

Werner Ulrich's Home Page: *C.W. Churchman*

*A Bibliography of C.W. Churchman's Writings
from 1938 to 2001*



HOME
WERNER ULRICH'S BIO
PUBLICATIONS
READINGS ON CSH
DOWNLOADS
HARD COPIES
CRITICAL SYSTEMS
HEURISTICS (CSH)
CST FOR PROFESSIONALS
& CITIZENS

**A TRIBUTE TO
C.W. CHURCHMAN –
SUBPAGES :**

- INTRODUCTION
- OBITURARY NOTICE
(25 MARCH 2004)
- C.W.CHURCHMAN
(1913-2004)
PICTURE OF THE MONTH
OF APRIL 2004
- AN APPRECIATION OF
C.W. CHURCHMAN
- **A BIBLIOGRAPHY OF
C.W. CHURCHMAN'S
WRITINGS, 1938-2001**
- HONORING
C.W. CHURCHMAN:
FUTURE-RESPONSIVE
MANAGEMENT
- IN MEMORY OF
C.W. CHURCHMAN:
REMINISCENCES,
RETROSPECTIVES, AND
REFLECTIONS (PDF)
- CHURCHMAN'S PROCESS
OF UNFOLDING [IN PREP.]

LUGANO SUMMER SCHOOL

ULRICH'S BIMONTHLY
(formerly Picture of the Month)

COPYRIGHT NOTE

A NOTE ON PLAGIARISM

CONTACT

SITE MAP

A Bibliographic Note on this Bibliography

This is an updated and considerably expanded version of a bibliography that was first published in 1999 as an appendix to the essay "An appreciation of C. West Churchman (with an extensive bibliography from 1938 to 2001)" in the Section "Luminaries of the Systems Approach" of the web site of the International Society for the Systems Sciences (ISSS), under the following original URL (no longer valid): <http://www.issis.org/lumCWC.htm> . That first on-line version of 1999 was later (in January 2005) reformatted as a public Wiki page and relocated to http://projects.issis.org/c_west_churchman .

In 2002, the bibliography was first expanded to a complete list of all of Churchman publications known to the author at that time and was made available as a separate publication in the present site. It has been continuously updated since – with a last major revision and extension on 10 April 2006 – and will be further updated whenever the author becomes aware of omissions or errors. Any help in this will be welcome; please use the email link given in the right hand column here or in the "Contact" page of this web site. Thank you.

Suggested form of citation: Ulrich, W. (2002). A bibliography of C.W. Churchman's writings from 1938 to 2001. *Werner Ulrich's Home Page, Section "A Tribute to C.W. Churchman"*, http://www.geocities.com/csh_home/cwc_bibliography.html, last updated 10 April 2006 [date last accessed].

Key words: C.W. Churchman – bibliography; operations research; management science; philosophy of science; social systems design; systems approach; systems thinking.

The Bibliography

a) Single-Authored and Co-Authored Books

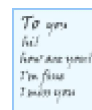
Towards a General Logic of Propositions. Ph.D. Dissertation, Dept. of Philosophy, University of Pennsylvania, Philadelphia, 1938.

Elements of Logic and Formal Science. Lippincott, New York, 1940.

Revised version of
27 March 2009

Copyright © 1999-2009
PDF file

Hints regarding missing or erroneous entries in this bibliography are welcome. Please use this email link:



Psychologistics. Mimeographed, University of Pennsylvania Press, Philadelphia, 1946 (with R.L. Ackoff). [Revised ed., mimeographed, University of Pennsylvania Faculty Research Fund, Philadelphia, 1947].

Theory of Experimental Inference. Macmillan, New York, 1948. 2nd printing 1954.

Methods of Inquiry: An Introduction to Philosophy and Scientific Method. Educational Publishers, St. Louis, Missouri, 1950 (with R.L. Ackoff).

Frankford Arsenal Statistical Manual: Methods of Making Experimental Inferences. Pittman-Dunn Laboratory, Frankford Arsenal, Philadelphia, 1951.

Introduction to Operations Research. Wiley, New York, 1957 (with R.L. Ackoff and E.L. Arnoff). 3rd printing 1958. [Modern Asia Edition (in English): Mitsumara Printing, Tokyo, 1960. Cuban edition (in English): Edición Revolucionaria, La Habana, Cuba, 1966. Japanese transl.: Kinokuniya Shoten, Tokyo, 1958. French transl.: *Eléments de recherche opérationnelle*, Dunod, Paris, 1961. German transl.: *Operations Research: Eine Einführung in die Unternehmensforschung*, Oldenbourg, Vienna, Austria, 1961. Slovak transl.: *Úvod do operacného výskumu*, Alfa, Bratislava, Slovakia, 1968. Spanish transl.: *Introducción a la investigación operativa*, Aguilar, Madrid, 1971].

Prediction and Optimal Decision: Philosophical Issues of a Science of Values. Prentice-Hall, Englewood Cliffs, New Jersey, 1961. [Earlier version: *Costs, Utilities, and Values*, Sections I and II, Case Institute of Technology Press, Cleveland, Ohio, 1956. Reprint ed. of the 1961 book, Greenwood Publishing Group, Westport, Connecticut, 1982].

Challenge to Reason. McGraw-Hill, New York, 1968. [Italian transl.: *Filosofia e Scienza dei Sistemi*, Istituto Librario Internazionale, Milan, 1971. Japanese transl., Takeuchi Shoten Ltd., Tokyo, 1971. German transl.: *Philosophie des Managements, Ethik von Gesamtsystemen und gesellschaftliche Planung*, Erich Jantsch, transl., Rombach, Freiburg, 1973, 2nd printing Paul Haupt, Bern, 1981].

The Systems Approach. Delacorte Press, New York, 1968. Paperback edition Delta Book/ Dell Publishing, New York, 1969. 2nd ed., revised and updated, 1979. [German transl.: *Einführung in die Systemanalyse*, Moderne Industrie, 1970, and Ex Libris, Zurich, 1974. Italian transl.: *Introduzione all'analisi per sistemi*, Etas Kompass, Milano, 1971. French transl.: *Qu'est-ce que l'analyse par les systèmes?* Dunod, Paris, 1974. Hungarian transl.: *Rendszerszemlélet*. Statisztikai Kiadó Vállalat, Budapest, 1974].

The Design of Inquiring Systems: Basic Concepts of Systems and Organization. Basic Books, New York, 1971. [German transl.: *Die Konstruktion von Erkenntnissystemen, Grundlagen für die System- und*

Organisationstheorie, Herder & Herder, Frankfurt a.M., 1973. Partial French transl: *Le design des systèmes chercheurs, Fondements conceptuels de l'étude des systèmes et des tous organisés*, Extraits traduits par N. Lacharité, Presses de l'Université du Québec, Sainte-Foy (Québec), Canada, 1988].

The Systems Approach and Its Enemies. Basic Books, New York, 1979. [Commented German transl.: *Der Systemansatz und seine "Feinde,"* with an Introduction by the editor and translator, Werner Ulrich, ed. and transl., Paul Haupt, Bern, 1981].

Thought and Wisdom. Intersystems Publications, Seaside, CA, 1982.

b) Selected Edited Collections

Measurement of Consumer Interest, ed. by C.W. Churchman, R.L. Ackoff, and M. Wax, University of Pennsylvania Press, Philadelphia, 1947.

Experience and Reflection by Edgar A. Singer, Jr., ed. by C.W. Churchman, University of Pennsylvania Press, Philadelphia, 1959.

Measurement: Definitions and Theories, ed. by C.W. Churchman and P. Ratoosh, Wiley, New York, and Chapman & Hall, London, 1959.

Management Sciences: Models and Techniques, ed. by C.W. Churchman and M. Verhulst, Pergamon, New York, 1960.

Design Methods and Theories, Special Issue of the Journal of the Design Methods Group and Design Research Society, 10, No. 3, 1976, C.W. Churchman, guest ed.

Systems and Management Annual 1975, ed. by C.W. Churchman, Petrocelli/Charter, New York, 1975.

Thinking for Decisions: Deductive Quantitative Methods, ed. by C.W. Churchman, L. Auerbach, and S. Sadan, Science Research Associates, Chicago, Ill., 1975.

World Modeling: A Dialogue, ed. by C.W. Churchman and R.O. Mason, North-Holland/ American Elsevier, 1976

Natural Resources Administration: Introducing a New Methodology for Management Development, ed. by C.W. Churchman, A.H. Rosenthal, and S.H. Smith, Westview Press, Boulder, Colorado, 1984.

The Well-Being of Organizations, ed. by C.W. Churchman, Intersystems Publications, Salinas, CA, 1989.

Philosophical Reasoning in Information Systems Research, Special Issue, *Information Systems Frontiers*, 3, Nos. 1 & 2, 2001, by C.W. Churchman, J.F. Courtney, and G.L. Sanders, Kluwer Academic Publications, Dordrecht, The Netherlands.

c) Selected Articles (Journal Papers, Chapters in Collections, Research Reports, Working Papers, etc.)

Note: Multiple publications are indicated in brackets. Articles are usually listed under the year of their original publication, with subsequent republications being listed immediately after. Example: an article first published as a working paper and subsequently republished as a journal paper or a chapter in a collections is listed under the original working paper, with the subsequent publication indicated in brackets. However, to facilitate the search for specific editions, major articles have been listed under all relevant years.

1938

On finite and infinite modal systems. *Journal of Symbolic Logic*, 3, No. 2, 1938, 77-82.

1940

History of Non-Euclidean Geometry. Mimeographed, University of Pennsylvania, Philadelphia, 1940.

1941

Philosophy. *The American Yearbook 1940*, Thomas Nelson & Sons, New York, 1941, 867-872. [Also in the Yearbooks 1941 (833-840), 1942 (823-826), and 1943 (829-832)].

1942

Towards a general logic of propositions. In F.P. Clarke and M.C. Nahm (eds.), *Philosophical Essays in Honor of Edgar Arthur Singer, Jr.*, University of Pennsylvania Press, Philadelphia, 1942, 46-68.

1943

Method of Taking Copper Indent Measurements. *Primer Information Committee Bulletin No. 1*, Frankford Arsenal, Philadelphia, undated (ca. Spring 1943).

Method of Analyzing Primer Sensitivity. *Primer Information Committee Bulletin No. 5*, Frankford Arsenal, Philadelphia, undated (ca. August 1943).

The Effect of Changes in Mass of the Falling Ball on the Sensitivity of Primers. *Primer Information Committee Bulletin No. 6*, Frankford Arsenal, Philadelphia, 6 Sept. 1943.

The Die Test of Primers. *Primer Information Committee Bulletin No. 7*, Frankford Arsenal, Philadelphia, 10 Sept. 1943.

A Sensitivity Test for Primer Composition. *Primer Information Committee*

Bulletin No. 10, Frankford Arsenal, Philadelphia, 9 Oct. 1943.

1944

Statistics of sensitivity data. *Annals of Mathematical Statistics*, 15, 1944 (with B. Epstein).

Firing pin blows inn small arms weapons. *Primer Information Committee Bulletin No. 22*, Frankford Arsenal, Philadelphia, 3 March 1944.

1945

On the Methodology for Determination of Composition of Chemical Compounds by analysis to a Given Degree of Confidence. *Statistical Memorandum No. 2*, Frankford Arsenal, Philadelphia, Jan. 1945.

Probability Theory I: Background. *Philosophy of Science*, 12, No. 3, July 1945, 147-157.

Probability Theory II: Postulates of experimental method. *Philosophy of Science*, 12, No. 3, July 1945, 158-164.

Probability Theory III: Non-mechanical concepts. *Philosophy of Science*, 12, No. 3, July 1945, 165-173.

Effect of modification of the radius of the firing pin of the caliber 50 Browning machine gun on primer sensitivity. *Primer Information Committee Bulletin No. 40*, Frankford Arsenal, Philadelphia, 1 Nov. 1945.

1946

On the meaningfulness of questions. *Philosophy of Science*, 13, No. 1 (Jan.), 1946, 20-24 (with T.A.Cowan).

Philosophical aspects of statistical theory. *The Philosophical Review*, 55, No. 1 (Jan.), 1946, 81-86.

The dialectic of modern philosophy. *The Journal of Philosophy*, 18, No. 5, Feb. 28, 1946, 113-124.

A discussion of Dewey and Berkeley's 'postulations'. *The Journal of Philosophy*, 18, No. 8 (April), 1946, 217-219 (with T.A. Cowan).

Varieties of unification. *Philosophy of Science*, 13, 1946, 287-300 (with R.L. Ackoff).

Carnap's 'On Inductive Logic' (discussion). *Philosophy of Science*, 13, No. 4 (October), 1946, 339-342.

Most economic sampling for chemical analysis. *Industrial and Engineering Chemistry, Analytical Ed.*, 18 (April 1946), 267f.

Methods for Making Experimental Observations. *Statistical Memorandum No. 4*, Frankford Arsenal, Philadelphia, 1946 (with S. Ensor, M. Stevens and

R.M. Sigmond).

Tests of increased severity. *Journal of the American Statistical Association*, 41, Dec. 1946, 567-590 (with B. Epstein).

1947

Towards an experimental measure of personality. *Psychological Review*, 54, No. 1 (Jan.), 1947, 41-51 (with R.L. Ackoff).

Much ado about probability. *Philosophy of Science*, 14, No. 2 (April), 1947, 176-178.

Ethics and science. *Philosophy of Science*, 14, No. 3 (July), 1947, 269-271 (with R.L. Ackoff).

An experimental definition of personality. *Philosophy of Science*, 14, No. 4 (October), 1947, 304-332 (with R.L. Ackoff).

Introduction. In C.W. Churchman, R.L. Ackoff, and M. Wax (eds.), *Measurement of Consumer Interest*, University of Pennsylvania Press, Philadelphia, and Geoffrey Cumberledge/ Oxford University Press, London, 1947, 1-7.

The consumer and his interests. In C.W. Churchman, R.L. Ackoff, and M. Wax (eds.), *Measurement of Consumer Interest*, University of Pennsylvania Press, Philadelphia, and Geoffrey Cumberledge/ Oxford University Press, London 1947, 122-132.

Lecture Notes in Philosophy of Science, Part. 1. Mimeograph, University of Pennsylvania, Philadelphia, 1947.

Review of M. Black's "Critical Thinking." *Journal of Philosophy*, 44, 1947, 361f.

Logic of statistical tests. *Bulletin of the Institute of Experimental Method, University of Pennsylvania*, 1, No. 3, 1947, 12.

Footnote to "Logic of statistical tests." *Bulletin of the Institute of Experimental Method, University of Pennsylvania*, 1, No. 4, 1947, 21 (with R.L. Ackoff).

Operational defining. *Bulletin of the Institute of Experimental Method, University of Pennsylvania*, 1, No. 5, 1947, 43-49.

Discussion of Symposium papers. *Analytical Chemistry*, 19, 1947, 957.

1948

Review of F. Bender's "George Berkeley's Philosophy Re-examined." *Journal of Philosophy*, 45, 1948, 271-272.

In memoriam: Dr. William M. Malisoff. *Philosophy of Science*, 15, 1948, 2-3.

Scientific method. In: *American People's Encyclopedia*, Yearbook 1948, Spencer Press, Wells, Maine, 1948.

Statistics, pragmatics and induction. *Philosophy of Science*, 15, 1948, 249-268.

Definitional models for belief, opinion, and attitude. *International Journal of Opinion and Attitude Research*, 2, No. 2, Summer 1948, 151-168.

Methods of Making Experimental Inference. U.S. Department of Commerce, Washington, DC, 1948.

The missing link – a post-mortem. *International Journal of Opinion and Attitude Research*, 2, No. 4, Winter 1948-49, 489-493 (with R.L. Ackoff).

1949

The democratization of philosophy. *Science and Society*, 13, No. 4, 1949, 327-339 (with R.L. Ackoff).

A materialist theory of measurement. In R.W. Sellars, V.J. McGill, and M. Farber (eds.), *Philosophy for the Future: The Quest of Modern Materialism*, Macmillan, New York, 1949, 476-494.

Review of E.R. Hilgard's "Theories of Learning." *Journal of Philosophy*, 46, 1949, 626f.

Review of Edgar A. Singer's "In Search of a Way of Life" (Columbia University Press, New York, 1948). *Journal of Philosophy*, 46, 1949, 791-796.

1950

Review of L. Chwistek's "The Limits of Science: Outline of Logic and of the Methodology of the Exact Sciences" (Harcourt, New York). *Journal of Philosophy*, 47, No. 7 (March), 1950, 186-190.

Logical reconstructionism. *Philosophy of Science*, 17, No. 2 (April), 1950, 164-166.

Purposive behavior and cybernetics. *Social Forces*, 29, No. 1 (Oct.), 1950, 32-39 (with R.L. Ackoff). [Reprinted in W. Buckley (ed.), *Modern Systems Research for the Behavioral Scientist*, Aldine, Chicago, 1968, 243-249].

Review of F.J. Taggart's "The Idea of Progress: A Collection of Readings" (University of California Press, Berkeley, 1949). *Philosophy of Science*, 17, No. 4 (October), 1950, 362.

When do we start value research? Values and the social scientist, a symposium of commentaries. *Journal of Social Issues*, 6, No. 4, 1950, 61-63.

Basic research in marketing. In R. Cox and W. Anderson (eds.), *Theory in Marketing*, R.D. Irwin, Chicago, 1950, 3-17.

Some immediate and long-run prospects for value research. *First Report of the Committee on Cooperative Research in Values*, Wayne University, Detroit, 1950, 5-7.

The relation of history to the theory of defining. *Papers of the Michigan Academy of Science, Arts, and Letters*, 35, 1949, 369-375. [Actually published in 1951, although dated 1949].

1951

Review of L. Infeld's "Albert Einstein." *Journal of Philosophy*, 48, 1951, 222.

Measuring effectiveness in operational analysis and research. In *Second Conference on Industrial Experimentation*, Columbia University Press, New York, 1951.

Some methods of operations research. In W.H. Voorhis (ed.). *Conference Proceedings, Operations Research in Business and Industry*, November 8-10, 1951, ed. by W.H. Van Voorhis, Case Institute of Technology, Cleveland, Ohio, 1951, 31-38.

1952

Can scientific sampling techniques be used in railroad accounting? *Railway Age*, June 9, 1952, 61-64

Ethics, ideals, and dissatisfaction. *Ethics*, 18, Oct. 1952, 64-65.

1953

Operations research and market research. In W.H. Voorhis (ed.). *Conference Proceedings of the Conference on Operations Research in Marketing, January 29-31, 1953*, Case Institute of Technology, Cleveland, Ohio, 1953, 7-9. [Also in E.J. Kelley and W. Lazer (eds.), *Managerial Marketing: Perspectives and Viewpoints*, Irwin, Homewood, IL, 1958].

Prospects for railroad operations research. In *Proceedings, Railway Systems and Procedures Association*, Winter 1953, 71-86.

Research and responsibility. *Industrial Laboratories*, 4, No. 4, April 1953, 1-4. [Also as *Case Institute of Technology Reprint O.R.-1004*, Case Institute of Technology, Cleveland, Ohio, 1953].

Phases of operations research. In *Research Operations in Industry, Proceedings of the Third Annual Conference on Industrial Research, Columbia University*, June 1953, King's Crown Press, New York, 1953, 337-341.

Critique of scientific critiques. *The Review of Metaphysics*, 7, No. 1 (September), 1953, 89-97.

Concepts without primitives. *Philosophy of Science*, 20, No. 4 (October),

1953, 257-265.

1954

Introduction. In W.H. Voorhis (ed.). *Proceedings of the Conference on Operations Research in Production and Inventory Control*, January 20-22, 1954, Case Institute of Technology, Cleveland, Ohio, 1954, 7-9.

Summary. In W.H. Voorhis (ed.). *Proceedings of the Conference on Operations Research in Production and Inventory Control*, January 20-22, 1954, Case Institute of Technology, Cleveland, Ohio, 1954, 99-102.

History and prospects for operations research. *Proceedings of the Symposium on Operations Research in Business and Industry*, Midwest Research Institute, Kansas City, MO, April 1954, 1-10.

Operations research: an evaluation. *Advanced Management*, 19, No. 4 (April), 1954, 15-18.

An approximate measure of value. *Journal of the Operations Research Society of America*, 2, No. 2 (May), 1954, 172-187 (with R.L. Ackoff).

Notes on a pragmatic theory of induction. *Scientific Monthly*, 79, No. 3 (September), 1954, 149-151.

The philosophy of experimentation. In O. Kempthorne et al. (eds.), *Statistics and Mathematics in Biology*, Iowa State College Press, Ames, Iowa, 1954, 159-172. [Also as *Case Institute of Technology Reprint O.R.-1202*, Case Institute of Technology, Cleveland, Ohio, 1954].

1955

Management Science, the journal. *Management Science*, 1, No. 2 (January), 1955, 187-188. [Also in M.K. Starr (ed.), *Executive Readings in Management Science*, Macmillan, New York, 1965, 45-46].

Operational accounting and operations research (with R.L. Ackoff). *The Journal of Accountancy*, 99, No. 2 (February), 1955, 33-39. [Also in D. Solomon (ed.), *Studies in Cost Analysis*, 2nd ed., Sweet & Maxwell, London, 1968, 80-89].

The application of sampling to LCL interline settlements of accounts on American railroads. In W.G. Ireson and E.L. Grant (eds.), *Handbook of Industrial Engineering and Management*, Prentice-Hall, Englewood Cliffs, New Jersey, 1955, 1051-1057.

A survey of operations research accomplishments in industry. In W.H. Voorhis (ed.). *Proceedings of the Conference on "What is Operations Research Accomplishing in Industry?"* April 5-7, 1955, Case Institute of Technology, Cleveland, Ohio, 1955, 7-13.

1956

Management science – fact or theory. *Management Science*, 2, No. 2 (January), 1956, 84. [Reprinted in M.K. Starr (ed.), *Executive Readings in Management Science*, Macmillan, New York, 1965, p. 185].

Organizing operations research in the company. In W.H. Voorhis (ed.), *Proceedings of the Conference on Case Studies in Operations Research*, February 1-3, 1956, Case Institute of Technology, Ohio, Cleveland, 1956, 60-62.

Operations research in the chemical industry. *Industrial and Engineering Chemistry*, 48, No. 3, March 1956, 393.

Review of J. L. Savage's "Foundation of Statistics" (Wiley, New York, 1994). *Operations Research*, 4, No. 2 (March/April), 1956, 254-258.

Discussion: science and decision-making. Reply to R.C. Jeffrey's "Valuation and Acceptance of Scientific Hypotheses." *Philosophy of Science*, 23, No. 3 (July), 1956, 247-249.

How is planning possible? In McCloskey and Cappinger (eds.), *Operations Research for Management, II*, Johns Hopkins Press, Baltimore, MD, 1956, 401-413.

Problems of value measurement for a theory of induction and decisions. *Proceedings of the Third Berkeley Symposium on Mathematical Statistics and Probability, Vol. V: Econometrics, Industrial Research, and Psychometry*, University of California Press, Berkeley, CA, 1956, 53-59.

1957

The relevance of measurement to Management Science (Abstract). *Management Science*, 3, No. 2 (January), 1957, 202.

Summary. In W.H. Voorhis (ed.), *Proceedings of the Conference on Operations Research, Computers, and Management Decisions*, January 30-February 1, 1957, Case Institute of Technology, Ohio, Cleveland, 1957, 93-94.

A summing up. *Proceedings of the First International Conference on Operations Research*, Operations Research Society of America, Baltimore, Maryland, 1957, 514-520.

Cost accounting and operations research. In *Operations Research, Record of the 1956-57 Operations Research Seminar*, University of Michigan, Ann Arbor, Michigan, 1957, 125-134.

1958

The development of the Management Sciences. *Ekonomien*, 5, March 1958, 8-14.

1959

Management Sciences. *Working Paper CP-1*, Center for Research in Management Science, University of California, Berkeley, 1959. [Also in *Encyclopaedia Britannica*, 1960, and 1971, 747-750].

Prediction and Optimal Decision. *Working Paper CP-2*, Center for Research in Management Science, University of California, Berkeley, Aug. 1959.

Decision and value theory. *Working Paper CP-6*, Management Science Nucleus, Institute of Industrial Relations, University of California, Berkeley, Nov. 1959.

Introduction to *Experience and Reflection* by Edgar A. Singer, Jr., ed. By C.W. Churchman, University of Pennsylvania Press, Philadelphia, 1959, vii-xv.

Science and morality. In A.M. Brues (ed.), *Low-Level Irradiation*, American Association for the Advancement of Science (AAAS), Washington, D.C., 1959, 129-142.

Preface (with Ph. Ratoosh). In C.W. Churchman and Ph. Ratoosh (eds.), *Measurement: Definitions and Theories*, Wiley, New York, 1959, and Chapman & Hall, London, 1959, v-vi.

Why measure? In C.W. Churchman and Ph. Ratoosh (eds.), *Measurement: Definitions and Theories*, Wiley, New York, 1959, and Chapman & Hall, London, 1959, 83-94. [Also in R.O. Mason and E.B. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, Mass., 1981, 40-49].

Sampling and persuasion. *Working Paper CP-8*, Management Science Nucleus, Institute of Industrial Relations, University of California, Berkeley, Dec. 1959. [Also in *Operations Research*, 8, No. 2 (March/April), 1960, 254-259].

Organizations and Goal Revisions. *Working Paper CP-9*, Management Science Nucleus, Institute of Industrial Relations, University of California, Berkeley, Dec. 1959. [Also in J. Benbury and J. Maitland (eds.), *Proceedings of the Second International Conference on Operations Research*, English Universities Press, London, 1960, 6-11].

1960

Innovation in Group Behavior (with Ph. Ratoosh). *Working Paper CP-10*, Management Science Nucleus, Institute of Industrial Relations, University of California, Berkeley, Jan. 1960. [Also in *Proceedings of the Second International Conference on Operations Research*, English Universities Press, London, 1960, 122-128].

Management Sciences. *Encyclopaedia Britannica*, 1960, unknown pagination. [Compare: Management Sciences. *Encyclopaedia Britannica*,

1971, 747-750].

Preface. *Management Technology*, 1, No. 2 (December), 1960, 1.

1961

Report on Further Implementation Experiments. *Working Paper CP-26*, Center for Research in Management Science, University of California, Berkeley, March 1961 (with Ph. Ratoosh).

Management and Science. *Working Paper CP-29*, Center for Research in Management Science, University of California, Berkeley, May 1961.

An analysis of the concept of simulation. *Working Paper CP-34*, Center for Research in Management Science, University of California, Berkeley, July 1961.

Realism in Management Science: a report. *Management Technology*, 2, No. 2 (December), 63.

Decision and value theory. In R.L. Ackoff (ed.), *Progress in Operations Research, Vol. 1*, Wiley, New York, 1961, 34-64. [Originally as *Working Paper CP-6*, Management Science Nucleus, Institute of Industrial Relations, University of California, Berkeley, Nov. 1959.]

Towards a Mathematics of Social Science. *Working Paper CP-38*, Center for Research in Management Science, University of California, Berkeley, Oct. 1961. [Also in F. Massarik and P. Ratoosh (eds.), *Mathematical Explorations in Behavioral Science*, R.D. Irwin & The Dorsey Press, Homewood, Illinois, 1965, 29-36].

1962

On Inquiring Systems. *Working Paper CP-42*, Center for Research in Management Science, University of California, Berkeley, May 1962. [Also as *Report SP-877*, System Development Corporation, Santa Monica, CA, July 1962].

On Rational Decision-making. *Management Technology*, 3, No. 2 (December), 1962, 71-76. [Previously circulated as *Working Paper CP-43*, Center for Research in Management Science, University of California, Berkeley, May 1962; later version as "Rational decision-making" in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 7, 95-106].

The Art of the State. *Working Paper CP-44*, Center for Research in Management Science, University of California, Berkeley, May 1962.

The X of X. *Working Paper CP-50*, Center for Research in Management Science, University of California, Berkeley, Sept. 1962. [Later published in M.K. Starr (ed.), *Executive Readings in Management Science*, Macmillan, New York, 1965, 416-422, and in C.W. Churchman, *Challenge to*

Reason, McGraw-Hill, New York, 1968, Ch. 8., 107-117].

Reliability of Models in the Social Sciences. *Working Paper CP-47*, Center for Research in Management Science, University of California, Berkeley, July 1962. [Also in P. Langhoff (ed.), *Models, Measurement and Marketing*, Prentice-Hall, Englewood cliffs, New Jersey, 1965, Ch. 1, 23-38, and as "Science and God" in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 9, 117-126].

An inventory of values and research. In Q. Wright, W. Evan, and M. Deutsch (eds.), *Preventing World War III*, Simon & Schuster, New York, 1962, 273-277.

Current research in decision-making. *Report SP-955*, System Development Corporation, Santa Monica, CA, 1962.

Research at [the] Systems Development Corporation. *The Proceedings of the Military Operations Research Symposia*, 2, No. 2, Fall 1962, 139-144.

1963

Introduction. *Research Directorate Report, 1962*. System Development Corporation, Santa Monica, CA, January 1963.

The X of X. *Management Science*, 9, No. 3 (April), 1963, 351-357. [Originally as *Working Paper CP-50*, Center for Research in Management Science, University of California, Berkeley, Sept. 1962. [Also in M.K. Starr (ed.), *Executive Readings in Management Science*, Macmillan, New York, 1965, 416-422, and in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 8., 107-117.]

Deliberation and judgment (with H.B. Eisenberg). *Working Paper CP-68*, Center for Research in Management Science, University of California, Berkeley, June 1963; and *Working Paper SP-1232*, Systems Development Corporation, Santa Monica, CA, June 1963. [Later published in M.W. Shelly II and G.L. Bryan (eds.), *Human Judgments and Optimality*, Wiley, New York, 1964, 45-53].

An analysis of the concept of simulation. In A.C. Hoggatt and F.E. Balderston (eds.), *Symposium on Simulation Models: Methodology and Applications to the Behavioral Sciences*, South-Western Publishing Co., Cincinnati, Ohio, 1963, 1-12. [Originally as *Working Paper CP-34*, Center for Research in Management Science, University of California, Berkeley, July 1961.]

Knowledge and Action. *Working Paper CP-83*, Center for Research in Management Science, University of California, Berkeley, Aug. 1963. [Also in *Journal of the Operations Research Society of Japan*, 6, No. 2, Feb. 1964].

Freedom, Fairnes, and Planning in Marketing. *Working Paper CP-80*, Center for Research in Management Science, University of California, Berkeley, Oct. 1963. [Also in H. Huegy (ed.), *The Conceptual Framework for a Science of Marketing*, University of Illinois Bulletin, Urbana, IL, Oct. 1963, 44-50].

Some Remarks on Basic Research in Operations Research. *Internal Working Paper No. 4*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, Oct. 1963.

Planning basic research. *Report SP-985*, System Development Corporation, Santa Monica, CA, 1963.

1964

Knowledge and Action. *Journal of the Operations Research Society of Japan*, 6, No. 2, Feb. 1964. [Previously circulated as *Working Paper CP-83*, Center for Research in Management Science, University of California, Berkeley, Aug. 1963; also as Reprint CR-17, Center for Research in Management Science, University of California, Berkeley, 1964].

On the design of educational systems. *Working Paper CP-86*, Center for Research in Management Science, University of California, Berkeley, Feb. 1964. Also in *Audiovisual Instruction*, 10, No. 5, 361-365.

Deliberation and judgment (with H.B. Eisenberg). In M.W. Shelly II and G.L. Bryan (eds.), *Human Judgments and Optimality*, Wiley, New York, 1964, 45-53. [Earlier circulated as *Working Paper CP-68*, Center for Research in Management Science, University of California, Berkeley, June 1963; and *Working Paper SP-1232*, Systems Development Corporation, Santa Monica, CA, June 1963].

Reality and systems. *Atomzeitalter, Information und Meinung*, 6, June 1964, 165-170. [Also in D. Riepe and J. Pustalinck (eds.), *The Structure of Philosophy*, Readings in Philosophy from the Greek Period to the Modern Period, Littlefield Publishers, Totowa, New Jersey, 1966].

Marketing theory as marketing management. In R. Cox, W. Anderson, and S.J. Shapiro (eds.), *Theory in Marketing, Second Series*, American Marketing Association, Homewood, IL, / R.D. Irwin, Chicago, 1964, 313-321. [Also circulated as *Reprint CR-25*, Center for Research in Management Science, University of California, Berkeley, 1965. Later repints in J.B. Kerome and M.S. Sommers (eds.), *Perspectives in Marketing Theory*, Appleton- Century- Crofts, New York, 1968, 205-213, and as "Theoretical management" in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 12., 143-154].

Managerial acceptance of scientific recommendations. *California Management Review*, Fall 1964, 31-38. [Also in A. Rappaport (ed.),

Information for Decision Making: Quantitative and Behavioral Dimensions, Prentice-Hall, Englewood Cliffs, New Jersey, 1970, 435-443].

Research Strategy, Variances and Implementation. *Working Paper CP-100*, Center for Research in Management Science, University of California, Berkeley, Oct. 1964. [Abstract also as "On the simulation of group interaction" in *ORSA Bulletin*, 12, No. 2, Fall 1964].

An approach to general systems theory. In M.D. Mesarovic (ed.), *Views on General Systems Theory*, Proceedings of the Second Systems Symposium at Case Institute of Technology, Wiley, New York, 1964. [Also in F. Händle and S. Jensen (eds.), *Systemtheorie und Systemtechnik*, Nymphenburger Verlagshandlung, Munich, 1974, 104-106].

1965

Review of D. Braybrooke and Ch.E. Lindblom's "A Strategy of Decision: Policy Evaluation as a Social Process" (Free Press, New York, 1963). *Operations Research*, 13, No. 1 (Jan.-Feb.), 1965, 159-161.

The researcher and the manager: a dialectic of implementation (with A.H. Schainblatt). *Management Science*, 11, No. 4 (Feb.), 1965, B69-87. [Previously circulated as *Working Paper P-2984*, RAND Corporation, Santa Monica, CA, September 1964, and as *Working Paper CP-102*, Center for Research in Management Science, University of California, Berkeley, October 1964].

On the intercomparison of utilities. *Working Paper CP-111*, Center for Research in Management Science, University of California, Berkeley, CA, March 1965. [Later versions in S.R. Krupp (ed.), *The Structure of Economic Science*, Prentice-Hall, Englewood Cliffs, New Jersey, 1966, 243-256, and as "Sur l'intercomparaison des utilités" in *Economie appliquée*, Archives de l'I.S.E.A., Vendôme, France, 1962, 191-208].

Design and Inquiry. *Internal Working Paper No. 28*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, April 1965. [Also in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 1, 3-18].

Rationalist Inquiring Systems. *Internal Working Paper No. 29*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, May 1965. [Revised subsequent version titled: Leibnizian Inquiring Systems, *Internal Working Paper No. 29*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, April 1968. Also as "Leibnizian inquiring systems: fact nets" in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 2, 19-41].

On Whole Systems. *Internal Working Paper No. 31*, Social Sciences

Projects, Space Sciences Laboratory, University of California, Berkeley, CA, May 1965. Also as "On whole systems: the anatomy of goal seeking" in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 3, 42-78.

An Illustration of a Leibnizian Inquirer. *Internal Working Paper No. 31-b*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, ca. June 1965.

Behavior and the relative importance of values. Review of A. Kaplan's "The Conduct of Inquiry: Methodology for Behavioral Science" (Chandler, San Francisco, 1964). *Science*, 147, No. 3655, 1965, 283-284.

Introduction to the special issue of Management Science on "The Researcher and the manager: a dialectic of implementation." *Management Science*, 12, No. 2 (Oct.), 1965, B2.

On mutual understanding. *Management Science*, 12, No. 2 (Oct.), 1965, B40-42 (with A.H. Schainblatt).

Management science – fact or theory. In M.K. Starr (ed.), *Executive Readings in Management Science*, Macmillan, New York, 1965, p. 185. [Originally in *Management Science*, 2, No. 2 (January), 1956, 84].

Reliability of Models in the Social Sciences. In P. Langhoff (ed.), *Models, Measurement and Marketing*, Prentice-Hall, Englewood cliffs, New Jersey, 1965, Ch. 1, 23-38. [Previously circulated as *Working Paper CP-47*, Center for Research in Management Science, University of California, Berkeley, July 1962; later version as "Science and God" in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 9, 117-126].

On the design of educational systems. *Audiovisual Instruction*, 10, No. 5, 361-365. Published by the Department of Audiovisual Instruction, National Educational Association of the United States, Washington, CD, 1965. [Previously circulated as *Working Paper CP-86*, Center for Research in Management Science, University of California, Berkeley, Feb. 1964].

Democratic control of implementation. Discussion paper. *Conference on Democratic Control of Science Policy*, Center for the Study of Democratic Institutions, Santa Barbara, CA, 1965.

Introduction. In M.K. Starr and A. Veinott (eds.), *Readings in Management Science*, Macmillan, New York, 1965.

Foreword. In A. Veinott (ed.), *Mathematical Studies in Management Sciences*, Macmillan, New York, 1965, vii-viii.

On the Ethics of Large-Scale Systems, Part I. *Internal Working Paper No. 37*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, Sept. 1965.

1966

Operations research in the forest products industry. *Proceedings, Seminar on OR in the Forest Products Industry*, IBM, Los Angeles, Jan. 1966, 1-6.

On the Ethics of Large-Scale Systems, Part II. *Internal Working Paper No. 41*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, Jan. 1966. Revised 2nd ed., Sept. 1966.

Editor's preface. In *The Undergraduate and the Large University*, A Study by the Social Sciences Group of the Space Sciences Laboratory, University of California, Berkeley, under the Guidance of Brad Cleaveland, a Graduate Student, and Fifteen Undergraduates," *Internal Working Paper No. 43*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, April 1966.

Lockean Inquiring Systems. *Internal Working Paper No. 45*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, April 1966. [Also as "Lockean inquiring systems: consensus" in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 5, 95-127].

Kantian Inquiring Systems. *Internal Working Paper No. 46*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, May 1966. [Also as "Kantian inquiring systems: Representations" in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 6, 128-148].

Increasing the productivity of business and economic research. In J.F. Kane (ed.), *Proceedings, American Association of Collegiate Schools of Business Golden Jubilee Meeting*, April 25-29, 1966 (no place).

The ethics of large-scale systems. *Economics and Business Bulletin of the School of Business Administration, Temple University*, 18, No. 4 (September), 1966, 30-40. [Bulletin published by the Bureau of Economic and Business Research, School of Business Administration, Temple University, Philadelphia, PA. Paper presented at Temple University, Philadelphia, PA, in October 1965 and subsequently revised in three separate parts titled "On the ethics of large-scale systems," Parts I-III, and circulated as *Internal Working Papers* Nos. 37, 41, and 57/58, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, Sept. 1965, Jan. 1966, and Jan.-Feb. 1967].

The Role of the Research Administrator. *Internal Working Paper No. 38*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, June 1966. [Also in M.C. Yovits et al. (eds.), *Research Program Effectiveness*, Gordon & Breach, New York, 1966, 425-440, and in M.J. Cetron and J.D. Goldhar (eds.), *The Science of Managing Organized Technology*, Gordon & Breach, New York, 1970, 1307-1316].

On Large Models of Systems. *Internal Working Paper No. 39*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, June 1966. [Also as "Large systems models" in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 13, 155-167].

Perception and deception. *Science*, 153, No. 3750 (Sept. 2), 1966, 1088-1090.

Hegelian Inquiring Systems. *Internal Working Paper No. 49*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, Sept. 1966. [Also in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 7, 149-179].

On various approaches to the study of organizations (with F.E. Emery). In J.R. Lawrence (ed.), *Operational Research and the Social Sciences*, Tavistock Publications, London, 1966, 77-84.

On the intercomparison of utilities. In S.R. Krupp (ed.), *The Structure of Economic Science*, Prentice-Hall, Englewood Cliffs, New Jersey, 1966, 243-256. [Earlier versions: "Sur l'intercomparaison des utilités," in *Economie appliquée*, Archives de l'I.S.E.A., Vendôme, France, 1962, 191-208, and *Working Paper CP-111*, Center for Research in Management Science, University of California, Berkeley, C, March 1965].

1967

On the Ethics of Large-Scale Systems, Part III. *Internal Working Papers No. 57 and No. 58*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, Jan. and Feb. 1967.

The Systems Approach (Part I, Ch. I-VI). *Internal Working Paper No. 62*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, April 1967.

The Systems Approach (Part II, Ch. VII-X). *Internal Working Paper No. 63*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, April 1967.

The Systems Approach (Part III, Ch. XI-XIV). *Internal Working Paper No. 64*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, April 1967.

The use of science in public affairs. *Governing Urban Society: New Scientific Approaches*, Monograph No. 7, Fels Institute, American Academy of Political and Social Science, Philadelphia, Penn., May 1967, 29-48.

On exponential change. In E. Reed (ed.), *Center Diary: 18 (May-June 1967)*, ed. by the Center for the Study of Democratic Institutions, Santa Barbara, CA, published by The Fund for the Republic, Inc., Santa Barbara, CA, 1967,

52-55.

Systems planning for implementation of change. In D.D. Bushnell and D.W. Allen, with S.S. Mitter (eds.), *The Computer in American Education*, Wiley, New York, 1967, 44-48.

Research on Research: A Philosophical Discussion of Self-Reflection. *Internal Working Paper No. 69*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, August. 1967. [Also as *Isenberg Lectures*, Michigan State University Press, East Lansing, Mich., 1967].

Education in a Technological Age. *Restricted Working Paper Series A-5*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, Sept. 1967.

The paradox of reform. In *The University: An Environment for Creativity?* Washington State University Press, Pullman, WA, Sept. 1967.

Wicked problems. Guest editorial, *Management Science*, 14, No. 4 (Dec.), 1967, B141-142.

1968

The Case Against Planning: The Beloved Community. *Internal Working Paper No. 80*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Feb. 1968. Also in *Management Decision*, 2, No. 2 (Summer), 1968, 74-77.

The prospects for social experimentation. Review of Harold Sackman's "Computers, Systems Science, and Evolving Society" (Wiley, New York, 1967). *Science*, 159, No. 3818, 1 March 1968, 965-966. [Also in B. Lindgren (ed.), *Current Research in Psychology*, Wiley, New York, 1971, 265-266].

Leibnizian Inquiring Systems: Fact Nets. *Internal Working Paper No. 29*, Social Sciences Projects, Space Sciences Laboratory, University of California, Berkeley, CA, March 1968. [Also in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 4, 19-41].

Humanizing education. *The Center Magazine, A Publication of the Center for the Study of Democratic Institutions, Santa Barbara, CA*, 1, No. 7, Nov. 1968, 90-93.

Styles of administration in research and development organizations. In E. Glatt and M.W. Shelly (eds.), *The Research Society*, Gordon & Breach, New York, 1968, 345-356.

New frontiers to conquer – the research challenge. In C.C. Ling and E.W. Carter (eds.), *A Seminar for New Deans*, American Association of Collegiate Schools of Business, St. Louis, Missouri, 1968, 1-10.

The future of information systems. *Management 2000*, ed. by the American

Marketing Association, The American Foundation for Management Research, New York, 1968.

Purposive behavior and cybernetics (with R.L. Ackoff). In W. Buckley (ed.), *Modern Systems Research for the Behavioral Scientist*, Aldine, Chicago, 1968, 243-249. [Originally in *Social Forces*, 29, No. 1 (October), 1950, 32-39].

The Role of Weltanschauung in Problem Solving and Inquiry. *Internal Working Paper No. 94*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Nov. 1968. [Also in R. Banerji and M.D. Mesarovic (eds.), *Lecture notes in Operations Research and Mathematical Systems*, Springer, Berlin, 1970].

Suggestive, Predictive, Decisive, and Systemic measurements. *Internal Working Paper No. 95*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Dec. 1968. [Also in *Journal of Safety Research*, 2, 1970, No. 3 (Sept.), 131-136; in W.E. Tarrant (ed.), *The Measurement of Safety Performance*, Garland STPM Press, New York, 1980, 129-136; and in R.O. Mason and E.B. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, Mass., 1981, 74-79].

Real Time Systems and Public Information. *Internal Working Paper No. 96*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Dec. 1968. [Also in *Proceedings, Fall Joint Computer Conference on Real Time Information Systems and Public Interest, 1968*, San Francisco, 1969, 1467-1468, and in R. Banerji and M.D. Mesarovic (eds.), *Lecture Notes in Operations Research and Mathematical Systems*, Springer, Berlin, 1970].

Marketing theory as marketing management. In J.B. Kerome and M.S. Sommers (eds.), *Perspectives in Marketing Theory*, Appleton-Century-Crofts, New York, 1968, 205-213. [As "Theoretical management" also in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 12., 143-154. Earlier version in R. Cox, W. Anderson, and S.J. Shapiro (eds.), *Theory in Marketing, Second Series*, American Marketing Association, Homewood, IL, / R.D. Irwin, Chicago, 1964, 313-32, also circulated as *Reprint CR-25*, Center for Research in Management Science, University of California, Berkeley, 1965].

1969

Scoring the university. Review of J. Ridgeway's "The closed Corporation: american Universities in Crisis" (Random House, New York, 1968). *Science*, 163, No. 3868, Feb. 14, 1969, 664-665.

On the design of inductive systems: some philosophical problems. *British Journal of the Philosophy of Science*, 20, 1969, 311-323 (with B.G. Buchanan).

PPB: How can it be implemented? (with A.H. Schainblatt). *Public Administration Review*, 29, No. 2 (March/April), 1969, 178-189. [Also in F.J. Leyden and E.G. Miller (eds.), *Planning, Programming, and Budgeting: A Systems Approach to Management*, 2nd ed., Markham Publishing, Chicago, IL, 1972, 297-314].

Architecture and Operational Research: Is Collaboration Possible? *Internal Working Paper No. 97*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, June 1969.

Morality and Planning. *Internal Working Paper No. 98*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Nov. 1969. [Earlier title: *Morality and Psychology: an essay on Kant, Singer, and Jung*. Lecture presented at the C.G. Jung Institute, Zurich, Switzerland, June 1969.] Also in C.W. Churchman (guest ed.), *Design Methods and Theories, Journal of the Design Methods Group and Design Research Society*, 10, No. 3, 1976, 165-181].

The Design of Inquiring Systems. *Internal Working Paper No. 107*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Oct. 1969.

Setting the Objectives of Organizations. *Internal Working Paper No. 110*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Nov. 1969.

On management information systems. (Reprinted from C.W. Churchman, *The Systems Approach*, Dell, New York 1968, Ch. 7.) *The McKinsey Quarterly*, 6, No. 1, Fall 1969, 43-51.

A Nontechnical Introduction to Operations Research. *Lecture Notes* from IDS [Interdisciplinary Studies, course No. 175], University of California, Berkeley, Fybate Lecture Notes, Berkeley, CA, 1969.

1970

Kant – a decision theorist? *Theory and Decision*, 1, No. 2, 1970, 107-116.

The Past's Future. *Internal Working Paper No. 118*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, March 1970. [Also in W.E. Stone (ed.), *Foundations of Accounting Theory*, University of Florida Press, Gainesville, Florida, 1971; as "Epilogue" in G.J. Klir (ed.), *Trends in General Systems Theory*, Wiley, New York, 1972; and as "Trends in systems theory" in R.O. Mason & E.B. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, Mass., 1981, 152-159].

R2 on E: Some Suggestions for Research on the Role of Research in Education. *Internal Working Paper No. 116*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, May 1970. [Subsequently published in B. Lawrence, G. Weathersby, and V.W.

Patterson (eds.), *Outputs of Higher Education, Their Identification, Measurement, and Evaluation*, Western Interstate Commission for Higher Education, Boulder, Colorado, 1970].

Preparation for Management: An Assessment. *Internal Working Paper No. 117*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, May 1970.

Design of a university: a constitution. An application of a theory of design. *Architecture*, No. 230, University of California, Berkeley, June 1, 1970.

The artificiality of science. Review of Herbert A. Simon's "The Sciences of the Artificial" (MIT Press, Cambridge MA, 1969). *Contemporary Psychology, A Journal of Reviews*, 15, No. 6, June 1970, 385-386.

Suggestive, predictive, decisive, and systemic measurements. *Journal of Safety Research*, 2, 1970, No. 3 (Sept.), 131-136. [Originally circulated as *Internal Working Paper No. 95*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Dec. 1968; later versions in W.E. Tarrants (ed.), *The Measurement of Safety Performance*, Garland STPM Press, New York, 1980, 129-136; and as "The measurement of mood and the mood of measurement" in R.O. Mason and E.B. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, Mass., 1981, 74-79].

Some Notes on the Organization of Exoteric Universities. *Internal Working Paper No. 121*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Sept. 1970. [Also as "On the organization of exoteric universities" in *American Behavioral Scientist*, 18, 1974, 190-200 (Special issue on "Education for Creative Problem Solving, ed. by M. Adelson) and in H. Leavitt et al. (eds.), *Organizations of the Future*, Praeger, New York, 1974, 29-41, and in C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 7, 85-94].

Singerian Inquiring Systems. *Internal Working Paper No. 122*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Oct. 1970. [Also in C.W. Churchman, *The Design of Inquiring Systems*, Basic Books, New York, 1971, Ch. 9, 186-205].

Preface to some papers on educational issues in the Management Sciences and Operations Operations Research. *Management Science*, 17, No. 2 (October), 1970, B1.

Operations research as a profession. *Management Science*, 17, No. 2 (Oct.), 1970, B37-53. [Also in R.L. Flood and M.C. Jackson (eds.), *Critical Systems Thinking: Directed Readings*, Wiley, Chichester, UK, 1991, Ch. 1, 19-40].

R2 on E: some suggestions for research on the role of research in education. In B. Lawrence, G. Weathersby, and V.W. Patterson (eds.), *Outputs of*

Higher Education, Their Identification, Measurement, and Evaluation.

Western Interstate Commission for Higher Education, Boulder, Colorado, 1970. [Previously circulated as Internal Working Paper No. 116, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, May 1970].

Ungewissheit, Wahrscheinlichkeit und Risiko. In O.W. Haseloff (ed.).

Planung und Entscheidung, Forschung und Information Band 5, Colloquium Verlag, Berlin, 1970, 97-107.

Model building and management. *Proceedings of the IBM Computer Science Symposium: Corporate Decision Making, 26 Oct. 1970.* IBM (Japan), Tokyo, 1970, 21-35 (English) and 37-53 (Japanese).

Managerial acceptance of scientific recommendations. In A. Rappaport (ed.), *Information for Decision Making: Quantitative and Behavioral Dimensions*, Prentice-Hall, Englewood Cliffs, New Jersey, 1970, 435-443. [Originally in *California Management Review*, Fall 1964, 31-38.]

The Role of Weltanschauung in Problem Solving and Inquiry. In R. Banerji and M.D. Mesarovic (eds.), *Lecture Notes in Operations Research and Mathematical Systems, [Vol. 1,]* Springer, Berlin, 1970. [Originally circulated as *Internal Working Paper No. 94*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Nov. 1968].

Real time systems and public information. In R. Banerji and M.D. Mesarovic (eds.), *Lecture Notes in Operations Research and Mathematical Systems, [Vol. 1,]* Springer, Berlin, 1970. [Earlier circulated as *Internal Working Paper No. 96*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Dec. 1968. Also in *Proceedings, Fall Joint Computer Conference on Real Time Information Systems and Public Interest, 1968*, San Francisco, 1969, 1467-1468].

1971

On the facility, felicity, and morality of measuring social change. *The Accounting Review*, 46, 1971, 30-35. [Earlier version: "The Facility, Felicity, and Morality of Measuring Social Change, *Internal Working Paper No. 120*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, Aug. 1970. Also in E.S. Hendriksen and B.P. Budge (eds.), *Contemporary Accounting Theory*, Dickenson Publishing Co., Encino, CA, 1974, 295-302; in J.L. Livingstone and S.C. Sanford (eds.), *Accounting for Social Goals: Budgeting and Analysis of Nonmarket Projects*, Harper & Row, New York, 1974; and in R.O. Mason and E.B. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, Mass., 1981, 510-515].

Management sciences. *Encyclopaedia Britannica*, 1971, 747-750.

The systems approach to measurement in business firms. In R.R. Sterling

and W.F. Bentz (eds.), *Accounting in Perspective, Contributions to Accounting Thought by Other Disciplines*, South-Western Publishing Co., Cincinnati, Ohio, 1971, 51-57.

On Comparison and Administration: A Philosophical Discourse. *Internal Working Paper No. 1*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, May 1971. [Also in *Journal of Comparative Administration*, 5, No. 1, 1973, 15-29 (Special Issue devoted to philosophical issues and normative questions in comparative administration, ed. by A.P. Balutis)].

Can a Manager Teach an Automated Information System? *Internal Working Paper No. 2*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, June 1971.

Systems Analysis and Organization Theory: A Critique. *Internal Working Paper No. 3*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, June 1971.

Policy for Policy Sciences. *Internal Working Paper No. 4*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, July 1971.

Operations Research Prospects for Libraries: The Realities and Ideals of Strategies for Operations Research in Libraries. *Internal Working Paper No. 5*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, Aug. 1971. [Also in D.R. Swanson and A. Bookstein (eds.), *Operations Research: Implications for Libraries*, University of Chicago Press, Chicago, 1971, 6-14, and in *The Library Quarterly*, 42, No. 1, Jan. 1972, 6-14].

Systems Engineering, Operations Research and Management. *Internal Working Paper No. 6*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, Sept. 1971.

Social Applications of Resource Information. *Internal Working Paper No. 8*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, Oct. 1971. [Also as "Management and planning problems" in H. Sackman and H. Borko (eds.), *Computers and the Problems of Society*, AFIPS Press, Montvale, NJ, 1972, 209-230].

The Measurement of Mood and the Mood of Measurement. *Internal Working Paper No. 7*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, Oct. 1971. [Earlier version published as "Suggestive, predictive, decisive, and systemic measurements" in *Journal of Safety Research*, 2, 1970, No. 3 (Sept.), 131-136; later version in R.O. Mason and E.B. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, Mass., 1981, 152-159].

1972

Review of E.S. Quade and W.I Boucher (eds.), "Systems Analysis and Policy Planning: Application in Defense" (American Elsevier, New York, 1968). *Journal of Policy Sciences*, 3, No. 1 (March), 1972, 117-120.

Preface to the discussion of the ORSA Guidelines. *Management Science*, 18, No. 10 (June), 1972, B608-609.

Perspectives of the Systems Approach. *Internal Working Paper No. 13*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, April 1972. [Also in *Interfaces*, 4, No. 4, 1974, 6-11].

Methodological Issues of Behavioral Science in Educational Evaluation. *Internal Working Paper No. 14*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, April 1972.

Managing research divisions. In *Management of Research and Development, Papers presented at a Seminar organized by the Scientific and Technical Research Council of Turkey, Istanbul, 4-8 May 1970*. Organization for Economic Co-operation and Development (OECD), Paris, 1972, 59-90. [Also as "Basic concepts of operational control" un A.H. Rosenthal (ed.), *Public Science Policy and Administration*, University of New Mexico Press, Albuquerque, NM, 1973, 160-176].

Business education: preparation for uncertainty. *Organizational Dynamics*, A Quarterly Review of Behavioral and Management Sciences, Summer 1972, 12-20.

The Systems Approach: A Philosophical Overview. Developed from a talk given at the St. Gallen Symposium, May 1972. *Internal Working Paper No. 16*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, Oct. 1972.

Statistical Methodology of Information Systems. *Internal Working Paper No. 17*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, Oct. 1972.

Measurement: a systems approach. (A review of *Theory of Experimental Inference* after 21 years). In J. Leach, R. Butts, and G. Pearce (eds.), *Science, Decision and Value, Proceedings of the Fifth University of Western Ontario Philosophy Colloquium, Waterloo, Ontario, Canada, 1969*, D. Reidel Publishing, Dordrecht, Holland, and Boston, Mass., 1972, 70-86.

Management and planning problems. In H. Sackman and H. Borko (eds.), *Computers and the Problems of Society*, AFIPS Press, Montvale, NJ, 1972, 209-230. [Previously circulated as *Internal Working Paper No. 8*, Social Applications of Resource Information, Space Sciences Laboratory,

University of California, Berkeley, Oct. 1971].

PPB: How can it be implemented? (with A.H. Schainblatt). In F.J. Leyden and E.G. Miller (eds.), *Planning, Programming, and Budgeting: A Systems Approach to Management*, 2nd ed., Markham Publishing, Chicago, IL, 1972, 297-314. [Originally in *Public Administration Review*, 29, No. 2 (March/April), 1969, 178-189].

1973

On comparison and administration: a philosophical discourse. *J. of Comparative Administration*, 5, No. 1 (May), 1973, 15-29.

Perspektiven des Systemansatzes. In B. Hentsch and F. Malik (eds.), *Systemorientiertes Management*, Haupt, Bern, Switzerland, 147-154. [German transl. of "Perspectives of the systems approach," 1972].

On the Humanity of the Scientist. *Internal Working Paper No. 18*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, June 1973. [Adapted version as "Foreword" in I.I. Mitroff, *The Subjective Side of Science: A Philosophical Inquiry into the Psychology of the Apollo Moon Scientists*, Elsevier, Amsterdam, 1974. ix-xii].

A critique of the systems approach to social organizations. In R.F. Miles, Jr. (ed.), *Systems Concepts: Lectures on Contemporary Approaches to Systems*, Wiley, New York, 1973, 191-205.

Morality as a value criterion. In J.L. Cochrane and M. Zeleny (eds.), *Multiple Criteria Decision Making*, University of South Carolina Press, Columbia, South Carolina, 1973, 3-8.

Basic concepts of operational control. In A.H. Rosenthal (ed.), *Public Science Policy and Administration*, University of New Mexico Press, Albuquerque, NM, 1973, 160-176. [Originally as "Managing research divisions" in *Management of Research and Development, Papers presented at a Seminar organized by the Scientific and Technical Research Council of Turkey, Istanbul, 4-8 May 1970*. Organization for Economic Co-operation and Development (OECD), Paris, 1972, 59-90].

Die Idee des Fortschritts. *GDI-Topics*, 4, No. 4, Oct. 1973, 15-22 (Gottlieb Duttweiler Institut, Rüschlikon, Switzerland). [Earlier English version as "The idea of progress" in C.W. Churchman, *Challenge to Reason*, McGraw-Hill, New York, 1968, Ch. 4, 46-65].

Philosophical speculations on systems design. *Working Paper CP-355*, Center for Research in Management Science, University of California, Berkeley, Oct. 1973. [Also in *Omega, The International Journal of Management Science*, 2, No. 4, 1974, 451-465, and in J. Moder and S. Elmaghraby (eds.), *Handbook of Operations Research*, Van Nostrand

Reinhold, New York, 1978, 25-39].

Theories of Implementation. *Working Paper CP-357*, Center for Research in Management Science, University of California, Berkeley, Nov. 1973. [Also in R.L. Schulz and D.P. Slevin (eds.), *Implementing Operations Research/Management Science: Research Findings and Implications*, American Elsevier, New York, 1975, 23-30].

1974

Philosophical speculations on systems design. *Omega, The International Journal of Management Science*, 2, No. 4, 1974, 451-465. [Earlier version as *Working Paper CP-355*, Center for Research in Management Science, University of California, Berkeley, Oct. 1973.) Also in J. Moder and S. Elmaghraby (eds.), *Handbook of Operations Research*, Van Nostrand Reinhold, New York, 1978, 25-39].

Perspectives of the systems approach, *Interfaces*, 4, 1974, No. 4, 6-11. [Previously circulated as *Internal Working Paper No. 13*, Social Applications of Resource Information, Space Sciences Laboratory, University of California, Berkeley, April 1972].

On the organization of exoteric universities. In H. Leavitt et al. (eds.), *Organizations of the Future*, Praeger, New York, 1974, 29-41. [Also in *American Behavioral Scientist*, 18, 1974, 190-200, and as "Some notes on the organization of exoteric universities" in C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 7, 85-94].

Foreword. In I.I. Mitroff, *The Subjective Side of Science: A Philosophical Inquiry into the Psychology of the Apollo Moon Scientists*, Elsevier, Amsterdam, 1974. ix-xii.

Foreword. In F.M. Nicosia, *Advertising, Management, and Society: A Business Point of View*, A Project of the Consumer Research Program, McGraw-Hill, New York, 1974, xi-xii.

Foreword. In J.P. van Gigch, *Applied General Systems Theory*, Harper & Row, New York, 1974, 2nd ed. 1978, ix-x.

1975

Willingness to pay and morality: a study of future values. In S.H. Smith and A.H. Rosenthal (eds.), *Fish and Wildlife Resources Evaluation*, U.S. Fish and Wildlife Service, Washington, D.C., Feb. 1975. [Also in C.W. Churchman (ed.), *Systems and Management Annual 1975*, Petrocelli/Charter, New York, 1975, 599-603; in *New Zealand Operational Research*, 5, No. 2, 1977, 77-84; and in C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 5, 65-72].

Towards a theory of application in systems science. Invited paper,

Proceedings of the IEEE, 63, No. 3, 1975, Special Issue on Social Systems Engineering, 351-354.

Theories of implementation. In R.L. Schulz and D.P. Slevin (eds.), *Implementing Operations Research/ Management Science: Research Findings and Implications*, American Elsevier, New York, 1975, 23-30. [Originally circulated as Working Paper CP-357, Center for Research in Management Science, University of California, Berkeley, Nov. 1973].

The niggling and the grand: an assessment of world modeling. In C.W. Churchman (ed.), *Systems and Management Annual*, Petrocelli/ Charter, New York, 1975, 605-610. [Also in C.W. Churchman and R.O. Mason (eds.), *World Modeling: A Dialogue*, North-Holland/ American Elsevier, 1976, 159-163].

What is information for policy making? In M. Kochen (ed.), *Information for Action: From Knowledge to Wisdom*, Academic Press, New York, 1975, Ch. 3, 33-40.

The new rationalism and its implications for understanding corporations. In E.M. Epstein and D. Votaw (eds.), *Rationality, Legitimacy, Responsibility: The Search for New Directions in Business and Society*, Goodyear Press, Santa Monica, CA, 1975, 52-68.

1976

Towards a holistic approach. In *Proceedings, American Association for the Advancement of Science Conference on Adapting Science to Social Needs, May 5-8, 1976*, AAAS Office of Special Programs, Washington, D.C., 1976, 11-24.

ORU's [OR Units] and Politics: or, When Is Organizational Murder Justified? *Working Paper CP-398*, Center for Research in Management Science, University of California, Berkeley, Aug. 1976.

Epilogue to behavioral models for market analysis. In F.M. Nicosia and Y. Wind (eds.), *Foundations for Marketing Action*, Dryden Press, Hinsdale, IL, 1976, 182-194.

The niggling and the grand: an assessment of world modeling. In C.W. Churchman and R.O. Mason (eds.), *World Modeling: A Dialogue*, North-Holland/ American Elsevier, 1976, 159-163. [Previously in C.W. Churchman (ed.), *Systems and Management Annual*, Petrocelli/ Charter, New York, 1975, 605-610].

Management science and human values: a retrospect. In T.J. Kastelein et al. (eds.), *25 Years of Economic Theory: Retrospect and Prospect*, Nijhoff, Leiden, The Netherlands, 1976, 87-101.

1977

A philosophy for complexity. In H.A. Linstone and W.H. Simmonds (eds.), *Managing Complexity*, Addison-Wesley, Reading, Mass., 1977.

Values, goals, and prophecies in large organizations. In M. Marois (ed.), *Proceedings of the World Conference, Towards a Plan of Actions for Mankind*, Vol. 4, Design of Global Systems Models and Their Limitations, Pergamon Press, Oxford, UK, 1977, 161-168.

Value Distribution Assessment of Geothermal Development in Lake County, CA. (with Harold G. Nelson and Kreg Eacret). Report prepared for the U.S. Dept. of Energy under Contract No. W-7405-ENG-48. Energy and Environmental Division, Lawrence Berkeley Laboratory, University of California, Berkeley, Report UC-66 / LBL-6875, Oct. 1977.

1978

A sense of life: perspectives of wildlife policies regarding endangered species. In S.H. Spencer and A.H. Rosenthal (eds.), *Concepts and Practices in Fish and Wildlife Administration*, U.S. Fish and Wildlife Service, Department of the Interior, Washington, D.C., May 1978, 9-15. [Also in C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 6, 73-84].

Philosophical speculations on systems design. In J. Moder and S. Elmaghraby (eds.), *Handbook of Operations Research*, Van Nostrand Reinhold, New York, 1978, 25-39. [Originally in *Omega, The International Journal of Management Science*, 2, No. 4, 1974, 451-465; earlier circulated as *Working Paper CP-355*, Center for Research in Management Science, University of California, Berkeley, Oct. 1973].

1979

Paradise regained: a hope for the future of system design education. In B.A. Bayraktar, H. Müller-Merbach, J.E. Roberts, and M.G. Simpson (eds.), *Education in Systems Science*, NATO Conference Series, Report and Proceedings of the "Advanced Institute of Education in Systems Science" Conference held at Gras-Ellenbach, Germany, Feb. 21-25, 1978, Taylor and Francis, London, 1979, 17-22.

Systems science. In P.W. Hemily and M.N. Özdaz (eds.), *Science and Future Choice*, Oxford University Press/ Clarendon Press, Oxford, UK, Vol. 1, 1979, 218-231.

The dog that belonged to himself, or on the nature of the mind that believes the real world is essentially cybernetic. In K. Krippendorf (ed.), *Communication and Control in Society*, Gordon and Breach, London, 1979, 31-36.

Philosophical notes on public participation. In S.H. Smith and A.H. Rosenthal (eds.), *People and Wildlife: Public Involvement in Fish and*

Wildlife Administration, U.S. Fish and Wildlife Service, Department of the Interior, Washington, D.C., December 1979, 1-5.[Also in C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 9, 106-115].

The safety profession's image of humanity. In R.C. Schwing and W.A. Albers, Jr. (eds.), *Societal Risk Assessment: How Safe is Safe Enough?* Proceedings of the General Motors Symposium on Societal Risk Assessment, Warren, Michigan, October 7-9, 1979, Plenum Press, New York, 1980, 343-346.

1980

The status of the systems approach: a reply to R.A. Bryer. *Omega, The International Journal of Management Science*, 8, No. 3, 1980, 277-279 (with W. Ulrich).

How Good is IIASA? *Report to the National Science Foundation on an Evaluation of the International Institute of Applied Systems Analysis*, National Science Foundation, Arlington, Virginia, August 1980.

Intuition and information. In H.P. Holzer (ed.), *Management Accounting 1980*, Proceedings of the University of Illinois Management Symposium, University of Illinois Press, Urbana-Champaign, 1980, 167-176.

Systems thinking. In G.P. Wood and A.T. Mosher (eds.), *Readings in Agricultural Administration*, Agricultural Development Council, New York, 1980, 6-10.

1981

Self-images of the professional. In S.H. Smith and A.H. Rosenthal (eds.), *Emerging Patterns and Problems in Natural Resource Administration*, U.S. Fish and Wildlife Service, Department of the Interior, Washington, D.C., Feb. 1981, 4-7.

The systems approach and its enemies: counterpoint to Christenson's critique – a dialogue (with T.A. Cowan and W. Ulrich). *Journal of Enterprise Management*, 3, No. 2, 1981, 200-202.

Review of Peter Checkland's "Systems Thinking, Systems Practice" (Wiley, New York, 1981). *European Journal of Operational Research*, 11, 1981, 405-407.

On dictionaries. *Synthese*, 46, 1981, 449-454 [D. Reidel, Dordrecht, Holland; orig. title: The definition of psychological and social concepts (*Psychologistics* revisited), Paper presented to the Symposium in Memory of Richard Rudner, Washington University, St. Louis, Missouri, April 1980.]

Gown and town: planning our lives. In A. White (ed.), *New Directions for Teaching and Learning*, No. 8, Jossey-Bass, San Francisco, CA, 1981.

The measurement of mood and the mood of measurement. In R.O. Mason and E.b. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, MA, 1981, 74-79. [Originally published as "Suggestive, predictive, decisive, and systemic measurements" in *Journal of Safety Research*, 2, 1970, No. 3 (Sept.), 131-136. Also in W.E. Tarrants (ed.), *The Measurement of Safety Performance*, Garland STPM Press, New York, 1980, 129-136].

Trends in systems theory. In R.O. Mason and E.B. Swanson (eds.), *Measurement for Management Decision*, Addison-Wesley, Reading, MA, 1981, 152-159. [Originally published as "The Past's Future," *Internal Working Paper No. 118*, Social Sciences Project, Space Sciences Laboratory, University of California, Berkeley, March 1970. Also in W.E. Stone (ed.), *Foundations of Accounting Theory*, University of Florida Press, Gainesville, Florida, 1971; and as "Epilogue" in G.J. Klir (ed.), *Trends in General Systems Theory*, Wiley, New York, 1972].

1982

An interdisciplinary look at science policy in an age of decreased funding. In D.I. Phillips and B.S.P. Shen (eds.), *Research in the Age of the Steady-State University*, Westview Press, Boulder, Colorado, 1982, 109-113.

Reply to M.C. Jackson. *Journal of Applied Systems Analysis*, 9, 1982, 35.

Review of P.B. Checkland's "Systems Thinking, Systems Practice." *European Journal of Operational Research*, 11, 1982, 405-407.

Success of failure. In S.H. Smith and A.H. Rosenthal (eds.), *The Natural Resource Agency – Its People and Organization*, U.S. Fish and Wildlife Service, Department of the Interior, Washington, D.C., June 1982, 5-8. [Also as "Success of failure: the joys of dissatisfaction" in C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 3, 36-49].

Forty years in measuring human values. In C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 8, 95-105.

An appreciation of Edgar Arthur Singer, Jr. In C.W. Churchman, *Thought and Wisdom*, Intersystems Publications, Seaside, CA, 1982, Ch. 10, 116-135.

1983

The case against central planning research. In R.M. Thrall, R.G. Thompson and M.L. Holloway(eds.), *Large-Scale Energy Models: Prospects and Potential*, Westview Press, Boulder, Colorado, 1983, 25-27.

1984

Churchman's conversations. Regular column in *Systems Research*, Vols. 1-4, 1984-87 and Vol. 6, 1989.

Preface. In *The Vickers Papers*, ed. by Open Systems Group. Harper & Row, London, 1984, vif.

1987

Systems profile: discoveries in an exploration into systems thinking. *Systems Research*, 4, 1987, 139-146.

The development of the systems approach. *Video-taped interview* by K. Ivanov, Department of Informatics, University of Umeå, Umeå, Sweden, 30 April 1987.

Churchman's conversations: peace and science. *Systems Research*, 4, No. 4, 1987, 223-226.

1989

Preface. In C.W. Churchman (ed.), *The Well-Being of Organizations*, Intersystems Publications, Salinas, CA, 1989, i-iii.

Epilogue: reflections. In C.W. Churchman (ed.), *The Well-Being of Organizations*, Intersystems Publications, Salinas, CA, 1989, 367-368.

1990

Ackoff comes of age. *Systems Practice*, 3, No. 2, 1990, 125-130.

Towards a just society for future generations. Foreword to B.H. Banathy and B.A. Banathy (eds.), *Toward a Just Society for Future Generations*, Proceedings of the Thirty-Fourth Annual Meeting of the International Society for the Systems Sciences (ISSS), Portland, Oregon, July 8-13, 1990, 2 vols., ISSS/ California State Polytechnic University, Pomona, CA, 1990, Vol. 1, i-iii.

1992

A manifesto for the systems sciences: outrage over the state of science. *General Systems Bulletin*, 22, No. 1, 1992, 7-10 (with I.I. Mitroff).

MBA: Is the traditional model doomed? *Harvard Business Review*, 70, No. 6, 1992, 134-135 (with I.I. Mitroff).

Analysis of concepts. In J.-M. Choukroun and R.M. Snow (eds.), *Planning for Human Systems: Essays in Honor of Russell L. Ackoff*, University of Pennsylvania Press, Philadelphia, PA, 1992, 21-30.

1994

What is philosophy of science? Guest editorial, *Philosophy of Science*, 61, No. 1, 1994, 132-141. [Also as web publication, undated, approx. June 1997, <http://groups.haas.berkeley.edu/gem/essays/philos.html> (last accessed 10 April 2006)].

The management of science and the mismanagement of the world.

Knowledge and Policy, 7, No. 2, 1994, 64ff (with I.I. Mitroff).

ETHICS, Part I, Management. *Working Paper Series in Management Science*, MS-47, Walter A. Haas School of Business, University of California, Berkeley, 1994.

Management science: science of managing and managing of science. *Interfaces*, 24, 1994 (No. 4, Special Section: In Celebration of C. West Churchman's 80 Years), 99-110.

1995

Ethics and science. *Systems Research*, 12, 1995 (No. 4, Special Issue on Kenneth Boulding), 267-271.

On the fundamental importance of global ethical management: Why management is the most important of all human activities. Unpublished manuscript, University of California, Berkeley, 1995 (with I.I. Mitroff).

1996

What is philosophy of science? Undated web publication, undated, approx. June 1997. <http://groups.haas.berkeley.edu/gem/essays/philos.html> (last accessed 10 April 2006). [Originally published as Guest editorial, *Philosophy of Science*, 61, No. 1, 1994, 132-141].

A gift for future generations. Web publication, dated June 1996. <http://haas.berkeley.edu/~gem/gift.html> (last accessed 10 April 2006).

Global Ethical Management Seminar. *Video tape*, Walter A. Haas School of Business, University of California, Berkeley, 24 June 1996.

Introduction to a gEm [global ethical management] seminar. Web publication, dated Fall 1996. <http://haas.berkeley.edu/~gem/roughdraft/lecture1.html> (last accessed 10 April 2006).

Two ethical approaches: Kant and Bentham. gEm Lecture #1. Web publication, undated, approx. October 1996. <http://groups.haas.berkeley.edu/gem/lecture1/lect1.html> (last accessed 10 April 2006).

The ethical core. The gEm Lectures Series, 2nd lecture. Web publication, dated 12 October 1996. <http://haas.berkeley.edu/~gem/roughdraft/lecture2.html> (last accessed 10 April 2006).

1997

Introduction to the gEm [global ethical management] design of inquiring systems seminar experiment. Web publication, June 1997. http://haas.berkeley.edu/~gem/gemdisse_intro.html (last accessed 10 April 2006).

First request for written responses to participants in the gEm design of inquiring systems seminar experiment. Web publication, 1 June 1997.

<http://haas.berkeley.edu/~gem/questions1.html> (last accessed 10 April 2006).

Second request for written responses to participants in the gEm design of inquiring systems seminar experiment. Web publication, 14 July 1997.

<http://haas.berkeley.edu/~gem/questions2.html> (last accessed 10 April 2006).

A philosophy for complexity, from *Managing Complexity*. Web publication, undated, approx. June 1997, <http://haas.berkeley.edu/~gem/essays/complex.html> (last accessed 10 April 2006). [Originally published in H.A. Linstone and W.H. Simmonds (eds.), *Managing Complexity*, Addison-Wesley, Reading, Mass., 1977].

The theory of the firm: an epistemological analysis. *Systems Practice*, 10, 1997, 657-676 (with N. Verma).

1998

Poverty and development. *Human Systems Management*, 17, No. 1, 9-13.

Is "infinite kindness" an ethical guide for management? In A.G. Bedeian (ed.), *Management Laureates: A Collection of Autobiographical Essays*, Vol. 5, JAI Press, Greenwich, Connecticut, 1998, 41-92.

1999

Foreword. In N. Verma, *Similarities, Connections, and Systems: The Search for a New Rationality for Planning and Management*, Lanham, Maryland, 1999, xv-xviii.

2001

Introduction to the special issue (with J.F. Courtney and G.L. Sanders). In C.W. Churchman, J.F. Courtney, and G.L. Sanders (eds.), Special Issue on Philosophical Reasoning in Information Systems Research, *Information Systems Frontiers*, 3, No. 2, 2001, 139-141.

Acknowledgments

The author would like to thank Kristo Ivanov, Umeå, Sweden, and Harold G. Nelson, Seattle, Washington, for their help in compiling this bibliography.

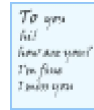
The photo of West Churchman is due to Professor Emeritus Arnold M. Schultz, College of Natural Resources, University of California, Berkeley, homepage: <http://nature.berkeley.edu/~schultz/> (last accessed 6 Jan. 2004).

An earlier, less complete version of this bibliography was first published in 1999 as an appendix to the essay "An appreciation of C. West Churchman (with an extensive bibliography from 1938 to 2000)" in the Section "Luminaries of the System Approach" of the web site of the International Society for the Systems Sciences (ISSS), under the deactivated URL

<http://www.issw.org/lumCWC.htm> . The current, comprehensive bibliography was first published in the present site in November 2002 and has been continuously updated since.

Note: Users of this bibliography are invited to draw the author's attention to possible errors or omissions. Please email the author using the link provided here >>

Feedback and suggestions on this bibliography are invited through this email link:



You can also find an email link on the "Contact page" of this site. Thank you.

About the Author

Werner Ulrich was born in 1948 in Bern, Switzerland. He obtained doctorates in Economics and Social Science (Dr.rer.pol., 1975) from the University of Fribourg, Switzerland, and in Philosophy of Social Systems Design (Ph.D., 1980) from the University of California at Berkeley. At Berkeley he studied and worked for five years with C. West Churchman. He has since become known as a pioneer of Critical Systems Thinking (CST), which he understands as the use of systemic thinking in the service of reflective practice and research.

Ulrich has many years of experience as chief evaluator of public health and social welfare in the Canton of Bern and as professor of social planning, program evaluation, poverty research, and critical systems thinking at the University of Fribourg and other universities. He has been visiting professor of critical systems thinking at the Centre for Systems Studies of the University of Hull, Hull, UK, at the Lincoln School of Management of the University of Lincoln, Lincoln, UK, and at the Department of Management of Canterbury University in Christchurch, New Zealand (Erskine Science Prestige Fellowship), and currently is Honorary Visiting Professor in the Technology Faculty (Centre for Complexity and Change) of The Open University, Milton Keynes, UK.

Among some 150 publications, his major book thus far is *Critical Heuristics of Social Planning: A New Approach to Practical Philosophy* (Haupt, Bern, 1983, Wiley paperback reprint edition, New York, 1994). His current research program "CST for Professionals and Citizens" explores the ways critical systems thinking can contribute to responsible professional practice and to preparing citizens for their role in a living civil society.

**Links to related materials on C.W. Churchman
available on this web site:**

1 *A Tribute to C. West Churchman (Introductory Page)*

C. West Churchman, my former teacher and mentor at the University of California, Berkeley, is one of the outstanding pioneers of the "systems approach." Find some material about him here, including an extensive bibliography and three tribute articles dedicated to West, in which I tried to appreciate the importance that his thinking (and my experience of working with him during five years) had for my work on critical systems heuristics.

- [HTML version](#)

2 *An Appreciation of C. West Churchman*

Revised and expanded version of the author's essay "C. West Churchman – 75 years," originally published as a guest editorial to a special issue in honor of Churchman in *Systems Practice*, Vol. 1, No. 4, 1988, pp. 341-350. Earlier revision were published in 1999 in the Section "Luminaries of the Systems Approach" of the web site of the International Society for the Systems Sciences (ISSS) at <http://www.iss.org/lumCWC.htm> (relocated to http://projects.iss.org/C_West_Churchman and reformatted as a Wiki page in January 2005), and in the present site in 2002. The present version has been last revised on 26 March 2009.

- [HTML version](#) (revised version of 20 March 2009)
- [PDF version](#) [256 KB] (revised version of 20 March 2009)

3 *In Memory of C. West Churchman (1913-2004): Reminiscences, Retrospectives, and Reflections*

Prepublication version (original layout file) of a tribute paper written after the passing of my former teacher at Berkeley, and published in the *Journal of Organisational Transformation and Social Change*, 1, Nos. 2-3, 2004, pp. 199-219. A revised short version was published under the title "Obituary: C. West Churchman, 1913-2004" in the *Journal of the Operational Research Society*, 55, No. 11, pp. 1123-1129.

- [PDF version](#) [324 KB]

4 *Honoring C.W. Churchman: Towards Future-Responsive Management*

Prepublication version of a contribution to a Special Section of the journal *Interfaces* in celebration of West Churchman's 80th birthday, titled "Can we secure future-responsive management through systems thinking and design?"

- [HTML version](#) (revised version of 26 March 2009)
- [PDF version](#) [269 KB] (revised version of 26 March 2009)

5 *Churchman's Process of Unfolding : An Appreciation from the Viewpoint of Critical Systems Heuristics*

Prepublication version of a contribution to a Special Issue of *Systems Practice*, Vol. 1, No. 4, 1988, in celebration of C.W. Churchman's 75 years.

- [HTML version](#) [in prep.]
- [PDF version](#) [in prep.]

6 *Obituary notice*

Extract from: "C. West Churchman -- groundbreaking philosopher," Obituary that appeared in the *San Francisco Chronicle* of 25 March 2004.

- [HTML version](#)

7 *Picture of the Month: C. West Churchman (1913-2004)*

A photographic portrait of my teacher, written shortly after his death, with a short

biography, a press release of the University of California at Berkeley, excerpts from West Churchman's writings, and links to further sources.

- [HTML version](#)

© 2002-2009 by Werner Ulrich

Non-commercial use, distribution and citation of this publication are permitted on the condition that accurate reference is given to all material used.

Suggested citation: Ulrich, W. (2002). A bibliography of C.W. Churchman's writings from 1938 to 2001. (Rev. version, 27 March 2009.) *Werner Ulrich's home page*, Section "A Tribute to C. West Churchman," http://geocities.com/csh_home/cwc_bibliography.html .

Content last updated 27 Mar 2009 (first published 29 Aug 1999, this expanded version 29 Nov 2002)
Links updated 8 Jul 2008, layout last modified 27 Mar 2009

[Home](#)

[Top / Menu](#)

[Site Map](#)

[Copyright](#)