VITAE

•													Page
Ahmed, Nasir			•	•			•	٠.		•	•	•	1
Brewer, Richard Kemp	•		•	•		•	•	•	•	•	•	•	4
Calhoun, Myron Ammon		•	•		•	•		•	•	•	•		5
Conrow, Kenneth	•		•		. •	•		•	•.	•	•	•	~ 8
Fisher, Paul S			•				•	•	• •		•		9 .
Gallagher, Tom L			•	•	.•	•	•	•	Į.	•	•		10
Miller, Michael H				•			. •	 •	•	•	. •	•	13
Sackman, Harold				. •	•	•		•	•	•	•	•	14
Sincovec, R. F						•	•	•	•	•		•	24
Trump, Thomas N				•				•	•	•	•	•	26
Unger, Elizabeth A.						•		_ •=	· • ;		. •		27
Water Person		~~											29

ł

Nasir Ahmed

YEAR BORN: 1940

RANK:

Associate Professor

DEPARTMENTS:

Electrical Engineering.

Computer Science

DEGREES:

B.S., University College of Engineering,

Bangalore, India, 1961

M.S., University of New Mexico, 1963 Ph.D. University of New Mexico, 1966

EXPERIENCE:

Research Assistant, University of New Mexico, 1961-63

Instructor, University of New Mexico, 1963-66

Principal Research Engineer, Honeywell, Inc., 1966-68 Research Specialist, The Boeing Co., Summer 1968

HONORARY AND PROFESSIONAL SOCIETIES

Institute of Electrical and Electronics Engineers
Sigma Xi

FIELDS OF RESEARCH COMPETENCE:

Scientific Data Processing Techniques, Pattern Classification, Communication Theory, Information Theory, Network Theory.

AWARDS:

National Research Council travel grant to attend the 1971 IFIP (International Federation on Information Processing). Congress, held in Ljubljana, Yugoslavia.

PUBLICATIONS:

- (1) Related to Scientific Data Professing Techniques:
- N. Ahmed and P.S. Fisher, "Study of Algorithmic Properties of Chebyshev Polynomials", Int. Journal of Contputer Math., Dec. 1970, pp 307-317
- N. Ahmed and K.R. Rao, "Discrete Fourier and Hadamard Transforms," Electronics Letters, Vol. 6, No. 7, April 2, 1970, pp. 221-224.
- N. Ahmed et.al., "BIFORE or Hadamard Transform," IEEE Trans. on Audio and Electroacoustics, Sept. 1971, pp. 125-135.
- N. Ahmed and K.R. Rao, "Spectral Analysis of Linear Time-Invariant Systems Using BIFORE (Binary Fourier Representation)," Electronics Letters, Vol. 6, No. 2, 22nd Jan. 1970, pp. 43-44.
- N. Ahmed, et al., "Multi-dimensional Binary Fourier Representation,"

 Proc. Second Southeastern Symposium on System Theory, March 1970,

 pp. J3-0 to J3-10.

Richard Kemp Brewer

YEAR BORN: 1937

RANK:

Assistant Professor of Computer Science

DEGREES:

B.S. University of Wisconsin, 1959 M.S. University of Wisconsin, 1964

EXPERIENCE:

Sales trainee, American Hospital Supply Corp., 1959-1960 Technical editor and writer, AC Spark Plug Division, General Motors (Titan Missile Division), 1960-1961 Director of Public Information, University of Wisconsin Medical Center (medical writing, publications and public relations), 1962-1963.

Research Assistant, University of Wisconsin, Mass Communications Research Center, 1963-1966.

Project Assistant, University of Wisconsin, Department of English, 1965-1966.

Fellow, National Science Foundation, The RAND Corp., Santa Monica, California, 1966-1967.

Instructor, University of North Carolina at Chapel Hill, joint appointment with School of Journalism and Dept. of Computer and Information Science, 1967-1969.

Research Associate, Carolina Population Center, U. of North Carolina at Chapel Hill, 1969-1970.

Assistant Professor, Kansas State University, 1970-present.

PROFESSIONAL RECOGNITION AND HONORS:

National Science Foundation Fellowship in Computational Linguistics, 1966-1967.

HONORARY AND PROFESSIONAL SOCIETIES;

Association for Computing Machinery

FIELDS OF RESEARCH COMPETENCE:

Computational linguistics, information retrieval, psycholinguistics, experimental design, computational stylistics.

PROFESSIONAL PUBLICATIONS:

"Consistency of Syntatic Structure as a Factor in Journalistic Style," with P. H. Tannenbaum. Journalism Quarterly, 42, 273, 1965.

RESUME of Myron Ammon Calhoun

604 Bertrand Street Manhattan, KS 66502 (913) 776-7590

Areas of Demonstrated Competence:

Hardware design and implementation of digital systems ranging from dedicated-application, non-programmable processors through both small- and large-scale general-purpose, programmable computers.

Programming of computer system software, Management Information Systems, and user-oriented application programs on various computers, including test-and-control languages for debugging new computer hardware interfaced to existing equipment.

Other Areas of Interest:

Smoothing of Hardware-Firmware-Software-Programming boundaries Computer-aided design of digital systems . Machine-independent software and/or languages

Personal Data:

Born January 31, 1941, in Niles, Michigan Male, married, three children
Selective Service Classification: III-A
Social Security Number:
"Q" clearance (VG 13795) granted August, 1966
Hobbies: beekeeping, amateur radio (W4WKV), fishing

Education:

Ph.D. 1967 Arizona State University, Tempe, Arizona

M.S. 1964 Colorado State University, Ft. Collins, Colorado

B.S. 1963 University of Kansas, Lawrence, Kansas

A.A. 1961 Graceland College, Lamoni, Iowa

Awards, Scholarships, Honor Societies:

NASA Traineeship, Arizona State University (1964-67)
NSF Graduate Fellowship, Colorado State University (1963-64)
Graduated "With Highest Distinction" from University of Kansas
RCA Scholarship, University of Kansas (1962-63)
BOEING Scholarship, University of Kansas (1961-62)
GOLD SEAL for Scholarship (one of three), Graceland College
National Merit Finalist (1959)
Valedictorian, Milton High School, Milton, Florida (1959)
Member of Tau Beta Pi

Kenneth Conrow

YEAR BORN: 1933

TITLE:

Associate Professor of Computer Science

DEGREES:

B.A. Swarthmore College, 1954

Ph.D. University of Illinois, 1957

EXPERIENCE:

Assistant Professor, University of California, 1957-61 Assistant Professor, Kansas State University, 1961-65. Associate Professor, Kansas State University, 1965-date

HONORARY AND PROFESSIONAL SOCIETIÉS:

American Chemical Society Alpha Chi Sigma Sigma Xi Phi Beta Kappa Phi Lambda Upsilon

FIELDS OF RESEARCH COMPETENCE:

Alicyclic compounds, non-benzenoid aromatics, physicalorganic chemistry, applications of nmr to organic problems, computer generation of organic nomenclature

RELEVANT PROFESSIONAL PUBLICATIONS AND PAPERS:

"Machine Computation of Association Constants from Spectrophotometric Data: An Analysis of Errors,"

J. Am. Chem. Soc., 86, 1025 (1964).

"Computer Generation of Baeyer System Names of Saturated Bridged Bicyclic, Tricyclic and Tetracyclic Hydrocarbons," J. Chem. Documentation, 6, 206 (1966).

"NEATER: A PL/I Source Statement Reformatter," No. 360D-03-6.018, Contributed Program Library, IBM, 40 Saw Mill River Road, Hawthorn, New York 10532.

"NEATER 2: A PL/I Source Statement Reformatter," accepted by Communications of the ACM.

Professor Conrow has 16 other published scientific papers in refereed journals in the field of chemistry plus a book: DEDUCTIVE ORGANIC CHEMISTRY: A SHORT COURSE, published by Addison-Wesley (1966).

Paul S. Fisher

YEAR BORN: 1942

TITLE:

Assistant Professor of Computer Science

DEGREES:

B.A. University of Utah, 1963 M.S. University of Utah, 1964

Ph.D. Arizona State University, 1969

EXPERIENCE:

Instructor, University of Utah, 1964-65
Manager of Operations, Arizona State University, 1965-66
Computer Consultant, Arizona State University, 1965-67
Assistant Professor, Kansas State University, 1967- date
Consultant, Boeing Co., Summers of 1968 and 1969
Director, Conference on Translator and Translator Writing
Systems, KSU, Department of Computer Science, January

Systems, KSU, Department of Computer Science, January 4-8, 1971.

Consultant, Boeing Aerospace, Summers 1968 and 1969, Michoud Facility, New Orleans, La.

Consultant, Synectics Corporation, Kansas City, Missouri, June, 1970-present

HONORARY AND PROFESSIONAL SOCIETIES:

Association of Computing Machinery

FIELDS OF RESEARCH COMPETENCE:

Automata Theory, Programming Languages

PROFESSIONAL PUBLICATIONS:

"Study of Algorithmic Properties of Chebyshev Coefficients," Int. Journal of Comp. Math., 2 (4), 1970 (with N. Ahmed).

"BIFORE (Binary FOurier REpresentation) Phase Spectrum," Midwest Symposium on Circuit Theory, May 7-8, 1970 (with R. K. Rao, and N. Ahmed).

"Wind Erosion Equation: Computer Solution and Application," accepted for publication 1970, Soil Science Society of America Proceedings (with E. Skidmore).

"WEROS: A FORTRAN IV Program to Solve the Wind Erosion Equation," to be published as USDA-ARS-41-174 (with E. Skidmore).

Tom L. Gallagher

YEAR BORN: 1932

RANK:

Associate Professor, Department of Computer Science Director, Computing Center

DEGREES:

B.A., North Texas State College, 1953 M.S., North Texas State College, 1954 D.Sc., Washington University, 1967

EXPERIENCE:

School of Nuclear Science and Engineering, Second Session, Argonne National Laboratory, Lemont, Illinois, 1955 Senior Nuclear Engineer, Convair, Fort Worth, 1954-57 Nuclear Physicist, Pabcock and Wilcox, Lynchburg, Va., 1957-59

Reactor Physicist, Internuclear Company, Clayton, Mo., 1959-62

Manager, Project Services, Computation Center, Washington University, 1962-63

Director, Computation Center, Washington University 1963-65

Research Associate, Biomedical Computer Laboratory, Washington University, 1965-67

Associate Director, Computing Facilities, Washington University, 1967-69

Assistant Professor of Computer Science, School of Engineering and School of Medicine, 1967-70

Director, Computing Facilities, Washington University, 1969-70

Director, Computing Center, Kansas State University,

Associate Professor, Department of Computer Science, Kansas State University, 1970 -

PROFESSIONAL RECOGNITION AND HONORS:

Who's Who at North Texas, Physics, 1953
Association of Computing Machinery, Saint Louis Chapter,
Secretary Treasurer, 1969-1970

HONORARY AND PROFESSIONAL SOCIETIES:

America Management Association Association of Computing Machinery

FIELDS OF RESEARCH COMPETENCE:

Mathematical Programming, Optimization Techniques, Information Storage and Retrieval, Management Information Systems, Biomedical Data Processing

Michael H. Miller

YEAR BORN: 1934

RANK:

Assistant Professor of Computer Science Assistant Director of Computing Center

DEGREES:

B.S., Iowa State, 1958 M.S., Iowa State, 1961

DEPARTMENT:

Computing Center

EXPERIENCE:

U.S. Army, 1954-56

Graduate Assistant, Iowa State Univ., 1958-60

Instructor, Kansas State Univ., 1960-65

Manager of Systems and Operations, Computing Center Kansas State Univ., 1960-65

Consultant to Agri. Division Dunlap & Associates, Inc.

Manhattan, Kansas, 1960-68

Assistant Professor, Mathematics, Kansas State

Univ. 1965-1970

Assistant Director, Computing Center, Kansas State Univ. 1965 to present

Assistant Professor, Computer Science, 1970

to present

HONORARY AND PROFESSIONAL SOCIETIES:

Pi Mu Epsilon

FIELDS OF RESEARCH COMPETENCE:

Computer Operating Systems Programming Languages

Harold Sackman

YEAR BORN: 1927

RANK:

Professor of Computer Science

DEGREES:

B.S. City College of New York, 1948 M.A. Columbia University, 1949 Ph.D. Fordhom University, 1953

EXPERIENCE:

Research Associate, Fordhom University, 1951-52
Research Associate, Psychological Research
Associates, Washington, D.C. 1952-53
Social Scientist, RAND Corporation, 1953-57
Senior Research Leader, System Development
Corporation, 1957-70
Lecturer, Director of Short Courses, UCLA,
1968-71
Senior Research Leader, Univ. of Southern
California, 1970-71

HONORARY AND PROFESSIONAL SOCIETIES:

American Psychological Association
American Association for the Advancement of
Science
Association for Computing Machinery
Phi Beta Kappa
AFIPS (American Federation of Information
Processing Societies) Chairman, Committee
on Social Implications of Computers

PROFESSIONAL PUBLICATIONS:

R. F. Sincovec

YEAR BORN: 1942

TITLE:

Assistant Professor of Computer Science

DEGREES:

B.S. Applied Mathematics, University of Colorado, 1964 M.S. Applied Mathematics, Iowa State University, 1967 Ph.D. Applied Mathematics, Iowa State University, 1968

EXPERIENCE:

University of Colorado Computing Center, Boulder, Colorado NSF Research Grant - Summer 1962.

E. I. du Pont de Nemours & Co., Chattanooga, Tennessee - Process and quality control - Summers, 1963, 1964, 1965.

Iowa State University, Ames, Iowa - Graduate teaching asst. and instructor in mathematics - School year 1964-65 and 1968-68.

Ames Laboratory, Ames, Iowa - Graduate research assistant and Junior Mathematician - 1966 - 1968.

Esso Production Research Co., Houston, Texas - Senior research mathematician - 1968 to date.

HONORARY AND PROFESSIONAL SOCIETIES:

Sigma Tau
Phi Theta Kappa
S.I.A.M.
A.C.M.

PROFESSIONAL PUBLICATIONS:

"Cubic Spline Functions." Research Report, Esso Production Research Company. 1969.

"1D-20 Incompressible Reservoir Simulation." Research Report, Esso Production Research Company. 1969.

"Devivation of Matrix Equations for Reservoir Simulation by Galerkin's Method." Research Report, Esso Production Research Company. 1969.

"Spline Function Collocation Methods" (with E. Lee). Research Report, Esso Production Research Company. 1969.

"Precision Calculation of Eigenvectors by Norm Reduction;" submitted to S.I.A.M. (with_R. J. Lambert). 1970.

"Development of a 1D-20 Incompressible Reservoir Simulation by a Total Galerkin-Spline Technique." Research Report, Esso Production Research Company. 1970.

Thomas N. Trump

YEAR BORN:

RANK:

Assistant Professor of Computer Science

DEGREES:

Rice University, 1964 (Mathematics)

M.S. Purdue University, 1966 (Computer Science)

Ph.D. Purdue University (Expected 1971)

EXPERIENCE:

Engineering Assistant, Federal Communications Commission,

Summers 1961-1963

Mathematician, National Bureau of Standards, Summers,

1964-1965

Graduate Teaching Assistant, Purdue University, 1965-

1967 (Computer Science)

Graduate Teaching Assistant and Instructor, University

of Colorado, 1967-1970 (Mathematics and Computer Science)

Assistant Professor of Computer Science, Kansas State

University, August 1970-present

PROFESSIONAL RECOGNITION AND HONORS:

NIH Biomathematics Fellowship 1965-1966

NASA Traineeship 1967-1968

HONORARY AND PROFESSIONAL SOCIETIES:

Association for Computing Machinery

National Association for the Advancement of Science

FIELDS OF RESEARCH COMPETENCE:

Systems Programming Numerical Analysis

Elizabeth A. Unger

YEAR BORN: 1939

RANK:

Assistant Professor, Computer Science Associate Director, Computing Center

DEGREES:

B.S., Michigan State University, 1961 M.S., Michigan State University, 1963

EXPERIENCE:

Laboratory Assistant, Michigan State University, 1957-59
Applied Science Student Trainee, IBM, Lansing, Michigan, 1961-62
Graduate Assistant, Michigan State University, September 1961 March 1963

User Services Supervisor and Librarian, Michigan State University, 1963-66

Instructor, Kansas State University, 1966-69

Assistant Professor, Kansas State University, September 1969 to present

Chief Programmer, Kansas State University Computing Center, 1966-67

Assistant Director, Kansas State University Computing Center, 1967-69

Associate Director, Kansas State University Computing Center, (January through July) 1969

Acting Director, Kansas State University Computing Center, 1969-70

Associate Director, Kansas State University Computing Center, 1970 -

PROFESSIONAL RECOGNITION AND HONORS:

Distinguished Alumni Award, Michigan State University, June, 1970

HONORARY AND PROFESSIONAL SOCIETIES:

American Society for Mechanical Engineers Association for Computing Machinery Tau Beta Pi Phi Kappa Phi Pi Tau Sigma Pi Mu Epsilon Mortar Board

FIELDS OF RESEARCH COMPETENCE:

Computer Programming Languages
Information Retrieval Systems for Behavorial Sciences

Roger Weinberg

YEAR BORN: 1931

TITLE:

Associate Professor of Computer Science

DEGREES:

B.S. Tulane University, 1951

M.A. University of Texas, 1952 Ph.D. University of Texas, 1954 M.S. University of Michigan, 1969 Ph.D. University of Michigan, 1970

EXPERIENCE:

Research in Bacterial Genetics, Fort Detrick, 1954-56,

(with Werner Braun).

Instructor, Assistant Professor, University of Pittsburgh,

1958-65

Consultant, Western Electric Corp., Pittsburgh, 1964-65 Special Postdoctoral Fellow with J. A. Jacquez, University

of Michigan, 1965-68

Research Associate, Logic of Computers Group, Department of Communication Sciences, University of Michigan, 1968-70.

Associate Professor of Computer Science, Kansas State University, 1970-present.

HONORARY AND PROFESSIONAL SOCIETIES:

Phi Beta Kappa
Sigma Xi
Genetics Society of America
American Society of Microbiology
AAAS
N. Y. Acad. of Science
Who's Who in Mid-west America
American Men of Science
Simulation Councils Inc.
Association for Computing Machinery

FIELDS OF RESEARCH:

Computer Simulation, Eco-Systems