

TDE BIOLOGICAL COMPUTER LABORATORY

A U T H O R I N D E X

1957 - 1976

Kenneth L. Wilson

John D. Day

NOTATIONS AND CONVENTIONS

Multiple Author references - an asterisk "*" will appear after the first author.

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A

A
G

Ainsworth, W. A.: "Electrolytic Growth of Silver Dendrites",
Science, Vol. 146, 1294-1295 (1964).

also

ELECTROLYTIC GROWTH OF SILVER DENDRITES,
Biological Computer Laboratory, University of Illinois, Urbana,
10 pp. (1964).

BCL # 99

BCL TF # 8.1

Fiche # 1/1

Amiot, L. W., H. Von Foerster*, & P. M. Mora: "Doomsday: Friday,
13 November, A. D. 2026",
Science, Vol. 132, 1291-1295 (1960).

also

DOOMSDAY, FRIDAY, NOVEMBER 13, 2026 A. D. ± 2000 DAYS,
Biological Computer Laboratory, University of Illinois, Urbana,
15 pp. (1960).

BCL # 35

BCL TR # 2.2

Fiche # 87/6

Amiot, L. W., H. Von Foerster*, & P. M. Mora: "Doomsday",
Science, Vol. 133, 936-946 (1961).

BCL # 57

Fiche # 87/6

Amiot, L. W., H. Von Foerster*, & P. M. Mora: "Population Density
and Growth",
Science, Vol. 133, 1931-1937 (1961).

BCL # 59

Fiche # 87/6

Amiot, L. W., H. Von Foerster*, & P. M. Mora: "'Projections' versus
'Forecasts' in Human Population Studies",
Science, Vol. 136, 173-174 (1962).

BCL # 85

Fiche # 87/6

Andrew, A. M.: "An Electrophysiological Investigation of Learning
in the Earthworm",
in INFORMATION, RECEPTION AND PROCESSING BY ORGANISMS:
PROCEEDINGS OF THE CYBERNETICS CONFERENCE OF THE NTG and VDE,
A. Hirzel Verlag, Stuttgart, 158-166 (1961).

BCL # 38a

Fiche # 1/1

Andrew, A. M. with an Introduction by H. Von Foerster: TABLE OF THE STIRLING NUMBERS OF THE SECOND KIND,
Biological Computer Laboratory, University of Illinois; Urbana,
176 pp. (1965).
BCL TR # 6.5
Fiche # 1/2 & 2

Andrew, A. M.: AUTOMATIC ADJUSTMENT IN A CONTINUOUS ENVIRONMENT,
Biological Computer Laboratory, University of Illinois; Urbana,
19 pp. (1965).
BCL TR # 6.7
Fiche # 3/1

Andrew, A. M.: SIGNIFICANCE FEEDBACK IN NEURAL NETS,
Biological Computer Laboratory, University of Illinois; Urbana,
12 pp. (1965).
BCL TR # 8.5
Fiche # 3/2

Andrew, A. M.: "Self-Improvement Using a Disturbed Measure of Goal-Achievement",
IFAC Congress; London, 29 pp. (1966).
BCL # 112a
Fiche # 3/3

Andrew, A. M.: "A Beam-Blanking Circuit",
Electronic Engineering, Vol. 38 (456), 90-91 (1966).
also
1) COUNTING TO 1,099,508,482,050 WITHOUT CARRIES,
2) A BEAM-BLANKING CIRCUIT,
Biological Computer Laboratory, University of Illinois, Urbana,
6 pp. (1966).
BCL # 122
BCL Report # 4.0
Fiche # 3/6

Andrew, A. M.: "Counting to 1,099,508,482,050 Without Carries",
Electronic Engineering, Vol. 38 (457), 172-175 (1966).
also
1) COUNTING TO 1,099,508,482,050 WITHOUT CARRIES,
2) A BEAM-BLANKING CIRCUIT,
Biological Computer Laboratory, University of Illinois; Urbana,
6 pp. (1966).
BCL # 123
BCL Report # 4.0
Fiche # 3/6

Andrew, A. M.: "To Model or Not to Model",
Kybernetik, Vol. 3, 272-275 (1967).
BCL # 142
Fiche # 3/7

Arnold, P.: "Experiencing the Fourth Spatial Dimension",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory
University of Illinois; Urbana, 201-216 (1971).
BCL Report # 71.2
Fiche # 132/6

Arnold, P.* , B. Aton, D. Rosenfeld, K. Saxena, & H. Von Foerster: "Diversity ~~H~~
A Measure Complementing Uncertainty H",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 159-181 (1972).
also
"Diversity; ~~H~~ A Measure Complementing Uncertainty H",
in Cahiers SYSTEMA, Vol. 2, 13-35 (1974).
BCL Report # 72.2
BCL # 242
Fiche # 134/4

Arnold, P.: "A Proposal for a Study of the Mechanisms of the
Perception of and Formation of Internal Representations of the
Spatial Fourth Dimension",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 223-236 (1972).
BCL Report # 72.2
Fiche # 135/3

Ashby, W. R.: "Cybernetics",
Recent Progress in Psychiatry, Vol. III; London, 94-117 (1958).
BCL # 1
Fiche # 4/1

Ashby, W. R.: "Requisite Variety and Its Implications for the
Control of Complex Systems",
Cybernetica, Vol. I (2), 83-99 (1958).
BCL # 2
Fiche # 4/3

Ashby, W. R.: "The Mechanism of Habituation",
in MECHANIZATION OF THOUGHT PROCESSES, PROCEEDINGS OF THE
NATIONAL PHYSICAL LABORATORY SYMPOSIUM, S4-4, Her Majesty's
Stationery Office; London, 1-21 (1958).
BCL # 7
Fiche # 4/4

Ashby, W. R.: "Applications of Cybernetics to Biology and Sociology",
(translated) in VOSPROSII PHILOSOPHII; Moscow (1959).
BCL # 6
not included

Ashby, W. R.: "The Brain as Regulator",
Nature, Vol. 185, 413 (1960).
BCL # 18
Fiche # 4/5

Ashby, W. R.: "Computers and Decision Making",
The New Scientist, Vol. 7, 746 (1960).
BCL # 19
Fiche # 4/6

Ashby, W. R.: "Cybernetics in Medicine",
PROCEEDINGS 1st INTERNATIONAL CONGRESS OF CYBERNETIC MEDICINE,
A. Masturzo (ed.); Naples, 179-180 (1960).
BCL # 20
not included

Ashby, W. R.: DESIGN FOR A BRAIN,
John Wiley and Sons; New York, ix + 260 (2nd Edition, 1960).
BCL # 21
not included

Ashby, W. R.: "The Relativity of 'Meaning'",
Nature, Vol. 187, 532 (1950).
BCL # 22
Fiche # 4/6

Ashby, W. R.* & J. Riguet: "The Avoidance of Overwriting in
Self-Organizing Systems",
Journal of Theoretical Biology, Vol. 1, 431-439 (1961).
BCL # 39
Fiche # 4/6

Ashby, W. R.: "Homeostasis",
in ENCYCLOPEDIA OF THE BIOLOGICAL SCIENCES, P. Gray (ed.),
Reinhold Publishing Corp.; New York, (1961).
BCL # 41
Fiche # 5/1

Ashby, W. R.: CYBERNETICS TODAY AND ITS FUTURE CONTRIBUTION TO THE ENGINEERING SCIENCES: THE FIFTH DISTINGUISHED LECTURE 1961, Foundation for Instrumentation Education and Research; New York, 16 pp. (1961).

also in GENERAL SYSTEMS: YEARBOOK OF THE SOCIETY FOR GENERAL SYSTEMS RESEARCH, Vol. VIII, L. Von Bertalanffy & Anatol Rapoport (eds.), Society for General Systems Research; New York, (1963).

BCL # 42

Fiche # 4/7

Ashby, W. R.: "Brain",
in GROLIER ENCYCLOPEDIA, Grolier Society, Inc.; New York (1961).
BCL # 43
not included

Ashby, W. R.: "What IS an Intelligent Machine?",
in PROCEEDINGS OF THE WESTERN JOINT COMPUTER CONFERENCE;
Los Angeles, 275-280 (1961).

BCL # 44

Fiche # 5/1

Ashby, W. R.* C. C. Walker, & H. Von Foerster:
THRESHOLD AND STABILITY IN LARGE NETWORKS,
Biological Computer Laboratory, University of Illinois; Urbana,
28 pp. (1962).
BCL TR # 4.3
Fiche # 5/2

Ashby, W. R.: "The Set Theory of Mechanism and Homeostasis",
in YEARBOOK OF THE SOCIETY FOR GENERAL SYSTEMS RESEARCH, Vol. IX,
L. Bertalanffy, & A. Rapoport (eds.), Society for General
Systems Research; Ann Arbor, 83-97 (1964).

also in

AUTOMATON THEORY AND LEARNING SYSTEMS,
D. J. Stewart (ed.), Academic Press; London, 23-51 (1967).

also

THE SET THEORY OF MECHANISM AND HOMEOSTASIS,
Biological Computer Laboratory, University of Illinois; Urbana,
44 pp. (1962).

BCL # 178

BCL TR # 4.7

Fiche # 5/4

Ashby, W. R.: "Frontiers of Integrated Automatic Control--What Can We Learn From the Brain?",
in PROCEEDINGS OF THE JOINT AUTOMATIC CONTROL CONFERENCE, A.I.E.E.;
New York, 1-3 (1962).
BCL # 63
not included

Ashby, W. R.*, H. Von Foerster, & C. C. Walker: "Instability of Pulse Activity in a Net With Threshold",
Nature, Vol. 196, 561-562 (1962).
BCL # 64
Fiche # 5/6

Ashby, W. R.: "Principles of the Self-Organizing System",
in PRINCIPLES OF SELF-ORGANIZATION, H. Von Foerster & G. W. Zopf, Jr.
(eds.), Pergamon Press; New York, 255-278 (1962).
BCL # 65
Fiche # 6/1

Ashby, W. R.: "The Self-Reproducing System",
in ASPECTS OF THE THEORY OF ARTIFICIAL INTELLIGENCE: PROCEEDINGS 1st INTERNATIONAL SYMPOSIUM ON BIOSIMULATION, C. A. Muses (ed.),
Plenum Press; New York, 9-18 (1962).
BCL # 66
Fiche # 5/7

Ashby, W. R.: "Simulation of a BRain",
in COMPUTER APPLICATIONS IN THE BEHAVIORAL SCIENCES, H. Borko (ed.),
Plenum Press; New York, 452-466 (1962).
BCL # 67
Fiche # 6/3

Ashby, W. R.* & J. K. Russell: MANUALLY OPERATED ROBOT OR NETWORK--A GENERAL PURPOSE ANALOG MACHINE FOR TEACHING AND RESEARCH,
Biological Computer Laboratory, University of Illinois; Urbana,
26 pp. (1963).
BCL TR # 4.8
Fiche # 6/4

Ashby, W. R.*, H. Von Foerster, & C. C. Walker: "The Essential Instability of Systems With Threshold and Some Possible Applications to Psychiatry",
in NERVE, BRAIN AND MEMORY MODELS, N. Wiener & J. P. Schade (eds.)
Elsevier Publishing Co.; New York, 236-243 (1963).
BCL # 88
Fiche # 6/6

Ashby, W. R.: "Induction, Prediction and Decision-Making in Cybernetic Systems",
in INDUCTION: SOME CURRENT ISSUES, H. E. Kyburg & E. Nagel (eds.),
Wesleyan University Press; Connecticut, 55-56 (1963).
BCL # 89
Fiche # 6/7

Ashby, W. R.: "Systems and Information",
IEEE Transactions on Military Electronics, MIL-7 (2/3), 94-97 (1963).
BCL # 90
Fiche # 7/1

Ashby, W. R.: CONSTRAINT ANALYSIS OF MANY-DIMENSIONAL RELATIONS,
Biological Computer Laboratory, University of Illinois; Urbana,
17 pp. (1964).
BCL TR # 6.1
Fiche # 7/1

Ashby, W. R.* & H. Von Foerster: "Biological Computers",
in BIOASTRONAUTICS, K. E. Schaefer (ed.), The Macmillan Co.;
New York, 333-350 (1964).
BCL # 108
Fiche # 7/3

Ashby, W. R.: "Introductory Remarks at a Panel Discussion",
in VIEWS ON GENERAL SYSTEMS THEORY, M. D. Mesarovic (ed.),
John Wiley & Sons; New York, 165-169 (1964).
BCL # 108a
Fiche # 7/5

Ashby, W. R.: "Constraint Analysis of Many-Dimensional Relations",
in PROGRESS IN BIOCYBERNETICS, Vol. 2, N. Wiener & J. P. Schade (eds.),
Elsevier Publishing Co.; New York, 10-18 (1965).
also in
GENERAL SYSTEMS; YEARBOOK OF THE SOCIETY FOR GENERAL SYSTEMS
RESEARCH, Vol. IX, L. Von Bertalanffy and A. Rapoport (eds.),
Society for General Systems Research; Ann Arbor, 99-105 (1964).
BCL # 114
Fiche # 7/5

Ashby, W. R.: "Brain and Computer",
in 3rd INTERNATIONAL CONGRESS OF CYBERNETICS, 1961, Association
Internationale de Cybernetique; Namur, 778-793 (1965).
BCL # 40
Fiche # 8/1

Ashby, W. R.: "Measuring the Internal Informational Exchange in a System",
Cybernetica, Vol. 8, 5-22 (1965).
BCL # 113
Fiche # 7/6

Ashby, W. R.: "Mathematical Models and Computer Analysis of the Function of the Central Nervous System",
in ANNUAL REVIEW OF PHYSIOLOGY, Vol. 28, V. E. Hall, A. C. Giese & R. R. Sonnenschein (eds.), Annual Reviews, Inc.; Palo Alto, Calif., 89-106 (1966).
BCL # 125
Fiche # 8/2

Ashby, W. R.: "Modeling the Brain",
in PROCEEDINGS IBM SCIENTIFIC COMPUTING SYMPOSIUM ON SIMULATION MODELS AND GAMING, IBM Watson Research Center; New York, 195-208 (1966).
BCL # 126
Fiche # 8/3

Ashby, W. R. & C. C. Walker*: "On Temporal Characteristics of Behavior in Certain Complex Systems",
Kybernetick, Vol. 3 (2), 100-108 (1966).
also
ON TEMPORAL CHARACTERISTICS OF BEHAVIOR IN CERTAIN COMPLEX SYSTEMS,
Biological Computer Laboratory, University of Illinois; Urbana, 9 pp. (1966).
BCL # 127
BCL Report # 5.5
Fiche # 108/7

Ashby, W. R.: "The Place of the Brain in the Natural World",
Currents in Modern Biology, Vol. 1 (2), 95-104 (1967).
BCL # 141
Fiche # 8/5

Ashby, W. R.: "The Brain of Yesterday and Today",
in 1967 IEEE INTERNATIONAL CONVENTION RECORD, Vol. 15, part 9, 30-33 (1967).
BCL # 146
Fiche # 9/1

Ashby, W. R.: "Homeostasis",
in ENCYCLOPEDIA OF BIOCHEMISTRY, R. J. Williams and
E. M. Lansford, Jr. (eds.), Reinhold Publishing Corp.; New York,
411-412 (1967).
BCL # 148
Fiche # 9/1

Ashby, W. R.: "Cybernetics of the Large System",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 2C-22 (1967).
BCL Report # 67.2
Fiche # 118/2

Ashby, W. R. & R. Conant*: "Information, Transmission and
Redundancy in Regulatory Systems",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 53-59 (1967).
BCL Report # 67.2
Fiche # 118/4

Ashby, W. R. & E. Marzullo*: "Confluents and Their Graphical
Representation",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 61-66 (1967).
BCL Report # 67.2
Fiche # 118/5

Ashby, W. R & R. Stinaff: "An Automatic Stochastic Predictor (ASP)",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 83-87 (1967).
BCL Report # 67.2
Fiche # 118/6

Ashby, W. R. & S. Powers*: "A Stochastic Switching Element",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 91-95 (1967).
BCL Report # 67.2
Fiche # 118/7

Ashby, W. R.* & C. C. Walker: "Genius",
in FOUNDATIONS OF ABNORMAL PSYCHOLOGY, D. Rosenhan & P. London (eds.),
Holt, Rinehart and Winston, Inc.; New York, 201-225 (1968).
BCL # 124
Fiche # 8/6

Ashby, W. R.: "Information Processing in Everyday Human Activity",
Bioscience, Vol. 18 (3), 190-192 (1968).
BCL # 151
Fiche # 9/1

Ashby, W. R.: "The Contribution of Information Theory to Pathological
Mechanisms in Psychiatry",
British Journal of Psychiatry, Vol. 14, 1485-1498 (1968).
BCL # 164
Fiche # 9/2

Ashby, W. R.: "Some Consequences of Bremermann's Limit for
Information-Processing Systems",
in CYBERNETIC PROBLEMS IN BIONICS, H. Oestreicher & D. Moore (eds.),
Gordon & Breach Science Publishers; New York, 69-76 (1968).
BCL # 179
Fiche # 9/3

Ashby, W. R.: "Properties of Complex Dynamic Systems",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 21-24 (1968).
BCL Report # 68.2
Fiche # 121/6

Ashby, W. R.: "Two Tables of Identities Governing Information
Flows Within Large Systems",
Communication of the American Society for Cybernetics, Vol. 1 (2),
3-8 (1969).
BCL # 186
Fiche # 9/4

Ashby, W. R.* "Information Flows Within Co-ordinated Systems",
in INTERNATIONAL CONGRESS OF CYBERNETICS, J. Rose (ed.),
London, 57-64 (1969).
BCL # 203
Fiche # 9/5

Ashby, W. R.: "Properties of Complex Dynamic Systems",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 16-19 (1969).
BCL Report # 69.2
Fiche # 124/3

Ashby, W. R.: "Energy and Signal",
International Journal of Neuro-science, Vol. 1, 95-98 (1970).
BCL # 193
Fiche # 9/4

Ashby, W. R.: "Chance Favors The Mind Prepared",
Science, Vol. 168, 777 (1970).
BCL # 240
not included

Ashby, W. R.: "Systems and Their Informational Measures",
in TRENDS IN GENERAL SYSTEMS THEORY, G. Klir (ed.), Wiley-
Interscience; New York, 78-97 (1972).
BCL # 225
Fiche # 9/5

Ashby, W. R. & R. Conant*: "Every Good Regulator of a System Must
Be A Model of the System",
International Journal of Systems Science, Vol. 1 (2), 89-97 (1970).
BCL # 202
Fiche # 20/7

Ashby, W. R.: "Analysis of the System to be Modeled",
in THE PROCESS OF MODEL-BUILDING IN THE BEHAVIORAL SCIENCES,
Ralph M. Stogdill (ed.), W.W. Norton; New York, 94-114 (1972).
BCL # 247
Fiche # 10/2

Ashby, W. R.: "Editorial",
Behavioral Science, Vol. 18 (1), 1-6 (1973).
BCL # 226
Fiche # 9/7

Ashby, W. R. & M. R. Gardner*: "Connectance of Large Dynamic (Cybernetic)
Systems: Critical Values for Stability",
Nature, Vol. 228, 784 (1970).
BCL # 194
Fiche # 28/4

Ashby, W. R., H. Tuttle*, & K. Kokjer: A TABLE OF ENTROPIES
ASSOCIATED WITH SIMPLE PARTITIONS,
Biological Computer Laboratory, University of Illinois; Urbana,
127 pp. (1970).
BCL Report # 1.1
Fiche # 82/1 & 83

Ashby, W. R. & R. F. Madden*: "The Identification of Many-
Dimensional Relations",
International Journal Systems Science, Vol. 3 (4), 343-356 (1972).
BCL # 233
Fiche # 53/5

A S

I F

Ashby, W. R.: "Setting Goals in Cybernetic Systems",
in CYBERNETICS, ARTIFICIAL INTELLIGENCE AND ECOLOGY, H. W.
Robinson and D. E. Knight (eds.), Spartan Books; New York,
33-44 (1972).
BCL # 238
Fiche # 10/1

Ashby, W. R.: "Bibliography",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois, Urbana, 18-22 (1974).
BCL Report # 73.38
Fiche # 143

Aton, B., P. Arnold*, D. Rosenfeld, K. Saxena, & H. Von Foerster:
"Diversity: H , A Measure Complementing Uncertainty H ",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 159-181 (1972).
also in
Cahiers SYSTEMA, Vol. 2, 13-35 (1974).
BCL Report # 72.2
BCL # 242
Fiche # 134/6

Atwood, J. W.: "Research Tools for Speech Analysis and Synthesis",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 170-172 (1968).
BCL Report # 68.2
Fiche # 123/2

Atwood, J. W., M. Babcock*, M. P. Hoffman, & J. R. Cohen: SEARCH
AND EVALUATION OF SIGNIFICANT EVENT SEQUENCES IN AUTOMATED SPEECH
ANALYSIS,
Biological Computer Laboratory, University of Illinois; Urbana,
73 pp. (1969).
BCL TR # 11.1
Fiche # 13/5 & 14

Atwood, J. W.: "Speech Synthesis",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 221-227 (1969).
BCL Report # 69.2
Fiche # 126/4

Atwood, J. W.: PULSE INTERVAL REPRESENTATION OF SPEECH EVENTS,
Biological Computer Laboratory, University of Illinois; Urbana,
67 pp. (1970).

also

Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
67 pp. (1970).
BCL TR # 6.22
BCL TR # 11.4
BCL # 207
Fiche # 10/4

Atwood, J. W.: "On The Automatic Recognition of Vowels",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 305-307 (1970).

BCL Report # 70.2
Fiche # 129/6

Atwood, J. W.: "Research on the Information-Bearing Attributes
of Speech",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 296-304 (1970).
BCL Report # 70.2
Fiche # 129/6

Babcock, M.: REORGANIZATION BY ADAPTIVE AUTOMATION,
Biological Computer Laboratory, University of Illinois; Urbana,
141 pp. (1960).

BCL TR # 1.1

also

Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
141 pp. (1960).
BCL TR # 1.1
BCL # 23
Fiche # 11/1 & 12

Babcock, M.: "Resolution and Circuitry of Non-Sequential Property
Filters",
in SOME PRINCIPLES OF PREORGANIZATION IN SELF-ORGANIZING
SYSTEMS, M. Babcock et al, Biological Computer Laboratory,
University of Illinois; Urbana, 70-80 (1960).

BCL TR # 1.2

Fiche # 116/6

Babcock, M. : "Some Physiology of Automata",
in PROCEEDINGS OF THE WESTERN JOINT COMPUTER CONFERENCE;
Los Angeles, 291-293 (1961).
BCL # 45
Fiche # 12/4

Babcock, M.* , R. Erickson, & D. Neill: A DYNAMIC SIGNAL ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
77 pp. (1962).
BCL TR # 3.3
Fiche # 12/5 & 13

Babcock, M. : "Some Uses and Misuses of Bio-Computer Philosophy",
in 1964 WESTERN ELECTRONIC SHOW AND CONVENTION, Session 3;
Los Angeles, 1-7 (1964).
BCL # 100
Fiche # 13/4

Babcock, M.* & I. Thomas: INFORMATION PROCESSING CAPABILITIES OF THE
UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
9 pp. (1964).
BCL TR # 9.1
not included

Babcock, M.* , J. Gazdag, & I. Thomas: INFORMATION PROCESSING
CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL
ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
BCL TR # 9.2
not included

Babcock, M.* , J. Gazdag, D. Steidinger, & I. Thomas: INFORMATION
PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC
SIGNAL ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
72 pp. (1965).
BCL TR # 9.3
not included

Babcock, M.* , J. Gazdag, & I. Thomas: INFORMATION PROCESSING
CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL
ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
8 pp. (1965).
BCL TR # 9.5
not included

Babcock, M.*, J. Gazdag, & I. Thomas: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
76 pp. (1960)
BCL TR # 9.6
not included

Babcock, M.: "Speech Characterization, i.e., Analysis, Synthesis, and Recognition",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 125-142 (1968).
BCL Report # 68.2
Fiche # 122/6

Babcock, M.: "Speech Analysis, Synthesis, and Recognition",
in ANNUAL INVENTORY OF RESEARCH, Biological Computer Laboratory,
University of Illinois; Urbana, 25-28 (1968).
BCL Report # 68.3
Fiche # 123/7

Babcock, M.*, J. W. Atwood, M. P. Hoffman, & J. R. Cohen: SEARCH AND EVALUATION OF SIGNIFICANT EVENT SEQUENCES IN AUTOMATED SPEECH ANALYSIS,
Biological Computer Laboratory, University of Illinois; Urbana,
73 pp. (1969).
BCL TR # 11.1
Fiche # 13/5 & 14

Babcock, M.: "Search and Evaluation of Significant Event Sequences in Automated Speech Analysis",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 150-159 (1969).
BCL Report # 69.2
Fiche # 125/6

Babcock, M.: "An Approach to the Elimination of the Free Response Distortion of an Electrical Network",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 204-212 (1969).
BCL Report # 69.2
Fiche # 126/3

Babcock, M.: "Search and Evaluation of Significant Event Sequences in Automated Speech Analysis",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 73-80, (1970).
BCL Report # 70.2
Fiche # 127/4

Babcock, M.: "Asynchronous Sampling of Speech and Its Evaluation",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 263-270 (1970).
BCL Report # 70.2
Fiche # 129/3

Babcock, M.* & J. Cohen: "Speech Research of the Past as a Guide for the Future",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 147-160 (1971).
BCL Report # 71.2
Fiche # 132/

Babcock, M.: "Asynchronous Sampling of Speech With Some Vocoder Experimental Results",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 243-273 (1972).
BCL Report # 72.2
Fiche # 131/5

Badenoch, B. & K. Saxena*: "H: A Measure of Uncertainty (Entropy) of Distribution Functions",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 161-167 (1971).
BCL Report # 71.2
Fiche # 132/3

Baldwin, C. & H. Niemann*: "Random Networks",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 59-60 (1967).
BCL Report # 67.2
Fiche # 118/5

Baldwin, C., H. Niemann*, H. Von Foerster: "Growth of Undifferentiated Tissue",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 71-72 (1967).
BCL Report # 67.2
Fiche # 118/5

Beauchamp, J. W. & H. Von Foerster* (eds.): MUSIC BY COMPUTERS,
Wiley and Sons; New York, 139 pp. (1969).
BCL # 163
nci included

Bielowski, H.: AN OBJECTIVE FUNCTION FOR COMPUTER SYSTEMS SCHEDULING,
Biological Computer Laboratory, University of Illinois; Urbana,
17 pp. (1968).
BCL Report # 4.2
Fiche # 14/3

Bielowski, H.: "An Objective Function For The Scheduling Routines
of a Time-Sharing System",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 87-94 (1968).
BCL Report # 68.2
Fiche # 122/3

Biss, K.: SYNTACTIC ANALYSIS FOR THE R2 SYSTEM,
Biological Computer Laboratory, University of Illinois; Urbana,
34 pp. (1968).
BCL TR # 12.2
Fiche # 14/5

Bordeaux, J.: "Computers and Graphics",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 193-200 (1971).
BCL Report # 71.2
Fiche # 132/5

Brecher, G.*., E. P. Cronkite, & H. Von Foerster: "Produktion,
Ausreifung und Lebensdauer der Leukozyten",
in PHYSIOLOGIE UND PHYSIOPATHOLOGIE DER WEISSEN BLUTZELLEN,
H. Braunsteiner (ed.), Georg Thieme Verlag; Stuttgart,
188-214 (1959).
BCL # 16
Fiche # 15/1

Brecher, G.*., E. F. Cronkite, & H. Von Foerster: "Production,
Differentiation and Lifespan of Leukocytes",
in THE PHYSIOLOGY AND PATHOLOGY OF LEUKOCYTES,
H. Braunsteiner (ed.), Grune and Stratton; New York, 170-195 (1962).
BCL # 84
Fiche # 15/3

Brieske, G., D. Cohen*, & H. Von Foerster: A FORMAL MODEL OF
OPTIMIZATION IN A STATIONARY STOCHASTIC ENVIRONMENT,
Biological Computer Laboratory, University of Illinois: Urbana,
17 pp. (1967).
BCL Report # 7.1
Fiche # 19/6

Brieske, G. & E. R. Gruberg*: LA PALOMA - A SELF-ORGANIZING SYSTEM,
Biological Computer Laboratory, University of Illinois; Urbana,
19 pp. (1967).
BCL Report # 7.2
Fiche # 30/2

Brieske, G. & E. Gruberg*: "La Paloma: An Adaptive Teaching
Automaton",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 87-90 (1967).
BCL Report # 67.2
Fiche # 118/7

Brieske, G.: "La Paloma",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory.
University of Illinois; Urbana, 175-181 (1968).
BCL Report # 68.2
Fiche # 123/3

Brieske, G. : THE ANALYSIS AND SYNTHESIS OF A LEARNING TEACHING
SYSTEM,
Biological Computer Laboratory, University of Illinois; Urbana,
94 pp. (1969).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois;
Urbana, 93 pp. (1969).
BCL TR # 6.15
BCL # 174
Fiche # 15/5 & 16

Brieske, G.: "A Model of an Organism With a Multilevel Goal
Structure and a Heterarchical Competitive Control of Its
Overt Behavior",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 113-149 (1969).
BCL Report # 69.2
Fiche # 125/3

Brooks, W.: "Dialogue",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 25-50 (1972).
BCL Report # 72.2
Fiche # 133/4

Brun, H. & H. Von Foerster*: HEURISTICS: A REPORT ON A COURSE ON
KNOWLEDGE ACQUISITION,
Biological Computer Laboratory, University of Illinois; Urbana,
27 pp. (1970).
BCL Report # 13.1
Fiche # 101/2

Brun, H.: "Technology and the Composer",
in CIDOC CUADERNO No. 1014, INTERPERSONAL RELATIONAI. NETWORKS,
H. Von Foerster (ed.), CIDOC; Cuernavaca, Mexico, 1/1 - 1/25
(1971).
Fiche # 136/4

Brun, H.: "Links",
The Cybernetician, Number 5, Biological Computer Laboratory,
University of Illinois; Urbana, 28-34 (1974).
BCL Report # 73.35
Fiche # 141/7 & 142

Brun, H.: "The Need of Cognition for the Cognition of Needs",
in CYBERNETICS OF CYBERNECTICS, Biological Computer Laboratory,
University of Illinois; Urbana, 336-340 (1974).
BCL Report # 73.38
Fiche # 145

Brun, H.: "Premiss"
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratcry,
University of Illinois; Urbana, 365-370 (1974).
BCL Report # 73.38
Fiche # 145

Brun, H.: "Competition vs. Cooperation",
in CYBERNETICS OF CYBERNETICS,Biological Computer Laboratory,
University of Illinois; Urbana, 382-385 (1974).
BCL Report # 73.38
Fiche # 145

Brun, H.: "Drawing Distinctions, Links, Contradictions",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois, Urbana, 472-476 (1974).
BCL Report # 73.38
Fiche # 145

Burckhardt, C. W.: FROM FLICKER-FUSION TO COLOR VISION,
Biological Computer Laboratory, University of Illinois; Urbana,
41 pp. (1966).
BCL Report # 5.3
Fiche # 16/4

Cheng, S.*., A. Inselberg, H. Von Foerster, & R. Yeh: COMPUTATION
OF INVARIANTS IN CONTINUOUS AND DISCRETE MANIFOLDS,
Biological Computer Laboratory, University of Illinois, Urbana,
106 pp. (1962).
BCL TR # 3.1
Fiche # 17/1 & 18

Cheng, S.: LIFE SPAN AND SELF-REPAIR IN COMPLEX SYSTEMS,
Biological Computer Laboratory, University of Illinois; Urbana,
53 pp. (1964).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
53 pp. (1964).
BCL TR # 8.2
BCL # 101
Fiche # 18/1

Chien, R. T.*., S. R. Ray, & F. A. Stahl: ISL - A NEW PROGRAMMING
LANGUAGE FOR INFORMATION RETRIEVAL,
Biological Computer Laboratory, University of Illinois; Urbana,
28 pp. (1969).
BCL TR # 12.6
Fiche # 18/6

Chien, R. T., H. Von Foerster* & Staff: COGNITIVE MEMORY: INTERIM
REPORT PHASE I (1 SEPTEMBER, 1967 - 28 FEBRUARY, 1969),
Biological Computer Laboratory, University of Illinois; Urbana,
156 pp. (1969).
BCL TR # 12.7
Fiche # 99/3 & 100

Chien, R. T., H. Von Foerster* & Staff: COGNITIVE MEMORY: INTERIM REPORT PHASE II (1 MARCH, 1969 - 31 AUGUST, 1970), Biological Computer Laboratory, University of Illinois; Urbana, 185 pp. (1970).
BCL TR # 12.8
Fiche # 101/4 & 102 & 103

Clark, G. L., H. Von Foerster, & D. F. Hoslsruser*: "Microwave Modulation of Light Using the Kerr Effect", Journal of Optical Science American, Vol. 51, 1360-1365 (1961).
BCL # 58
Fiche # 41/4

Cohen, D.: OPTIMIZING REPRODUCTION IN A RISKY ENVIRONMENT, Biological Computer Laboratory, University of Illinois; Urbana, 17 pp. (1965).
BCL TR # 8.3
Fiche # 19/1

Cohen, D.: OPTIMIZING REPRODUCTION IN A RISKY ENVIRONMENT WITH COMMUNICATION, Biological Computer Laboratory, University of Illinois, Urbana, 48 pp. (1965).
BCL TR # 8.4
Fiche # 19/2

Cohen, D.: "Optimizing Reproduction in a Randomly Varying Environment", Journal of Theoretical Biology, Vol. 12, 119-129 (1966).
BCL # 128
Fiche # 19/7

Cohen, D.*., G. Brieske, & H. Von Foerster: A FORMAL MODEL OF OPTIMIZATION IN A STATIONARY STOCHASTIC ENVIRONMENT, Biological Computer Laboratory, University of Illinois; Urbana, 17 pp. (1967).
BCL Report # 7.1
Fiche # 19/6

Cohen, J., M. P. Hoffman, M. Babcock*, & J. W. Atwood: SEARCH AND EVALUATION OF SIGNIFICANT EVENT SEQUENCES IN AUTOMATED SPEECH ANALYSIS, Biological Computer Laboratory, University of Illinois; Urbana, 73 pp. (1969).
BCL TR # 11.1
Fiche # 13/5 & 14

Cohen, J.: "Adaptive Sampling of Speech",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 213-220 (1969).
BCL Report # 69.2
Fiche # 126/3

Cohen, J.: AN AUTOMATIC PROCESS FOR THE EXTRACTION OF PITCH PERIODS OF SPEECH,
Biological Computer Laboratory, University of Illinois; Urbana,
67 pp. (1970).
also
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
67 pp. (1970).
BCL TR # 11.2
BCL # 212
Fiche # 11/1

Cohen, J.: "New Process For Speech Based Pitch Period Extraction",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 281-295 (1970).
BCL Report # 70.2
Fiche # 129/5

Cohen, J. & M. Babcock*: "Speech Research of the Past as a Guide for The Future",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 147-160 (1971).
BCL Report # 71.2
Fiche # 132/2

Conant, R.* & W. R. Ashby: "Information, Transmission and Redundancy in Regulatory Systems",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 53-59 (1967).
BCL Report # 67.2
Fiche # 118/4

Conant, R.: "Channel Capacity of Moore Automata",
Information and Control, Vol. 12, 453-465 (1968).
BCL # 154
Fiche # 20/6

Conant, R.: INFORMATION TRANSFER IN COMPLEX SYSTEMS, WITH APPLICATIONS TO REGULATION,
Biological Computer Laboratory, University of Illinois; Urbana,
206 pp. (1968).
also Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois;
Urbana, 206 pp. (1968).
BCL TR # 6.12
BCL # 162
Fiche # 21/1 & 22 & 23

Conant, R.: "Information Transfer in Complex Systems with Applications to Regulation",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 64-75 (1968).
BCL Report # 68.2
Fiche # 122/2

Conant, R.: "The Information Transfer Required in Regulatory Processes",
IEEE Transactions, SSC-5, 334-338 (1969).
BCL #189
Fiche # 23/2

Conant, R.* & W. R. Ashby: "Every Good Regulator of a System Must Be a Model of That System",
International Journal Systems Science, Vol. 1 (2), 89-97 (1970).
BCL # 202
Fiche # 20/7

Cronkite, E. P., H. Von Foerster, & G. Brecher*: "Produktion,
Ausreifung und Lebensdauer der Leukozyten",
in PHYSIOLOGIE UND PHYSIOPATHOLOGIE DER WEISSEN BLUTZELLEN,
H. Braunsteiner (ed.), Georg Thieme Verlag; Stuttgart,
188-214 (1959).
BCL # 16
Fiche # 15/1

Cronkite, E. P., H. Von Foerster, & G. Brecher*: "Production,
Differentiation and Lifespan of Leukocytes",
in THE PHYSIOLOGY AND PATHOLOGY OF LEUKOCYTES, H. Braunsteiner (ed.),
Grune and Stratton; New York, 170-195 (1962).
BCL # 84
Fiche # 15/3

Duran, P.* & S. Tufenkjian: "Tactile-Kinesthetic Methods for Measuring Length Used by Congenitally Blind Children", *Perceptual and Motor Skills*, Vol. 28, 395-400 (1969).
BCL # 168
Fiche # 23/2

Duran, P., Jr.: "Imagery and Blindness: A Personal Report", *Journal of Humanistic Psychology*, Vol. 9 (2), 155-166 (1969).
BCL # 187
Fiche # 23/3

Erickson, R., D. Neill, & M. Babcock*: A DYNAMIC SIGNAL ANALYZER, *Biological Computer Laboratory*, University of Illinois; Urbana, 77 pp. (1962).
BCL TR # 3.3
Fiche # 12/5

Eshkol, N. et al: NOTATION OF MOVEMENT, *Biological Computer Laboratory*, University of Illinois; Urbana, 168 pp. (1970).
BCL Report # 10.0
Fiche # 23/4 & 24 & 25

Freedman, M. D.: A TECHNIQUE FOR THE ANALYSIS OF MUSICAL INSTRUMENT TONES, *Biological Computer Laboratory*, University of Illinois; Urbana, 137 pp. (1965).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana, 137 pp. (1965).
BCL TR # 8.6
BCL # 115
Fiche # 25/3 & 26

Freedman, M. D.: "A Digital Computer for the Electronic Music Studio", *Journal of the Audio Engineering Society*, Vol. 15 (1), 43-50 (1967).
BCL # 143
Fiche # 26/7

Freedman, M. D.: "Analysis of Musical Instrument Tones", *Journal of Acoustical Society of America*, Vol. 41, 793-806 (1967).
BCL # 144
Fiche # 27/1



Freedman, M. D.: "A Method for Analyzing Musical Tones",
Journal of the Audio Engineering Society, Vol. 41, 419-425 (1968).
BCL # 159
Fiche # 27/2

Freedman, M. D.: "On-line Generation of Sound",
in MUSIC BY COMPUTERS, H. Von Foerster & J. W. Beauchamp (eds.),
Wiley and Sons; New York, 13-18 (1969).
BCL # 172
not included

Fucetola, J.: HUNT: A SEARCH ROUTINE IN A RELATIONAL DATA BASE,
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
45 pp. (1973).
BCL # 227
Fiche # 27/3

Gardner, M. R.: CRITICAL DEGENERATESS IN LARGE LINEAR SYSTEMS,
Biological Compute Laboratory, University of Illinois; Urbana,
52 pp. (1968).
also
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
52 pp. (1968).
BCL Report # 5.8
BCL # 209
Fiche # 27/7 & 28

Gardner, M. R.* & W. R. Ashby: "Connectance of Large Dynamic
(Cybernetic) Systems: Critical Values for Stability",
Nature, Vol. 228, 784 (1970).
BCL # 194
Fiche # 28/4

Gazdag, J., M. Babcock*, & I. Thomas: INFORMATION PROCESSING
CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL
ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
20 pp. (1964).
BCL TR # 9.2
not included

Gazdag, J., D. Steidinger, I. Thomas, & M. Babcock*: INFORMATION
PROCESSING CAPABILITIES CF THE UNIVERSITY OF ILLINOIS' DYNAMIC
SIGNAL ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
72 pp. (1965).
BCL TR # 9.3
not included

Gazdag, J.* & I. Thomas: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 18 pp. (1965).
BCL TR 9.4
not included

Gazdag, J., I. Thomas, & M. Babcock*: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 8 pp. (1965).
BCL TR # 9.5
not included

Gazdag, J., I. Thomas, & M. Babcock*: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 76 pp. (1966).
BCL TR # 9.6
not included

Gazdag, J.: A METHOD OF DECODING SPEECH, Biological Computer Laboratory, University of Illinois; Urbana, 130 pp. (1966).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana, 130 pp. (1966).
BCL TR # 6.8
BCL # 129
Fiche # 28/4 & 29

Gazdag, J.: "Speech Analysis and Classification", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 96-105 (1967).
BCL Report # 67.2
Fiche # 118/7

Godfrey, W.: COMPUTER SIMULATION OF SMALL GROUPS, Biological Computer Laboratory, University of Illinois; Urbana, 26 pp. (1971).
BCL Report # 5.10
Fiche # 29/7 & 30

Gruberg, E. * & G. Brieske: LA PALOMA - A SELF-ORGANIZING SYSTEM,
Biological Computer Laboratory, University of Illinois; Urbana,
19 pp. (1967).
BCL Report # 7.2
Fiche # 30/2

Gruberg, E.* & G. Brieske: "La Paloma: An Adaptive Teaching Automaton",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois, Urbana, 87-90 (1967).
BCL Report # 67.2
Fiche # 118/7

Gruberg, E. & M. Wilkins*: "Electrophysiology of Vision",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois, Urbana, 117-118 (1967).
BCL Report # 67.2
Fiche # 119/2

Gruberg, E.: "Electrophysiology of Vision",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 184-187 (1968).
BCL Report # 68.2
Fiche # 123/3

Gruberg, E.: "Tectal Organization of Ambystoma Tigrinum",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois, Urbana, 182-188 (1969).
BCL Report # 69.2
Fiche # 124/1

Gruberg, E.: FUNCTIONAL ORGANIZATION OF THE TECTUM OF THE TIGER
SALAMANDER (AMBYSTOMA TIGRINUM),
Biological Computer Laboratory, University of Illinois; Urbana,
142 pp. (1969).
also
Ph.D. Thesis, Dept of Elec. Engr., University of Illinois, Urbana,
142 pp. (1969).
BCL TR # 6.17
BCL # 185
Fiche # 30/4 & 31

Gruberg, E.: "Functional Organization of the Tectum of the Tiger
Salamander (Ambystoma Tigrinum)",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 253-262 (1970).
BCL Report # 70.2
Fiche # 129/3

Gunther, G.: "Die aristotelische Logik des Seins und die nicht-aristotelische Logik der Reflexion",
Zeitschr. F. Philos. Forschung, Vol. 12, 360-407 (1958).
BCL # 3
Fiche # 32/1

Gunther, G.: "Die gebrochene Rationalitat",
Augenblick, Vol. 3 (3), 1-26 (1958).
BCL # 4
Fiche # 32/4

Gunther, G.: IDEE UND GRUNDRISS EINER NICHT-ARISTOTELISCHEN LOGIK,
Volume I,
DIE IDEE UND IHRE PHILOSOPHISCHEN VORAUSSETZUNGEN, F. Meiner (ed.),
Hamburg, 389 pp. (1959).
BCL # 8
not included

Gunther, G.: "Analog-Prinzip, Digitalmaschine und Mehrwertigkeit",
Grundlagenstudien, Vol. 1 (2), 41-50 (1960).
BCL # 24
not included

Gunther, G.: "Schopfung, Reflexion und Geschichte",
Merkur, Vol. XIV, 628-650 (1960).
BCL # 25
Fiche # 34/1

Gunther, G.: "Ein Vorbericht über die generalisierte Stellenwerttheorie
der mehrwertigen Logik",
Grundlagenstudien, Vol. 1 (4), 90-104 (1960).
BCL # 26
not included

Gunther, G.: "Cybernetic Ontology and Transjunctional Operations",
in SELF-ORGANIZING SYSTEMS, M. C. Yovits et al (eds.),
Spartan Books; Washington, D. C., 313-392 (1962).
also
CYBERNETIC ONTOLOGY AND TRANSJUNCTATIONAL OPERATIONS
Biological Computer Laboratory, University of Illinois; Urbana,
113 pp. (1962).
BCL # 68
BCL TR # 4.4
Fiche # 33/1

Gunther, G.: "Logische Voraussetzungen und Philosophische Sprache
in den Sozialwissenschaften",
Soziale Welt, Vol. 12, 289-304 (1962).
BCL # 69
Fiche # 33/6

Gunther, G.: "The Tradition of Logic and the Concept of a Trans-
Classic Rationality",
Algemeen Nederlands Tijdschrift voor Wijsbegeerte en Psychologie,
Vol. 54E (4), 194-200 (1962).
BCL # 70
Fiche # 34/2

Gunther, G.: "Hegel: Dialectic Theory and Symbolic Logic",
Artorga, No. 58, 1-7 (1963);
No. 60, 1-6 (1963);
No. 63, 1-10 (1964);
No. 65, 1-11 (1964).
BCL # 91
Fiche # 34/3

Gunther, G.: "Das Problem einer Formalisierung der transzendentale-
dialektischen Logik",
in HEGEL-STUDIEN, I. F. Nicolin, O. Poggeler (eds.),
H. Bouvier u. Co. Verlag; Bonn. 65-123 (1964).
BCL # 103
Fiche # 35/1

Gunther, G.: "Information, Communication and Many-Valued Logic",
in MEMORIAS DEL XII (1963) CONGRESO INTERNACIONAL DE FILOSOFIA,
Vol. 5, Universidad Nacional Autonoma de Mexico; Mexico DF,
143-157 (1964).
BCL # 104
Fiche # 35/5

Gunther, G.: "Zweiwertigkeit, logische Paradoxie und selbst-
referierende Reflexion",
Zeitschr. f. Philos. Forschung, Vol. 17, 419-437 (1964).
BCL # 105
Fiche # 35/6

Gunther, G., H. S. Na*, & H. Von Foerster: ON STRUCTURAL ANALYSIS
of MANY VALUED LOGIC,
Biological Computer Laboratory, University of Illinois; Urbana,
131 pp. (1964).
BCL TR # 7.1
Fiche # 62/1 & 63

Gunther, G.: CYBERNETICS AND THE TRANSITION FROM CLASSICAL TO
TRANS-CLASSICAL LOGIC,
Biological Computer Laboratory, University of Illinois; Urbana,
9 pp. (1965).
BCL Report # 3.0
Fiche # 36/1

Gunther, G.: "Das Problem einer trans-klassischen Logik",
Sprache im technischen Zeitalter, Vol. 16, 1287-1308 (1965).
BCL # 116
Fiche # 34/6

Gunther, G.: FORMAL LOGIC, TOTALITY AND THE SUPER-ADDITIVE PRINCIPLE,
Biological Computer Laboratory, University of Illinois; Urbana,
23 pp. (1966).
BCL Report # 3.3
Fiche # 36/1

Gunther, G.: "Uber Anschauung und Abstraktion",
in DIALOG DES ABENDLANDES, E. Heimendahl (ed.), Paul List
Verlag; Munchen, 199-207 (1966).
BCL # 130
not included

Gunther, G.: DAS BEWUSSTSEIN DER MASCHINEN,
2ND Revised & enlarged edition, Agis Verlag; Baden-Baden,
107 pp. (1967).
BCL # 102
not included

Gunther, G.: LOGIK, LEIT, EMANATION UND EVOLUTION,
(Arbeitsgemeinschaft fur Forschung des Landes Nordrhein-Westfalen,
Heft 136), Westdutscher Verlag; Koln and Opladen, 96 pp. (1967).
BCL # 137
not included

Gunther, G.: "Time, Timeless Logic and Self-Referential Systems",
in INTERDISCIPLINARY PERSPECTIVES OF TIME, Annals of the
New York Academy of Sciences, Vol. 138 (2), R. Fisher (ed.),
New York Academy of Sciences; New York, 396-406 (1967).
BCL # 138
Fiche # 36/3

Gunther, G.* & H. Von Foerster: "The Logical Structure of Evolution and Emanation",
in INTERDISCIPLINARY PERSPECTIVES OF TIME, Annals of the
New York Academy of Science, Vol. 138 (2), New York Academy of
Sciences; New York, 874-891 (1967).
BCL # 139
Fiche # 36/4

Gunther, G.: "Many-Valued Logic and Mathematics",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 11-13, (1967).
BCL Report # 67.2
Fiche # 118/1

Gunther, G. & D. Schadach*: "The Kenogrammatic Structure of Many-
Valued Logic",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 14-19 (1967).
BCL Report # 67.2
Fiche # 118/1

Gunther, G.: "Kritische Bemerkungen zur gegenwärtigen Wissenschaftstheorie",
Sozial Welt, Vol. 19, 328-341 (1968).
BCL # 180
Fiche # 36/6

Gunther, G.: "Many-Valued Mathematics and the Theory of Transclassic
Logic",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 12-20 (1968).
BCL Report # 68.2
Fiche # 121/5

Gunther, G.: "Bewusstsein als Informationsraffer",
Grundlagenstudien Aus Kybernetik und Geisteswissenschaft,
Verlag Schnelle Quickborn, Vol. 10 (1), 1-6 (1969).
BCL # 169
Fiche # 37/1

Gunther, G.: "Das Rätsel des Seins",
Civitas, Vol. XXIV, 521-530 (1969).
BCL # 170
Fiche # 36/7

Gunther, G.: "Strukturelle Minimalbedingungen einer Theorie des objektiven Geistes als Einheit der Geschichte",
in ACTES DU 11^e CONGRES INTERNACIONAL DE L'ASSOCIATION INTERNATIONALE POUR L'ETUDE DE LA PHILOSOPHIE DE HEGEL; Lille,
159-205 (1969).
BCL # 181
Fiche # 37/1

Gunther, G.: "Natural Numbers in Trans-Classic Systems",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 13-15 (1969).
BCL Report # 69.2
Fiche # 124/3

Gunther, G.: "Many-Valued Designations and a Hierarchy of First Order Ontologies",
in PROCEEDINGS OF THE 14th INTERNATIONAL CONGRESS OF PHILOSOPHY,
VOL. III, L. GABRIEL (ED.), HERDER; VIENNA, 37-44 (1969).
BCL # 182
Fiche # 37/5

Gunther, G.: "Die Historische Kategorie des neuen",
A. Hain & W. B. Verlag (eds.); Meisenheim, 34-61 (1970).
also
THE HISTORICAL CATEGORY OF THE NEW
English Translation by Richard H. Howe (1973).
BCL # 199
Fiche # 38/1

Gunther, G.: "Natural Numbers in Trans-Classic Systems",
(parts I & II), Journal of Cybernetics, Vol. 1 (2), and
Vol. 1 (3), 23-33 & 50-62 (1971).
also
Biological Computer Laboratory, University of Illinois; Urbana,
42 pp. (1970).
BCL # 216
BCL Report # 3.4
Fiche # 38/4

Gunther, G.: "Natural Numbers in Transclassical Systems",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 40-42 (1970).
BCL Report # 70.2
Fiche # 127/2

Gunther, G.: "On the Relation Between Logical Structure, Time, and Natural Numbers",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 43-5? (1970).
BCL Report # 70.2
Fiche # 127/2

Gunther, G.: "Die Theorie der 'Mehrwertigen' Logik",
Philosophische Perspektiven, Vol. 3, 110-131 (1971).
BCL # 200
Fiche # 37/6

Gunther, G. : "Cognition and Volition",
in CYBERNETIC TECHNIQUES IN BRAIN RESEARCH AND THE
EDUCATIONAL PROCESS,
1971 Fall Conference of the American Society of Cybernetics
Washington, D. C., 119-135 (1971).
BCL # 235
Fiche # 32/6

Gunther, G.: "Life as Poly-Contexturality",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 33-65 (1971).
BCL Report # 71.2
Fiche # 131/1

Gunther, G.: "Cognition and Volition: A Contribution to the
Theory of Subjectivity",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 9-23 (1972).
BCL Report # 72.2
Fiche # 133/3

Gunther, G.: "Bibliography",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois; Urbana, 487-489 (1974).
BCL Report # 73.38
Fiche # 146

Hoffman, M. , J. W. Atwood, M. L. Babcock*, & J. R. Cohen: SEARCH
AND EVALUATION OF SIGNIFICANT EVENT SEQUENCES IN AUTOMATED SPEECH
ANALYSIS,
Biological Computer Laboratory, University of Illinois; Urbana,
73 pp. (1969).
BCL TR # 11.1
Fiche # 13/5 & 14

Hoffman, M.: "An Experimental Study of Speech Analysis Using Series Expansion",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 194-203, (1969).
BCL Report # 69.2
Fiche # 126/2

Hoffman, M.: A STUDY OF THE FREE RESPONSE DISTORTION IN SPEECH PROCESSING,
Biological Computer Laboratory, University of Illinois; Urbana,
68 pp. (1970).
also
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
66 pp. (1970).
BCL TR # 11.3
BC1 # 213
Fiche # 39/1

Hoffman, M.: "The Driven and Free Responses of Speech Processors",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 271-280 (1970).
BCL Report # 70.2
Fiche # 129/4

Hoffman, M.: "Digital Signal Processing",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 223-227 (1971).
BCL Report # 71.2
Fiche # 133/1

Hoffman, M.: "Development of a Digital Electrocardiogram Scanner",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 185-221 (1972).
BCL Report # 72.2
Fiche # 135/1

Hoffman, M.: "Discrete Time Speech Analysis",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 237-242 (1972).
BCL Report # 72.2
Fiche # 135/4

Hoffman, M.: COMPLEX WAVEFORM PHONETIC SPEECH SYNTHESIS,
Ph.D. Thesis, Dept of Elec. Engr., University of Illinois; Urbana,
150 pp. (1974).
BCL # 253
Fiche # 39/6 & 40 & 41

Hosliouser, D. F.* , G. L. Clark, & H. Von Foerster: "Microwave Modulation of Light Using the Kerr Effect", Journal of Optical Science of America, Vol. 51, 1360-1365 (1961).
BCL # 58
Fiche # 41/4

Howe, R. H.: "Linguistic Composition of an Arithmetic of Cognition", in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory, University of Illinois; Urbana, 54-70 (1970).
BCL Report # 70.2
Fiche # 127/3

Howe, R. H.: "Conditions for Composition", in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory, University of Illinois; Urbana, 67-78 (1971).
BCL Report # 71.2
Fiche # 131/3

Howe, R. H.: "Computer-Lexicon", in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory, University of Illinois; Urbana, 181-192, (1971).
BCL Report # 71.2
Fiche # 132/4

Howe, R. H.: "Dialogue, Dialogic, Dialectic: A Sketch of Jurgen Habermas' Theory of Communicative Competence", Forum, Vol. 6 (3), 11-14 (1974).
BCL # 248
Fiche # 41/4

Howe, R. H.* & H. Von Foerster: "Cybernetics at Illinois", (Part One), Forum, Vol. 6 (3), 15-17 (1974); (Part Two), Forum, Vol. 6 (4), 22-28 (1974).
BCL # 249
Fiche # 41/5

Howe, R. H.: "Jurgen Habermas: 'Preparatory Remarks to a Theory of Communicative Competence' an Outline", in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory, University of Illinois, Urbana, 249-255 (1974).
BCL Report # 73.38
Fiche # 145

Howe, R. H.: "Thesis of Literature/LITERATURE",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois; Urbana, 346-349 (1974).
BCL Report # 73.38
Fiche # 145

Howe, R. H.* & H. Von Foerster: "Introductory Comments to Francisco
Varela's Calculus for Self-Reference",
International Journal of General Systems, Vol. 2, 1-3 (1975).
BCL 251a
Fiche # 41/5

Howe, R. H.: "Some Problems of Social Cybernetics",
Forum, Vol. 7, 3-6 (1975).
BCL # 256
Fiche # 146/3

Illich, Ivan: "Education Without School, How It Can Be Done",
in CIDOC CUADERNO 1014, INTERPERSONAL RELATIONAL NETWORKS,
H. Von Foerster (ed.), CIDOC; Cuernavaca, Mexico, 2/1 - 2/21
(1971).
Fiche # 136/6

Inselberg, A.*, L. Lofgren, & H. Von Foerster: "Property Detector
Nets and Fields",
in SOME PRINCIPLES OF PREORGANIZATION IN SELF-ORGANIZING
SYSTEMS, M. Babcock et al, Biological Computer Laboratory,
University of Illinois; Urbana, 1-41 (1960).
BCL TR # 1.2
Fiche # 116/1

Inselberg, A., H. Von Foerster, R. Yeh, & S. Cheng*: COMPUTATION
OF INVARIANTS IN CONTINUOUS AND DISCRETE MANIFOLDS,
Biological Computer Laboratory, University of Illinois; Urbana,
105 pp. (1962).
BCL TR # 3.1
Fiche # 17/1 & 18

Inselberg, A.* & H. Von Foerster: LINEAR PROPERTY FILTERS,
Biological Computer Laboratory, University of Illinois; Urbana,
46 pp. (1962).
BCL TR # 4.2
Fiche # 41/6 & 42

Inselberg, A.* , H. S. Na, & H. Von Foerster: LABEL INCORPORATION AND LABEL APPEARANCE IN WHITE BLOOD CELLS, Biological Computer Laboratory, University of Illinois; Urbana, 147 pp. (1963).
BCL TR # 2.5
Fiche # 42/3 & 43

Inselberg, A.: ON CLASSIFICATION AND SUPERPOSITION PRINCIPLES FOR NONLINEAR OPERATORS, Biological Computer Laboratory, University of Illinois; Urbana, 73 pp. (1965).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana, 73 pp. (1965).
BCL TR # 6.3
BCL # 117
Fiche # 44/1

Inselberg, A.: "Applications of Superpositions for Non-linear Operators", (Abstract of a paper given at the 63rd meeting of the American Mathematical Society), Notices of the American Mathematical Society, Vol. 13, 357 (1966).
BCL # 145
Fiche # 44/6

Inselberg, A., P. Weston, & H. Von Foerster*: "Memory and Inductive Inference", in BIONICS SYMPOSIUM 1966: CYBERNETIC PROBLEMS IN BIONICS, H. Oestreicher & D. Moore (eds.), Gordon and Breach Science Publishers; New York, 31-68 (1968).
BCL # 152
Fiche # 96/1

Inselberg, A.: "Linear Solvability and the Riccati Operator", Journal Of Mathematical Analysis and Applications, Vol. 22, 577-581 (1968).
BCL # 158
Fiche # 43/7

Inselberg, A.: "Phase-Plane Solutions of Langmuir's Equation", Journal of Mathematical Analysis and Applications, Vol. 26, 438-446 (1969).
BCL # 173
Fiche # 44/6

M



Inselberg, A.: "Noncommutative Superpositions for Non-linear Operators".
Journal of Mathematical Analysis and Applications, Vol. 29,
294-298 (1970).
BCL # 190
Fiche # 44/7

Inselberg, A.* & H. Von Foerster: "A Mathematical Model of the Basilar Membrane",
Mathematical Biosciences, Vol. 7, 341-363 (1970).
BCL # 191
Fiche # 45/1

Inselberg, A.: "Superpositions for Nonlinear Operators.
I. Strong Superpositions and Linearizability",
Journal of Mathematical Analysis and Applications, Vol. 40,
(2), 494-508 (1972).
BCL # 222
Fiche # 45/2

Inselberg, A.: "Superpositions for Nonlinear Operators.
II. Generalized Affine Operators",
Journal of Mathematical Analysis and Applications, Vol. 41 (1),
260-269 (1973).
BCL # 228
Fiche # 45/4

Iso, Y.: SOME COMMENTS ON AUDITORY INFORMATION PROCESSING,
Biological Computer Laboratory, University of Illinois; Urbana,
28 pp. (1966).
BCl Report # 5.6
Fiche # 45/5

Jansen, J. M.: PHRASE DICTIONARY CONSTRUCTION METHODS FOR THE R2 INFORMATION RETRIEVAL SYSTEM,
Biological Computer Laboratory, University of Illinois; Urbana,
58 pp. (1969).
BCl TR # 12.5
Fiche # 46/1

Kasson, J. M.: SPEECH SYNTHESIS BY DIGITAL COMPUTER SIMULATION OF THE VOCAL TRACT,
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
(1965).
BCL # 118
not included

Kelley, K. C.*, S. R. Ray, & F. A. Stahl: ISL - A STRING MANIPULATING LANGUAGE,
Biological Computer Laboratory, University of Illinois; Urbana,
BCl TR # 12.3
Fiche # 46/5

Kelley, Y. H.: ENCODING SPEECH EVENTS FOR COMPUTER RECOGNITION,
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
(1966).
BCl # 131
not included

Kellner, W. G. & A. A. Mullin*: "A Residue Test for Boolean Functions",
Illinois State Academy of Science, Vol. 51 (3 & 4), 14-19 (1958).
BCl # 4a
Fiche # 58/2

Kisylia, A.: AN ASSOCIATIVE PROCESSOR FOR INFORMATION RETRIEVAL,
Biological Computer Laboratory, University of Illinois; Urbana,
50 pp. (1968).
BCl TR # 12.1
Fiche # 47/1

Kokjer, K.: CUTANEOUS CHANNEL CAPACITY,
Biological Computer Laboratory, University of Illinois; Urbana,
17 pp. (1965).
BCl Report # 6.1
Fiche # 47/5

Kokjer, K.: TABLES $x \log_2 x$ FOR INTEGERS $1 \leq x \leq 1009$,
Biological Computer Laboratory, University of Illinois; Urbana,
3 pp. (1966).
BCl Report # 1.0
Fiche # 47/6

Kokjer, K.: "Systems Approach to the Reproductive Endocrine System",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 113-117 (1967).
BCl Report # 67.2
Fiche # 119/2

Kokjer, K.: "The Reproductive Hormone System",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 188-193 (1968).
BCl Report # 68.2
Fiche # 123/4

Kokjer, K.: "A Display Technique for Neurophysiological Data",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 129-193 (1969).
BCL Report # 69.2
Fiche # 126/2

Kokjer, K.: "Endocrine Modeling",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 228-235 (1969).
BCL Report # 69.2
Fiche # 126/4

Kokjer, K.: "A Display Technique For Neurophysiological Data",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 308-316 (1970).
BCL Report # 70.2
Fiche # 129/7

Kokjer, K.: REAL-TIME DISPLAY TECHNIQUES FOR THE NEUROPHYSIOLOGICAL
LABORATORY,
Biological Computer Laboratory, University of Illinois; Urbana,
122 pp. (1970).
also
Ph.D. Thesis, Dept. of Biophysics, University of Illinois; Urbana,
122 pp. (1970).
BCL TR # 6.20
BCL # 205
Fiche # 47/7 & 48

Kokjer, K., W. R. Ashby, & H. Tuttle*: A TABLE OF THE ENTROPIES
ASSOCIATED WITH SIMPLE PARTITIONS,
Biological Computer Laboratory, University of Illinois; Urbana,
127 pp. (1970).
BCL Report # 1.1
Fiche # 82/1 & 83

Lofgren, L., A. Inselberg*, & H. Von Foerster: "Property Detector
Nets and Fields",
in SOME PRINCIPLES OF PREORGANIZATION IN SELF-ORGANIZING SYSTEMS,
M. Babcock et al, Biological Computer Laboratory, University of
Illinois; Urbana, 1-41 (1960).
BCL TR # 1.2
Fiche # 116/1

Lofgren, L.: "Connection Possibilities and Distinguishable Stimulus Patterns in Cellular Layers",
in SOME PRINCIPLES OF PREORGANIZATION IN SELF-ORGANIZING SYSTEMS,
M. Babcock et al, Biological Computer Laboratory, University of Illinois; Urbana, 41-60 (1960).
BCI TR # 1.2
Fiche # 116/4

Lofgren, L.: QUANTITATIVE LIMITS FOR AUTOMATIC ERROR CORRECTION
SELF-REPAIR,
Biological Computer Laboratory, University of Illinois; Urbana,
70 pp. (1961).
BCI TR # 1.6
Fiche # 49/1

Lofgren, L.: STRUCTURE OF SWITCHING NETS,
Biological Computer Laboratory, University of Illinois; Urbana,
44 pp. (1961).
BCI TR # 1.7
Fiche # 50/1

Lofgren, L.: A THEORY OF UNIFORM SWITCHING NETS,
Biological Computer Laboratory, University of Illinois; Urbana,
53 pp. (1962).
BCI TR # 4.6
Fiche # 51/1

Lofgren, L.: "Kinematic and Tessellation Models of Self-Repair",
in BIOLOGICAL PROTOTYPES AND SYNTHETIC SYSTEMS, Vcl. 1,
E. E. Bernard & M. R. Kara (eds.), Plenum Press; New York,
342-369 (1962).
also
KINEMATIC AND TESSELLATION MODELS OF SELF-REPAIR,
Biological Computer Laboratory, University of Illinois; Urbana,
61 pp. (1961).
BCI # 177
BCI TR # 1.8
Fiche # 51/5

Lofgren, L.: "Self-Repair as the Limit for Automatic Error Correction",
in PRINCIPLES OF SELF-ORGANIZATION, H. Von Foerster & G. W. Zopf, Jr.
(eds.), Pergamon Press; New York, 181-228 (1962).
BCI # 71
Fiche # 50/4

Lofgren, L.: "Self-Repair as Computability Concept",
in PROCEEDINGS OF THE SYMPOSIUM ON MATHEMATICAL THEORY OF
AUTOMATA, Polytechnic Institute of Brooklyn; New York, 205-222 (1962).
BCL # 72
Fiche # 49/6

Lofgren, L.: "Recognition of Order and Evolutionary Systems",
in COMPUTER AND INFORMATION SCIENCES II, J. Tou (ed.),
Academic Press; New York, 165-175 (1967).
BCL # 147
Fiche # 51/7

Lofgren, L.: "Cybernetic Modeling",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 23-32 (1967).
BCL Report # 67.2
Fiche # 118/2

Lofgren, L.: "An Axiomatic Explanation of Complete Self-Reproduction",
Bulletin of Mathematical Biophysics, Vol. 30, 415-425 (1968).
BCL # 155
Fiche # 52/1

Lofgren, L.: "Studies In The Logic of Evolution",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 25-41 (1968).
BCL Report # 68.2
Fiche # 121/6

Lombardi, D. J.: CONTEXT MODELING IN A COGNITIVE MEMORY,
Biological Computer Laboratory, University of Illinois; Urbana,
27 pp. (1969).
BCL TR # 12.4
not included

London, P. & C. C. Walker*: "Psychotherapists: The New Clergy",
The Christian Century, Vol. LXXCIII, 515-516, 534 (1961).
BCL # 61
Fiche # 106/1

Madden, R. F.: "Relations on Complex Systems",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 121-124 (1968).
BCI Report # 68.2
Fiche # 122/6

Madden, R. F.: "A Method for Analyzing Complex Systems",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 66-73 (1969).
BCL Report # 69.2
Fiche # 124/7

Madden, R. F.: A MEASURE OF DIMENSIONAL COMPLEXITY FOR MULTIDIMENSIONAL
SYSTEMS,
Biological Computer Laboratory, University of Illinois; Urbana,
154 pp. (1970).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
154 pp. (1970).
BCL TR # 6.21
BCL # 206
Fiche # 52/2 & 53

Madden, R. F.: "A Set-Theoretic Representation of Multivariable Systems",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 185-208 (1970).
BCL Report # 70.2
Fiche # 128/5

Madden, R. F.* & W. R. Ashby: "The Identification of Many-Dimensional
Relations",
International Journal of Systems Science, Vol. 3 (4), 343-356 (1972).
BCL # 233
Fiche # 53/5

Marczynski, T. J., D. J. Wolf, & C. J. Sherry*: "The Interdependence
Series Matrix: A Method for Determining the Serial Dependence
of Neuronal Interspike Intervals",
International Journal of Neuroscience, Vol. 3, 35-42 (1972).
BCL # 217
Fiche # 74/3

Martin, R.: "Classification of Relations",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 176-184 (1970).
BCL Report # 70.2
Fiche # 128/4

Martin, R.: "Linguistic Networks and Their Investigation Using
an Interactive Computer System",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 93-103 (1971).
BCL Report # 71.2
Fiche # 131/5

Martin, R.: TO APPROACH MUSIC,
Biological Computer Laboratory, University of Illinois; Urbana,
85 pp. (1972).

also

Ph.D. Thesis, Dept. of Education, University of Illinois; Urbana,
85 pp. (1972).

BCL TR # 6.23

BCL # 229

Fiche # 53/6 & 54

Martin, R.: "A Necessary Condition for the Understanding of Cognition:
Composition",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 95-106 (1972).

BCL Report # 72.2

Fiche # 134/2

Marzullo, E.* & W. R. Ashby: "Confluents and Their Graphical
Representation",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 61-66 (1967).
BCL Report # 67.2
Fiche # 118/5

Marzullo, E.: "Thermostatistics of Complex Systems",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 117-120 (1968).
BCL Report # 68.2
Fiche # 122/5

Marzullo, E.: "Microscopic Physics of Information Transducers",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 160-168 (1969).
BCL Report # 69.2
Fiche # 125/7

Marzullo, E.: "Thermostatistics and Information Flow in Molecular
Models",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
BCL Report # 70.2
Fiche # 128/7

Marzullo, E.: "Statistical Dynamics of Complex Systems",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 169-177 (1971).
BCL Report # 71.2
Fiche # 132/3

Maturana, H.: "Neurophysiology of Cognition",
in COGNITION: A MULTIPLE VIEW, P. Garvin (ed.), Spartan Books;
New York, 3-23 (1970).
BCL # 165
Fiche # 54/6

Maturana, H.: BIOLOGY OF COGNITION,
Biological Computer Laboratory, University of Illinois; Urbana,
95 pp. (1970).
BCL Report # 9.0
Fiche # 55/1

Maturana, H., R. Uribe, & F. Varela*: "Autopoiesis: The
Organization of Living Systems, its Characterization and a
Model",
Biosystems, Vol. 5 (4), 187-196 (1974).
BCL # 239
Fiche # 85/1

Maturana, H.: "Cognitive Strategies",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois, Urbana, 457-469 (1974).
BCL Report # 73.38
Fiche # 145

Maturana, H.* & F. Varela: AUTOPOIETIC SYSTEMS: A CHARACTERIZATION
OF THE LIVING ORGANIZATION, with an introduction by Stafford Beer,
Biological Computer Laboratory, University of Illinois; Urbana,
107 pp. (1975).
BCL Report # 9.4
Fiche # 56/1 & 57

Maturana, H.: "The Organization of the Living: A Theory of the
Living Organization",
International Journal of Man-Machine Studies (1975), Vol. 7,
313-332 (1975).
BCL # 266
Fiche # 57/4

Maturana, H.: "Representation and Communication Functions",
in Encyclopedia Pleiade, J. Piaget (ed.), in press.
BCL # 267
Fiche # 57/5

McCulloch, W. S.: "Where is Fancy Bred?",
in LECTURES ON EXPERIMENTAL PSYCHIATRY, University of Pittsburgh
Press; Pittsburgh, 311-324 (1961).
also in
EMBODIMENTS OF MIND,
by W. S. McCulloch, M.I.T. Press, Massachusetts Institute of
Technology; Cambridge, 203-215 (1965).
BCL # 46
Fiche # 58/1

McCulloch, W. S.: "A Hierarchy of Values Determined by the
Topology of Nervous Nets",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois; Urbana, 65-67 (174).
also in Bull. Math. Biophys., Vol. 7, 89-93 (1945).
BCL Report # 73.38
Fiche # 143

McCulloch, W. S.: "BIBLIOGRAPHY",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois; Urbana, 68-78 (1974).
BCL Report # 73.38
Fiche # 143

Michl, J. M.: "Notational Systems For Human Body Movement",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 322-330 (1970).
BCL Report # 70.2
Fiche # 130/1

Mora, P. M., H. Von Foerster*, & L. W. Amiot: "Doomsday: Friday,
13 November, A.D. 2026",
Science, Vol. 132, 1291-1295 (1960).
also
DOOMSDAY, FRIDAY, NOVEMBER 13, 2026 A.D. ±2000 DAYS,
Biological Computer Laboratory, University of Illinois; Urbana,
15 pp. (1960).
BCL # 35
BCL TR # 2.2
Fiche # 87/6

Mora, P., L. Amiot, & H. Von Foerster*: "Doomsday,
Science, Vol. 133, 936-946 (1961).
BCL # 57
Fiche # 87/6

Mora, P., L. Amiot, & H. Von Foerster*: "Population Density and Growth",
Science, Vol. 133, 1931-1937 (1961).
BCL # 59
Fiche # 87/6

Mora, P., L. Amiot, & H. Von Foerster*: "'Projections' versus 'Forecasts' in Human Population Studies",
Science, Vol. 136, 173-174 (1962).
BCL # 85
Fiche # 87/6

Mullin, A. A.* & W. G. Kellner: "A Residue Test for Boolean Functions",
Illinois State Academy of Science, Vol. 51 (3 & 4), 14-19 (1958).
BCL # 4a
Fiche # 58/2

Mullin, A. A.: "Combinational Relay Switching Fields",
IRE Trans. on Electronic Computers, Vol. EC-9, 499 (1959).
BCL # 9
Fiche # 58/3

Mullin, A. A.: "Concerning Some Inequalities",
American Mathematics Monthly, Vol. 66 (6), 498-500 (1959).
BCL # 10
Fiche # 58/3

Mullin, A. A.: "Poincare, Metric Reliability and Switching Components",
IRE Trans. Prof. Group on Information Theory, Vol. IT-5 (3),
137 (1959).
BCL # 11
Fiche # 58/3

Mullin, A. A.: "Self-Dual Symmetric Switching Functions With a Certain
 α -number Constraint",
IRE Trans. on Electronic Computers, Vol. EC-8, 498-499 (1959).
BCL # 13
Fiche # 58/3

Mullin, A. A.: "Stochastic Combinational Relay Switching Circuits
and Reliability",
IRE Trans. Professional Group on Circuit Theory, Vol. CT-6,
131-133 (1959).
BCL # 14
Fiche # 58/4

Mullin, A. A.: "Two Applications of Elementary Number Theory",
Trans. Illinois State Academy of Science, Vol. 52 (3 & 4),
102-103 (1959).
BCL # 15
Fiche # 58/4

Mullin, A. A.: "The Present Theory of Switching and Some of Its Future Trends",
Industrial Mathematics, Vol. 10 (2), 23-44 (1959-1960).
also
THE PRESENT THEORY OF SWITCHING AND SOME OF ITS FUTURE TRENDS,
Biological Computer Laboratory, University of Illinois; Urbana,
27 pp. (1960).
BCL # 12
BCL TR # 1.3
Fiche # 58/4

Mullin, A. A.: "A Concept Concerning a Set With a Binary Composition Law",
Trans. Illinois State Academy of Science, Vol. 53 (3 & 4),
144-145 (1960).
BCL # 27
Fiche # 58/6

Mullin, A. A.: "Does Non-non-linear Mean Linear?",
American Science, Vol. 48, 236A-240A (1960).
BCL # 28
Fiche # 58/6

Mullin, A. A.: "A Double Generalization of the Concept of a Mutant",
Notices of the American Mathematics Society, Vol. 17, 1005-1006 (1960).
BCL # 29
Fiche # 58/6

Mullin, A. A.: "More on Stochastic Models",
Science, Vol. 132, 366 (1960).
BCL # 30
Fiche # 58/7

Mullin, A. A.: "Some Remarks on a Relative Anti-Closure Property",
Notices of the American Mathematics Society, Vol. 7, 480-481 (1960).
BCL # 31
Fiche # 58/7

Mullin, A. A.: "Two Simple-Minded Unsolvable Algebraic Problems",
Journal Symbolic Logic, Vol. 25, 95-96 (1960).
BCL # 32
Fiche # 58/7

Mullin, A. A.: SOME LOGICO-PHILOSOPHICAL COMMENTS ON SELF-ORGANIZING SYSTEMS",
Biological Computer Laboratory, University of Illinois; Urbana,
11 pp. (1960).
BCL TR # 1.5
Fiche # 59/1

Mullin, A. A.: "An Abstract Formulation of a Problem Related to Golbach's Conjecture",
American Mathematics Monthly, Vol. 68, 487-488 (1961).
BCL # 47
Fiche # 58/7

Mullin, A. A.: "An Abstraction of a Combinatorial Concept",
American Mathematics Monthly, Vol. 68, 364 (1961).
BCL # 48
Fiche # 59/2

Mullin, A. A.* & G. W. Zoph, Jr.: "Remarks on Berkner's 'Can the Social Sciences be Made Exact?'",
Proc. of the IRE, Vol. 49, 526 (1961).
BCL # 49
Fiche # 59/2

Mullin, A. A.: "Correlative Remarks Concerning Elementary Number Theory, Groups and Mutant Sets",
Notre Dame Journal of Formal Logic, Vol. 2, 253-254 (1961).
BCL # 50
Fiche # 59/2

Mullin, A. A.: "Investigations of Relationology",
Notices of the American Mathematics Society, Vol. 8, 266 (1961).
BCL # 51
Fiche # 59/2

Mullin, A. A.: "On Doubly Mutant Cosets Generated by a Skew Field",
Notices of the American Mathematics Society, Vol. 8, 527 (1961).
BCL # 53
Fiche # 59/3

Mullin, A. A.: "Properties of Mutants",
Bulletin of American Mathematics Society, Vol. 67, 82 (1961).
BCL # 54
Fiche # 59/3

Mullin, A. A.: "The Representation of All Natural Numbers as the
Union of Disjoint Maximal Mutants",
Notices of the American Mathematics Society, Vol. 8, 370 (1961).
BCL # 55
Fiche # 59/3

Mullin, A. A.: "Some Remarks on a Relative Anti-Closure Property",
Zeitschr. f. math. Logik und Grundlagen d. Math., Vol. 7,
99-103 (1961).
BCL # 56
Fiche # 59/3

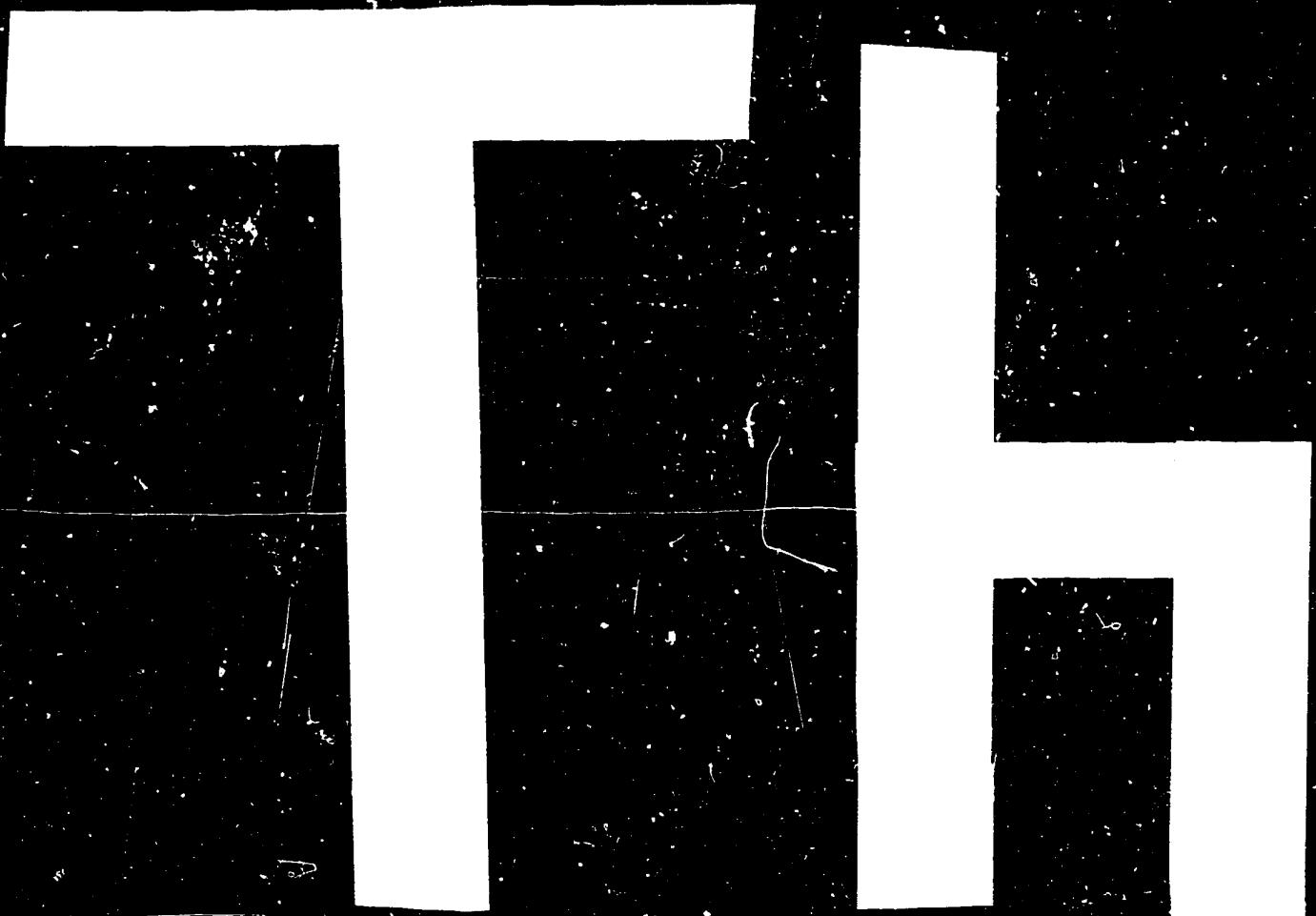
Mullin, A. A.: PHILOSOPHICAL COMMENTS ON THE PHILOSOPHIES OF
CHARLES SANDERS PIERCE AND LUDWIG WITTGENSTEIN,
Biological Computer Laboratory, University of Illinois; Urbana,
68 pp. (1961).
BCL TR # 4.1
Fiche # 59/4 & 60

Mullin, A. A.: "On Multiply Mutant Sets",
Trans. Illinois State Academy of Science, Vol. 55, 20 (1962).
BCL # 52
Fiche # 60/2

Mullin, A. A.: "Group Theory and Its Application to Physical Problems",
American Journal of Physics, Vol. 30, 774-775 (1962).
BCL # 72a
Fiche # 60/2

Mullin, A. A.: "A Note on a Weakened Goldbach-Like Conjecture",
Notre Dame Journal of Formal Logic, Vol. III (2),
118-119 (1962).
BCL # 72b
Fiche # 60/3

Mullin, A. A.: "On Mutant Sets",
Bulletin of Mathematics & Biophysics, Vol. 24, 209-215 (1962).
BCL # 73
Fiche # 60/3



Mullin, A. A.: "On Mutant Subsets of Recursively Enumerable Systems",
Notices American Mathematics Society, Vol. 9, 42 (1962).
BCL # 74
Fiche # 60/4

Mullin, A. A.: "On the Nature of the Reliability of Automata",
in REDUNDANCY TECHNIQUES FOR COMPUTING SYSTEMS, R. H. Wilcox &
W. C. Man (eds.), Sparcan Books; Washington, D. C., 196-204 (1962).
BCL # 75
Fiche # 60/4

Mullin, A. A.: "Some Theorems on the Structure of Mutant Sets and
Their Applications to Group and Ring Theories",
Notre Dame Journal of Formal Logic, Vol. III (3), 148-151 (1962).
BCL # 76
Fiche # 60/5

Mullin, A. A.: "Models of the Fundamental Theorem of Arithmetic",
Proceedings of the Nat'l Academy of Science, Vol. 50, 604-606 (1963).
BCL # 92
Fiche # 60/5

Mullin, A. A.: "A Necessary Condition for the Validity of Goldbach's
Conjecture",
Zeitschr. f. Math. Logik u. Grundlagen d. Math., Vol. 9,
145-148 (1963).
BCL # 93
Fiche # 60/5

Mullin, A. A.: "On a Theorem Equivalent to Post's Fundamental
Theorem of Recursive Function Theory",
Zeitschr. f. Math. Logik und Grundlagen d. Math., Vol. 9
203-205 (1963).
BCL # 94
Fiche # 60/6

Mullin, A. A.: "Science for the Humanist",
Science, Vol. 139, 680 (1963).
BCL # 94a
Fiche # 60/6

Mullin, A. A.: "On Differences of Certain Structured Sets",
Notre Dame Journal of Formal Logic, Vol. IV (2),
158-159 (1963).
BCL # 94b
Fiche # 60/7

Hsieh, H. S. (H. S. Na)* & G. W. Zopf, Jr.: DETERMINATION OF EQUIVALENCE CLASSES BY ORTHOGONAL PROPERTIES, Biological Computer Laboratory, University of Illinois; Urbana, 103 pp. (1962).
BCL TR # 3.2
Fiche 61/1 & 62

Na, H. S. A. Inselberg*, & H. Von Foerster: LABEL INCORPORATION AND LABEL APPEARANCE IN WHITE BLOOD CELLS, Biological Computer Laboratory, University of Illinois; Urbana, 147 pp. (1963).
BCL TR 2.5
Fiche # 42/3 & 43

Na. H. S.*, H. Von Foerster, & G. Gunther: ON STRUCTURAL ANALYSIS OF MANY VALUED LOGIC, Biological Computer Laboratory, University of Illinois; Urbana, 131 pp. (1964).
also
Ph.D. Thesis. Dept. of Elec. Engr., University of Illinois; Urbana, 131 pp. (1964).
BCL TR # 7.1
BCL # 106
Fiche # 62/1 & 63

Neill, D., M. Babcock*, & R. Erickson: A DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 77 pp. (1962).
BCL TR # 3.3
Fiche # 12/5

Nieman, H.* & C. Baldwin: "Random Networks", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 59-60 (1967).
BCL Report # 67.2
Fiche # 118/5

Nieman, H*, C. Baldwin, & H. Von Foerster: "Growth of Undifferentiated Tissue", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 71-72 (1967).
BCL Report # 67.2
Fiche # 118/5

Pask, G. & H. Von Foerster*: "A Predictive Model for Self-Organizing Systems",

Cybernetica, Vol. 3, 258-300 (1960).

and Vol. 4, 20-55 (1961).

also

A PREDICTIVE MODEL FOR SELF-ORGANIZING SYSTEMS,

Biological Computer Laboratory, University of Illinois; Urbana,
87 pp. (1960).

BCL # 36

BCL TR # 1.4

Fiche # 63/5 & 64

Pask, G.: "The Natural History of Networks",

in SELF-ORGANIZING SYSTEMS, M. C. Yovits & S. Cameron (eds.),
Pergamon Press; London, 232-263 (1960).

BCL # 37

Fiche # 64/3

Pask, G.: "A Proposed Evolutionary Model",

in PRINCIPLES OF SELF-ORGANIZATION, H. Von Foerster &

G. W. Zopf, Jr. (eds.), Pergamon Press; London, 229-253 (1962).

BCL # 77

Fiche # 64/6

Pask, G.: "The Meaning of Cybernetics in the Behavioral Sciences

(The Cybernetics of Behavior and Cognition: Extending the
Meaning of 'Goal')",

in PROGRESS OF CYBERNETICS, Vol. 1, J. Rose (ed.), Gordon and
Breach; New York, 15-44 (1969).

BCL # 237

Fiche # 65/1

Pask, G.: "My Prediction for 1984"

in CIDOC CUADERNO No. 1014, INTERPERSONAL RELATIONAL NETWORKS,
H. Von Foerster (ed.), CIDOC: Cuernavaca, Mexico, 4/1 - 4/14

(1971).

Fiche # 137/1

Pask, G.: "Anti-Hodmanship: A Report on the State and
Prospects of CAI",

in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois; Urbana, 301-305 (1974).

also in Programmed Learning and Ed. Tech., Vol. 9 (5),
235-244 (1972).

BCL Report # 73.38

Fiche # 145

Peterson, L., J. K. Russell, & H. Von Foerster (eds.): PURPOSIVE SYSTEMS, PROCEEDINGS OF THE 1st ANNUAL SYMPOSIUM OF THE AMERICAN SOCIETY OF CYBERNETICS, Spartan Books; New York, 179 pp. (1968).
BCL # 157
not included

Peterson, L.: "Cascades of Transformations of Density Distribution Functions", in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory, University of Illinois; Urbana, 99-113 (1968).
BCL Report # 68.2
Fiche # 122/4

Peterson, L.: CASCADES OF TRANSFORMATIONS OF TWO DIMENSIONAL DISTRIBUTION FUNCTIONS, Biological Computer Laboratory, University of Illinois; Urbana, 46 pp. (1969).
also
M.Sc. Thesis, Dept. of Computer Science, University of Illinois;; Urbana, 46 pp. (1969).
BCL Report # 5.9
BCL # 210
Fiche # 65/3

Peterson, L.: "Cascaded Computational Networks", in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory, University of Illinois; Urbana, 74-89 (1969).
BCL Report # 69.2
Fiche # 124/7 & 125

Peterson, L.* & H. Von Foerster: "Cybernetics of Taxation: The Optimization of Economic Participation", Journal of Cybernetics, Vol. 1 (2), 5-22 (1971).
BCL # 215
Fiche # 67/1

Peterson, L.: "Toward a Theory of Description", in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory, University of Illinois; Urbana, 149-158 (1972).
BCL Report # 72.2
Fiche # 134/5

Peterson, L.: THE RECURSIVE NATURE OF DESCRIPTIONS: A FIXED POINT,
Ph.D. Thesis, Dept. of Computer Science, University of Illinois;
Urbana, 106 pp. + Vitae (1974).
BCL # 252
Fiche # 65/7 & 66

Powers, S.: UNCERTAINTY ANALYSIS IN DYNAMIC SYSTEMS,
Biological Computer Laboratory, University of Illinois; Urbana,
33 pp. (1967).
also
UNCERTAINTY ANALYSIS IN DYNAMIC SYSTEMS,
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
33 pp. (1967).
BCL Report # 8.0
BCL # 208
Fiche # 67/2

Powers, S.* & W. R. Ashby: "A Stochastic Switching Element",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 91-95 (1967).
BCL Report # 67.2
Fiche # 118/7

Ray, S. R., K. C. Kelley*, & F. A. Stahl: ISL - A STRING MANIPULATING LANGUAGE,
Biological Computer Laboratory, University of Illinois; Urbana,
27 pp. (1969).
BCL TR # 12.3
Fiche # 46/5

Ray, S. R., R. T. Chien*, & F. A. Stahl: ISL - A NEW PROGRAMMING LANGUAGE FOR INFORMATION RETRIEVAL,
Biological Computer Laboratory, University of Illinois; Urbana,
28 pp. (1969).
BCL TR # 12.6
Fiche # 18/6

Resnick, Cecily: COMPUTATION MODELS OF LEARNERS FOR COMPUTER ASSISTED LEARNING,
Ph.D. Thesis, Dept. of Biophysics, University of Illinois; Urbana,
150 pp. (1974).
BCL # 254
Fiche # 67/5 & 68 & 69

Riguet, J. & W. R. Ashby*: "The Avoidance of Overwriting in Self-Organizing Systems", Journal of Theoretical Biology, Vol 1, 431-439 (1961).
BCL # 39
Fiche # 4/6

Rosenfeld, D., P. Arnold*, B. Aton, K. Saxena, & H. Von Foerster: "Diversity: \mathcal{H} A Measure Complementing Uncertainty H ", in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory, University of Illinois; Urbana, 159-181 (1972).
also in Cahiers Systema, Vol. 2, 13-35 (1974).
BCL Report # 72.2
BCL # 242
Fiche # 134/6

Russell, J. K. & W. R. Ashby*: MANUALLY OPERATED ROBOT OR NETWORK--A GENERAL PURPOSE ANALOG MACHINE FOR TEACHING AND RESEARCH, Biological Computer Laboratory, University of Illinois; Urbana, 26 pp. (1963).
BCL TR # 4.8
Fiche # 6/4

Russell, J. K.: A VISUAL IMAGE PROCESSOR (VIP), Biological Computer Laboratory, University of Illinois; Urbana, 6 pp. (1965).
BCL Report # 5.0
Fiche # 70/1

Russell, J. K.: VISUAL IMAGE PROCESSOR II, Biological Computer Laboratory, University of Illinois; Urbana, 65 pp. (1966).
BCL Report # 5.4
Fiche # 69/3

Russell, J. K.: THE VISUAL IMAGE PROCESSOR, Biological Computer Laboratory, University of Illinois; Urbana, 121 pp. (1967).
also
THE VISUAL IMAGE PROCESSOR,
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana, 119 pp. (1967).
BCL TR # 6.10
BCL # 160
Fiche # 70/1 & 71

Russell, J. K.: "A Visual Image Processor",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 75-82 (1967).
BCL Report 7.2
Fiche # 118,

Russell, J. K.: VISUAL IMAGE PROCESSING,
Biological Computer Laboratory, University of Illinois; Urbana,
BCL Report # 5.7
not included

Russell, J. K.: "A Visual Image Processor",
IEEE Transactions on Computers, Vol. C-17, 635-639 (1968).
BCL # 156
Fiche # 71/3

Russell, J. K., H. Von Foerster, J. D. White, & L. Peterson (eds.):
PURPOSIVE SYSTEMS, PROC. OF THE 1st ANNUAL SYMPOSIUM OF THE
AMERICAN SOCIETY OF CYBERNETICS,
Spartan Books; New York, 179 pp. (1968).
BCL # 157
not included

Russell, J. K.: "The Visual Image Processor",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 159-169 (1968).
BCL Report # 68.2
Fiche # 123/2

Russell, J. K.: "The Visual Image Processor",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 171-181, (1969).
BCL Report # 69.2
Fiche # 125/7

Ryan, H. F.: "A Recursive Formula for Counting N-Ary Rooted Trees",
in ROOTED TREES, H. F. Ryan and P. Weston, Biological Computer
Laboratory, University of Illinois; Urbana, Part II, 1-25 (1966).
BCL Report # 2.0
Fiche # 71/4

Ryan, H. F.: CLASSIFICATION AND ENUMERATION OF AUTONOMOUS SEQUENTIAL MACHINES,
Biological Computer Laboratory, University of Illinois; Urbana,
127 pp. (1967).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
127 pp. (1967).
BCL TR # 6.11
BCL # 161
Fiche # 71/5 & 72

Ryan, H. F.: "Classification and Enumeration of Autonomous Sequential Machines",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 38-50 (1967).
BCL Report # 67.2
Fiche # 118/3

Saxena, K.* & B. Badenoch: "%: A Measure of Uncertainty (Entropy) of Distribution Function",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 161-167 (1971).
BCL Report # 71.2
Fiche # 132/3

Saxena, K.*, H. Von Foerster, D. Wolf: "Two Theorems Regarding Interspike Interval Histograms",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 127-141 (1972).
BCL Report # 72.2
Fiche # 134/4

Saxena, K., P. Arnold*, B. Aton, D. Rosenfeld, & H. Von Foerster.
"Diversity: % A Measure Complementing Uncertainty h",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 159-181 (1972).
also in
Cahiers, SYSTEMS, Vol. 2, 13-35 (1974).
BCL Report # 72.2
BCL # 242
Fiche # 134/6

Schadach, D. J.: A CLASSIFICATION OF MAPPINGS BETWEEN FINITE SETS AND SOME APPLICATIONS,
Biological Computer Laboratory, University of Illinois; Urbana,
27 pp. (1967).
BCL Report # 2.2
Fiche # 73/1

Schadach, D. J.: A SYSTEM OF EQUIVALENCE RELATIONS AND GENERALIZED ARITHMETIC,
Biological Computer Laboratory, University of Illinois; Urbana,
34 pp. (1967).
BCL Report # 4.1
Fiche # 73/3

Schadach, D.* & G. Gunther: "The Kenogrammatic Structure of Many-Valued Logic",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 14-19 (1967).
BCL Report # 67.2
Fiche # 118/1

Schill, J.: AUTOMATIC DETERMINATION OF INVARIANCE IN MACHINE CODED SPEECH,
Biological Computer Laboratory, University of Illinois; Urbana,
57 pp. (1967).
also
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
57 pp. (1969).
BCL Report # 7.4
BCL # 211
Fiche # 73/6 & 74

Sherry, C. J.*., T. J. Marczynski, & D. Wolf: "The Interdependence Series Matrix: A Method for Determining the Serial Dependence of Neuronal Interspike Intervals",
International Journal of Neuroscience, Vol. 3, 35-42 (1972).
BCL # 217
Fiche # 74/3

Sloan, S.: "Innovation, Imagination and Education: A Recapitulation of Gordon Pask on Learning".
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 107-123 (1972).
BCL Report # 72.2
Fiche # 134/2

Snyder, W.: "A Computational Technique for Uncertainty Analysis",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 105-114 (1971).
BCL Report # 71.2
Fiche # 131/6

Snyder, W.: "Pulse Techniques in Speech Processing",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 217-221 (1971).
BCL Report # 71.2
Fiche # 132/7

Stahl, F. A., S. R. Ray, & K. Kelley*: ISL - A STRING MANIPULATING
LANGUAGE,
Biological Computer Laboratory, University of Illinois; Urbana,
27 pp. (1969).
BCL TR # 12.3
Fiche # 46/5

Stahl, F. A., S. R. Ray, & R. T. Chien*: ISL - A NEW PROGRAMMING
LANGUAGE FOR INFORMATION RETRIEVAL,
Biological Computer Laboratory, University of Illinois; Urbana,
28 pp. (1969).
BCL TR # 12.6
Fiche # 18/6

Steidinger, D., M. Babcock*, I. Thomas, & J. Gazdag: INFORMATION
PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC
SIGNAL ANALYZER,
Biological Computer Laboratory, University of Illinois; Urbana,
72 pp. (1965).
BCL TR # 9.3
not included

Stinaff, R.* & W. R. Ashby: "An Automatic Stochastic Predictor (ASP)",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 83-87 (1967).
BCL Report # 67.2
Fiche # 118/6

Stinaff, R.: AN AUTOMATIC STOCHASTIC PREDICTOR,
Biological Computer Laboratory, University of Illinois; Urbana,
20 pp. (1967).
BCL Report # 8.2
Fiche # 74/4

Stinaff, R.: "The Automatic Stochastic Predictor and Related Processes",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 114-116 (1968).
BCL Report # 68.2
Fiche # 122/5

Stinaff, R.: "An Improved Automatic Stochastic Predictor",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 173 (1968).
BCL Report # 68.2
Fiche # 123/3

Stinaff, R.: "Confluent Display",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 174-174a (1968).
BCL Report # 68.2
Fiche # 123/3

Stinaff, R. D.: TOWARDS A SYSTEMATIC METHOD OF BEHAVIOR MODELING,
Biological Computer Laboratory, University of Illinois; Urbana,
125 pp. (1969).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
125 pp. (1969).
BCL TR # 6.14
BCL # 175
Fiche # 74/5 & 75

Stinaff, R.: "The Automatic Stochastic Predictor and Related Processes",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 49-59 (1969).
BCL Report # 69.2
Fiche # 124/6

Stolurow, L. M. & C. C. Walker*: "A Comparison of Overt and Covert
Response in Programmed Learning",
Journal of Educational Research, Vol. 55, 421-429 (1962).
BCL # 86
Fiche # 106/1

Struhar, J. M., Jr.: AN OMNIDIRECTIONAL LOUDSPEAKER SYSTEM,
Biological Computer Laboratory, University of Illinois; Urbana,
59 pp. (1971).
also
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
59 pp. (1971).
BCL TR # 11.5
BCL # 230
Fiche # 76/1

Swallow, R.: COGNITRON THEORY,
Biological Computer Laboratory, University of Illinois; Urbana,
253 pp. (1964).
also
Ph.D. Thesis, Dept. of Biophysics, University of Illinois; Urbana,
225 pp. (1964).
BCL TR # 6.2
BCL # 107
Fiche # 76/5 : 77 & 78 & 79

Taylor, D. H.: DISCRETE TWO-DIMENSIONAL PROPERTY DETECTORS,
Biological Computer Laboratory, University of Illinois; Urbana,
20 pp. (1962).
BCL TR # 4.5
Fiche # 79/3

Taylor, S.: "An Interactive Program-Analysis System",
in ACCOMPLISHMENT SUMMARY 1969/70. Biological Computer Laboratory,
University of Illinois; Urbana, 164-175 (1970).
BCL Report # 70.2
Fiche # 128/3

Taylor, S.: COMPUTATIONAL DEPENDENCE AND THE TERMINATION OF SIMPLE
LOOPS IN COMPUTER PROGRAMS,
Biological Computer Laboratory, University of Illinois; Urbana,
30 pp. (1970).
also
M.Sc. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
30 pp. (1970).
BCL Report # 4.3
BCL # 214
Fiche # 79/5

Taylor, S. & P. E. Weston*: "Cylinders: A Relational Data Structure",
ACM SIGPLAN Notices, Vol. 6 (2), 398-416 (1971).
BCL # 220
Fiche # 109/4

Taylor, S.: "Algebraic Models of Computer Programs",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 81-92, (1971).
BCL Report # 71.2
Fiche # 131/4

Taylor, S.: "Toward Properties of Algebraic Models of Computer Programs", in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory, University of Illinois; Urbana, 143-147 (1972).
BCL # 72.2
Fiche # 134/5

Thomas, I. & M. Babcock*: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 9 pp. (1964).
BCL TR # 9.1
not included

Thomas, I., J. Gazdag, & M. Babcock*: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 20 pp. (1964).
BCL TR # 9.2
not included

Thomas, I., M. Babcock*, J. Gazdag, & D. Steidinger: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 72 pp. (1965).
BCL TR # 9.3
not included

Thomas, I. & J. Gazdag*: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois, Urbana, 18 pp. (1965).
BCL TR # 9.4
not included

Thomas, I., M. Babcock*, & J. Gazdag: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 8 pp. (1965).
BCL TR # 9.5
not included

Thomas, I., J. Gazdag, & M. Babcock*: INFORMATION PROCESSING CAPABILITIES OF THE UNIVERSITY OF ILLINOIS' DYNAMIC SIGNAL ANALYZER, Biological Computer Laboratory, University of Illinois; Urbana, 76 pp. (1966).
BCL TR # 9.6
not included



- Thomas, I. : THE SIGNIFICANCE OF THE SECOND FORMAT IN SPEECH
INTELLIGIBILITY,
Biological Computer Laboratory, University of Illinois; Urbana,
156 pp. (1966).
also
DYNAMIC ANALYSIS OF SPEECH SIGNALS,
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
156 pp. (1966).
BCL TR # 6.9
BCL # 132
Fiche # 80/1 & 81
- Thomas, I. : "Speech Synthesis and Recognition",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 106-112 (1967).
BCL Report # 67.2
Fiche # 119/1
- Thomas, I. : "The Second Formant and Speech Intelligibility",
in PROCEEDINGS OF THE NATIONAL ELECTRONICS CONFERENCE, Vol. XXIII,
544-548 (1967).
BCL # 149
Fiche # 81/6
- Thomas, I. : STRUCTURAL AND DYNAMIC ASPECTS OF SPEECH SIGNALS,
Biological Compute Laboratory, University of Illinois; Urbana,
13 pp. (1968).
BCL Report # 7.3
Fiche # 81/6
- Thomas, I. : "Structural and Dynamic Aspects of Speech Signals",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 146-158 (1968).
BCL Report # 68.2
Fiche # 123/1
- Tufenkjian, S. & P. Duran*: "Tactile-Kinesthetic Methods for Measuring
Length Used by Congenitally Blind Children",
Perceptual and Motor Skills, Vol. 28, 395-400 (1969).
BCL # 168
Fiche # 23/2

Tuttle, H., P. Weston*, S. Wax: "Acquisition and Use of Natural Language by Machines in a Man-Machine Dialogue", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 33-34 (1967).
BCL Report # 67.2
Fiche # 118/3

Tuttle, H., P. Weston*: "Data Structures for Computations Within Networks of Relations", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 35-37 (1967).
BCL Report # 67.2
Fiche # 118/3

Tuttle, H.*, W. R. Ashby, & K. Kokjer: A TABLE OF THE ENTROPIES ASSOCIATED WITH SIMPLE PARTITIONS, Biological Computer Laboratory, University of Illinois; Urbana, 127 pp. (1970).
BCL Report # 1.1
Fiche # 82/1 & 83

Umpleby, S.: "Information Theory and Consumer Action", Business and Society Review, Vol. 3 (Autumn), 62-67 (1972).
BCL # 221
Fiche # 83/4

Umpleby, S.: SOME APPLICATIONS OF CYBERNETICS CONCEPTS IN SOCIAL SCIENCE, Ph.D. Thesis, Institute of Communications Research, University of Illinois; Urbana, 140 pp. (1975).
BCL # 255
Fiche # 83/5 & 84

Uribe, R., F. G. Varela*, & H. R. Maturana: "Autopoiesis: The Organization of Living Systems, its Characterization and a Model", Biosystems, Vol. 5 (4), 187-196 (1974).
BCL # 239
Fiche # 85/1

Varela, F. G.*, H. R. Maturana, & R. Uribe: "Autopoiesis: The Organization of Living Systems, its Characterization and a Model", Biosystems, Vol. 5 (4), 187-196 (1974).
BCL # 239
Fiche # 85/1

Varela, F. G. & H. R. Maturana*: AUTOPOIETIC SYSTEMS: A CHARACTERIZATION OF THE LIVING ORGANIZATION,
with an introduction by Stafford Beer, Biological Computer Laboratory,
University of Illinois; Urbana, 107 pp. (1975).
BCL Report # 9.4
Fiche # 56/1 & 57

Varela, F. G.: "A Calculus for Self-Reference",
International Journal of General Systems, Vol. 2, 5-24 (1975).
BCL # 25!b
Fiche # 85/2

Varela, F. G.: GROUNDS FOR A CLOSED LOGIC,
Biological Computer Laboratory, University of Illinois; Urbana,
79 pp. (1975).
BCL Report # 3.5
Fiche # 86/1

Varela, F. G.: THE ARITHMETIC OF CLOSURE,
Biological Computer Laboratory, University of Illinois; Urbana,
50 pp. (1976).
BCL Report # 4.4
Fiche # 85/4

Von Foerster, H.: "Basic Concepts of Homeostasis",
in HOMEOSTATIC MECHANISMS, Brookhaven Symposia in Biology:
No. 10, U.S. Brookhaven Laboratory; Upton, New York, 216-242 (1957).
BCL # 5
Fiche # 87/1

Von Foerster, H.: "Some Aspects in the Design of Biological Computers",
in THE 2nd INTERNATIONAL CONGRESS ON CYBERNETICS,
Association International de Cybernetique; Namur, 240-255 (1958).
BCL # 38
Fiche # 87/3

Von Foerster, H., G. Brecher*, & E. P. Cronkite: "Produktion,
Ausreifung und Lebensdauer der Leukozyten",
in PHYSIOLOGIE UND PHYSIOPATHOLOGIE DER WEISSEN BLUTZELLEN,
H. Braunsteiner (ed.), Georg Thieme Verlag; Stuttgart, 188-214
(1959).
BCL # 16
Fiche # 15/1

Von Foerster, H.: "Some Remarks on Changing Populations",
in THE KINETICS OF CELLULAR PROLIFERATION,
F. Stohlman, Jr. (ed.), Grune and Stratton; New York,
382-407 (1959).

also

SOME REMARKS ON CHANGING POPULATIONS

Biological Computer Laboratory, University of Illinois; Urbana,
48 pp. (1959).

BCL # 17

BCL TR # 2.1

Fiche # 87/4

Von Foerster, H.: "On Self-Organizing Systems and Their Environments",
in SELF-ORGANIZING SYSTEMS, M. C. Yovits & S. Cameron (eds.),
Pergamon Press; London, 31-50 (1960).

BCL # 33

Fiche # 88/1

Von Foerster, H.: "Bionics",

in BIONICS SYMPOSIUM: LIVING PROTOTYPES - THE KEY TO NEW
TECHNOLOGY, J. Steele (ed.), TR 60-600, Wright Air Development Division,
Wright-Patterson AFB; Ohio, 1-4 (1960).

BCL # 34

Fiche # 87/6

Von Foerster, H., A. Inselberg*, & L. Lofgren: "Property Detector
Nets and Fields",

in SOME PRINCIPLES OF PREORGANIZATION IN SELF-ORGANIZING SYSTEMS,
M. Babcock et al, Biological Computer Laboratory, University of
Illinois; Urbana, 1-41 (1960).

BCL TR # 1.2

Fiche # 116/1

Von Foerster, H.*, P. M. Mora, & L. W. Amiot: "Doomsday: Friday,
13 November, A.D. 2026",
Science, Vol. 132, 1291-1295 (1960).

also

DOOMSDAY, FRIDAY, NOVEMBER 13, 2026 A.D. ±2000 DAYS,
Biological Computer Laboratory, University of Illinois; Urbana
15 pp. '1960).

BCL # ?

BCL TR # 2.2

Fiche # 87/6

Von Foerster, H.*, P. M. Mora, & L. W. Amiot: "Doomsday",
Science, Vol. 133, 936-946 (1961).

BCL # 57

Fiche # 87/6

Von Foerster, H.*, L. W. Amiot, P. M. Mora: "Population Density and Growth",
Science, Vol. 133, 1931-1937 (1961).
BCL # 59
Fiche # 87/6

Von Foerster, H.*, P. M. Mora, & L. W. Amiot: "'Projections' versus 'Forecasts' in Human Population Studies",
Science, Vol. 136, 173-174 (1962).
BCL # 85
Fiche # 87/6

Von Foerster, H. & G. Pask*: "A Predictive Model for Self-Organizing Systems",
Cybernetica, Vol. 3, 258-300 (1960).
and Vol. 4, 20-55 (1961).
also
A PREDICTIVE MODEL FOR SELF-ORGANIZING SYSTEMS
Biological Computer Laboratory, University of Illinois; Urbana,
87 pp. (1960).
BCL # 36
BCL TR # 1.4
Fiche # 63/5 & 64

Von Foerster, H.: "Mitotic Indices of Dividing and Differentiating Cells",
(Appendix I, Cyclic Numbers of Second Order),
Biological Computer Laboratory, University of Illinois; Urbana,
118 pp. (1961).
BCL TR # 2.3
BCL TR # 2.4
Fiche # 88/3 & 89

Von Foerster, H., J. F. Holshouser*, & G. L. Clark: "Microwave Modulation of Light Using the Kerr Effect",
Journal of Optical Science of America, Vol. 51, 1360-1365 (1961).
BCL # 58
Fiche # 41/4

Von Foerster, H., C. C. Walker, & W. R. Ashby*: "Instability of Pulse Activity in a Net with Threshold",
Nature, Vol. 196, 561-562 (1962).
BCL # 64
Fiche # 5/6

Von Foerster, H.: "Bio-Logic",
in BIOLOGICAL PROTOTYPES AND SYNTHETIC SYSTEMS, VOL. 1,
E. E. Bernard & M. A. Kare (eds.), Plenum Press; New York,
1-12 (1962).
BCL # 78
Fiche # 90/1

Von Foerster, H.: "Biological Ideas For The Engineer",
New Scientist, Vol. 15, 306-309 (1962).
BCL # 79
Fiche # 90/2

Von Foerster, H.: "Circuitry of Clues to Platonic Ideation",
in ASPECTS OF THE THEORY OF ARTIFICIAL INTELLIGENCE: PROCEEDINGS
OF THE 1st INTERNATIONAL SYMPOSIUM ON BIOSIMULATION, 1960,
C. A. Muses (ed.), Plenum Press; New York, 43-81 (1962).
BCL # 80
Fiche # 89/5

Von Foerster, H.: "Communication Amongst Automata",
American Journal of Psychiatry, Vol. 118, 865-871 (1962).
BCL # 81
Fiche # 90/2

Von Foerster, H.: "Perception of Form in Biological and Man-Made
Systems",
in TRANSCRIPTS OF THE INDUSTRIAL DESIGN EDUCATION ASSOCIATION,
(IDEA) SYMPOSIUM, E. J. Zagorski (ed.), University of Illinois;
Urbana, 10-37 (1962).
also in
Journal of Industrial Designers Society of America, Vol. 3 (3),
26-40 (1970).
BCL # 82
BCL # 192
Fiche # 90/3

Von Foerster, H.*., & G. W. Zoph, Jr. (eds.): PRINCIPLES OF SELF-
ORGANIZATION: TRANSCRIPT OF THE UNIVERSITY OF ILLINOIS,
SYMPOSIUM ON SELF-ORGANIZATION,
Pergamon Press; London, xviii + 541 pp. (1962).
BCL # 83
not included

Von Foerster, H.: "Preface",
in PRINCIPLES OF SELF-ORGANIZATION: Transcripts of the
University of Illinois, Symposium on Self-Organization,
Pergamon Press; London, vii-xi (1962).
BCL # 83a
Fiche # 90/5

Von Foerster, H., G. Brecher* & E. P. Cronkite: "Production, Differentiation and Lifespan of Leukocytes", in THE PHYSIOLOGY AND PATHOLOGY OF LEUKOCYTES, H. Braunsteiner (ed.), Grune and Stratton; New York, 170-195 (1962).
BCL # 84
Fiche # 15/3

Von Foerster, H., R. Yeh, S. Cheng*, & A. Inselberg: COMPUTATION OF INVARIANTS IN CONTINUOUS AND DISCRETE MANIFOLDS, Biological Computer Laboratory, University of Illinois; Urbana, 105 pp. (1962).
BCL TR # 3.1
Fiche # 17/1 & 18

Von Foerster, H.: ANALYZING PRINCIPLES OF THE MAMMALIAN AUDITORY SYSTEM, Biological Computer Laboratory, University of Illinois; Urbana, 6 pp. (1962).
BCL TR # 3.4
Fiche # 90/4

Von Foerster, H. & A. Inselberg*: LINEAR PROPERTY FILTERS, Biological Computer Laboratory, University of Illinois; Urbana, 46 pp. (1962).
BCL TR # 4.2
Fiche # 41/6 & 42

Von Foerster, H., C. C. Walker, & W. R. Ashby*: THRESHOLD AND STABILITY IN LARGE NETWORKS, Biological Computer Laboratory, University of Illinois; Urbana, 28 pp. (1962).
BCL TR # 4.3
Fiche # 5/2

Von Foerster, H., C. C. Walker, & W. R. Ashby*: "The Essential Instability of Systems with Threshold and Some Possible Applications to Psychiatry", in NERVE, BRAIN AND MEMORY MODELS, N. Wiener & J. P. Schade (eds.), Elsevier Publishing Co.; New York, 236-243 (1963).
BCL # 88
Fiche # 6/6

Von Foerster, H.: "Bionics", in McGRAW-HILL YEARBOOK OF SCIENCE AND TECHNOLOGY, D. I. Eggenberger (ed.), McGraw-Hill; New York, 148-151 (1963).
BCL # 95
Fiche # 90/5

Von Foerster, H.: "Logical Structure of Environment and Its Internal Representation",
in INTERNATIONAL DESIGN CONFERENCE, ASPEN 1962, R. E. Eckerstrom
(ed.), Herman Miller, Inc; Zeeland, Michigan, 27-38 (1963).
also in
Man Environment Systems, Vol. 4, 161-170 (1974).
(Reprint of BCL # 96)
BCL # 96
BCL # 245
Fiche # 91/1

Von Foerster, H.: "Computation in Neural Nets",
Currents Modern Biology, Vol. 1 (1), 47-93 (1967).
also
NEURAL NETWORKS,
Biological Computer Laboratory, University of Illinois; Urbana,
126 pp. (1963).
BCL # 136
BCL Report # 5.1
Fiche # 91/2

Von Foerster, H.: TOWARD THE REALIZATION OF BIOLOGICAL COMPUTERS,
Biological Computer Laboratory, University of Illinois; Urbana,
22 pp. (1963).
BCL TR # 1.9
Fiche # 90/6

Von Foerster, H., A. Inselberg*, & H. S. Na: LABEL INCORPORATION
AND LABEL APPEARANCE IN WHITE BLOOD CELLS,
Biological Computer Laboratory, University of Illinois; Urbana,
147 pp. (1963).
BCL TR # 2.5
Fiche # 42/3 & 43

Von Foerster, H. & W. R. Ashby*: "Biological Computers",
in BIOASTRONAUTICS, K. E. Schaefer (ed.), The MacMillan Co.;
New York, 333-360 (1964).
BCL # 108
Fiche # 7/3

Von Foerster, H.: "Form: Perception, Representation and Symbolization",
in TRANSCRIPTS OF THE ALLERTON CONFERENCE 1962: FORM AND
MEANING, N. Perman (ed.), Society of Typographic Arts;
Chicago, 21-54 (1964).
BCL # 109
Fiche # 92/1

Von Foerster, H.: "Molecular Bionics",
in 1963 BIONICS SYMPOSIUM: INFORMATION PROCESSING BY LIVING
ORGANISMS AND MACHINES, Report ASD-TDR 63-946, Aerospace Medical
Division, Wright-Peterson AFB; Ohio, 161-190 (1964).
BCL # 110
Fiche # 91/5

Von Foerster, H.: "Physics and Anthropology",
Current Anthropology, Vol. 5, 330-331 (1964).
BCL # 111
Fiche # 93/1

Von Foerster, H.: "Structural Models of Functional Interactions",
in INFORMATION PROCESSING IN THE NERVOUS SYSTEM, VOL. 3,
PROCEEDINGS OF THE XXII CONGRESS OF THE INTERNATIONAL UNION
OF PHYSIOLOGICAL SCIENCES 1962, R. W. Gerard & J. W. Duyff (eds.),
Excerpta Medica Foundation; Amsterdam, The Netherlands,
370-383 (1964).
BCL # 112
Fiche # 93/1

Von Foerster, H., G. Gunther, H. S. Na*: ON STRUCTURAL ANALYSIS
OF MANY VALUED LOGIC,
Biological Computer Laboratory, University of Illinois; Urbana,
131 pp. (1964).
BCL TR # 7.1
Fiche # 62/1 & 63

Von Foerster, H.: "Bionics Principles: A Summary",
in BIONICS LECTURE SERIES XX, VOL. 1,
R. A. Willaume (ed.), NATO Advisory Group For Aerospace Research
and Development; Paris, 1-11 (1965).
BCL # 119
Fiche # 93/2

Von Foerster, H.: "Memory Without Record",
in LEARNING, REMEMBERING AND FORGETTING, VOL. 1: THE ANATOMY
OF MEMORY, D. P. Kimble (ed.), Science and Behavior Books;
Palo Alto, California, 388-433 (1965).
BCL # 120
Fiche # 93/3

Von Foerster, H.: REPORT BY THE PRESIDENT, (Wenner-Gren Foundation),
Biological Computer Laboratory, University of Illinois; Urbana,
52 pp. (1965).
BCL TR # 5.1
Fiche # 92/4

Von Foerster, H.: "Computers in Music",
Datamation, Vol. 12 (10), 106-111 (1966).
BCL # 133
Fiche # 94/1

Von Foerster, H.: HOW TO TELL THE BIRDS FROM THE BEES: THE
ONTOGENESIS OF INFORMATION,
Biological Computer Laboratory, University of Illinois; Urbana,
31 pp. (1965).
also
summary in PROCEEDINGS IFIP CONGRESS 1965, Vol. 2, W. A. Kalenich
(ed.), Spartan Books; Washington, D. C., 636 (1966).
BCL # 134
Fiche # 94/1

Von Foerster, H.: "From Stimulus to Symbol: The Economy of
Biological Computation",
in SIGN, IMAGE, SYMBOL, G. Kepes (ed.), George Braziller;
New York, 42-61 (1966).
also
FROM STIMULUS TO SYMBOL: THE ECONOMY OF BIOLOGICAL
COMPUTATION
Biological Computer Laboratory, University of Illinois; Urbana,
22 pp. (1966).
BCL # 135
BCL Report # 3.2
Fiche # 94/3

Von Foerster, H.: THE NUMBERS OF MAN, PAST AND FUTURE,
Biological Computer Laboratory, University of Illinois; Urbana,
22 pp. (1966).
BCL Report # 13.0
Fiche # 94/5

Von Foerster, H. & G. Gunther*: "The Logical Structure of Evolution
and Emanation",
in INTERDISCIPLINARY PERSPECTIVES OF TIME, Annals of the New
York Academy of Science, Vol. 138 (2), New York Academy of
Sciences; New York, 874-891 (1967).
BCL # 139
Fiche # 36/4

Von Foerster, H.: "Time and Memory",
in INTERDISCIPLINARY PERSPECTIVES OF TIME, Annals of the New
York Academy of Science, Vol. 138 (2), R. Fischer (ed.),
New York Academy of Sciences; New York, 866-873 (1967).
BCL # 140
Fiche # 94/7

Von Foerster, H.: 'Biological Principles of Information Storage and Retrieval',
in ELECTRONIC HANDLING OF INFORMATION TESTING AND EVALUATION,
Kent et al (ed.), Academic Press; London, 123-147 (1967).
BCL # 150
Fiche # 95/5

Von Foerster, H., D. Cohen*, & G. Brieske: A FORMAL MODEL OF
OPTIMIZATION IN A STATIONARY STOCHASTIC ENVIRONMENT.
Biological Computer Laboratory, University of Illinois; Urbana,
17 pp. (1967).
BCL Report # 7.1
Fiche # 19/6

Von Foerster, H., H. Niemann*, C. Baldwin: "Growth of
Undifferentiated Tissue",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 71-72 (1967).
BCL Report # 67.2
Fiche # 118/5

Von Foerster, H.*, A. Inselberg, & P. Weston: "Memory and Inductive
Inference",
in BIONICS SYMPOSIUM 1966: CYBERNETIC PROBLEMS IN BIONICS,
H. Oestreicher & D. Moore (eds.), Gordon and Breach Science
Publishers; New York, 31-68 (1968).
BCL # 152
Fiche # 96/1

Von Foerster, H.*, L. Peterson, J. K. Russel (eds.): PURPOSIVE
SYSTEMS, PROCEEDINGS OF THE 1st ANNUAL SYMPOSIUM OF THE
AMERICAN SOCIETY OF CYBERNETICS,
Spartan Books; New York, 179 pp. (1968).
BCL # 157
not included

Von Foerster, H.: "What is Memory That It May Have Hindsight and
Foresight as Well?",
in THE FUTURE OF THE BRAIN SCIENCES: PROCEEDINGS OF THE 3rd
INTERNATIONAL CONFERENCE, S. Bogoch (ed.), Plenum Press;
New York, 19-64 (1969).
BCL # 153
Fiche # 95/1

Von Foerster, H.* & J. W. Beauchamp (eds.): MUSIC BY COMPUTERS,
Wiley and Sons; New York, 139 pp. (1969).
BCL # 163
not included

Von Foerster, H.: "Sounds and Music",
in MUSIC BY COMPUTERS
H. Von Foerster & J. W. Beauchamp (eds.), Wiley and Sons;
New York, 3-10 (1969).
BCL # 171
Fiche # 95/7

Von Foerster, H.: "Laws of Form",
(Book Review of LAWS OF FORM, G. Spencer Brown), WHOLE EARTH
CATALOG, Portola Institute; Palo Alto, California, 14 (Spring 1969).
BCL # 195
Fiche # 96/4

Von Foerster, H.: ANALYSIS AND SYNTHESIS OF COGNITIVE PROCESSES
AND SYSTEMS,
Biological Computer Laboratory, University of Illinois; Urbana,
210 pp. (1969).
BCL TR # 6.16
Fiche # 96/4 & 97 & 98

Von Foerster, H*, R. T. Chien and Staff: COGNITIVE MEMORY
INTERIM REPORT PHASE I (SEPTEMBER 1967 - 23 FEBRUARY 1969),
Biological Computer Laboratory, University of Illinois; Urbana,
156 pp. (1969).
BCL TR # 12.7
Fiche # 99/3 & 100

Von Foerster, H.: "Thoughts and Notes on Cognition",
in COGNITION: A MULTIPLE VIEW, P. Garvin (ed.), Spartan Books;
New York, 25-48 (1970).
BCL # 166
Fiche # 99/1

Von Foerster, H.: "Molecular Ethology: An Immodest Proposal for
Semantic Clarification",
in MOLECULAR MECHANISMS IN MEMORY AND LEARNING, G. Ungar (ed.),
Plenum Press; New York, 213-248 (1970).
BCL # 184
Fiche # 98/5

Von Foerster, H. & A. Inselberg*: "A Mathematical Model of the
Basilar Membrane",
Mathematical Biosciences, Vol. 7, 341-363 (1970).
BCL # 191
Fiche # 45/1

Von Foerster, H.: "Bionics: Critique and Outlook",
in PRINCIPLES AND PRACTICE OF BIONICS, H. E. von Gierke,
W. D. Keidel & H. L. Oestreicher (eds.), Technivision Services;
Slough, England, 467-473 (1970).
BCL # 197
Fiche # 101/1

Von Foerster, H.: "Review of 'EMBODIMENTS OF MIND' by Warren S.
McCulloch",
Computer Studies in the Humanities Verbal Behavior, Vol. 3 (2),
(1970).
BCL # 218
Fiche # 101/1

Von Foerster, H.: "Obituary for Warren S. McCulloch",
ASC Newsletter, Vol. 3 (1), (1970).
BCL # 250
Fiche # 101/2

Von Foerster, H.* & H. Brun: HEURISTICS: A REPORT ON A COURSE ON
KNOWLEDGE ACQUISITION,
Biological Computer Laboratory, University of Illinois; Urbana,
27 pp. (1970).
BCL Report # 13.1
Fiche # 101/2

Von Foerster, H.*, R. T. Chien and Staff: COGNITIVE MEMORY: INTERIM
REPCRT PHASE II (1 MARCH 1969 - 31 AUGUST 1970),
Biological Computer Laboratory, University of Illinois; Urbana,
185 pp. (1970).
BCL TR # 12.8
Fiche # 101/4 & 102 & 103

Von Foerster, H.: "Toward an Axiomatization of Cognition",
in ACCOMPLISHMENT SUMMARY 1970, Biological Computer Laboratory,
University of Illinois; Urbana, 13-37 (1970).
BCL Report # 70.2
Fiche # 126/7

Von Foerster, H. & L. Peterson*: "Statistical Mechanics of
Economic Systems",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 224-249 (1970).
BCL Report # 70.2
Fiche # 129/1



✓



Von Foerster, H.: "Preface",
in SHAPE OF COMMUNITY, by S. Chermayeff & A. Tzonis, Penguin
Books; Baltimore, xvii-xx (1971).
BCL # 183
Fiche # 103/4

Von Foerster, H.: "Computing in the Semantic Domain",
The Annals of the New York Academy of Sciences, Vol. 184,
239-241 (1971).
BCL # 196
Fiche # 103/4

Von Foerster, H. & L. Peterson*: "Cybernetics of Taxation: The
Optimization of Economic Participation",
Journal of Cybernetics, Vol. 1 (2), 5-22 (1971).
BCL # 215
Fiche # 67/1

Von Foerster, H.: "Technology: What Will It Mean To Librarians?",
ILLINOIS LIBRARIES, Vol. 53 (9), 785-803 (1971).
also
TECHNOLOGY FOR FUTURE LIBRARIANS,
Biological Computer Laboratory, University of Illinois; Urbana,
38 pp. (1972).
BCL # 219
BCL Report # 9.1
Fiche # 103/5

Von Foerster, H.: "Introduction",
in CIDOC CUADERNO No. 1014, INTERPERSONAL RELATIONAL NETWORKS,
H. Von Foerster (ed.), CIDOC; Cuernavaca, Mexico, 0/5 - 0/14
(1971).
Fiche # 136/4

Von Foerster, H.* & P. Weston: "Computing in the Semantic Domain",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 11-32 (1971).
BCL Report # 71.2
Fiche # 130/7

Von Foerster, H.: "Perception of the Future and the Future of
Perception",
Instructional Science, Vol. 1 (1), 31-43 (1972).
BCL # 198
Fiche # 103/6

Von Foerster, H.: "Responsibilities of Competence",
Journal of Cybernetics, Vol. 2 (2), 1-6 (1972).
BCL # 223
Fiche # 104/1

Von Foerster, H.: NOTES ON AN EPISTEMOLOGY FOR LIVING THINGS,
(note: for the French translation of this paper see BCL # 224),
Biological Computer Laboratory, University of Illinois; Urbana,
24 pp. (1972).
BCL Report # 9.3
Fiche # 104/1

Von Foerster, H.: DIRECT ACCESS INTELLIGENCE SYSTEMS,
Biological Computer Laboratory, University of Illinois; Urbana,
44 pp. (1972).
BCL Report # 72.4
Fiche # 136/1

Von Foerster, H.: "Notes on 'Change'",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 3-8 (1972).
BCL Report # 72.2
Fiche # 133/2

Von Foerster, H. & P. Weston*: "Direct Access Intelligence Systems",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 53-93 (1972).
BCL Report # 72.2
Fiche # 133/6

Von Foerster, H., K. Saxena*, D. Wolf: "Two Theorems Regarding
Interspike Histograms",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 127-141 (1972),
BCL Report # 72.2
Fiche # 134/4

Von Foerster, H., P. Arnold*, B. Aton, D. Rosenfeld, K. Saxena:
"Diversity: A Measure Complementing uncertainty H",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 159-181 (1972).
also in
Cahiers SYSTEMS, Vol. 2, 13-35 (1974).
BCL Report # 72.2
BCL # 242
Fiche # 134/6

Von Foerster, H. & F. E. Weston*: "Artificial Intelligence and Machines That Understand",
in ANNUAL REVIEW OF PHYSICAL CHEMISTRY, Vol. 24, H. Eyring,
C. J. Cristensen and H. S. Johnston (eds.), Annual Reviews Inc;
Palo Alto, 353-378 (1973).
BCL # 231
Fiche # 109/6

Von Foerster, H.: "On Constructing A Reality",
in ENVIRONMENTAL DESIGN RESEARCH, VOL. 2, W. F. E. Preiser (ed.),
Dowden, Hutchinson & Ross; Stroudsburg, 35-46 (1973).
BCL # 234
Fiche # 104/3

Von Foerster, H.: ON WHERE DO WE GO FROM HERE?",
Biological Computer Laboratory, University of Illinois; Urbana,
21 pp. (1975).
preprint of
"On Where Do We Go From Here?",
in PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON THE HISTORY
AND PHILOSOPHY OF TECHNOLOGY, University of Illinois-Chicago
Circle, May 14-16, (1973 in press).
BCL # 236
Fiche # 104/4

Von Foerster, H.: "Notes pour un epistemologie des objets vivants",
(French translation of BCL Report # 9.4),
in L'UNITE DE L'HOMME, Edgar Morin and Massimo Piatelli-
Palmarini (eds.), Edition du Seuil; Paris, 401-417 (1974).
BCL # 224
Fiche # 105/1

Von Foerster, H.: "Kybernetik einer Erkenntnistheorie",
in KYBERNETIC UND BIONIK, W. D. Keidel, W. Handier, and
M. Spring (eds.), Oldenburg; Munich, 27-46 (1974).
BCL # 232
Fiche # 104/6

Von Foerster, H.: GIVING WITH A PURPOSE: THE CYBERNETICS OF
PHILANTHROPY,
Occasional Paper No. 5, Center for a Voluntary Society;
Washington, D. C., 19 pp. (1974).
BCL # 241
Fiche # 105/3

Von Foerster, H.: "Culture and Biological Man",
(Book Review of CULTURE AND BIOLOGICAL MAN, Elliot D. Chapple),
Current Anthropology, Vol. 15 (1), 61 (1974).
BCL # 243
Fiche # 105/4

Von Foerster, H.: "Epilogue to AFTERWORDS",
in AFTER BROCKMAN: A SYMPOSIUM, ABYSS, Vol. 4, 68069 (1974).
BCL # 244
not included

Von Foerster, E. & R. H. Howe*: "Cybernetics at Illinois",
(Part One), Forum, Vol. 6 (3), 15-17 (1974);
(Part Two), Forum, Vol. 6 (4), 22-28 (1974).
BCL # 249
Fiche # 41/5

Von Foerster, H. & R. H. Howe*: "Introductory Comments to Francisco
Varela's Calculus for Self-Reference",
International Journal of General Systems, Vol. 2, 1-3 (1975).
BCL # 251a
Fiche # 41/5

Von Foerster, H.: "Cybernetics of Cybernetics",
(Transcript of a talk given at the 1974 ASC Meeting),
Biological Computer Laboratory, University of Illinois;
Urbana, (1976).
BCL Report # 13.2
Fiche # 105/5

Von Foerster, H.: "The Needs of Perception for the Perception
of Needs",
(Paper given at the 1975 meeting of the AIA).
Biological Computer Laboratory, University of Illinois;
Urbana (1976).
BCL Report # 13.3
Fiche # 105/5

Walker, C. C.: A COMPARISON OF OVERT AND COVERT RESPONSES IN
PROGRAMMED LEARNING,
M.Sc. Thesis, Dept. of Psychology, University of Illinois; Urbana,
250 pp. (1961).
BCL # 60
no included

Walker, C. C.* & P. London: "Psychotherapists : The New Clergy",
The Christian Century, Vol. 78, 515-516, 534 (1961).
BCL # 61
Fiche # 106/1

Walker, C. C., W. R. Ashby*, & H. Von Foerster: "Instability of
Pulse Activity in a Net With Threshold",
Nature, Vol. 196, 561-562 (1962).
BCL # 64
Fiche # 5/6

Walker, C. C.* & L. M. Stolzow: "A Comparison of Overt and Covert
Responses in Programmed Learning",
Journal of Education Research, Vol. 55, 421-429 (1962).
BCL # 86
Fiche # 106/1

Walker, C. C., H. Von Foerster, & W. R. Ashby*: THRESHOLD AND
STABILITY IN LARGE NETWORKS,
Biological Computer Laboratory, University of Illinois; Urbana,
28 pp. (1962).
BCL TR # 4.3
Fiche # 5/2

Walker, C. C., W. R. Ashby*, & H. Von Foerster: "The Essential
Instability of Systems With Threshold and Some Possible
Applications to Psychiatry",
in NERVE, BRAIN AND MEMORY MODELS, N. Wiener & J. P. Schade (eds.),
Elsevier Publishing Co.,; New York, 236-243 (1963).
BCL # 88
Fiche # 6/6

Walker, C. C.: A STUDY OF A FAMILY OF COMPLEX SYSTEMS, AN APPROACH
TO THE INVESTIGATION OF ORGANISMS' BEHAVIOR,
Biological Computer Laboratory, University of Illinois; Urbana,
250 pp. (1965).
also
Ph.D. Thesis, Dept. of Psychology, University of Illinois; Urbana,
250 pp. (1965).
BCL TR # 6.4
BCL # 121
Fiche # 106/2 & 107 & 108

Walker, C. C.* & W. R. Ashby: "On Temporal Characteristics of Behavior in Certain Complex Systems",
Kybernetik, Vol. 3 (2), 100-108 (1966).
also

ON TEMPORAL CHARACTERISTICS OF BEHAVIOR IN CERTAIN COMPLEX SYSTEMS

Biological Computer Laboratory, University of Illinois; Urbana,
9 pp. (1966).

BCL # 127

BCL Report # 5.5

Fiche # 108/7

Walker, C. C. & W. R. Ashby*: "Genius",
in FOUNDATIONS OF ABNORMAL PSYCHOLOGY, D. Rosenhan & P. London (eds.),
Holt, Rinehart and Winston, Inc.; New York, 201-225 (1968).
BCL # 124
Fiche # 8/6

Wax, S., P. Weston*, & H. Tuttle: "Acquisition and Use of Natural Language by Machines in a Man-Machine Dialogue",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 33-34 (1967).
BCL Report # 67.2
Fiche # 118/3

Weston, P. E.: "Some Notes on the Synthesis of Property Filters",
in SOME PRINCIPLES OF PREORGANIZATION IN SELF-ORGANIZING SYSTEMS, M. Babcock et al, Biological Computer Laboratory,
University of Illinois, Urbana, 61-69 (1960).
BCL TR # 1.2
Fiche # 116/5

Weston, P. E.: "Photocell Field Counts Random Objects",
Electronics, Vol. 34 (38), 46-47 (1961).
BCL # 62
Fiche # 109/1

Weston, P.: "Machine use of 'Natural Language'",
Journal of Data Management, Vol. 1 (4), 32-35 (1963).
BCL # 97
Fiche # 109/1

Weston, P. E.: "Counting Binary, Rooted Trees: Arboreal Numbers of the First and Second Kind",
in ROOTED TREES, H. F. Ryan and P. Weston, Biological Computer Laboratory, University of Illinois; Urbana, Part I, 1-26 (1966).
BCL Report # 2.0
Fiche # 109/1

Weston, P.* H. Tuttle, & S. Wax: "Acquisition and Use of Natural Language by Machines in a Man-Machine Dialogue", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 32-34 (1967).
BCL Report # 67.2
Fiche # 118/3

Weston, P.* & H. Tuttle: "Data Structures for Computations Within Networks of Relations", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 35-37 (1967),
BCL Report # 67.2
Fiche # 118/3

Weston, P. E.: "Combinatorics of Computing Networks", in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory, University of Illinois; Urbana, 67-71 (1967).
BCL Report # 67.2
Fiche # 118/5

Weston, P., H. Von Foerster*, & A. Inselberg: "Memory and Inductive Inference", in BIONICS SYMPOSIUM 1966: CYBERNETIC PROBLEMS IN BIONICS, H. Oestreich & D. Moore (eds.), Gordon and Breach Science Publishers; New York, 31-68 (1968).
BCL # 152
Fiche # 96/1

Weston, P.: "Cylinders: A Data Structure Concept Based on a Novel Use of Rings", in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory, University of Illinois; Urbana, 42-61 (1968).
BCL Report # 68.2
Fiche # 121/7

Weston, P.: "Cognitive Machines", in ANNUAL INVENTORY OF RESEARCH, Biological Computer Laboratory, University of Illinois; Urbana, 9-21 (1968).
BCL Report # 68.3
Fiche # 123/6

Weston, P.: "Computers and the Language Problem", in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory, University of Illinois; Urbana, 20-30 (1969).
BCL Report # 69.2
Fiche # 124/4

Weston, P.: "A Conceptual Framework for the Study of Linguistics",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 31-40 (1969).
BCL Report # 69.2
Fiche # 124/5

Weston, P.: "A Concept of Grammar",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 41-44 (1969).
BCL Report # 69.2
Fiche # 125/5

Weston, P.: "Man-Like Machines: The Language Barrier",
in COGNITION: A MULTIPLE VIEW, P. Garvin (ed.), Spartan Books;
New York, 407-414 (1970).
BCL # 167
Fiche # 109/4

Weston, P. E.: CYLINDERS: A RELATIONAL DATA STRUCTURE,
Biological Computer Laboratory, University of Illinois; Urbana,
7 pp. (1970).
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
77 pp. (1970).
BCL TR # 6.18
BCL # 188
Fiche # 110/1

Weston, P.* & S. M. Taylor: "Cylinders: A Relational Data Structure".
ACM SIGPLAN Notices, Vol. 6 (2), 398-416 (1971).
BCL # 220
Fiche # 109/4

Weston, P. E.: "To Uncover; To Deduce; to Conclude",
Computer Studies in the Humanities and Verbal Behavior, Vol. 3 (1),
77-89 (1970).
BCL # 201
Fiche # 110/7

Weston, P.: "Cylinders: A Relational Data Structure",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 86-113 (1970).
BCL Report # 70.2
Fiche # 127/7

Weston, P.: "To Uncover; To Deduce; To Conclude",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 114-163 (1970).
BCL Report # 70.2
Fiche # 127/7

Weston, P. & H. Von Foerster: "Computing in the Semantic Domain",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 11-32 (1971).
BCL Report # 71.2
Fiche # 130/7

Weston, P.: "An End of Search, A Means of Understanding: A
Preface to the Anti-Document",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, 135-146 (1971).
BCL Report # 71.2
Fiche # 132/1

Weston, P.* & H. Von Foerster: "Direct Access Intelligence Systems",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 53-93 (1972).
BCL Report # 72.2
Fiche # 133/6

Weston, P. E.* & H. Von Foerster: "Artificial Intelligence and
Machines that Understand",
in ANNUAL REVIEW OF PHYSICAL CHEMISTRY, VOL. 24, H. Eyring,
C. J. Christensen and R. S. Johnston (eds.), Annual Reviews Inc.;
Palo Alto, 353-378 (1973).
BCL # 231
Fiche # 109/6

Wey, T.: "Probabilistic Automata",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 51-52 (1967),
BCL Report # 67.2
Fiche # 118/4

Wey, T.: "Automata",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 76-86 (1968).
BCL Report # 68.2
Fiche # 121/3

Wey, T.: ON THE REALIZATION OF LINEAR AUTOMATA,
Biological Computer Laboratory, University of Illinois; Urbana,
109 pp. (1969)
also
Ph.D. Thesis, Dept. of Elec. Engr., University of Illinois; Urbana,
108 pp. (1969).
BCL TR # 6.13
BCL # 176
Fiche # 111/1 & 112

Wey, T.: "On Automata Theory",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 60-65 (1969).
BCL Report # 69.2
Fiche # 124/6

White, J.: "Algebraic Topologies",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 66 pp. (1967).
BCL Report # 67.2
Fiche # 118/5

White, J.: "Mathematics of General Systems",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 95-98 (1968).
BCL Report # 68.2
Fiche # 122/4

White, J.: "Cognition and Perception",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 90-97 (1969).
BCL Report # 69.2
Fiche # 125/2

Wiener, Norbert: "BIBLIOGRAPHY",
in CYBERNETICS OF CYBERNETICS, Biological Computer Laboratory,
University of Illinois, Urbana, 12-17 (1974).
BCL Report # 73.38
Fiche # 143

Wilkins, M.* & E. Gruberg: "Electrophysiology of Vision",
in ACCOMPLISHMENT SUMMARY 1966/67, Biological Computer Laboratory,
University of Illinois; Urbana, 117-118 (1967).
BCL Report # 67.2
Fiche # 119/2

Wilkins, M.: A NEW HOMEOSTAT,
Biological Computer Laboratory, University of Illinois; Urbana,
23 pp. (1968).
BCL Report # 8.3
Fiche # 112/2

Wilkins, M.: "Mathematical Modeling of Interactions in Neurons and
Neural Nets",
in ACCOMPLISHMENT SUMMARY 1967/68, Biological Computer Laboratory,
University of Illinois; Urbana, 143-145 (1968).
BCL Report # 68.2
Fiche # 122/7

Wilkins, M.: "Mathematical Modeling of Neurons and Neural Nets",
in ANNUAL INVENTORY OF RESEARCH, Biological Computer Laboratory,
University of Illinois; Urbana, 28-33 (1968).
BCL Report # 68.3
Fiche # 123/7 & 124

Wilkins, M.: "Mathematical Modeling of Interactions in Neurons and
Nets",
in ACCOMPLISHMENT SUMMARY 1968/69, Biological Computer Laboratory,
University of Illinois; Urbana, 98-112 (1969).
BCL Report # 69.2
Fiche # 125/2

Wilkins, M.: "Neural Modeling: Methodology, Techniques, and
a Multilinear Model for Information Processing",
in ACCOMPLISHMENT SUMMARY 1969/70, Biological Computer Laboratory,
University of Illinois; Urbana, 81-84 (1970).
BCL Report # 70.2
Fiche # 127/4

Wilkins, M.: NEURAL MODELING: METHODOLOGY, TECHNIQUES AND A
MULTILINEAR MODEL FOR INFORMATION PROCESSING,
Biological Computer Laboratory, University of Illinois; Urbana,
167 pp. (1970).
also
Ph.D. Thesis, Biophysics Dept., University of Illinois; Urbana,
167 pp. (1971).
BCL TR # 6.19
BCL # 204
Fiche # 112/4 & 113 & 114

Wilson, K.: THE CYBERNETICS OF COGNITIVE PROCESSES,
Biological Computer Laboratory, University of Illinois; Urbana,
111 pp. (1974).

also

M.Sc. Thesis, Dept. of Elec. Engg., University of Illinois, Urbana,
111 pp. (1974).

BCL Report # 9.2

BCL # 246

Fiche # 114/3 & 115

Wolf, D.: "Sensory-Motor Interactions of the 'Critter' A Model",
in ACCOMPLISHMENT SUMMARY 1970/71, Biological Computer Laboratory,
University of Illinois; Urbana, Ill. . (1971).

BCL Report # 71.2

Fiche # 131/7

Wolf, D. J., C. J. Sherry*, & T. J. Maziynski: "The Interdependence
Series Matrix: A Method for Determining the Serial Dependence
of Neuronal Inter-Spike Intervals",
International Journal of Neuroscience Vol. 3, 35-42 (1972).
BCL # 217
Fiche # 74/3

Wolf, D., K. Saxena*, & H. Von Foerster: Two Theorems Regarding
Interspike Interval Histograms",
in ACCOMPLISHMENT SUMMARY 1971/72, Biological Computer Laboratory,
University of Illinois; Urbana, 127-141 (1972).
BCL Report # 72.2
Fiche # 134/4

Yeh, R., S. Cheng*, A. Inselberg, & H. Von Foerster: COMPUTATION OF
INVARIANTS IN CONTINUOUS AND DISCRETE MANIFOLDS,
Biological Computer Laboratory, University of Illinois; Urbana,
106 pp. (1962).
BCL TR # 3.1
Fiche # 17/1 & 18

Zopf, G. W.: "Property Filtration in the Organism",
in SOME PRINCIPLES OF PREORGANIZATION IN SELF-ORGANIZING
SYSTEMS, M. Babcock et al, Biological Computer Laboratory,
University of Illinois; Urbana, 81-90 (1960).
BCL TR # 1.2
Fiche # 116/7

Zopf, G. W. & A. A. Mullin*: "Remarks on Berkner's 'Can the Social
Sciences be Made Exact?'",
Proceedings of the IRE, Vol. 49, 526 (1961).
BCL # 49
Fiche # 52/2

Zopf, G. W. & H. S. Hsieh*: DETERMINATION OF EQUIVALENCE CLASSES
BY ORTHOGONAL PROPERTIES,
Biological Computer Laboratory, University of Illinois; Urbana,
103 pp. (1962).
BCL TR # 3.2
Fiche # 61/1 & 62

Zopf, G. W. & H. Von Foerster (eds.): PRINCIPLES OF SELF-
ORGANIZATION: TRANSCRIPTS OF THE UNIVERSITY OF ILLINOIS
SYMPOSIUM ON SELF-ORGANIZATION,
Pergamon Press; New York, xviii + 541 pp. (1962).
BCL # 83
not included

Zopf, G. W.: "Attitude and Context",
in PRINCIPLES OF SELF-ORGANIZATION, H. Von Foerster &
G. W. Zopf, Jr. (eds.), Pergamon Press; New York, 325-346 (1962).
BCL # 87
Fiche # 115/5

Zopf, G. W.: "Sensory Homeostasis",
in NERVE, BRAIN AND MEMORY MODELS, N. Wiener & J. P. Schade (eds.),
Elsevier Publishing Co.; New York, 114-121 (1963).
BCL # 98
Fiche # 115/7