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11/15/21 Engineering Computer Science Wolfgang J. Poppelbaum Papers, 1955-1989

<u>Box 1</u>:

Correspondence, 1954-1989 Chronological files (17 folders), 1977-1989 Task 15 (Circuit Research Program), 1965 University of Illinois, 1954-1991 Biographical Materials Articles and Papers (2 folders), 1950-1987

<u>Box 2</u>:

Manuscripts, 1972, 1981 <u>Computer Hardware Theory</u>, 1972 Class Notes for CC 393 and CS 293 Comments, 1969-1970 Correspondence, 1970-1972 Transparencies of Figures (1-1 through 12-25) 2nd. edition Proposal, 1973 <u>Stochastic and Determinants Averaging Processors</u>, 1981 Reports, 1954-1967 Electrical Engineering Research Laboratory, 1954 Digital Computer Laboratory, 1955-1963 ATRIX (hybrid, analog, and digital graphical processing system (AEC Contract 1469 -Poppelbaum) (2 folders), 1967

<u>Box 3</u>:

Reports, 1967-1989 Department of Computer Science (5 folders), 1967-1989 Subject Files American Federation of Information Processing Societies, Joint Computer Conference, 1967 Advances in Computers Correspondence, 1974 American Federation of Information Processing Societies. Joint Computer Conference, 1967 Application of Laser Technology to Information Processing (Symposium), 1964-1965 Atomic Energy Commission (Contract AT(11-1) - 1469) 1965-1966 **Bibliographies** Braille Touchpanel, 1975 Burst Advertising, 1974 Ideas, 1974 Capricious Grading Committee, 1974-1978 Circuit Research Guidelines, 1966-1968 College of Engineering Faculty Meetings, 1979-1980 College Policy and Development Committee, 1982-1984 COMCON '73 (Slides), 1974 Committee on Educational Innovation, 1977 Computer Graphics Conference, 1968-1969 Department of Computer Science Proposals, 1965-1981 Department of Computer Science Publicity Brochure, 1977 Digital Computer Laboratory Building Committee, 1963-1965 Eastern Joint Computer Conference (EJCC), 1959 Educational Innovation Committee, 1980 Educational Model Paper (Photographs), 1972 Efficient Technical Education Presentation, 1975

Electrical Engineering Faculty Notes, 1979-1980 Electrical Engineering Graduate Committee, 1972-1981 Electrolytic Transistors - Some Remarks, 1970 Flip-Flops (circuits), 1956 Flossie (display system), 1975 Gaines and Poppelbaum - Probabilistic and Deterministic Averaging Processors, 1975 General Exam - Hardware, 1980 Graduate Students, 1984 Graphics Conference News Article, ca. 1970 Gravitational Communications, 1972 G.T.E., 1973-1974

<u>Box 4</u>:

Subject Files

HAL Equipment, 1975 Hardware Research Guidelines (4 folders), 1972-1976 Hardware Subcommittee CS Course Revision, 1970-1982 Hardware Syllabus, 1974 Houghton Mifflin Co., 1971 IEEE (Institute of Electrical and Electronics Engineers) Computer Elements Committee, 1967 International Convention, 1967-1968 Solid State Circuit Subcommittee, 1964-1981 Illinois Group (Consulting Group including UIUC Senior Faculty), 1975 Industrial Affiliates Programs, 1980 Information Engineering Laboratory, 1974-1975 Proposal, 1975 Quarterly Technical Progress, 1974-1975 International Conference on Information Processing, 1959 Irwin, Arlyle, 1965-1968 Kubitz, William Activities, 1981 Lake Arrowhead Workshop Reprint, 1973 Large Scale Biomedical Information System (NLM Grant), 1979-1984

| LASL (Los Alamos Scientific Laboratory), 1971-1977 |
|---|
| Organization Chart and Staff Photographs, 1971 |
| Research Plans, 1972 |
| Security, 1972, 1976, 1977 |
| Little Computer (INTELEC), 1979 |
| Long Range Planning Committee, 1976-1977 |
| Los Alamos |
| Correspondence, 1972-1973 |
| Stochastic Work, 1974 |
| Medical Electronics Project, 1973-1974 |
| Cardalert, ca. 1973 |
| Correspondence, 1973-1974 |
| Micromobile, ca. 1973 |
| Poppelbaum's Contribution, ca. 1978 |
| Proposal, 1973 |
| Michalski, Ryszard - Papers, 1973, 1977-1978 |
| Moss, Randy, 1978 |
| MSB Theory (Simplified Modifier) - Plan |
| National Science Foundation (NSF) Proposal: Pulse and Pulse-Train - Correspondence, 1978 |
| New Courses, 1982 |
| "A Non-Weighted Binary Structure for Speech Applications" - Correspondence and Models for |
| Paper, 1979 |
| Office of Naval Research (ONR) - Circuit Research Program (Contract No. Nonr-1834(15)) (6 |
| folders), 1961-1963 |

<u>Box 5</u>:

Subject Files

Office of Naval Research (ONR), 1955-1978 Contracts and Correspondence (2 folders), 1973-1978 Final Report (ILLIAC II and Uncommon Forms of Information Processing), 1955-1973 Philosophy of Computers, 1972-1973 Proposals (3 folders) 1974-1978 Statistical Processor Workshop, 1976 Stochastic Processing Workshop, 1977 Technical Reports, 1955-1956 On-line Optical Data Processing System, ca. 1969 On-line Recognition (OLREC), 1978, 1980 Patents, 1953-1979 Patents - Burst, 1974-1976 Pattern Recognition Society, 1967-1974 The Phastor (analog storage unit) Princeton - Correspondence, 1972 Privacy Research, 1978-1979 "Probable Trends in Computer Technology from 1965-1970," ca. 1966 Proposal for a Five-year Hardware Research Program Proposed Naval Applications of Stochastic and Burst Processing, 1974 Prospects (students), 1977-1978 Robinson, Colan Michael, 1978 Robotics, ca. 1972 Seminar on Transistor, 1955 Shop File, 1977 Solid State Circuits Review Board (IEEE), 1974 Space Committee, 1971, 1980

"Statistical Processors" Reprint and Photographs, 1976

Stochastic Computing, 1967-1974 Students Abroad Office, 1973 Task 15 Reports (Circuit Research Program), 1960 Teaching Evaluations and Improvement Committee, 1976 Transistor Data Tabulation, 1967 Trip Reports, 1957-1966 IEEE 4-10 Solid States Circuit Committee, 1965-1966 Symposium on Large Capacity Memory Techniques for Computing Systems, 1961 Western Joint Computer Conference, 1957-1958 Votrax (Vocal Interface Synthesizer), 1975 VLSI (Very Large Scale Integrated Circuits), 1980 Willis Ware, 1971-1972 X - or Clock (Electronic Clock), 1964 ILLIAC (History 1952-1962) ILLIAC Ì Blueprints (2 folders) 1956-1962 Design Techniques, 1955

Box 6:

ILLIAC I, 1954-1977 New Transistorized Computer Logical Diagrams and Circuits, 1960 Trance: A Direct Couple, Asynchronous Computer-Model Using ..., ca. 1961 Trace Circuits, 1956 Transistor Circuits Built at the Digital Computer Laboratory ..., 1954-1955 ILLIAC II, 1961-1964 Annual Report and Proposal (AEC Contract AT(11-1)-415), 1964 Circuit Design for the New Illinois Computer, 1959 Manual, 1963 Reports, 1961-1964 System Manual, 1964 ILLIAC III, 1969-1973 Dynamic Focusing and Pincushion Correction Circuit..., 1969 ILLIAC III Computer System Manual: Arithmetic Units - Volume 2, 1973

ILLIAC V - Proposal Ideas, 1977 Course-Related Materials, 1959-1985 Lecture Notes, Problems and Course Evaluations CS 281 - Computer Hardware Theory (3 folders), 1972, 1975, 1982-1985 CS 293 - Introduction to Computer Hardware, 1973 CS 381 - Advance Computer Hardware Theory, 1972 CS 385 - Theory of Semiconductor Computer Devices, 1969 CS/EE 485 - Special Topics in Computer Hardware, 1973-1974 CS/EE 581 - Digital Circuits and Machines, 1977 D.C.S. 385 - Digital Computer Electronics, ca. 1959 E.E 393 - Digital Computer Electronics (2 folders), ca. 1960 E.E. 485 - Probabilistic and Deterministic Averaging Processors, 1976 <u>Box 7</u>: Course-Related Materials, 1956-1985 Lecture Notes, Problems and Course Evaluations Math 385 - Digital Computer, ca. 1960 Math and E.E. 294 - Introduction to the Theory of Digital Machines, ca. 1960 Math and E.E. 384 - Logical Design of Automatic Digital Circuits, 1956 Student Papers and Projects, 1969-1989 Department of Computer Science - Student-Guided Research Projects, 1969, 1972, 1975-1978 Student Papers, 1983-1984, 1988-1989 CS 281 - Introduction to Computer Circuits, 1985 CS 290, 1964 CS 293 - Introduction to Computer Hardware Includes index, descriptions and photographs for Experiments 1-1 through 14-8 (3 folders) CS 381 - Computer Memories and I/O General (5 folders), 1981, 1988-1989 "Memory Presentation Series," (6 folders), 1985 Includes index to papers CS 485 - Special Topics in Computer Hardware, 1976 CS 490 - Student Papers, 1980 EE 296 - Student Papers, 1974

<u>Box 8</u>:

Doctoral Degree Theses, 1963-1987

List of Theses

Ph.D. Theses Submitted to the Department of Computer Science under the Direction of Professor Poppelbaum, 1963-1987 (some under ONR contracts).

<u>Box 9</u>:

Master's Degree Theses, 1964-1989 List of Theses Master's These Submitted to the Department of Computer Science under the Direction of Professor Poppelbaum, and under ONR contracts, 1964-1989.
Burst I (38-35mm slides), 1975-1976
Burst II (11-35mm slides), 1975-1976
Color Modulation - Spectrum Sample Transmission (28-35mm slides)
Negative Resistance Modulation (6 lantern slides)
Office of Naval Research - Presentation in Washington (17-35mm slides), 1978
Unifield (35-35mm slides)

<u>Box 10</u>

Proposals and Projects - Blueprints and Diagrams
 Circuits, UNIVAC, ENIAC, Replica of Pascal's, Babbage's and Neumann's Machines (2 folders of negatives), 1968
 Stochastic Meter, Burst, Logituner (12 containers of 35 mm slides)
 Flow-gating Principle, Circuits, Opto-Electric Switching Matrix, Storage Systems, Monitor Optics and Transistors (10 containers of lantern slides)

<u>Box 11</u>:

Projects

Index Overview of Projects Project Diagrams (46 folders of transparencies and photographs) Includes projects of various faculty including projects in which Poppelbaum was involved. "In Memorian Memories, 1952-1973" "30 Years of I.E.L.," 1988

Includes manuscript and photographs

<u>Box 12</u>:

Projects - Diagrams

Biburst: Compressor/Encoder (transparencies) Bundle Processing (negatives) Burft: Processing (transparencies) Burst Processing (transparencies) Burstcomp: Processing (transparencies, negatives) Cardalert: Arrythmia/Cardio Monitor (transparencies) Driad: Synchronous Sampling (transparencies) Ergodic, Sabuma, Transmatrix (transparencies, negatives) Flossie: Display System (negatives) Instrument Panels (transparencies, negatives) **INTELEC**, Pact Station Locoburst (transparencies) Longituner Marvel Report (transparencies) Micromobile **OLEF:** Bundle Multiplier (Stochastic) ONR Language Plans: Indicator Processing, Generalized Burst, 1976 Optocomp: Optical Logic (transparencies)

Pace Maker Rascel (transparencies), 1976
Stereotronic, Hologram, Thermoplastic, Ardenne Tube, Projection CRT, Life Panel, Plasma Panel, Blast, Who Wants What in Displays, Volumatrix: Monitor (transparencies, negatives)
Unipulse: Address System
Walshstore: Storage (negatives)
Weighted Binary: Averaging Systems (transparencies)
Far Out (16mm film) Film profiling research and development of display systems in the Department of Computer Science- ONR Contract NOOO 14-67-A-0305-007, 1969 Contents
First and Fourth Printings (16mm film), 1969, 1973
Computer Hardware Theory - Diagrams (35mm slides), Chapters 1-5

Box 13:

Computer Hardware Theory - Diagrams (35mm slides), Chapters 6-14

Box 14:

Files Accessioned February 19, 2009

Computer Hardware Theory_- text book SUBJECT FILES Grant Proposals- To National Science Foundation, "Stochastic Processing and On-line coding for Communication", 1973-1975 "Correlation Modulation, Bandwidth Compression and Failsoft Computers, 1974-1975 Grant Proposal -To Naval Research "The Control of Semi-Autonomous Robots Over Very Large Distances, 1978 Lecture Notes "Introduction to the Theory of Digital Media" Publications-Summary of Work/Information Engineering Library, 1974-1978 Letter from John Bardeen, June 2, 1954.

<u>Box 15</u>:

PHOTOS

Illiac II Photos used in production of *Computer Hardware Theory*