

Series Outline

1. Correspondence, 1930-1989
2. Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1944-1985
3. Publications, 1943-1994
4. Undergraduate Instruction and Graduate Supervision, 1952-1982
5. Photographs and Biographical Materials, 1947, 1972-1985, 2000
6. Artifacts, 1950s, 1977 undated
7. Shoemaker Personal Library, 1905-1994

Detailed Description of the Collection

Box

1. Correspondence, 1930-1989

The large Correspondence series is a reflection of David and Clara Shoemaker's many contacts within the discipline of crystallography over the latter half of the twentieth century. Located within the series are communications with notable scientists ranging from Linus Pauling to John C. Slater to Dorothy Hodgkin. Letters with numerous of David Shoemaker's colleagues from his graduate and post-graduate years at the California Institute of Technology are also included.

The series is likewise home to documentation of David Shoemaker's Guggenheim Fellowship as well as his later contributions to and leadership of the International Union of Crystallography and the U.S.A. National Committee on Crystallography. Finally, three boxes of records dating to David Shoemaker's eleven-year tenure as chair of the Oregon State University department of chemistry provide a valuable glimpse into the workings of the department and the university in the 1970s and early 1980s.

1.001 Correspondence: A,

Folder

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- 1.2 Abadan Institute of Technology, 1975
- 1.3 Abrahams, Sidney C., 1955-1982
- 1.4 Academic Press Inc., 1979
- 1.5 *Acta Crystallographica*, 1970-1977
- 1.6 Adams, O. William, 1974-1975
- 1.7 Air Force Office of Scientific Research, 1975
- 1.8 Alberty, Robert A., 1981
- 1.9 Alexander, Marcella, 1980
- 1.10 Alexander, Robert M., 1970
- 1.11 Allamandola, Lou, 1976
- 1.12 Alldredge, Elden C., 1971
- 1.13 Allinger, N. L., 1972
- 1.14 Almquist, John. G., 1972
- 1.15 Amdur, Isadore, 1964-1965
- 1.16 American Academy of Arts and Science, 1972-1977
- 1.17 American Chemical Society, 1971-1982
- 1.18 American Council on Education, 1980
- 1.19 American Crystallographic Association, 1959, 1963, 1967, 1976-1982
- 1.20 *American Men and Women of Science*, 1972
- 1.21 American Physical Society, 1972
- 1.22 Amey, Ralph, 1971
- 1.23 Anderson, Brian, 1976
- 1.24 Andreen, Brian, 1972
- 1.25 Anton, Peter, 1976
- 1.26 Arey, William, 1971-1972
- 1.27 Argonne National Laboratory, 1975
- 1.28 Arnold, James C., 1980
- 1.29 Arthur, John R., Jr., 1963
- 1.30 Atiyeh, Victor, 1981
- 1.31 Atkinson, Gordon, 1976
- 1.32 Atteberry, Pat, 1975
- 1.33 Augsburg College, 1972
- 1.34 Austin, Marjorie, 1973

- 1.35 Authier, A., 1967
- 1.002 Correspondence: B,
- 2.1 Bachir, Raissouri, 1980
- 2.2 Badejo, Oluwadahun, 1977
- 2.3 Badger, Richard M., 1956
- 2.4 Baehr, Jim, 1974
- 2.5 Baker, Barry, 1974
- 2.6 Baldwschwieler, John, 1976
- 2.7 Baldursson, Steingrimur, 1982
- 2.8 Balyeat, John Robert, 1976
- 2.9 Ban, Zvonimir, 1972-1974
- 2.10 Banks, Richard, 1978
- 2.11 Barieau, Robert E., 1967
- 2.12 Barnes, Connie, 1973
- 2.13 Barnes, Olin, 1971
- 2.14 Barnett, Cecil, 1975
- 2.15 Barnett, Michael P., 1954
- 2.16 Barnhart, Richard, 1975
- 2.17 *The Daily Barometer* [Oregon State University], 1976-1980
- 2.18 Barrer, R. M., 1964 1982
- 2.19 Barstad, David, 1977
- 2.20 Bartsch, Richard, 1971-1972
- 2.21 Basolo, Fred, 1971
- 2.22 Bass, Larry, 1977
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- 2.24 Bau, Robert, 1975
- 2.25 Bauer, George W., 1958
- 2.26 Baumgartner, Cathy, 1977
- 2.27 Beard, Walter, 1973
- 2.28 Beck, Paul A., 1952-1972
- 2.29 Becker, Ernest I., 1967
- 2.30 Becker, Ralph S., 1980
- 2.31 Becker, Robert, 1972
- 2.32 Bedenbaugh, John, 1971
- 2.33 Beenan, Elizabeth, 1979
- 2.34 Beers, V. Gilbert, 1973
- 2.35 Beevers, C. Arnold, 1953 1982
- 2.36 Beisswenger, Rudolf, 1979-1980
- 2.37 Benedict, Doty, 1980
- 2.38 Bennett, Casey, 1978-1981
- 2.39 Berchtold, Glenn, 1966-1973
- 2.40 Bergman, Gunnar B., 1951-1958
- 2.41 Bernhard, Sidney A., 1966-1967
- 2.42 Bernard, W.H., 1967
- 2.43 Bertaut, Erwin Felix, 1964-1967, 1977-1978, 1982
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- 2.45 Bigelow, W.C., 1955
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- 2.50 Bloch, Will, 1977
- 2.51 Block, Deann, 1980
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- 2.59 Bolduc, Ernest, 1975
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- 2.61 Bonnihseu, Chris, 1981
- 2.62 Bonsteel, Russell, 1981
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- 2.64 Boschetto, Mario, 1975
- 2.65 Boyd, Bill, 1980
- 2.66 Branchfield, Edward, 1977
- 2.67 Breedlove, C.H., 1976
- 2.68 Brenner, Norman, 1967
- 2.69 Brixius, Lyndal, 1972
- 2.70 Broderick, Frank J., 1977-1978
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 - 3.2 Calder, G.V., 1971
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 - 3.4 Caldwell, Mrs. William, 1973
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 - 3.7 Canaan, Nelly, 1972
 - 3.8 Carlson, David, 1975
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 - 3.10 Carpenter, Gene, 1972
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- 3.18 Chalker, Linda, 1976
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- 3.20 Chandrasekaran, K.S., 1963
- 3.21 Charles Supper Co., 1982
- 3.22 *Chemical and Engineering News*, 1951
- 3.23 Chevron Research Co., 1967-1968
- 3.24 Chi, Wu, 1981
- 3.25 Chojnacki, J., 1973
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- 3.27 Christiansen, Daniel J., 1975
- 3.28 Christofferson, G.D., 1976
- 3.29 Christman, David Ray, 1975
- 3.30 Church, Daniel F., 1974
- 3.31 Church, E., 1976-1977
- 3.32 Clark, D. W., 1975
- 3.33 Clark, Stuart, 1980
- 3.34 Clark, R. Joseph, 1966
- 3.35 Clearfield, Abraham, 1975
- 3.36 Clemons, Marvin, 1974
- 3.37 Coad, Peter, 1974
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- 3.39 Cohen, J.B., 1976
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- 3.41 Cole, Henderson, 1976
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- 3.44 College of Idaho, 1970-1971
- 3.45 Collier, Lloyd and Arlene, 1973
- 3.46 Collins, Ronald, 1974
- 3.47 Compaq, 1983
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- 3.49 Converse, Richard, 1973
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- 3.55 Cooper, Howard, 1978
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- 3.58 Corbett, John, 1972
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- 3.60 Corey, Robert B., 1953-1959
- 3.61 Corlett, M.I., 1975
- 3.62 Corvallis Post Office, 1972
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- 3.64 Coussens, Virginia, 1971-1974
- 3.65 Cox, Jeffrey, 1975
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 - 4.9 Davis, Donald, 1972
 - 4.10 Davis, Michael, 1971
 - 4.11 Dawson, John W., 1967
 - 4.12 Day, Jesse H., 1954
 - 4.13 de Briceno, Betania O., 1980
 - 4.14 De Camp, Wilson H., 1974
 - 4.15 Decius, J. C., 1973-1976
 - 4.16 De Clerque, Ken, 1975
 - 4.17 De Garza Gloria T., 1977
 - 4.18 DeKock, Carroll W., 1970-1976
 - 4.19 Deller, Mark, Sr., 1976-1980
 - 4.20 Delord, Jean, 1975-1980
 - 4.21 DeMattei, Robert, 1970
 - 4.22 Deming, S. N., 1976
 - 4.23 Dennis, D. F., 1977
 - 4.24 DeRocco, Andrew, 1975-1976
 - 4.25 Deutch, John, 1972
 - 4.26 Diggins, Kathryn L., 1974
 - 4.27 Dittmer, Donald, 1970
 - 4.28 Dixon, Bettie L., 1973
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 - 4.31 Doniach, Sebastian, 1977
 - 4.32 Donnay, Gabrielle and Jose, 1964, 1969-1970
 - 4.33 Donnell, James C., 1971
 - 4.34 Donohue, Jerry, 1952, 1970-1977, 1979
 - 4.35 Dorey, Robert J., 1955
 - 4.36 Dornberger, K., 1967
 - 4.37 Douglas, John R., 1980
 - 4.38 Douthett, Elwood M., 1975
 - 4.39 Dow Chemical Company, 1978
 - 4.40 Downey, James P., 1977
 - 4.41 Doyne, Tom, 1980
 - 4.42 Dozier, Anna, 1979
 - 4.43 Draper, Arthur L., 1975-1976
 - 4.44 The Camille and Henry Dreyfus Foundation, Inc., 1972-1978
 - 4.45 DuBridge, Lee A., 1966
 - 4.46 Duell, Paul M., 1976-1977

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- 4.51 Dunn, Thomas M., 1974
- 4.52 DuPont, Inc., 1957 1970
- 4.53 Dustrude, Ann, 1978
- 4.54 Dutta-Ahmed, A., 1974
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 - 5.2 Eastern Oregon State College, 1970
 - 5.3 Eastman Kodak Co., 1977
 - 5.4 Eccles, John, 1977
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 - 5.9 Ehrenfreund, Michel, 1972
 - 5.10 Eisenman, George, 1974
 - 5.11 Eitel, Wilhelm, 1961
 - 5.12 Elder, Richard, 1980
 - 5.13 Eliel, Ernest L., 1972
 - 5.14 Elkins, John Rush, 1971
 - 5.15 Englund, Alan, 1973
 - 5.16 Enthoven, Grahame, 1972
 - 5.17 Eriksen, Jens, 1978
 - 5.18 Erikson, Erik, 1976
 - 5.19 Eschenfelder, A. H., 1971
 - 5.20 Eulenberger, G. R., 1964
 - 5.21 Evans, Ersel, 1973
 - 5.22 Evans, Glenn T., 1978
 - 5.23 Evans, H. Thomas, 1974
 - 5.24 Evans, Thomas P., 1981
 - 5.25 Evans, William J., 1982
 - 5.26 Ewald, Paul P., 1952-1959 1967-1970
 - 5.27 Ewing, Fred J., 1951
 - 5.28 Extine, M. W., 1977
 - 5.29 Exxon Corporation, 1978-1981
 - 5.30 Eyring, LeRoy, 1972
- 1.006 Correspondence: F,
 - 6.1 Faes, Kathleen S., 1981
 - 6.2 Fairhall, Arthur W., 1976
 - 6.3 Fankuchen Award Committee, 1982
 - 6.4 Fankuchen, Isidor, 1953-1964
 - 6.5 Fansky, Michael, 1978
 - 6.6 Farnsworth, H. E., 1961
 - 6.7 Faulhaber, Duane, 1981
 - 6.8 Faulkner, John P., 1975
 - 6.9 Feiner, Neil Frank, 1978
 - 6.10 Feinstein, Leo G., 1965-1967
 - 6.11 Fenton, D. M., 1962 1973
 - 6.12 Ferguson, Faith, 1976
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- 6.14 Ferrier, R. P., 1967
- 6.15 Fielschmidt, Joseph D., 1974
- 6.16 Filz, Charles J., 1972
- 6.17 Fisher, Paul W., 1974
- 6.18 Flack, H. D., 1977
- 6.19 Flaherty, Joan M., 1967
- 6.20 Flanagan, Ted B., 1980-1981
- 6.21 Fleming, Michael, 1972
- 6.22 Fletcher, Charles E., 1977
- 6.23 Foust, Alan, 1972
- 6.24 Fox, A. H., 1952
- 6.25 Fox, Charlotte, 1973
- 6.26 Fraga, Serafin, 1978
- 6.27 Frank, Robert, 1975
- 6.28 Frasier, Charles T., 1977
- 6.29 Fredericks, William J., 1974-1981
- 6.30 Fredrickson, Larry, 1976
- 6.31 Freed, Virgil H., 1970-1976
- 6.32 Freeman, H. C., 1964
- 6.33 Freeman, Peter, 1972-1980
- 6.34 Freund, Harry, 1975-1980
- 6.35 Friedlander, Gerhart, 1976
- 6.36 Friedman, Robert S., 1981
- 6.37 Fruchart, Daniel, 1979-1980 (Includes research proposal titled "Structural studies of $ZrCr_2D_x$," drafted by Fruchart and David Shoemaker, and issued to the Institut Laue Langevin.)
- 6.38 Frye, James S., 1977
- 6.39 Fryer, J. L., 1980
- 6.40 Fullington, Jannis L., 1977
- 6.41 Fulmer, V. A.,
- 6.42 Fuhr, Irvin, 1960
- 1.007 Correspondence: G,
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- 7.2 Gafner, G., 1967
- 7.3 Gaiser, Terri, 1973
- 7.4 Gajdusek, D. Carleton, 1961-1962 1970-1976
- 7.5 Ganguli, P. "Ramu", 1980
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- 7.7 Garland, Carl W., 1953 1963-1964 1972-1978
- 7.8 Garrison, David R., 1976
- 7.9 Gathman, Barbara, 1980
- 7.10 Geers, Brian, 1977
- 7.11 Gerdemann, Stephen, 1978
- 7.12 Germer, Lester H., 1960-1964
- 7.13 Gibbs, Wallace E., 1974
- 7.14 Gibson, Ken, 1976
- 7.15 Giesy, Julie, undated
- 7.16 Giguère, Paul A., 1953
- 7.17 Gilbert, Mrs. E. C., 1972-1974
- 7.18 Gilbert, Michael, 1974
- 7.19 Gillespie, Robert J., 1956
- 7.20 Girgis, K., 1979
- 7.21 Gleicher, Jerry, 1976
- 7.22 Glimcher, M. J., 1959
- 7.23 Goax, W., 1981

- 7.24 Goldanskii, Vitalii I., 1971
- 7.25 Gordon, April, 1973
- 7.26 Gordon, L., 1978
- 7.27 Gottardi, Glauco, 1976
- 7.28 Gove, W. Bradford, 1967
- 7.29 Graber, Gordon A., 1975
- 7.30 Granda, Geraldine Ann, 1974
- 7.31 Grant, David M., 1972
- 7.32 Gray, Pearl S., 1981
- 7.33 Greear, Joan E., 1973
- 7.34 Greenstein, Ruth L., undated
- 7.35 Gregory, Norm W., 1970-1974
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- 7.37 Griffith, Hayes, 1972
- 7.38 Grossie, David A., 1982
- 7.39 Guenther, Ronald B., 1980
- 7.40 Guggenheim Fellowship, 1946-1951 (Assorted Materials related to David Shoemaker's Guggenheim Fellowship. Includes correspondence, (including a letter of congratulations from Niels Bohr) Shoemaker's research proposal and background information concerning Shoemaker's travel overseas.)
- 7.41 Guildner, Leslie, 1975
- 7.42 Guinier, A., 1967
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- 7.44 Gurton, J. R., 1973
- 7.45 Guthrie, Marci Gamble, 1982
- 7.46 Gutsche, C. David, 1973
- 1.008 Correspondence: H,
- 8.1 Haake, Paul D., 1981
- 8.2 Haas, Felix, 1973
- 8.3 Haendler, Helmut M., 1967
- 8.4 Hagel, P. M., 1972
- 8.5 Hahn, Theo, 1958 1982
- 8.6 Hains, Gregory J., 1977
- 8.7 Halevi, E. A., 1974
- 8.8 Hamby, Drannan C., 1972
- 8.9 Hamilton, L. F., 1951-1958
- 8.10 Hamilton, Walter C., 1971, 1973-1974 (Folder also contains correspondence regarding the Walter Hamilton Memorial Fund Committee.)
- 8.11 Hamm, Randall E., 1971
- 8.12 Hammond, George S., 1970
- 8.13 Hanrahan, Robert J., 1971
- 8.14 Hansen, H. P., 1970
- 8.15 Hansen, John C., 1973-1974
- 8.16 Hansen, Robert S., 1962
- 8.17 Hardman, Lorna, 1967
- 8.18 Hardy, Harriet, 1960
- 8.19 Harlow, Richard L., 1981
- 8.20 Harms, John Herbert, 1978
- 8.21 Harper and Row, Publishers, 1975
- 8.22 Harrington, Rodney E., 1973-1975
- 8.23 Harris, Milton, 1976
- 8.24 Harris, William C., 1979
- 8.25 Harrison, Carlisle, 1979
- 8.26 Harsch, Berna A., 1974
- 8.27 Hart, Lucas P., 1975

- 8.28 Harte, Francis A., 1971
- 8.29 Hathaway, Joy, 1974
- 8.30 Hawkes, Stephen, 1975
- 8.31 Hawks, Earl E., 1975
- 8.32 Haytas, John A., 1974
- 8.33 Hecht, Sidney, 1974
- 8.34 Hedberg, Kenneth, 1964 1971-1977
- 8.35 Hedeem, Karen, 1978
- 8.36 Heid, K. R., 1972
- 8.37 Hellner, D. E., 1973
- 8.38 Henry, N. F. M., 1970
- 8.39 Henze, Robert E., 1967
- 8.40 Herman, Roger, 1977
- 8.41 Hewlett Packard Co., 1975
- 8.42 Hewson, E. Wendell, 1971
- 8.43 Hexter, Robert M., 1975
- 8.44 Hickman, Sonya, 1980
- 8.45 Hieke, E., 1973
- 8.46 Hilderbrandt, Richard L., 1982
- 8.47 Hilton, John, 1971
- 8.48 Hitchcock, T. P., 1974
- 8.49 Hladyshevskii, E., 1974
- 8.50 Hodgkin, Dorothy, 1953 1975
- 8.51 Hodgkins, Joseph E., 1967
- 8.52 Hodson, Dale V., 1974
- 8.53 Hoelscher, A. Barry, 1975
- 8.54 Holladay, Howard P., 1980
- 8.55 Holm, Richard, 1975
- 8.56 Homan, William F., 1977
- 8.57 Homer, G. David, 1974
- 8.58 Honeywell, Virginia, 1974
- 8.59 Honjo, Goro, 1973
- 8.60 Hopkins, Ted E., 1980
- 8.61 Hopps, John H., Jr., 1962
- 8.62 Houghton Mifflin Company, 1977
- 8.63 Howick, Lester C., 1975
- 8.64 Hruby, Victor J., 1970
- 8.65 Huang, Tsao-Chin Clarence, 1981
- 8.66 Hudis, Jerry, 1980
- 8.67 Huestis, Laurence, 1973
- 8.68 Hughes, Edward, 1953 1963, 1966 1973
- 8.69 Hughes, Robert E., 1968, 1982
- 8.70 Huml, Karel, 1972
- 8.71 Hunegs, Harry, 1974
- 8.72 Hurd, Charles D., 1973
- 8.73 Hurlbut, Jeffrey A., 1972
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- 9.2 Ingle, James D., Jr., 1971
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- 9.6 Iriye, Ryoza, 1980
- 1.010 Correspondence, Administrative Records: International Union of Crystallography, 1962-1970, 1974-1976, 1978-1989

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- 1.011 International Union of Crystallography: Pilot Issues of the International Tables for Crystallography, 1970, 1977
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 - 12.4 Jeffrey, Hugh F., Jr., 1967
 - 12.5 Jenkins, John C., 1974
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 - 12.7 Jensen, Lyle, 1976
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 - 12.10 Johannes, Len, 1981
 - 12.11 Johnson, Carroll, 1974
 - 12.12 Johnson, C. S., Jr., 1974
 - 12.13 Johnson, Howard W., 1968
 - 12.14 Johnson, Julian F., 1972
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 - 12.16 Johnson, W. Curtis, 1981
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 - 12.19 Jones, E. D., 1967
 - 12.20 Jones, Oliver P., 1970
 - 12.21 Jordan, John, 1980
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 - 13.3 Kapek, Catharine, 1972
 - 13.4 Kaplan, E. L., 1975
 - 13.5 Karle, Jerome, 1965, 1967, 1979
 - 13.6 Kehl, Bettie, 1974
 - 13.7 Kehl, William L., 1966-1967
 - 13.8 Keil, John G., 1967
 - 13.9 Kelley, Alec E., 1971-1976
 - 13.10 Kelly, Harry C., 1961

- 13.11 Kelso, G. F., 1970
- 13.12 Kennard, Olga, 1964
- 13.13 Kennedy, George H., 1982
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- 13.15 Kestner, Mark Otto, 1973
- 13.16 Keszler, Douglas, 1988-1989
- 13.17 Kice, John L., 1970-1977
- 13.18 Killian, James R., Jr., 1951-1957
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- 13.21 Kindler, Hubert, 1953
- 13.22 King, Tsoo E., 1971
- 13.23 King, James N., 1976-1977
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- 13.25 Kinsinger, Jack B., 1971
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- 13.27 Kirsner, V., 1977
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- 13.38 Kohler, R. T., 1971
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- 13.40 Korean Chemical Society, 1973
- 13.41 Koskelo, Aaron Clyde, 1974-1978
- 13.42 Kovacic, Peter, 1972
- 13.43 Kraft, John R., 1978
- 13.44 Kramer, John B., 1975
- 13.45 Krauss, Robert W., 1973-1978
- 13.46 Krueger, James H., 1973-1978
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- 13.48 Krutsch, Roy, 1974
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 - 14.2 Landgrebe, John A., 1971
 - 14.3 Lang, S. M., 1967
 - 14.4 Langridge, Robert, 1975
 - 14.5 Lanigan, Thomas, 1971
 - 14.6 Larkins, Jim, 1972
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Box

2. Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1944-1985

The primary focus of the Scholarly Manuscripts series is David and Clara Shoemaker's decades-long research interest in the structure of transition-metal phases. Investigations of these and numerous other topics within the discipline of x-ray crystallography are documented by the dozens of manuscripts and research notebooks arranged within the series.

Also of interest are David Shoemaker's collection of lecture notes compiled as a Caltech graduate student - J. Robert Oppenheimer and Nobel laureate William A. Fowler were among his professors - as well as his work on the concept of hydrosmelectric power in the mid-1970s.

- 2.001 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1944-1947
 - 1.1 Manuscript Notes: "Modification of the Wilson-deVault theory to account for diffusion and lack of equilibrium," by David Shoemaker., February - March, 1944
 - 1.2 Class Notebook: "The Structure of Crystals I, " Professor J. H. Sturdivant, California Institute of Technology. Notes by David Shoemaker., November 1945 - May 1946
 - 1.3 Class Notebook: "Quantum Mechanics," Professors J. Robert Oppenheimer and Eldred Nelson, California Institute of Technology. Notes by David Shoemaker., March - June, 1946
 - 1.4 Class Notebook: "Optics," Professor William A. Fowler, California Institute of Technology. Notes by David Shoemaker., October - December, 1946
 - 1.5 Manuscript: "Time-independent Perturbation Theory in Quantum Mechanics," by David Shoemaker., January 26, 1947
 - 1.6 Research Notebook: "Crystals II," by David Shoemaker. California Institute of Technology., Spring 1947
 - 1.7 Manuscript Notes: "Electron deficiency calculations," by David Shoemaker., 1940s (These notes date to David Shoemaker's graduate studies at Caltech, ca. 1942-1947.)
- 2.002 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1947-1955
 - 2.1 Notes re: "Application of the Method of Steepest Descents to X-Ray Structure Analysis," by A. D. Booth. Notes written while in Denmark, September 4, 1947
 - 2.2 Notes re: a seminar on metals. [delivered by David Shoemaker?] Notes written while in Denmark, October 13, 1947
 - 2.3 Manuscript: "Fraunhofer diffraction for demonstration of electron diffraction (and x-ray diffraction)", 1947-1948
 - 2.4 Notes re: Boron, 1947-1948
 - 2.5 Bound collection of notes titled "Notes made at Bohr Institute, Copenhagen", 1947-1948
 - 2.6 Notes re: neutron diffraction, written while in London, March 12, 1948
 - 2.7 Notes, Correspondence, Program re: International Conference on the Physics of Metals, Amsterdam, The Netherlands, July 12-18, 1948
 - 2.8 Notes re: superconductivity, written while in London, February 9, 1949
 - 2.9 Typescript: "Notes on Methods of Silvering Glass Surfaces, and of Evacuating Glass Vessels Silvered on their Inner Surfaces," by David Shoemaker [?]., 1940s
 - 2.10 Manuscript, Typescript, Correspondence, Program, Background Material: "Molecular-Orbital and Valence-Bond Theories of Metallic Binding," and "The Crystal Structure of Some Intermetallic Compounds," lectures delivered by David Shoemaker. Gordon Research Conference on the Chemistry and Physics of Metals, American Association for the Advancement of Science, New Hampton, New Hampshire., July 3-7, 1950

- 2.11 Notes: "Fermi on Elementary Particles." Lecture notes taken by David Shoemaker., March 26 - April 13, 1951
- 2.12 Abstracts, Correspondence, Program, Background Material: "The Crystal Structure of DL-Serine," paper presented by David P. Shoemaker, Robert E. Barieau, Jerry Donohue and Chia-Si Lu; "Remarks on the Theory and Practice of Three-Dimensional Fourier, Least-Squares and Patterson Analysis," paper presented by Verner Schomaker and David P. Shoemaker; "The Crystal Structure of a Sigma Phase, FeCr," paper presented by B. Gunnar Bergman and David P. Shoemaker. International Union of Crystallography, Second General Assembly and International Congress, Stockholm, Sweden., June 27 - July 3, 1951
- 2.13 Internal Report: "The Determination of the Crystal Structure of the Sigma Phase," by B. Gunnar Bergman and David Shoemaker. Office of Naval Research grant, Technical Report No. 1., November 1951
- 2.14 Research Notebook: "The Delta Phase; Mo-Ni; Fox, Wilson, Shoemaker, Brink; Book 1." Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1952-1955
- 2.15 Research Notebook: "The Delta Phase; Mo-Ni. Book 2." Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1953-1954
- 2.003 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1953-1958
- 3.1 Research Notebook: "Book 3." [precession and intensity data for various transition-metal phases] Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1953-1955
- 3.2 Research Notebook: "Ethyl Corporation Consultation." Notes by David Shoemaker. Massachusetts Institute of Technology., 1954
- 3.3 Research Notebook: "FeV." Notes by David Shoemaker. Massachusetts Institute of Technology., 1954-1955
- 3.4 Internal Report: "Preliminary Structural Results of P Phase (Mo-Ni-Cr) and Delta Phase (Mo-Ni) and Structural Relationships of These and Other Phases to the Sigma Phase," by David P. Shoemaker, Clara Brink and Alwyn Fox. Department of Army grant, Technical Report No. 1., April 25, 1955
- 3.5 Research Notebook: "Book 4." [laboratory data and calculations pertaining to studies of various transition-metal phases] Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1955
- 3.6 Internal Report: "The Crystal Structure of the P Phase, Mo-Ni-Cr. II. Refinement of Parameters and Discussion of Atomic Coordination," by David P. Shoemaker, Clara Brink Shoemaker and Frank C. Wilson. Department of Army grant, Technical Report No. 2., April 15, 1956
- 3.7 Internal Report: "Study of Crystal Structures of Complex Metallic Phases," David P. Shoemaker, supervisor. Department of Army grant, Final Report., November 1, 1958
- 2.004 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1958-1966
- 4.1 Research Notebook: "P and R Phases Ordering; S phase. Book II." Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1958-1961
- 4.2 Notes: "Solar Constant," by David Shoemaker [?], 1950s
- 4.3 Notes re: solution to a mathematical riddle, by David Shoemaker [?], 1950s
- 4.4 Typescript: Review by David and Clara Shoemaker of *Applications of Finite Groups*, by J. S. Lomont., 1961
- 4.5 Typescript: Review by David Shoemaker of *Direct Analysis of Diffraction by Matter*, by R. Hosemann and S. N. Bagchi., August 9, 1962
- 4.6 Typescript, Galley Proof: Review by David Shoemaker of *Introduction to Ligand Field Theory*, by Carl J. Ballhausen., 1963
- 4.7 Research Notebook: "E, D, M phase; Book 8." Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1964
- 4.8 Research Notebook: "D, M; Book 9." Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1965
- 4.9 Research Notebook: "Book 10; E, D, I, M." [Includes letter from Paul A. Beck] Notes by Clara Shoemaker. Massachusetts Institute of Technology, 1965-1966
- 2.005 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1967-1973
- 5.1 Notes and Non-Shoemaker reprints re: phase determining methods., 1967-1968 (These materials date to David and Clara Shoemaker's 1967-1968 sabbatical at the University of Geneva.)
- 5.2 Correspondence, Non-Shoemaker Publications re: polywater (a.k.a. anomalous water), 1968-1970
- 5.3 Typescript, Correspondence, Notes, Background Material: "Further Remarks Concerning Optimization of Counting Times in Single-Crystal Diffractometry: Rebuttal to Killean; Considerations of Background Counting and Slewing Times," by David P. Shoemaker and Walter C. Hamilton., 1968-1973
- 5.4 Internal Report: "Low-Energy Electron Diffraction Studies of Metal Surfaces and Chemisorbed Molecules," David P. Shoemaker, Principal Investigator. National Science Foundation Grant, Final Report., October 25, 1969

- 5.5 Internal Report: "Combined X-ray and neutron diffraction study of the ordering of the atoms in transition group alloys," David P. Shoemaker and Clara B. Shoemaker. Computation Center Problem M545, Final Report., 1960s
- 5.6 Internal Report: "Low-Energy Electron Diffraction Studies of Structural Physisorption and Chemisorption," David P. Shoemaker, Chief Investigator. National Science Foundation Grant., February 1, 1970
- 5.7 Research Notebook: "K, V; Book 14." Notes by Clara Shoemaker. Oregon State University, 1970
- 5.8 Partial Manuscript: "The Greening of Crystallography." Speech delivered by David Shoemaker at a meeting of the American Crystallography Association, 1971
- 5.9 Typescript, Correspondence, Program: "The Scientific Work of Walter Clark Hamilton," lecture delivered by David Shoemaker. Walter C. Hamilton Symposium, sponsored by the Brookhaven National Laboratory and the American Crystallographic Association, Upton, New York., June 15, 1973
- 5.10 Typescript, Correspondence, Program, Background Material, Non-Shoemaker Reprints: "Well-Behaved Crystal Structures," lecture delivered by David Shoemaker. Conference on Critical Evaluation of Chemical and Physical Structures, Dartmouth College, Hanover, New Hampshire., June 24-29, 1973
- 2.006 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1973-1978
- 6.1 Research Notebook: "Mn₅Si₂ Vol. I." Notes by Clara Shoemaker. Oregon State University., 1973
- 6.2 Research Notebook: "Mn₅Si₂ Vol. II." Notes by Clara Shoemaker. Oregon State University., 1973-1974
- 6.3 Research Notebook: "D, K, R; Book 15." Notes by Clara Shoemaker. Oregon State University, 1973-1978
- 2.007 Materials re: the concept of hydrosmeoelectric power, 1973-1976
- 7.1 Typescript: "Hydrosmeoelectric Power," by David Shoemaker., September 3, 1974
- 7.2 Correspondence, Notes re: the concept of hydrosmeoelectric power., 1972, 1974-1976
- 7.3 Non-Shoemaker Publications re: the concept of hydrosmeoelectric power and related ideas., 1973-1976
- 2.008 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1974-1979
- 8.1 Research Notebook: "Mn₅Si₂ Vol. III." Notes by Clara Shoemaker. Oregon State University., 1974-1975
- 8.2 Research Notebook: "R; Chemistry." Notes by Clara Shoemaker. Oregon State University., 1976-1977
- 8.3 Assorted Notes re: transition metals and hydrogen, 1976-1979 (These materials date to David and Clara Shoemaker's 1978-1979 sabbatical at the University of Geneva.)
- 8.4 Research Notebook: "Cyber I." Notes by Clara Shoemaker. Oregon State University., 1977
- 2.009 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1977-1980
- 9.1 Research Notebook: "Cyber II." Notes by Clara Shoemaker. Oregon State University., 1977
- 9.2 Research Notebook: "Cyber III." Notes by Clara Shoemaker. Oregon State University., 1977-1979
- 9.3 Research Notebook: "I phase; -Mn; Book 16." Notes by Clara Shoemaker. Oregon State University, 1977-1980
- 9.4 Notes and Non-Shoemaker reprints re: atomic sites and hydrogen absorption in AxBy Friauf-Laves phases., 1978-1979 (These materials date to David and Clara Shoemaker's 1978-1979 sabbatical at the University of Geneva.)
- 9.5 Manuscript Notes: "Fourier Transforms, Foldings and Delta Functions - Some Applications to Crystallography." Lecture by David Shoemaker, Kemisk Insitut, Aarhus Universitet, Denmark., June 12, 1979
- 9.6 Manuscript Notes: "Electrostatic Energy of Discrete Charges and Multipoles." Lecture by David Shoemaker, Kemisk Insitut, Aarhus Universitet, Denmark., June 14, 1979
- 9.7 Manuscript Notes: "Alloy Hydrides." Lecture by David Shoemaker, Kemisk Insitut, Aarhus Universitet, Denmark., June 21, 1979
- 9.8 Manuscript Notes: "Superionic Conductivity." Lecture by David Shoemaker, Kemisk Insitut, Aarhus Universitet, Denmark., June 26, 1979 (Includes notes and correspondence by David Shoemaker re: "Pillbox modification function.")
- 2.010 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1979-1983
- 10.1 Research Notebook: "Cyber IV." Notes by Clara Shoemaker. Oregon State University., 1979-1983
- 10.2 Notes, Visual Aids: "Why are Metal Hydrides (and Alloy Hydrides) Becoming Increasingly Interesting?" Lecture by David Shoemaker., 1970s
- 10.3 Abstracts, Correspondence, Program: "Neutron Diffraction Study Investigation of the Mn₂₃Y₆ Deuterides" and "Neutron Diffraction Studies of the Cubic ZrCr₂D_x(H_x) Phases," presentations by David and Clara Shoemaker. International Symposium on the Properties and Applications of Metal Hydrides, Colorado Springs, Colorado., April 7-11, 1980

- 10.4 Manuscript, Correspondence, Notes, Background Materials: "Mt. St. Helens Volcanic Ash," by W. H. Slabaugh., 1980 (Clara Shoemaker performed a crystallographic analysis of Mt. St. Helens ash for use in Slabaugh's manuscript.)
- 10.5 Research Notebook: "P-phase; P phase powder data; Book 5. Contains 1980 (1981) stuff from OSU." Notes by Clara Shoemaker. Massachusetts Institute of Technology; Oregon State University, 1980-1981
- 10.6 Manuscript Notes: "Research Proposition - Asymmetric Synthesis," by David Shoemaker., October - November 1981
- 10.7 Manuscript Notes: "The 'Exclusion Rule' in C15 Hydrides and the Configurational Entropy," by David Shoemaker., May 1982
- 2.011 Scholarly Manuscripts, Laboratory Notebooks and Research Interests, 1985, undated
- 11.1 Research Notebook: "Shoemaker/McAfee; (MoO₃)₃ • 18 • CR - 6 • 1.5 H₂O." Notes by Clara Shoemaker. Oregon State University., 1985
- 11.2 X-ray Crystallographic Photographs: various forms of Cyclooctatetraenecarboxylic Acid., undated
- 11.3 Assorted Research Notes by David and Clara Shoemaker.,

Box**3. Publications, 1943-1994**

- 3.001 Publications by David and Clara Shoemaker, 1947-1994 [The bulk of David and Clara Shoemaker's scientific publications are available in this series, including many of the thirty-eight papers that the couple published jointly.]
- 1.1 A Capillary-Type Viscometer: For Use with Solutions Containing Volatile Solvents, with Application to Measurements of Viscosities of Nitrocelluloses. *Analytical Chemistry*, Vol. 19. [David P. Shoemaker, Earl Hoerger, Richard M. Noyes and Robert H. Blaker], 1947
- 1.2 Study of the Berthelot Method for Determining the Tensile Strength of a Liquid. *The Journal of Chemical Physics*, Vol. 16, No. 5 [David P. Shoemaker, Arthur F. Scott, K. Nolen Tanner and James G. Wendel], May 1948
- 1.3 A Method for Calculating the Energy of a Bloch Wave in a Metal. *Physica*, Vol. 14, No. 1-2 [David P. Shoemaker], April 1949
- 1.4 The Crystal Structure of L8-Threonine. *Journal of the American Chemical Society*, [David P. Shoemaker, Jerry Donohue, Verner Schomaker and Robert B. Corey], 1950
- 1.5 The Crystal Structure of a Sigma Phase, FeCr. *Journal of the American Chemical Society*, [David P. Shoemaker and Bror Gunnar Bergman], 1950
- 1.6 The Space Group of the -FeCr Crystal Structure. *The Journal of Chemical Physics*, Vol. 19, No. 4 [David P. Shoemaker and Gunnar Bergman], April 1951
- 1.7 Interatomic Distances and Atomic Valences in NaZn₁₃. *Acta Crystallographica*, Vol. 5, Part 5 [David P. Shoemaker, Richard E. Marsh, Fred J. Ewing and Linus Pauling], September 1952
- 1.8 The Crystal Structure of NaPb. *Acta Crystallographica*, Vol. 6, Part 2 [David P. Shoemaker and Richard E. Marsh], February 1953
- 1.9 The Crystal Structure of DL-Serine. *Acta Crystallographica*, Vol. 6, Part 3 [David P. Shoemaker, Robert E. Barieau, Jerry Donohue and Chia-Si Lu], March 1953
- 1.10 A Systematic Method for Calculating Volumes of Polyhedra Corresponding to Brillouin Zones. *Acta Crystallographica*, Vol. 7, Part 3 [David P. Shoemaker and T. C. Haung], March 1954
- 1.11 On the Structure of the Heteropoly Anion in Ammonium 9-Molybdomanganate, (NH₄)₆MnMo₉O₃₂•8H₂O. *Acta Crystallographica*, Vol. 7, Part 5 [David P. Shoemaker, John L. T. Waugh and Linus Pauling], May 1954
- 1.12 The Determination of the Crystal Structure of the Phase in the Iron-Chromium and Iron-Molybdenum Systems. *Acta Crystallographica*, Vol. 7, Part 12 [David P. Shoemaker and Gunnar Bergman], December 1954
- 1.13 On the Dubious Existence of a Second Na₄Pb Phase (Na₃Pb₈). *Journal of the American Chemical Society*, [David P. Shoemaker, Norman E. Weston and Jørgen Rathlev], 1955
- 1.14 A Variation on the -Phase Structure: The Crystal Structure of the P Phase, Mo-Ni-Cr. *Acta Crystallographica*, Vol. 8, Part 11 [David P. Shoemaker and Clara Brink], November 1955
- 1.15 X-Ray Crystallographic Data for Metal Cyclopentadienyl Carbonyl Compounds. *Sonderdruck aus Naturwissenschaften*, [David P. Shoemaker and Frank C. Wilson], 1956

- 1.16 Symposium on Structure and Properties of Heteropoly Anions. American Chemical Society. [David P. Shoemaker, et al.], September 1956
- 1.17 The Crystal Structure of the P Phase, Mo-Ni-Cr. II. Refinement of Parameters and Discussion of Atomic Coordination. *Acta Crystallographica*, Vol. 10, Part. 1 [David P. Shoemaker, Clara Brink Shoemaker and Frank C. Wilson], January 1957
- 1.18 A Further Comment on Na₈Pb₃₁. *Journal of Physical Chemistry*, [David P. Shoemaker and Norman E. Weston], 1957
- 1.19 Molecular Structure of bis-[Cyclopentadienyl Molybdenum Tricarbonyl]. *The Journal of Chemical Physics*, Vol. 27, No. 3 [David P. Shoemaker, Clara Brink Shoemaker and Frank C. Wilson], September 1957
- 1.20 Barrier to Rotation about the Metal-Cyclopentadienyl Bond. *The Journal of Chemical Physics*, Vol. 31, No. 5 [David P. Shoemaker, J. S. Waugh, J. H. Loehlin and F. A. Cotton], November 1959
- 1.21 X-Ray Diffraction Studies of the P Phase, Mo-Ni. *Acta Crystallographica*, Vol. 13, Part 8 [David P. Shoemaker, Clara B. Shoemaker and Alwyn H. Fox], August 1960
- 1.22 The Crystal Structure of the R Phase, Mo-Co-Cr. *Acta Crystallographica*, Vol. 13, Part 8 [David P. Shoemaker, Yukitomo Komura and William G. Sly], August 1960
- 1.23 Computer Programming Strategy for Crystallographic Fourier Synthesis: Program MIFR1. *Acta Crystallographica*, Vol. 14, Part 5 [David P. Shoemaker and William G. Sly], May 1961
- 1.24 The Crystal Structure of the P Phase, Mo-Ni. *Acta Crystallographica*, Vol. 16, Part 10 [David P. Shoemaker and Clara Brink Shoemaker], October 1963
- 1.25 Interatomic Distances and Atomic Radii in Intermetallic Compounds of Transition Elements. *Transactions of The Metallurgical Society of AIME*, Vol. 230 [David P. Shoemaker and Clara B. Shoemaker], April 1964
- 1.26 Low-Energy Electron Diffraction Study of Vacuum-Cleaved (110) Cadmium Telluride. *Surface Science*, [David P. Shoemaker and L. G. Feinstein], 1965
- 1.27 Structural Influence on Cracking Catalyst Activity and Selectivity. *Proceedings of the Third International Congress on Catalysis*, [David P. Shoemaker, C. E. Adams and C. N. Kimberlin Jr.], 1965
- 1.28 Neutron Diffraction Studies of the Order of the Atoms in the P Phase and the R Phase. *Acta Crystallographica*, Vol. 18, Part 1 [David P. Shoemaker, Clara B. Shoemaker and John Mellor], January 1965
- 1.29 A Ternary Alloy with PbCl₂-type Structure: TiNiSi(E). *Acta Crystallographica*, Vol. 18, Part 5 [David P. Shoemaker and Clara Brink Shoemaker], May 1965
- 1.30 The Crystal Structure of Cyclooctatetraenecarboxylic Acid. *Journal of the American Chemical Society*, [David P. Shoemaker, Hubert Kindler, William G. Sly and Ramesh C. Srivastava], 1965
- 1.31 The Structure of Bromine Sorption Complex in Synthetic Zeolite Sodium-A. *Zeitschrift für Kristallographie*, [David P. Shoemaker and L. G. Feinstein], 1967
- 1.32 Polarized Neutron Diffraction Study of Ordered Vfe. *J. Phys. Chem. Solids*, Vol. 29 [David P. Shoemaker and W. M. Meier], 1966
- 1.33 The Crystal Structures of Hydrated and Dehydrated Synthetic Zeolites with Faujasite Aluminosilicate Frameworks. I. The Dehydrated Sodium, Potassium, and Silver Forms. *Journal of Physical Chemistry*, [David P. Shoemaker, G. R. Eulenberger and J. G. Keil], 1967
- 1.34 On the Structure of the I Phase (V-Ni-Si) and the S Phase (Mn-Co-Si). *Transactions of the Metallurgical Society of AIME*, Vol. 239 [David P. Shoemaker and Clara Brink Shoemaker], January 1967
- 1.35 The Crystal Structure of the M Phase, Nb-Ni-Al. *Acta Crystallographica*, Vol. 23, Part 2 [David P. Shoemaker and Clara Brink Shoemaker], August 1967
- 1.36 The Structures of Zeolite Sorption Complexes. I. The Structures of Dehydrated Zeolite 5A and its Iodine Sorption Complex. *Acta Crystallographica*, Vol. 22, Part 2 [David P. Shoemaker and Karl Seff], February 1967
- 1.37 Sigma-Phase-Related Transition-Metal Structures with Tetrahedral Interstices. *Structural Chemistry and Molecular Biology: A Volume Dedicated to Linus Pauling by his Students, Colleagues and Friends*, [David P. Shoemaker and Clara Brink Shoemaker], 1968
- 1.38 Optimization of Counting Times in Computer-Controlled X-Ray and Neutron Single-Crystal Diffractometry. *Acta Crystallographica*, Vol. A 24, Part 1 [David P. Shoemaker], January 1968
- 1.39 On Refinement of the Crystal Orientation Matrix and Lattice Constants with Diffractometer Data. *Acta Crystallographica*, Vol. A 26, Part 6 [David P. Shoemaker and Gérard Bassi], January 1970
- 1.40 On Refinement of the Crystal Orientation Matrix and Lattice Constants with Diffractometer Data. II. *Journal of Applied Crystallography*, Vol. 3, Part 5 [David P. Shoemaker], June 1970

- 1.41 The Conformation and Absolute Configuration of (–)-trans-Cyclooctene. *Journal of the American Chemical Society*, [David P. Shoemaker, Philip C. Manor and Alan S. Parkes], 1970
- 1.42 Tetraedrisch Dicht Gepackte Strukturen von Legierungen der Übergangsmetalle. *Monatshefte für Chemie*, [David P. Shoemaker and Clara Brink Shoemaker], 1971
- 1.43 On Structures of Transition-Metal Phases with Approximately 30 At. Pct Si. *Metallurgical Transactions*, Vol. 2 [David P. Shoemaker and Clara Brink Shoemaker], August 1971
- 1.44 The Crystal Structure of the ν Phase, $Mn_{81.5}Si_{18.5}$. *Acta Crystallographica*, Vol. B 27 [David P. Shoemaker and Clara Brink Shoemaker], January 1971
- 1.45 The Crystal Structure of NbCoB. *Acta Crystallographica*, Vol. B 27, Part 2 [David P. Shoemaker, Clara B. Shoemaker, P. I. Krypyakevich, Yu. B. Kuz'ma and Yu. V. Voroshilov], February 1971
- 1.46 The Dirac Delta Function and the Density of States of Several Systems. *Journal of Chemical Education*, Vol. 49 [David P. Shoemaker], September 1972
- 1.47 The Crystal Structure of the X Phase (Mn, Co, Si). *Acta Crystallographica*, Vol. 28, Part 4 [David P. Shoemaker, Phillip C. Manor and Clara B. Shoemaker], April 1972
- 1.48 Synthesis and Crystal Structure of Zeolite Rho- A New Zeolite Related to Linde Type A. *Advances in Chemistry Series*, No. 121 [David P. Shoemaker, Harry E. Robson, Roberta A. Ogilvie and Philip C. Manor], 1973
- 1.49 Relationships Between Structures Derived from Complex Halogenides R_2MX_3 . *Zeitschrift für Kristallographie*, [Clara Brink Shoemaker], 1973
- 1.50 Well-Behaved Crystal Structure Determinations. *Critical Evaluation of Chemical and Physical Structural Information*, [David P. Shoemaker], 1974
- 1.51 Zeolite "Rho" and the Sigma Transformation. *ACA Abstracts*, [David P. Shoemaker, H. E. Robson, L. Broussard, R. A. Ogilvie and P. C. Manor], Spring 1974
- 1.52 Crystal Data for Mn_5Si_2 . *J. of Appl. Crystallography*, Vol. 8, Part 1 [J. P. Sénateur, R. Fruchart and Clara Brink Shoemaker], February 1975
- 1.53 Book Reviews: Anomalous Scattering. *Ferroelectrics*, Vol. 14 [David P. Shoemaker], 1976
- 1.54 The Crystal Structure and Superstructure of the K Phase, $Mn_{77}Fe_4Si_{19}$. *Acta Crystallographica*, [David P. Shoemaker and Clara Brink Shoemaker], 1977
- 1.55 Refinement of the Structure of ν -Manganese and of a Related Phase in the Mn-Ni-Si System. *Acta Crystallographica*, [David P. Shoemaker and Clara Brink Shoemaker], 1978
- 1.56 Refinement of an R Phase, $Mn_{85.5}Si_{14.5}$. *Acta Crystallographica*, [David P. Shoemaker and Clara Brink Shoemaker], 1978
- 1.57 Concerning Atomic Sites and Capacities for Hydrogen Absorption in the AB_2 Friauf-Laves Phases. *Journal of the Less-Common Metals*, [David P. Shoemaker and Clara Brink Shoemaker], 1979 (Includes correspondence regarding the publication of this paper as well as the scientific conclusions that it reaches.)
- 1.58 Short Communications: A Comment on Structural Relationships Among Tris(ethylenediamine) Complexes $M(en)_3X_m$. *Acta Crystallographica*, [David P. Shoemaker and Clara Brink Shoemaker], 1980
- 1.59 Color of Jupiter's Spot. *Chemical & Engineering News*, [David P. Shoemaker], October 29, 1981
- 1.60 Structure of (+)-Methyl 7,7-Ethylenedioxy-cis-4a,5,6,7,8, 8a-Hexahydro-4a-coumarincarboxylate, $C_{13}H_{16}O_6$, and the Configuration of the 1,3-Dioxolane Ring. *Acta Crystallographica*, [David P. Shoemaker, Clara B. Shoemaker, Sara L. Barkowski, Richard J. French and M. Rahim Kazerouni], 1983
- 1.61 Chapter 3: The U.S.A. National Committee for Crystallography. *Crystallography in North America*. National Committee for Crystallography. American Crystallographic Association, [David P. Shoemaker], 1983
- 1.62 Chapter 7: The Shoemaker Research Group at MIT, 1951-1970. *Crystallography in North America*. American Crystallographic Association, [David P. Shoemaker], 1983
- 1.63 Structure of a New Modification of Bromobis(N,N-diethyldithiocarbamate)iron(II), $Fe[S_2CN(C_2H_5)_2]_2Br$. *Acta Crystallographica*, [Clara B. Shoemaker, S. Decurtins, H. H. Wickman], 1983
- 1.64 The Structure of a New Magnetic Phase Related to the Sigma Phase: Iron Neodymium Boride $Nd_2Fe_{14}B$. *Acta Crystallographica*, [David P. Shoemaker and Shoemaker, Clara Brink], 1984
- 1.65 Structure of Diaquaodiperoxomolybdenum(VI)-1, 4,7,10,13,16-Hexaoxacyclooctadecane (18-Crown-6) Monohydrate, $[MoO(O_2)_2(H_2O)_2 \cdot C_{12}H_{24}O_6 \cdot H_2O]$. *Acta Crystallographica*, [David P. Shoemaker, Clara B. Shoemaker, Lyle V. McAfee and Carroll W. DeKock], 1985
- 1.66 Structure of Hydronium-1,4,7,10,13,16-Hexaoxacyclooctadecane (18-Crown-6)-Hexamolybdate(VI) (2/2/1). *Acta Crystallographica*, [David P. Shoemaker, Clara B. Shoemaker, Lyle V. McAfee and Carroll W. DeKock], 1986

- 1.67 Concerning the Relative numbers of Atomic Coordination Types in Tetrahedrally Close Packed Metal Structures. *Acta Crystallographica*, Vol. B 42 [David P. Shoemaker and Clara Brink. Shoemaker], 1986
- 1.68 Structure of μ -MnAl₄, a Crystalline Phase with Composition Close to that of Quasicrystalline Phases. *Physical Review*, Vol. 38, No. 12 [Clara Brink Shoemaker], October 1988
- 1.69 On the Relationship Between μ -MnAl_{4.12} and the Decagonal Mn-Al Phase. *Philosophical Magazine B*, Vol. 67, No. 6 [Clara Brink Shoemaker], 1993
- 1.70 Three-Dimensional Model of Structural Transformation from Icosahedral to Hexagonal Structure (μ Al₄Mn). *Journal of Non-Crystalline Solids*, [Clara B. Shoemaker and A. Le Lann], 1993
- 1.71 Structural Relationships Between Crystalline Approximant Phases and the Decagonal Mn-Al Phase. *Materials Science Forum*, Vols. 150-151 [Clara B. Shoemaker], 1994
- 3.002 Non-Shoemaker Publications and Reprints, 1929, 1943, 1951-1978
- 2.1 Non-Shoemaker Reprints re: electron polarization, 1929, 1943, 1963-1970
- 2.2 Non-Shoemaker Reprints, 1951-1969
- 2.3 Non-Shoemaker Reprints, 1970-1978

Box**4. Undergraduate Instruction and Graduate Supervision, 1952-1982**

Series 4 contains close documentation of David Shoemaker's contributions to a three-course lecture survey on X-ray science, offered in the late 1970s by the Oregon State University chemistry department. David and Clara Shoemaker's supervision and mentorship of graduate students at both OSU and the Massachusetts Institute of Technology are likewise represented by the large collection of their students' research notebooks, masters theses and doctoral dissertations arranged within the series.

- 4.001 Lecture Notes and Assorted Materials re: "Machine Sources of X-Rays," General Science 461, taught by David Shoemaker, Oregon State University, 1975-1979
- 1.1 Lecture Manuscripts and Typescripts: "Basic X-Ray Circuit," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.2 Lecture Manuscripts and Typescripts: "Basic X-Ray Machine Circuit," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.3 Lecture Manuscripts and Typescripts: "Biological Effects of Radiation," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.4 Lecture Manuscripts and Typescripts: "Fluoroscopy," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.5 Lecture Manuscripts and Typescripts: "Fundamental Atomic Structure," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.6 Lecture Manuscripts and Typescripts: "History and Properties of X-Rays," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.7 Lecture Manuscripts and Typescripts: "History of Radiation Protection," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.8 Lecture Manuscripts and Typescripts: "Megavoltage Machine Sources of X-Rays," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.9 Lecture Manuscripts and Typescripts: "Polyphase and Special Purpose X-Ray Systems," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.10 Lecture Manuscripts and Typescripts: "Radiation Protection Guide," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.11 Lecture Manuscripts and Typescripts: "Radiation Quantities and Units," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.12 Lecture Manuscripts and Typescripts: "Rectification," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.13 Lecture Manuscripts and Typescripts: "Transformers," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978

- 1.14 Lecture Manuscripts and Typescripts: "X-Ray Equipment in Industry," GS 461, class taught by David Shoemaker, Oregon State University, 1975
- 1.15 Lecture Manuscripts and Typescripts: "X-Ray Production," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
- 1.16 Lecture Manuscripts and Typescripts: "X-Ray Timers," GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
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- 1.18 Laboratory Assignments: GS 461, class taught by David Shoemaker, Oregon State University, 1975-1978
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- 2.1 Correspondence, Administrative Records re: "X-Ray Science" course series, Oregon State University, 1973, 1976, 1978-1979, 1982
- 2.2 Materials re: library reference books for use by students in GS 461-463, 1975-1976, 1980-1981
- 2.3 Materials re: facilities and laboratory rules for students in GS 461-463, 1969
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- 11.1 John H. Hopps, Jr. "Hopps; Thesis." Massachusetts Institute of Technology., 1959
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- 27.1 H. H. Wickman. "Wickman; G. Chapp; W. Sly; Book 1." Massachusetts Institute of Technology., 1973
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- 28.1 Frank C. Wilson. "Wilson 1; (CH)₆-W-(CO)₆-W-(CH)₅." Massachusetts Institute of Technology., 1954
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- 28.4 Frank C. Wilson. "MoNi delta-phase; Book 13." Massachusetts Institute of Technology, 1954-1958
- 4.029 Shoemaker Graduate Students: Research Notebooks (Yindepit), 1977
- 29.1 Somrat Yindepit. "Yindepit; Summer Research; Book 1." Oregon State University., 1977
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Box**5. Photographs and Biographical Materials, 1947, 1972-1985, 2000**

This small series contains a handful of photographs - including a set of images dating to a Conference on Current Problems of Physics, hosted by Niels Bohr and colleagues in 1947 - and biographical materials, including monthly calendars kept by David Shoemaker during his tenure as chair of the Oregon State University chemistry department.

5.001 Photographs, 1947, 1972, 1976-1978

- 1.1 Photographs Series: Group photo and informal snapshots from the Conference on Current Problems of Physics. Copenhagen, Denmark., September 1947 (Series of nine images. Individuals depicted include David Shoemaker and Niels Bohr.)
- 1.2 Photograph: David Shoemaker and Max Williams, Assistant Chair of the Oregon State University Chemistry Department, posing together in an office. Gilbert Hall., 1972
- 1.3 Group Photograph: Department Chairmen, College of Science, Oregon State University, June 29, 1976 (Individuals depicted include Ernst J. Dornfeld, James R. Brown, Paul R. Elliker, Theran D. Parsons, Robert W. Krauss, Lyle D. Calvin, Robert A. Short, Larry Schecter, Thomas C. Moore, David P. Shoemaker, Olaf A. Boedtker, Richard M. Highsmith, Robert W. Newburgh, David L. Willis, Harold E. Enlows, E. Wendell Hewson, W. Lawrence Gates and John D. Lattin.)
- 1.4 Photograph: Clara Shoemaker examining a model of the K Phase, Mn₇₇Fe₄Si₁₉, 1977
- 1.5 Photograph: David Shoemaker, Linus Pauling and F. Sherwood Rowland, seated together in Shoemaker's office, Oregon State University, 1978

5.002 Curricula Vitae and Biographical Abstracts, 1979-1985, 2000

- 2.1 Curriculum Vitae and Biographical Abstracts: David Powell Shoemaker, 1979-1985, undated
- 2.2 Curriculum Vitae and Biographical Abstracts: Clara Brink Shoemaker, 2000, undated

5.003 Monthly Calendars Kept by David Shoemaker, 1972-1982

- 3.1 Monthly Calendar: 1972, 1972
- 3.2 Monthly Calendar: 1973-1974, 1973-1974
- 3.3 Monthly Calendar: 1974, 1974
- 3.4 Monthly Calendar: 1975, 1975
- 3.5 Monthly Calendar: 1976, 1976
- 3.6 Monthly Calendar: 1977, 1977
- 3.7 Monthly Calendar: 1977-1978, 1977-1978
- 3.8 Monthly Calendar: 1979-1980, 1979-1980
- 3.9 Monthly Calendar: 1981, 1981
- 3.10 Monthly Calendar: 1982, 1982

6. Artifacts, 1950s, 1977 undated

An apparatus for storing and analyzing Beevers-Lipson strips, a large model of the K Phase 77Fe₄Si₁₉ and smaller models of assorted zeolite structures comprise the Artifacts series.

6.001. Collection of Beevers-Lipson strips for Fourier Summation, 1950s

6.002. Model of the crystal structure of the K Phase Mn₇₇Fe₄Si₁₉, constructed by Clara Shoemaker, David Shoemaker and Ted Hopkins, 1977 (Accompanying model are two posters used in conjunction with a poster demonstration of the structure.)

6.003. Models of assorted zeolite structures, constructed by Clara Shoemaker, undated (9 models)

7. Shoemaker Personal Library, 1905-1994

Texts on advanced mathematics, physics and chemistry form the heart of the Shoemaker Personal Library.

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