, Nevada, July 10-15, 1983
- 17.6 Participants List: Conference on Relations Between Homogeneous and Heterogeneous Catalysis, Pacific Grove, California, October 2-5, 1983
- 17.7 Correspondence, Itinerary: 1984 Emmett Lectures in Catalysis. Laboratory of Coal Science, Synthetic Fuels and Catalysis, University of Utah, January 8-14, 1984
- 17.8 Assorted symposia brochures, 1982-1985

Box

6. Publications by Paul Emmett, 1924-1984 undated (22 boxes)

Reprints of Emmett's journal publications have been collected into Series 6. Over the course of his career, Emmett authored more than 150 scientific papers.

6.001 Emmett Publications: 1924-1930, 1924-1930

- 1.1 The Reduction of Nickelous and Ferric Oxides by Hydrogen. *J. Am. Chem. Soc.* 46 (December 1924): 2728-2737. [Arthur F. Benton and Paul H. Emmett]., December 1924
- 1.2 The Crystal Structure of Barite. *J. Am. Chem. Soc.* 47 (April 1925): 1026-1030. [Linus Pauling and Paul H. Emmett]., April 1925
- 1.3 Catalytic Synthesis of Water Vapor in Contact with Metallic Nickel. *J. Am. Chem. Soc.* 48 (March 1926): 632-640. [Arthur F. Benton and Paul H. Emmett]., March 1926
- 1.4 A Resume of the Factors Influencing the Rate of the Gaseous Reduction of Metallic Oxides. *Trans. Am. Electrochemical Soc.* 51 (April 1927): 207-215., April 1927
- 1.5 Equilibrium in the System CO-H₂O-CoO-H₂. Free Energy Changes for the Reaction CoO+H₂ = Co+H₂O and the Reaction Co+½O₂ = CoO. *J. Am. Chem. Soc.* 51 (November 1929): 3249-3262. [P. H. Emmett and J. F. Shultz]., November 1929
- 1.6 A Comparison of Catalytic and Chemical Characteristics of Cubic and Rhombohedral Fe₂O₃. *J. Phys. Chem.* 34 (January 1930): 41-62. [P. H. Emmett and Katharine S. Love]., January 1930
- 1.7 The Dissociation Pressure of Fe₄N. *J. Am. Chem. Soc.* 52 (April 1930): 1456-1464. [P. H. Emmett, S. B. Hendricks and Stephen Brunauer]., April 1930
- 1.8 The Effect of X-Radiation on a Platinum Catalyst in the Synthesis of Water. *J. Phys. Chem.* 34 (May 1930): 1102-1104. [P. H. Emmett and E. J. Jones]., May 1930
- 1.9 Equilibrium in the System Co-CO₂-CoO-CO. Indirect Calculation of the Water Gas Equilibrium Constant. *J. Am. Chem. Soc.* 52 (May 1930): 1782-1793. [P. H. Emmett and J. F. Shultz]., May 1930
- 1.10 The Poisoning Action of Water Vapor at High Pressure on Iron Synthetic Ammonia Catalysts. *J. Phys. Chem.* 52 (July 1930): 2682-2693. [P. H. Emmett and Stephen Brunauer]., July 1930
- 1.11 Equilibria in the Fe-H-O System. Indirect Calculation of the Water Gas Equilibrium Constant. *J. Am. Chem. Soc.* 52 (November 1930): 4268-4285. [P. H. Emmett and J. F. Shultz]., November 1930
- 1.12 Studies on the Mechanism of Ammonia Synthesis over Iron Catalysts. *J. Chem. Ed.* 7 (November 1930): 2571-2583, November 1930

6.002 Emmett Publications: 1931-1945, 1931-1945

- 2.1 Poisoning of Platinum Catalysts for Oxidation of Ammonia. *Industrial and Engineering Chemistry.* 23 (October 1931): 1090-1096. [J. Y. Yee and P. H. Emmett]., October 1931
- 2.2 The Conversion of Para Hydrogen to Ortho Hydrogen over Iron Synthetic Ammonia Catalysis. *J. Am. Chem. Soc.* 54 (January 1932): 403-404. [P. H. Emmett and R. W. Harkness]., January 1932
- 2.3 The Catalytic Decomposition of Azomethane, Sym.-Dimethylhydrazine, and Monomethylamine: The Thermal Decomposition of Sym-Dimethylhydrazine. *J. Am. Chem. Soc.* 54 (February 1932): 538-548. [P. H. Emmett and R. W. Harkness]., February 1932
- 2.4 Repetition of Experiments Reported by James Woodhouse in 1808 Relative to the Production of Ammonia. *J. Chem. Ed.* 9 (October 1932): 1748-1750. [Katharine S. Love and P. H. Emmett]., October 1932
- 2.5 Influence of Gaseous Thermal Diffusion on Equilibrium Measurements on the Fe-O-H System. *J. Am. Chem. Soc.* 54 (1932): 3780-3781. [P. H. Emmett and J. F. Shultz]., 1932
- 2.6 Equilibrium in the System SnO₂-H₂-Sn-H₂O. Indirect Calculation of the Values of the Water Gas Equilibrium Constants. *J. Am. Chem. Soc.* 55 (April 1933): 1390-1395. [P. H. Emmett and J. F. Shultz]., April 1933
- 2.7 Gaseous Thermal Diffusion - The Principle Cause of Discrepancies among Equilibrium Measurements on the Systems Fe₃O₄-H₂-Fe-H₂O, Fe₃O₄-H₂-FeO-H₂O and FeO-H₂-Fe-H₂O. *J. Am. Chem. Soc.* 55 (April 1933): 1376-1389. [P. H. Emmett and J. F. Shultz]., April 1933
- 2.8 The Adsorption of Nitrogen by Iron Synthetic Ammonia Catalysts. *J. Am. Chem. Soc.* 55 (April 1933): 1738. [P. H. Emmett and Stephen Brunauer]., April 1933
- 2.9 Conversion of Ortho to Para Hydrogen over Promoted Iron Synthetic Ammonia Catalysts at -190°. *J. Am. Chem. Soc.* 55 (August 1933): 3496-3497. [R. W. Harkness and P. H. Emmett]., August 1933

- 2.10 The Reduction by Hydrogen and the Thermal Decomposition of Nitrides Made by the Reaction of Ammonia with Various Promoted and Unpromoted Iron Synthetic Ammonia Catalysts. *J. Am. Chem. Soc.* 55 (October 1933): 4043-4050. [P. H. Emmett and Katharine S. Love]., October 1933
- 2.11 Two Types of Activated Adsorption of Hydrogen on the Surface of a Promoted Iron Synthetic Ammonia Catalyst. *J. Am. Chem. Soc.* 56 (1934): 490-491. [R. W. Harkness and P. H. Emmett]., 1934
- 2.12 Adsorption of Hydrogen by Iron Synthetic Ammonia Catalysts. *J. Am. Chem. Soc.* 57 (September 1935): 1631-1635. [P. H. Emmett and R. W. Harkness]., September 1935
- 2.13 The Catalytic Interconversion of Ortho-Para Hydrogen over Iron, Platinum and Nickel Catalysts. *J. Am. Chem. Soc.* 57 (September 1935): 1624-1631. [P. H. Emmett and R. W. Harkness]., September 1935
- 2.14 The Application of Polanyi's Potential Theory to the Van Der Waals Adsorption of Gases on Iron Synthetic Ammonia Catalysts. *J. Am. Chem. Soc.* 57 (1935): 2732. [P. H. Emmett and Stephen Brunauer]., 1935
- 2.15 Accumulation of Alkali Promoters on Surface of Iron Synthetic Ammonia Catalysts. P. H. Emmett and S. Brunauer, *Journal of the American Chemical Society* 59 (February 1937): 310-315. [P. H. Emmett and S. Brunauer]., February 1937
- 2.16 The Use of Low Temperature van der Waals Adsorption Isotherms in Determining the Surface Area of Iron Synthetic Ammonia Catalysts. P. H. Emmett and S. Brunauer, Bureau of Chemistry and Soils, 59 (August 1937): 1553-1564. [P. H. Emmett and S. Brunauer]., August 1937
- 2.17 The Measurement of Surface Areas of Soils and Soil Colloids by the Use of Low Temperature Van der Waals Adsorption Isotherms. *Soil Science* 45 (January 1938): 57-65. [P. H. Emmett, S. Brunauer and K. S. Love]., January 1938
- 2.18 Adsorption of Gases in Multimolecular Layers. P. H. Emmett, S. Brunauer and E. Teller, Bureau of Chemistry and Soils, 60 (February 1938): 309-319. [Stephen Brunauer, P. H. Emmett, and Edward Teller]., February 1938
- 2.19 Chemisorption of Gases on Iron Synthetic Ammonia Catalysts. P. H. Emmett and S. Brunauer, U. S. Dept of Agriculture, 62 (July 1940): 1732-1746. [Stephen Brunauer and P. H. Emmett]., July 1940
- 2.20 Book Review by Emmett. Catalysis - Inorganic and Organic by S. Beckman. *J. Phys. Chem.* 45 (December 1941): 1417-1418., December 1941
- 2.21 New Methods for Particle Size Determination in the Subsieve Range. *ASTM* 41 (1941): 95-106., 1941
- 2.22 Book Review by Emmett. The Separation of Gases by M. Ruhemann. *J. Phys. Chem.* 46 (April 1942): 527-528., April 1942
- 2.23 Kinetics of Ammonia Synthesis. *Industrial and Engineering Chemistry*. 35 (June 1943): 677-683. [P. H. Emmett and J. T. Kummer]., June 1943
- 2.24 The Low Temperature Adsorption of Nitrogen, Oxygen, Argon, Hydrogen, n-Butane and Carbon Dioxide on Porous Glass and on Partially Dehydrated Chabazite. *J. Am. Chem. Soc.* 65 (July 1943): 1253-1262. [P. H. Emmett and Thomas W. DeWitt]., July 1943
- 2.25 Hydrogenation of Ethylene, Propylene and 2-Butene on Iron Catalysts. *J. Am. Chem. Soc.* 66 (August 1944): 1338-1343. [P. H. Emmett and Joseph B. Gray]., August 1944
- 2.26 The Adsorption of Water Vapor on Carbon Black. *J. Am. Chem. Soc.* 67 (September 1945): 1492-1494. [P. H. Emmett and R. B. Anderson]., September 1945
- 6.003 Emmett Publications: 1946-1947, 1946-1947
- 3.1 Progress in Contact Catalysis in 1945. *Record of Chemical Progress*. 7 (January - April 1946): 41-50., January - April 1946
- 3.2 Adsorption of Hydrogen and Nitrogen on Chromium Oxide Gel. *J. Am. Chem. Soc.* 68 (1946): 2535-2536. [P. H. Emmett and Martin Cines]., 1946
- 3.3 Adsorption of Argon, Nitrogen, and Butane on Porous Glass. *J. Physical and Colloid Chem.* 51 (November 1947): 1248-1262. [P. H. Emmett and Martin Cines]., November 1947
- 3.4 Alteration of the Size and Distribution of the Pores in Charcoal. *J. Physical and Colloid Chemistry*. 51 (November 1947): 1276-1307. [James Holmes and P. H. Emmett]., November 1947
- 3.5 Investigation of Low-Temperature N₂ Adsorption at High Relative Pressures. *J. Phys. Colloid Chem.* 51 (November 1947): 1262-1275. [James Holmes and P. H. Emmett]., November 1947
- 3.6 Surface Area Measurements on Metal Spheres and on Carbon Blacks. *J. Physical and Colloid Chemistry*. 51 (November 1947): 1329-1341. [P. H. Emmett and Martin Cines]., November 1947

- 3.7 Surface Complexes on Charcoal: Gas Evolution as a Function of Vapor Adsorption and of High-Temperature Evacuation. *J. Physical and Colloid Chemistry*. 51 (November 1947): 1308-1329. [Robert B. Anderson and P. H. Emmett], November 1947
- 6.004 Emmett Publications: 1948-1950, 1948-1950
- 4.1 The Adsorption of Butane on Glass Spheres. *J. Am. Chem. Soc.* 70 (March 1948): 1135-1141. [R. T. Davis and T. W. DeWitt], March 1948
- 4.2 Measurement of Carbon Black Particles by the Electron Microscope and Low Temperature Nitrogen Adsorption Isotherms. *J. App. Phys.* 19 (April 1948): 367-373. [R. B. Anderson and P. H. Emmett], April 1948
- 4.3 Differential Heats of Adsorption and Desorption of Nitrogen on Porous Glass. *J. Am. Chem. Soc.* 70 (July 1948): 2359-2361. [L. G. Joyner and P. H. Emmett], July 1948
- 4.4 Differential Heats of Adsorption of Nitrogen on Carbon Blacks. *J. Am. Chem. Soc.* 70 (July 1948): 2353-2359. [L. G. Joyner and P. H. Emmett], July 1948
- 4.5 Adsorption and Pore-Size Measurements on Charcoals and Whetlerites. *Chemical Reviews*. 43 (August 1948): 69-148., August 1948
- 4.6 Some Mechanism Studies on the Fischer-Tropsch Synthesis Using C14. *J. Am. Chem. Soc.* 70 (November 1948): 3632-3643. [J. T. Kummer, T. W. DeWitt and P. H. Emmett], November 1948
- 4.7 The Use of C14, N15 and Deuterium in Studying Catalytic Reactions and Adsorption Processes on Iron Catalysts, *Brookhaven Conference Report: Isotopic Exchange Reactions & Chemical Kinetics*, Chemistry Conference #2. (December 1948): 1-26. [J. T. Kummer and P. H. Emmett], December 1948
- 4.8 Surface Area Measurements: A New Tool for Studying Contact Catalysts, *Advances in Catalysis*, vol. 1 (1948): 65-90, 1948
- 4.9 Thermodynamic Calculations Concerning the Possible Participation of the Carbides of Iron as Intermediate in Fischer-Tropsch Synthesis. *J. Chem. Phys.* 16 (1948): 739-740. [J. T. Kummer, L. C. Browning, and P. H. Emmett], 1948
- 4.10 Adsorption Studies. Physical Adsorption of Nitrogen, Toluene, Benzene, Ethyl Iodide, Hydrogen Sulfide, Water Vapor, Carbon Disulfide, and Pentane on Various Porous and Non-Porous Solids. *J. Phys. Colloid Chem.* 53 (June 1949): 811-825. [B. L. Harris and P. H. Emmett], June 1949
- 4.11 Equilibria in the Systems Fe₂C-Fe-CH₄-H₂ and Fe₃C-Fe-CH₄-H₂. *J. Am. Chem. Soc.* 72 (September 1950): 4211-4217. [L. C. Browning, T. W. DeWitt, and P. H. Emmett], September 1950
- 4.12 Catalytic Butene Isomerization Chemical Engineering Kinetics of Double Bond Migration. *Industrial and Engineering Chemistry*. 41 (December 1949): 2809-2814. [Russell G. Hay, James Coull, and Paul H. Emmett], December 1949
- 4.13 Preparation, Stability and Adsorptive Properties of the Carbides of Iron. *J. Am. Chem. Soc.* 72 (December 1950): 5382-5388. [H. H. Podgurski, J. T. Kummer, T. W. DeWitt and P. H. Emmett], December 1950
- 4.14 Physical and Chemical Adsorption Studies on Catalysts. *Journal Chimie Physique*. 47 (1950): 67-73. [P. H. Emmett and J. T. Kummer], 1950
- 6.005 Emmett Publications: 1951-1952, 1951-1952
- 5.1 Equilibrium Measurements in the System C-CH₄-H₂. *J. Am. Chem. Soc.* 73 (February 1951): 581-583. [L. C. Browning and P. H. Emmett], February 1951
- 5.2 Mechanism Studies of the Fischer-Tropsch Synthesis. The Addition of Radioactive Alcohol. *J. Am. Chem. Soc.* 73 (February 1951): 564-569. [J. T. Kummer, H. H. Podgurski, W. B. Spencer and P. H. Emmett], February 1951
- 5.3 Exchange between N₂₃₀ and N₂₂₈ over Iron Catalysts. *J. Chem. Phys.* 19 (March 1951): 289-292. [J. T. Kummer and P. H. Emmett], March 1951
- 5.4 A Study of the Amount of Hydrogen Left on the Surface of a Reduced and Evacuated Iron Synthetic Ammonia Catalyst. *J. Phys. and Colloid Chem.* 53 (March 1951): 337-346. [J. T. Kummer and P. H. Emmett], March 1951
- 5.5 Chemisorption of Carbon Monoxide and the Heterogeneity of the Surface of Iron Catalysts. *J. Am. Chem. Soc.* 73 (June 1951): 2886-2889. [J. T. Kummer and P. H. Emmett], June 1951
- 5.6 Radioisotopes. *Oil and Gas Journal*. (September 1951): 1-5., September 1951
- 5.7 The Adsorption of Normal Paraffins on Cracking Catalysts. *J. Am. Chem. Soc.* 73 (December 1951): 5639-5643. [Robert C. Zabor and Paul H. Emmett], December 1951

- 5.8 Calculation of Thermodynamic Functions Of Adsorbed Molecules from Adsorption Isotherm Measurements: Nitrogen on Graphon. *J. Am. Chem. Soc.* 73 (1951): 5102-5107. [Terrell L. Hill, P. H. Emmett and L. G. Joyner], 1951
- 5.9 Errata. Calculation of Thermodynamic Functions of Adsorbed Molecules from Adsorption Isotherm Measurements: Nitrogen on Graphon. *J. Am. Chem. Soc.* 73 (1951): 5933. [Terrell L. Hill, P. H. Emmett and L. G. Joyner], 1951
- 5.10 Contact Catalysis and Surface Chemistry. *Annual Review of Phys. Chem.* 2 (1951): 287-308., 1951
- 5.11 Mechanism Studies On Fischer-Tropsch Synthesis. Third World Petroleum Congress, Proceedings: Section IV: Oil Processes Involving Chemical Conversions. (1951): 15-24. [P. H. Emmett and J. T. Kummer], 1951
- 5.12 Equilibrium measurements in the Ni₃C-Ni-CH₄-H₂ and Co₂C-Co-CH₄-H₂ Systems. *J. Am. Chem. Soc.* 74 (April 1952): 1680-1682. [L. C. Browning and P. H. Emmett], April 1952
- 5.13 Equilibrium Measurements in the Mo-C-H System. *J. Am. Chem. Soc.* 74 (1952): 4773-4774. [L. C. Browning and P. H. Emmett], 1952
- 5.14 Hydrogen Exchange Reactions over Iron Synthetic Ammonia Catalysts at -195°. *J. Phys. Chem.* 56 (1952): 258-261 [J. T. Kummer and P. H. Emmett], 1952
- 6.006 Emmett Publications: 1952-1955, 1952-1955
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- 19.1 Bound Collection of Emmett Reprints. "Articles published by Paul H. Emmett and co-workers. Book #1, Numbers 1 thru 50"
- 6.020 Emmett Publications: Bound Collection
- 20.1 Bound Collection of Emmett Reprints. "Articles published by Paul H. Emmett and co-workers. Book #2, Numbers 51 thru 100"
- 6.021 Emmett Publications: Bound Collection
- 21.1 Bound Collection of Emmett Reprints. "Articles published by Paul H. Emmett and co-workers. Book #3, Numbers 101 thru 150"
- 6.022 Emmett Publications: Bound Collection
- 22.1 Bound Collection of Emmett Reprints: "Reprints by Paul H. Emmett: (1924-1947)", 1924-1947
- 22.2 Bound Collection of Emmett Reprints: "Selected Papers: Absorption, Fe Catalysts, NH₃Synthesis, Fischer-Tropsch Catalysis"

Box**7. Non-Emmett Reprints, 1918-1987 undated (68 boxes)**

Emmett's large collection of scientific reprints, offprints and other publications has been organized into Series 7. Materials are organized alphabetically either by author or by subject, as appropriate.

- 7.001 Authors: Alm - Ast, 1926 1954-1983 undated
- 1.1 Almquist, J. A., 1926

- 1.2 Amenomiya, Y., 1963-1973
- 1.3 Anderson, J. R., 1961-1963
- 1.4 Anderson, R.B., 1969-1983
- 1.5 Aston, J. G., undated
- 1.6 Assorted Authors, A, 1954-1979
- 7.002 Authors: Assorted A, 1974-1987
- 2.1 Assorted Bound Authors, A, 1974-1987
- 7.003 Subjects: Aca - Amm, 1927-1982
- 3.1 Academic Industrial Research, 1972
- 3.2 Acetylene, 1972
- 3.3 Acidity, 1963-1974
- 3.4 Adsorption, 1928-1980
- 3.5 Adsorption - Ellipsometer, 1973-1974
- 3.6 Air Force, 1958-1964
- 3.7 Alloys, 1 of 2, 1967-1972
- 3.8 Alloys, 2 of 2, 1961-1979
- 3.9 Ammonia Synthesis, 1 of 2., 1943-1982
- 3.10 Ammonia Synthesis, 2 of 2., 1927-1982
- 7.004 Subjects: Ano - Aut, 1946-1985 undated
- Folder**
- 4.1 Anomalous Water, 1946-1969
- 4.2 Apparatus-Cryosorption Pumping, undated
- 4.3 Aromatization, 1970
- 4.4 Atomic Energy, 1961-1975
- 4.5 Automotive Emissions, 1 of 2., 1964-1980
- 4.6 Automotive Emissions, 2 of 2., 1971-1985
- 7.005 Authors: Bak-Boc, 1926-1981 undated
- 5.1 Baker, R. T. K., 1964-1980
- 5.2 Balandin, A. A., 1956-1963
- 5.3 Barrer, R. M., 1937-1969
- 5.4 Bartholomew, C. H., 1977-1978
- 5.5 Bartlett, E. P., 1928-1930
- 5.6 Barton, H. A., 1926
- 5.7 Beebe, R. A., 1935-1964
- 5.8 Beeck, O. A., 1947
- 5.9 Bell, A. T., 1976-1981
- 5.10 Bénard, J., 1949-1964
- 5.11 Bennett, C. O., undated
- 5.12 Benton, A. F., 1926-1934
- 5.13 Berlin, E., 1963-1964
- 5.14 Bhattacharyya, S. K., undated
- 5.15 Block, J., 1968-1973
- 5.16 Blyholder, George, 1960-1971
- 5.17 Bockris, J. O'M, 1971
- 7.006 Authors: Bou - Bur, 1920-1983
- 6.1 Boudart, M., 1961-1983
- 6.2 Brewer, A. K., 1929-1939
- 6.3 Brey, Wallace S., 1964
- 6.4 Brill, R., 1965-1970
- 6.5 Burwell, R. L. Jr., 1955-1963
- 6.6 Assorted Authors, Bar-Bor, 1962-1976
- 6.7 Assorted Authors, Bou-Bur, 1920-1983
- 7.007 Subjects: B, 1958-1972 undated
- 7.1 B. E. T. Theory, 1958-1963

- 7.2 Birth Control Agents, 1969
- 7.3 Biochemistry, undated
- 7.4 Boron, 1961-1972
- 7.5 Brookhaven National Laboratory, 1963
- 7.008 Authors: C, 1929-1976
- 8.1 Carberry, James J., 1962-1973
- 8.2 Cartledge, G. H., 1968
- 8.3 Christopher, G. L. M., 1968
- 8.4 Ciapetta, F. G., 1953-1971
- 8.5 Clark, Alfred, 1962
- 8.6 Corcoran, William H., 1941-1969
- 8.7 Csicsery, Sigmund M., 1967-1972
- 8.8 Assorted Authors, C, 1929-1976
- 8.9 Assorted Authors, C [Bound], 1949-1973
- 7.009 Subjects: Ca - Ch, 1918-1983
- 9.1 California Institute of Technology, 1954-1964
- 9.2 Cancer, 1973-1981
- 9.3 Capillaries, 1928-1965
- 9.4 Carbohydrate Analyzer, 1971
- 9.5 Carbon-14 Immobilization, 1954-1983
- 9.6 Carbon Gasification, 1965-1971
- 9.7 Carbon Monoxide Oxidation, 1918-1974
- 9.8 Catalysis, 1951-1978
- 9.9 Catalytica Associates, Inc., 1978-1979
- 9.10 Catalytic Cracking, 1949-1980
- 9.11 Cellulose Carbon, 1963
- 9.12 Ceramic Bonding, 1971
- 9.13 Charcoal, 1934-1946
- 9.14 Chemisorption, 1968-1981
- 9.15 Chemist, The, 1969
- 7.010 Subjects: Ch-Cl, 1940-1982 undated
- 10.1 Chromatography, 1 of 4, 1947-1978
- 10.2 Chromatography, 2 of 4, 1958-1961
- 10.3 Chromatography, 3 of 4, 1940-1976
- 10.4 Chromatography, 4 of 4, 1958-1962
- 10.5 Chromium, 1968 undated
- 10.6 Clay, 1963-1982
- 7.011 Subjects: Co - Cy, 1940-1982
- 11.1 Coal - Chemical Feedstocks, 1982
- 11.2 Coal Gasification, 1970-1980
- 11.3 Coal-Oil, 1978-1979
- 11.4 College Course Study, 1970
- 11.5 Colloidal Carbons, 1940-1942
- 11.6 Copper, 1962
- 11.7 *Current Contents*, 1977
- 11.8 Cyclohexane, 1964
- 7.012 Coal, Authors: A - C, 1973-1983
- 12.1 Coal, Authors A, 1973-1980
- 12.2 Coal, Authors B, 1975
- 12.3 Coal, Authors C, 1973-1983
- 7.013 Coal, Authors: D - K, 1964-1980
- 13.1 Coal, Authors D, 1974-1976
- 13.2 Coal, Authors E, 1975
- 13.3 Coal, Authors F, 1975-1980

- 13.4 Coal, Authors G, 1964-1979
- 13.5 Coal, Authors H, 1971-1980
- 13.6 Coal, Authors I, 1973-1979
- 13.7 Coal, Authors J, 1980
- 13.8 Coal, Authors K, 1968-1978
- 7.014 Coal, Authors: L - Y, 1970-1980 undated
- 14.1 Coal, Authors: M, 1977-1980
- 14.2 Coal, Authors O, 1973-1980
- 14.3 Coal, Authors P, 1974-1979
- 14.4 Coal, Authors Q, 1974
- 14.5 Coal, Authors R, 1974
- 14.6 Coal, Authors S, 1975-1977
- 14.7 Coal, Authors T, undated
- 14.8 Coal, Authors U, 1979
- 14.9 Coal, Authors W, 1970-1979
- 14.10 Coal, Authors Y, 1972-1973
- 14.11 Coal, Authors Unknown, 1974
- 7.015 Authors: D, 1926-1984 undated
- 15.1 Daves, D. Jr., 1974-1975
- 15.2 Davis, R. T., 1943-1948
- 15.3 DeBoer, J. H., 1962-1969
- 15.4 Deitz, V. R., 1961-1963
- 15.5 Deming, W. E., 1929-1937
- 15.6 Dent, A. L., 1974-1975
- 15.7 Dickinson, J. T., 1978
- 15.8 Doering, J. P., 1961-1962
- 15.9 Dowden, D. A., 1956-1964
- 15.10 Duke, C. B., undated
- 15.11 Assorted Authors, D, 1926-1984
- 7.016 Davis, Burtron H., 1972-1986 undated
- 16.1 Reprints by Burtron H. Davis, 1972-1986
- 16.2 Burtron H. Davis. *Heterogeneous Catalysts: Characterization of the Catalytic Site and the Adsorbed Species*, Part I., undated
- 16.3 Burtron H. Davis. *Heterogeneous Catalysts: Characterization of the Catalytic Site and the Adsorbed Species*, Part II., undated
- 7.017 Subjects: D, 1961-1967 1976 undated
- 17.1 Davison Chemical, Grace, 1961-1964
- 17.2 Desulphurization, 1976
- 17.3 Diet, Influence, undated
- 17.4 Diffusion, 1963-1967
- 17.5 Distiller Corporation of England, undated
- 7.018 Authors: E, 1926-1927 1950-1982 undated
- 18.1 Eischens, R. P., 1971 undated
- 18.2 Ernst, F. A., 1926-1927
- 18.3 Ertl, Gerhard, 1973-1982
- 18.4 Evans, R. M., 1926
- 18.5 Eyring, H., 1970-1972
- 18.6 Assorted Authors, E, 1950-1970
- 7.019 Subjects: E, 1968-1981 undated
- 19.1 Electron Spectroscopy, 1968-1978
- 19.2 Energy, 1 of 2, 1972-1978
- 19.3 Energy, 2 of 2, 1977-1981
- 19.4 Environment, 1971-1973

- 19.5 Enzymes, unknown
- 7.020 Authors: F, 1942-1981
 - 20.1 Farkas, Adalbert, 1942-1972
 - 20.2 Fejes, P., 1957-1966
 - 20.3 Fort, T. Jr., 1972-1975
 - 20.4 Frankenburg, Walter G., 1944
 - 20.5 Frevel, L. K., 1971
 - 20.6 Fripiat, J. J., 1964
 - 20.7 Frohning, D., 1977
 - 20.8 Fuller, E. L., 1976-1981
 - 20.9 Assorted Authors, F, 1961-1979
- 7.021 Subjects: Fa - Fr, 1953-1982
 - 21.1 Faujasite, 1967-1972
 - 21.2 Ferrimolybdite, 1963
 - 21.3 Fertilizer Development Center, National, 1981
 - 21.4 Fischer-Tropsch, 1953-1982
 - 21.5 Fixed Nitrogen Industry, 1977
 - 21.6 Fossil Energy, ERDA, 1976
 - 21.7 French Catalytic Inst., 1955-1966
 - 21.8 French Pet. Inst., 1960-1963
 - 21.9 French Reprints, 1971-1973
 - 21.10 French Theses, 1 of 2, 1963-1972
- 7.022 Subjects: Fr-Fu, 1959-1979
 - 22.1 French Theses, 2 of 2, 1959-1979
 - 22.2 Fuel Cells, 1963-1973
- 7.023 Authors: Ga - Ge, 1960-1979 undated
 - 23.1 Gardner, Ralph A., 1967-1979
 - 23.2 Gavalas, George R., 1966
 - 23.3 Garten, Robert L., undated
 - 23.4 Germer, Lester H., 1 of 3., 1960-1964
 - 23.5 Germer, Lester H., 2 of 3., 1960-1964
 - 23.6 Germer, Lester H., 3 of 3., 1960-1971
- 7.024 Authors: Ge - Gr, 1953-1984 undated
 - 24.1 Geus, J. W., 1967
 - 24.2 Giordano, N., 1966
 - 24.3 Gonzalez, Richard D., undated
 - 24.4 Gravelle, P., 1977-1978
 - 24.5 Greenler, R. G., 1962-1972
 - 24.6 Gryder, J. W., undated
 - 24.7 Assorted Authors, G, 1953-1984
- 7.025 Subjects: G, 1960-1984
 - 25.1 Gas Chromatography, 1 of 2, 1960-1967
 - 25.2 Gas Chromatography, 2 of 2, 1963-1970
 - 25.3 Gas Research Institute, 1981-1984
 - 25.4 Gas-Oil, 1971-1973
 - 25.5 Genetics, 1970
 - 25.6 Geysers, 1977
 - 25.7 Girdler Catalysts Catalogue, 1964
 - 25.8 Glacier Studies, 1961
 - 25.9 Graphite Oxidation, 1962-1971
 - 25.10 Gravimetric Adsorption, 1969
 - 25.11 Griffith University, 1978
- 7.026 Authors: Ha - Heg, 1948-1981
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- 26.2 Hair, Michael L., 1963
- 26.3 Haldeman, R. G., 1953
- 26.4 Hall, Keith W., 1952 1960-1974
- 26.5 Halsey, George, 1948
- 26.6 Handler, Philip., 1971-1979
- 26.7 Hansen, Robert S., 1973
- 26.8 Hansford, R. C. - Union Oil Co., 1961-1972
- 26.9 Happel, J., 1968-1971
- 26.10 Hardeveld, R. V., 1966
- 26.11 Hegedus, L., 1980-1981
- 7.027 Authors: Hei - Hu, 1930-1974 undated
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- 27.2 Hendricks, S. B., 1930-1937
- 27.3 Hettinger, W. P., 1967
- 27.4 Hicks, J. F. G., 1967
- 27.5 Hightower, J. W., 1968-1969
- 27.6 Hildebrand, J., 1972
- 27.7 Hill, Terrell L., 1945-1966
- 27.8 Hirchler, A., 1963
- 27.9 Hirota, K., 1968-1970
- 27.10 Hoogendoorn, Jan C., undated
- 27.11 Horiuti, J., 1952-1974
- 27.12 Huang Y., 1972-1973
- 7.028 Authors: Assorted H, 1932-1983
- 28.1 Assorted Authors, H, 1932-1983
- 7.029 Subjects: H, 1933-1979 undated
- 29.1 Homogeneous Catalysis, 1961-1979
- 29.2 Hydrazine, 1975
- 29.3 Hydrodesulfurization, 1973-1979
- 29.4 Hydrogenation, 1933-1976
- 29.5 Hydrogen, 1961-1979
- 29.6 Hydrotreating, undated
- 7.030 Authors: I, 1968-1982
- 30.1 Ingle, D. J., 1972
- 30.2 Assorted Authors, I, 1968-1982
- 7.031 Subjects: I, 1960-1981
- 31.1 Inflammatory Genitourinary Disorders, 1978
- 31.2 Infrared, 1960-1981
- 31.3 Inorganic Chemistry, 1969-1973
- 31.4 International Nickel Co., 1965
- 31.5 Ion Scattering Spectrometry, 1971-1972
- 31.6 Iridium, 1966
- 31.7 Iron, 1970-1980
- 31.8 Isomerization, 1974
- 31.9 Isotope Effect, 1966-1972
- 31.10 Isotopic Mixing, 1961-1965
- 7.032 Authors: J, 1933-1984
- 32.1 Jacobs, P. A., 1979-1984
- 32.2 Johnson, H., 1971-1977
- 32.3 Johnson, J. E., 1966-1968
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- 32.5 Assorted Authors, J, 1933-1983
- 7.033 Subjects: J, 1949-1974
- 33.1 Japan: Assorted, 1956-1967

- 33.2 Japanese University 1: Hokkaido, 1965-1968
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- 33.4 Japanese University 3: Kyoto, 1954-1974
- 33.5 Japanese University 4: Osaka, 1959-1969
- 33.6 Japanese University 5 & 6: Tokyo (Professor Tamaru, Professor Kwan), 1949-1969
- 33.7 Japanese University 7: Tokyo (Professor Yoneda), 1967-1968
- 33.8 Japanese University 8: Tokyo (Professor Kunugi), 1961-1969
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 - 34.3 Kini, K. A., 1963-1976
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 - 35.2 Kraus, K. A., 1966-1973
 - 35.3 Kremenec [Orlandini], G., 1959-1960
 - 35.4 Kubokawa, Yutaka, 1960-1975
 - 35.5 Kuentzel, W. E., 1929-1930
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 - 35.9 Assorted Authors, K, 1931-1984
- 7.036 Authors: La - Ly, 1921-1983 undated
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 - 36.2 Lange, E. F., 1975
 - 36.3 Langmuir, Dr. I, 1932-1962
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 - 36.8 Low, M. J. D., 1968-1972
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 - 36.10 Assorted Authors, L: Lan-Lee., 1921-1983
 - 36.11 Assorted Authors, L: Ley-Lut, 1933-1982
- 7.037 Lawrence Berkeley Laboratory, 1975-1983
 - 37.1 Lawrence Berkeley Laboratory, Bound Authors, 1975-1983
- 7.038 Subjects: L, 1966-1976
 - 38.1 Lehigh University, 1966
 - 38.2 Lunar Materials, 1967-1976
- 7.039 Authors: Ma - Mel, 1954-1980
 - 39.1 Maatman, Russell W., 1964
 - 39.2 MacIver, D. S., 1960-1963
 - 39.3 Madix, R. J., 1978-1980
 - 39.4 Magee, John S., 1976-1977
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 - 39.6 Marshall, Williams L., 1974-1975
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 - 39.9 McCorckle, K. H., 1971
 - 39.10 Melton, C. E., 1 of 2, 1954-1968

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- 7.040 Authors: Men - My, 1959-1974
- 40.1 Menon, P. G., 1968
- 40.2 Merrill, R. P., 1970-1973
- 40.3 Mills, A. G., 1959-1974
- 40.4 Miyahara, Koshiro, 1959-1974
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- 40.7 Morikawa, A., 1966
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- 7.041 Authors: Assorted M, 1921-1983
- 41.1 Assorted Authors, M: Mah-Mat, 1921-1979
- 41.2 Assorted Authors, M: Med-Mor, 1943-1983
- 7.042 Subjects: Ma-Mo, 1926-1982 undated
- 42.1 Macquarie University, 1975
- 42.2 Madrid, 1964
- 42.3 Matter, 1929
- 42.4 Medical School, U of O, 1975
- 42.5 Metals, 1981 undated
- 42.6 Methanation, 1971-1982
- 42.7 Methanol, 1972-1979
- 42.8 Methanol Oxidation, 1969-1974
- 42.9 Methanol Synthesis, 1926-1982
- 42.10 Mines, Bureau of, 1963-1974
- 42.11 Molecular Beams, 1964-1971
- 42.12 Molybdenum Chemicals, 1964-1974
- 42.13 Moon Dust, 1971-1976
- 42.14 Mössbauer Effect, 1962-1964
- 7.043 Authors: N, 1952-1983
- 43.1 Nielsen, A., 1952-1964
- 43.2 Assorted Authors, N, 1967-1983
- 7.044 Subjects: N, 1951-1980
- 44.1 National Academy of Sciences, 1964-1975
- 44.2 National Bureau of Standards, 1967
- 44.3 Nickel Catalysts, 1951-1980
- 44.4 Ni-Cu Alloys, 1957-1959
- 44.5 Nitrides on Iron, 1979
- 44.6 Nitrogen, 1961-1972
- 44.7 Nitrous oxide Decomposition, 1973
- 44.8 Nuclear Energy, 1970-1979
- 44.9 Nuclear, Solar, 1974-1979
- 44.10 Nunsutch College, 1966
- 7.045 Authors: O, 1952-1978
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- 45.2 Onchi, M., 1972-1974
- 45.3 Ozaki, A., 1960-1974
- 45.4 Assorted Authors, O, 1952-1978
- 7.046 Subjects: Oak, 1931-1981
- 46.1 Oak Ridge Laboratory, 1959-1967
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- 7.047 Subjects: Oak-Oxi, 1956-1979
- 47.1 Oak Ridge Laboratory, 1959
- 47.2 Oak Ridge Laboratory, 1956-1975
- 47.3 Oak Ridge Laboratory, 1977-1979

- 47.4 Olefin Metathesis, 1976
- 47.5 Oligomerization, 1967-1978
- 47.6 Oregon's Energy Perspective, 1973
- 47.7 Oxidation, 1960-1976
- 7.048 Authors: P, 1949-1983 undated
- 48.1 Pansing, W. F., undated
- 48.2 Parr, R. G., 1967
- 48.3 Pauling, Linus, 1973-1982
- 48.4 Perlstein, J. H., 1969-1974
- 48.5 Pines, H., 1961-1972
- 48.6 Pings, C. J., 1962-1966
- 48.7 Ponec, Valdimír, 1964-1965
- 48.8 Assorted Authors, P, 1949-1983
- 7.049 Subjects: P, 1944-1980 undated
- 49.1 Parapsychology, 1973
- 49.2 Parkinson's Disease, 1972-1980
- 49.3 Particle Size and Catalysts, 1968
- 49.4 Petroleum, 1960-1978 undated
- 49.5 Photocatalysis, 1971-1979
- 49.6 Platinum, 1959-1973
- 49.7 Poisoning, 1968
- 49.8 Pollution, 1970-1978
- 49.9 Pore Size and Distribution, 1944-1978
- 49.10 Pore Studies, 1971-1973
- 49.11 Public Law, 1962
- 49.12 Pulse Technique, 1968-1974
- 7.050 Authors: R, 1949-1976 undated
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- 50.2 Rees, A. L. G., 1963
- 50.3 Reyerson, L. H., 1956-1966
- 50.4 Rhodin, T. N., 1974
- 50.5 Riekert, L., 1959-1962
- 50.6 Rienacker, G., 1958-1959
- 50.7 Roginski, S. Z., 1957-1964
- 50.8 Rossini, F. D., 1971
- 50.9 Rouquerol, F., undated
- 50.10 Ruedenberg, K., 1962
- 50.11 Russell, W. W., 1965
- 50.12 Assorted Authors, R, 1949-1976
- 7.051 Subjects: R, 1942-1978
- 51.1 Radioactive Radiation, 1958-1972
- 51.2 Raney Method, 1955
- 51.3 Raney Nickel, 1942-1976
- 51.4 Rare Earth Compounds, 1975-1978
- 51.5 Reactors, 1971
- 51.6 Reforming, 1968-1974
- 51.7 Rhenium, 1970
- 51.8 Royal Melbourne Institute of Technology, 1974
- 51.9 Russian Journal of Physical Chemistry, 1959-1960
- 7.052 Authors: Sa-St, 1951-1980
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- 52.2 Sage, B. H., 1960-1968
- 52.3 Sastri, M. V. C., 1951-1974
- 52.4 Schaefer, Von H., 1962-1967

- 52.5 Scherzer, Julius, 1971-1975
- 52.6 Schuldiner, Sigmund, 1961
- 52.7 Schwab, G. M., 1960-1972
- 52.8 Shelef, M., 1968-1969
- 52.9 Sinfelt, J. H., 1972-1980
- 52.10 Skala, H., 1968
- 52.11 Stone, F. S., 1952-1970
- 52.12 Stonehart, P., 1966-1970
- 7.053 Somorjoi, G. A., 1968-1977
- 53.1 Somorjai, G. A., 1968-1969
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- 7.054 Somorjoi, G. A., 1960-1982 undated
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- 54.2 Somorjai, G. A., 1979-1981
- 54.3 Somorjai, G. A., undated
- 54.4 Somorjai, G. A., undated
- 54.5 Somorjai, G. A., undated
- 54.6 Somorjai, G. A., 1960-1982
- 7.055 Authors: Assorted S, 1937-1984
- 55.1 Assorted Authors, S: Sab-Sha, 1950-1984
- 55.2 Assorted Authors, S: She-Sug, 1937-1984
- 7.056 Subjects: Sa-Sp, 1919-1979
- 56.1 SALT Agreement, 1979
- 56.2 *Science Magazine*, 1963-1971
- 56.3 Semi-Conductors, 1962-1966
- 56.4 Shell Oil, 1955-1964
- 56.5 Silica-Alumina Catalysts, 1955-1977
- 56.6 Silver, 1972
- 56.7 Smoke, 1919-1959
- 56.8 Solar Energy, 1978-1979
- 56.9 Solid/Gas Interface, 1957
- 56.10 Solid State, 1968-1974
- 56.11 Spectroscopy, 1965-1976
- 7.057 Subjects: Sur-Syn, 1946-1981
- 57.1 Sulfur, 1979
- 57.2 Surface Area, 1 of 2, 1948-1979
- 57.3 Surface Area, 2 of 2, 1946-1966
- 57.4 Surface Chemistry, 1979-1981
- 57.5 Synthetic Fuels, 1979-1980
- 7.058 Authors: Ta-Tu, 1953-1983
- 58.1 Takezawa, N., 1966-1983
- 58.2 Tamaru, K., 1961-1965
- 58.3 Tanabe, K., 1973-1975
- 58.4 Tanaka, S., 1966-1976
- 58.5 Taylor, E. H., 1953-1968
- 58.6 Teichner, S. J., 1 of 2, 1957-1980
- 58.7 Teichner, S. J., 2 of 2, 1966-1981
- 58.8 Teller, Edward, 1959-1966

- 58.9 Thomson, S. J., 1957-1961
- 58.10 Toyoshima, Isamu, 1964-1978
- 58.11 Turkevich, J., 1967
- 7.059 Authors: Assorted T, 1942-1983
- 59.1 Assorted Authors, T: Tak-Tho, 1942-1983
- 59.2 Assorted Authors, T: Tod-Tra, 1960-1979
- 7.060 Subjects: T, 1958-1974
- 60.1 Theronuclear Reactor Materials, 1958
- 60.2 Thermodynamics, 1970
- 60.3 Transient Response Method, 1974
- 60.4 Tungsten, 1966-1968
- 7.061 Authors: U, 1951-1973
- 61.1 Uhara, Ituro, 1961
- 61.2 Assorted Authors, U, 1951-1973
- 7.062 Authors: V, 1956-1983
- 62.1 Vannice, M. A., 1974-1975
- 62.2 Vanselow, R., 1974
- 62.3 Vaughn, D. E. W., 1978-1979
- 62.4 Venuto, P. B., 1964-1971
- 62.5 Voet, A., 1964-1970
- 62.6 Voge, H. H., 1958-1968
- 62.7 Assorted Authors, V, 1956-1983
- 7.063 Subjects: U-V, 1961-1983
- 63.1 Union Oil, 1 of 2., 1961-1976
- 63.2 Union Oil, 2 of 2., 1973-1976
- 63.3 Université du Québec, 1977
- 63.4 Uranium, 1981-1983
- 63.5 Vacuum, Ultra-high Components, 1963
- 63.6 Vibrational State Detection, 1966
- 7.064 Authors: W, 1925-1983
- 64.1 Wagner, Carl, 1969-1970
- 64.2 Walker, P. L., 1964-1982
- 64.3 Wallace, W. E., 1976
- 64.4 Weinburg, W. H., 1973
- 64.5 Weisz, P. B., 1962-1973
- 64.6 Winfield, M. E., 1963-1973
- 64.7 Winter, E. R. S., 1950-1965
- 64.8 Wise, Henry, 1973-1975
- 64.9 Wishlade, J. L., 1962
- 64.10 Wojciechowski, B. W., 1968-1974
- 64.11 Wolkenstein, Th., 1966
- 64.12 Wulf, O. R., 1927-1938
- 64.13 Wyckoff, R. W. G, 1925
- 64.14 Assorted Authors, W., 1931-1983
- 7.065 Subjects: W, 1963-1972
- 65.1 Water Gas Conversion, 1963
- 65.2 Wisconsin-Milwaukee, University of, 1966-1972
- 7.066 Authors: Y, 1954-1983
- 66.1 Yamashina, Toshiro, 1975
- 66.2 Yao, H. C., 1962-1976
- 66.3 Yasumori, I., 1969
- 66.4 Yates, D. J. C., 1954-1968
- 66.5 Assorted Authors, Y, 1958-1983
- 7.067 Authors: Z, 1957-1962

- 67.1 Zwietering, P., 1957-1962
- 7.068 Subjects: X - Z, 1938-1984
- 68.1 Xenon-Fluoride, 1964
- 68.2 X-Ray Absorption, 1973-1974
- 68.3 Zeolites, 1 of 3, 1969-1983
- 68.4 Zeolites, 2 of 3, 1961-1984
- 68.5 Zeolites, 3 of 3, 1938-1982

Box**8. Non-Emmett Research Files, 1921-1980 undated (25 boxes)**

Non-Emmett manuscripts, typescripts, research notebooks and dissertations can be found in Series 8. Many of the series' research notebooks and dissertations were created by graduate students advised by Emmett.

- 8.001 Non-Emmett Research Files, Authors: A-B, 1930-1968 undated
 - 1.1 Aker, E. G. Typescript: *The Characterization of Acid-Set Silica Hydrosols, Hydrogels and Dried Gel*, W. R. Grace & Co., undated
 - 1.2 Allison, Samuel F. Typescript: Review of "The Mechanism of the Catalytic Action of Platinum in the Reaction $2\text{CO} + \text{O}_2 \rightarrow 2\text{CO}_2$ " by Irving Langmuir, undated
 - 1.3 Baker, R. W. Typescript: *Performance and Characteristics of Silica/Alumina Cracking Catalysts Promoted by Microtraps and Rare Earths - XI*, W. R. Grace & Co., 1962
 - 1.4 Balandin, A. A., et al. Typescript: *The Free Energy of Adsorptive Displacement of Butylene by Water from a Catalytic Surface*, No. 4, 1955
 - 1.5 Bartley, Burton. Typescript, Research Notes: *Dual Function Catalysis with the Metal at a Higher Temperature Than the Support* and Products of Cetane Cracking, 1963-1965
 - 1.6 Berlin, Elliott. Research Notes re: Catalysis, 1958-1959
 - 1.7 Brenner, Alan. Typescript: *Chemisorption of Hydrogen on Nickel at 0°C*, Johns Hopkins University, June 1, 1968
 - 1.8 Browning, Luther C. Weekly Reports: Gulf Research and Development Co., May 4, 1946 - July 14, 1951
 - 1.9 Browning, Luther C. Research Notes re: Mo-Mo₂C. Mellon Institute of Industrial Research, 1950-1951
 - 1.10 Browning, Luther C. Quarterly Reports: Gulf Research and Development Co., 1951
 - 1.11 Browning, Luther C. Research Notes re: Fischer-Tropsch Process, undated
 - 1.12 Brunauer, Stephen. Typescripts: *Adsorption of Nitrogen and the Mechanism of Ammonia Decomposition over Iron Catalysts* and *Catalogue of Catalysis*, July 1930
- 8.002 Non-Emmett Research Files, Authors: C, 1941-1963 undated
 - 2.1 Campbell, J. S. Manuscript: *Catalytic Activity of Alloy Catalysts*, 1963
 - 2.2 Cheselske, Francis J. Weekly Reports re: Gulf Research and Development Co., 1953-1955
 - 2.3 Cines, Martin R. Assorted Graphs and Calculations, 1942
 - 2.4 Cines, Martin R. Research Notebook: *Data Book on Sorption Studies and Surface Area Measurements* 1 of 2. John Hopkins University, 1941-1942
 - 2.5 Cines, Martin R. Research Notebook: *Adsorption and Surface Area Data* 2 of 2. John Hopkins University, 1942
 - 2.6 Cines, Martin R. Research Notebook: *Adsorption Isotherms and Calculations*, Cabot Research Fellowship I, undated
 - 2.7 Cines, Martin R. Research Notebook: *Carbon Black Isotherms and Calculations*, Cabot Fellowship Research II, undated
 - 2.8 Crowell, J. H. Typescript: *Plant, Research and Development Work on Fischer-Tropsch Processes*, April 1946
- 8.003 Non-Emmett Research Files, Authors: D-G, 1929-1975 undated
 - 3.1 Danforth, Joseph D. Report: *The Effect of Alkali and Alkaline Earth Metal Ions on the Activity of Cracking Catalysts*, Petroleum Fellowship. Mellon Institute, 1953
 - 3.2 Davis, R. T. and R. G. Hay. Weekly Reports re: Petroleum Laboratory, Mellon Institute. Gulf Research and Development Co., 1943-1944

- 3.3 Davis, R. T. Weekly Reports re: Petroleum Laboratory, Mellon Institute. Gulf Research and Development Co., 1945-1946
- 3.4 Delaney, C. M. Weekly Reports re: Petroleum Laboratory, Mellon Institute. Gulf Research and Development Co., April 10, 1954 - May 14, 1955
- 3.5 Dent, Anthony. Typescript: *Research Proposal*, 1968
- 3.6 DeWitt, Thomas W. Weekly Reports re: Petroleum Laboratory, Mellon Institute. Gulf Research and Development Co., 1945-1947
- 3.7 Dick, Frederick F. Typescripts re: Catalysis Paper Reviews, Chemistry 204, 1929
- 3.8 Doering, John. Manuscript, Typescript: Krypton Apparatus., 1958
- 3.9 Engel, Thomas. Research Notes re: Exchange Reactions, undated
- 3.10 Garten, Robert L. Research Notes re: Isopentane Cracking, 1968
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- 3.13 Gasior, Stanley J., et al. Typescript: *Destruction of the Agglomerating Properties of Coals*, Pittsburgh Energy Research Center, 1975
- 3.14 Gens, Theodore A. Typescript: *F18 Exchange Between Fluorocarbons and Some Fluorine-Containing Compounds*, August 1957
- 3.15 Goodemoot, Kenneth. Typescript re: Catalysis Paper Review, undated
- 3.16 Greensfelder, B. S. and J. A. Samaniego. Typescript: *Isomerization*, Shell Development Co., undated
- 8.004 Non-Emmett Research Files, Authors: Hal - Har, 1948-1962 undated
- 4.1 Haldeman, R. G. Thesis: *Exchange of Water Vapor and Isobutane with the Combined Hydrogen of Silica, Alumina and Silica-Alumina Catalysts*, University of Pittsburgh, 1952
- 4.2 Haldeman, R. G. Report re: Weekly Gulf Report, Mellon Institute of Industrial Research, 1948-1953
- 4.3 Haldeman, R. G. Reports: *The Poisoning of An Aluminosilicate Catalyst by Steam Article Review and Quarterly Summary Reports*. Gulf Research and Development Co., 1949-1953
- 4.4 Hall, W. Keith. Reports re: Weekly Gulf Research Report, Mellon Institute of Industrial Research, 1951-1955
- 4.5 Harkins, C. Girvin. Student Research Notes re: run data, 1962
- 4.6 Harrison, A. P. Manuscript re: catalysis paper review, undated
- 8.005 Non-Emmett Research Files, Authors, Hay - Hop, 1943-1969 undated
- 5.1 Hay, R. G. Progress Report re: isomerization activity, University of Pittsburgh, 1946
- 5.2 Hay, R. G. and R. T. Davis. Weekly Reports re: Petroleum Laboratory, Mellon Institute. Gulf Research and Development Co., 1943-1944
- 5.3 Hay, Russell C. Student Research Notes re: catalysis, 1946
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- 5.5 Hill, Terrell L. Typescript: *Thermodynamics of Adsorption*, 1950
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- 5.8 Huang, Yun-Yang, John E. Benson, et al. Article: "Krypton as a Probe of Electrostatic Fields in Y Zeolites," *I & EC Fundamentals*, Vol. 8, 1969
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- 6.1 Jackson, C. B. Typescript re: catalysis paper review, undated
- 6.2 Joyner, Leslie G. Weekly Reports re: Gulf Research and Development Co., 1945-1949
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- 6.4 Joyner, Leslie G. Student Research Notes re: rate data, 1941-1947
- 6.5 Joyner, Leslie G. Student Research Notes re: rate data, 1941-1947
- 6.6 Katz, S. Notes: "Systems: Gas-Solid", February 1964
- 6.7 Kesavulu, V. Research Notes re: hydrogen chemisorption and run data, 1960-1961
- 6.8 Klein, G. W. and R. A. Holroyd. Typescript: *A Radio-Chemical Method for Measuring Radical Yields in the Radiolysis of Liquid Hydrocarbons*. Mellon Institute, October 1961
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- 6.10 Kokes, Richard J. Report: Fischer-Tropsch synthesis Quarterly Gulf Summary Report, Gulf Research and Development Co, 1954

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- 7.5 Kummer, Joseph T. Reports re: Fischer-Tropsch synthesis, Weekly Summary Reports. Gulf Research and Development Co., 1945-1951
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- 8.1 Leftin, Harry P. Reports: Weekly Gulf Research and Development Co., 1954-1955
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- 8.9 Melton, C. E. Typescripts re: reaction rates, Oak Ridge National Laboratory, undated
- 8.10 Mong, L. E. Typescript re: literature report on catalysis paper, undated
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- 9.3 Phillips, Mary J. Research Notes re: catalysis, 1959
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- 8.010 Non-Emmett Research, Authors: San-Sou, 1928-1964 undated
- 10.1 Sachtler, W. H. M. Typescripts re: copper-nickel alloy films. Shell Research, undated
- 10.2 Sanders, G. P. Manuscript, Typescript: catalytic synthesis of ammonia, 1928
- 10.3 Schuldiner, Sigmund and R. M. Roe. Typescript: *The Pt/O₂ Electrode in Sulfuric Acid Solution*. U. S. Naval Research Laboratory, undated
- 10.4 Setzer, H. Assorted Graphs, 1963-1964
- 10.5 Sevenster, P. G. Typescripts re: coal and gas adsorption, undated
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