PRELIMINARY PROGRAM AND REGISTRATION

Previewing the Computer Age

ACM '80 Annual Conference
Opryland Hotel
October 27-29, 1980
Nashville, Tennessee

OCTOBER 27-29
OPRYLAND HOTEL
NASHVILLE, TN
MUSIC CITY USA

SPECIAL GUESTS AND FEATURED SPEAKERS

The keynote address will be delivered by Dr. Alvin M. Weinberg, Director of the Institute for Energy Analysis, Oak Ridge Associated Universities. The opening session will also include the Annual Turing Award lecture by a distinguished recipient yet to be announced.
Other featured speakers and special guests will include:

- Vincent P. Barabba, Director of the U.S. Bureau of the Census
- Walter M. Carlson, Marketing Consultant, IBM
- J. Presper Eckert
- H.R.J. Grosch, Consultant
- Alston Householder
- Mrs. John W. Mauchly
- Alan Perlis, Eugene Higgins Professor of Computer Science, Yale University
- Saul Rosen, Director of the Computing Center, Purdue University

ACM '80 PROGRAM

There will be about 45 paper, panel and tutorial sessions with more than 150 speakers on many major areas of computing. A tentative schedule of the technical program appears elsewhere in this announcement.

Nashville — *Your Host City*

Nashville, known as Music City, U.S.A., has entertainment centered around all types of American Music. But there's much more! Often called "The Athens of the South," Nashville is a cultural center with seventeen colleges and universities, the Parthenon (a full-size reproduction of the original in Greece), and many other sights.

Come early and see Opryland, U.S.A., which will be open Saturdays, 10:00 a.m. 'til 7:00 p.m. and Sundays, 10:00 a.m. 'til 6:00 p.m. The admission price is $9.75 per person. The Opryland Park is open only on weekends in October, and the last weekend the Park is open is October 25-26.

The world-famous Grand Ole Opry has shows on Friday and Saturday nights. Ticket information can be obtained by writing: Grand Ole Opry Tickets, 2800 Opryland Drive, Nashville, Tennessee 37214. Persons desiring to attend the Grand Ole Opry must make arrangements directly with the Grand Ole Opry Ticket Office and should do this immediately since tickets are somewhat at a premium in October.

Honoring the Founders of Modern Computing

A bronze medallion measuring about three inches in diameter will be struck from photographs of John W. Mauchly and J. Presper Eckert. This medallion will serve as a momento of ACM '80, honoring the founders of the computer industry. John Mauchly (who died in January, 1980) and Presper Eckert are the inventors of the first electronic computer, ENIAC, which they followed with the BINAC and launched the computer industry with the first commercially available computer, the UNIVAC. Presper Eckert will be in attendance at the conference and will, along with others, reflect on the computer development in the past 35 years.

The medallion will be presented to all preregistrants (including students) through the courtesy of Sperry Univac at a special awards luncheon on Tuesday, October 28.

Special Services for the Handicapped

Arrangements are being made to facilitate conference attendance by those with physical handicaps. Persons requiring assistance in any manner should include such requests on the conference registration form.

General Chairman's Message

Each member of the ACM '80 Planning Committee is anxious to welcome you to Nashville. We have attempted to make innovations in several areas of the conference, and we are certain you will experience a sound technical conference set in a genuinely enjoyable atmosphere. Nashville is the business and financial hub of the mid-South and is world renowned for its music industry. The Opryland Hotel is a new hotel with outstanding accommodations for living and has excellent meeting facilities.

Among the special events being organized is a major socializer for Tuesday evening in the hotel which is open to all registrants. The Planning Committee is also bringing a live Opryland production into the hotel and is supplementing this with other entertainment centered around country and western music and the Nashville Sound.

Special efforts have been made to significantly expand and encourage the exhibit functions at the annual conference. We are expecting exhibits from all the major publishing houses as well as hardware and software vendors across the entire spectrum of the computer industry.

The Local Arrangements Committee will be setting aside certain tours and the like for those groups which are interested. There are many interesting sights in or near Nashville including an exact replica of the Greek Parthenon in Centennial Park, the Hermitage — home of Andrew Jackson, old southern mansions and several battlefields important in the War Between the States. There are, of course, many shows and other music-related productions which will be available including Music Row, which is the second largest record producing industry in the world.

We hope you will give careful attention to the many articles included in this preliminary program and will join us in Nashville in October. You should complete and mail the appropriate tear-off cards today so that we will have ample time to make arrangements for your visit to Nashville.

Our ACM '80 Committee is looking forward to your visit with enthusiasm.

Charles L. Bradshaw
General Chairman

Message from the Program Chairman

The technical program will be keynoted by Dr. Alvin Weinberg, who was for many years the Director of the Oak Ridge National Laboratories, and is now Director of the Institute for Energy Analysis with Oak Ridge Associated Universities. The title of Dr. Weinberg's address will be "On the Interaction Between Information and Energy Systems." There will also be an invited address on the growing applications of computers in census work by Mr. Vincent P. Barabba, Director of the U.S. Bureau of the Census.

Several persons who have been prominent throughout the development of the modern computer age will be conference participants. These include J. Presper Eckert, Alston Householder, Alan Perlis, Herb Grosch, Walter Carlson and Saul Rosen.

Our main theme, Previewing the Computer Age, will form the setting for most of the state-of-the-art technical papers and complementing panel discussions and tutorials. We currently estimate that there will be about 45 paper, panel and tutorial sessions held at the conference. Several of the active special interest groups of the ACM will sponsor some of the major programs at the conference.

Gordon R. Sherman
Program Chairman

SUNDAY, OCTOBER 26

3:00 — 10:00

REGISTRATION

WINE AND CHEESE RECEPTION

MONDAY, OCTOBER 27

9:00 - 11:30

OPENING SESSION

Welcome
State of ACM:
Keynote Address: Dr. Alvin M. Weinberg, Director of the Institute for Energy Analysis, Oak Ridge Associated Universities
"On the Interaction Between Information and Energy Systems"

ACM Awards
ACM Turing Lecture

1:00 - 3:00

THE MANAGEMENT OF INFORMATION IN POLITICAL CAMPAIGNS (SIGCAS)

Douglas Rochester
Session Chairman

Ms. Marguerite Zientara, Commentator
COMPUTERWORLD

Mr. Paul Lutzker, Commentator
V.P. for Politics & Public Affairs
Hamilton and Staff

Dr. Walter Maner
Old Dominion University

COMPUTER COMMUNICATIONS EDUCATION (SIGCOMM)

Dr. David C. Wood, Session Leader
The MITRE Corporation
McLean, VA

Gerald C. Engel, Panelist
Christopher Newport College

Malcolm G. Lane
West Virginia University

JOINT SESSION (SIGOPS/SIGMETRICS)

Carl Landwehr, Session Chairman
Naval Research Lab., Washington, DC

Aaron Tenenbaum
Brooklyn College
"Memory Utilization Efficiency Under a Class of First-Fit Algorithms"

Ming T. Liu, Sandra A. Mamrak, & Jayashree Ramanathan
Ohio State University
"The Distributed Double-Loop Computer Network (DDLCN)"

J. Wittenben and D. Kafura
Iowa State University
"Measuring Micro Model Reference Strings with a Simple Sampling Method"

Charles P. Smith
IBM - San Jose, CA
"A Software Science Analysis of Programming Size"

IMPROVING DOCUMENTATION PRACTICES (SIGBDP)

Beldon Menkus, Session Organizer
Middleville, NJ

ANS MUMPS — ECONOMICAL SOFTWARE FOR THE COMPUTER AGE (SIGBIO)

Henry G. Heffernan, Session Leader
Chairman, MUMPS Users' Group
Washington, DC

David D. Sherertz
University of California — San Francisco, CA
"The Evolution of a Language Standard: ANS MUMPS in the 1980's"

Hollis V. Arban
Computer Resources, Inc. — Ft. Lauderdale, FL
"ANS MUMPS in a Multi-Lingual Operating System"

Robert E. Lushene
VA Outpatient Clinic — St. Petersburg, FL
"Learning and Using ANS MUMPS — A Programmer's Perspective"

Richard E. Zapolin & Richard A. Jarrett
ECA Corporation — Cambridge, MA
"BASIC and MUMPS — A Comparison in the Commercial Marketplace"

3:00 - 5:00

HIGH SCHOOL COMPUTER SCIENCE CURRICULA (SIGCSE)

Dr. Michael Moshell, Session Chairman
University of Tennessee, Knoxville, Computer Science Dept.

Dr. Ludwig Braun, Panelist
Computer Science Department, SUNY/Stonybrook

Dr. Beverly Hunter, Panelist
Human Resources Research Organization
Alexandria, VA

Dr. Ray Lamb, Panelist
Northside High School, Atlanta, GA

A SURVEY IN THE SELECTION AND CAPABILITIES OF PERSONAL COMPUTERS FOR STUDENT USE (TUTORIAL FOR STUDENTS)

Cliff Fiedler
Automated Computer Software Systems

DATA ABSTRACTION IN PROGRAMMING LANGUAGES (SIGPLAN)

Billy G. Claybrook, Session Chairman
Sperry Research Center
"Module: An Encapsulation Mechanism for Specifying and Implementing Abstract Data Types"

Edward S. Lowery, Digital Equipment Corp.
"Accurate Description of System Structure — A New Standard for Language Quality"

Joannes J. Martin, Virginia Polytechnic Institute and State University
"FAD, A Functional Programming System that Supports Abstract Data Types"

J. Craig Cleaveland, The University of Connecticut
"Programming Languages as Abstract Data Types"

COMPUTER PERSONNEL RECRUITMENT (SIGBDP/SIGCPR)

L. Roy Cottrell, Session Chairman
Missouri Pacific Railroad, St. Louis, MO
"Recruiting Computer Personnel at MOPAC, A Case History"

Patrick Wash, Panelist
Bureau of Labor Statistics — U.S. Dept. of Labor
"Employment Trends in Computer Occupations"

Nambury S. Raju, Panelist
Illinois Institute of Technology
"Person — Job Matching in the Eighties"

COMPUTERS IN MEDICAL INSTRUMENTATION (SIGBIO)

Dr. Robert S. Ledley, Session Chairman
National Biomedical Research Foundation
Washington, DC

M. Buas, R.S. Ledley, L.S. Rotolo
Medical Computing & Biophysics Division
Georgetown University Medical Center
"Computerized Electro Neuro-Ophthalmograph (CENOG)"

P. Fisher
Medical Computing & Biophysics Division
Georgetown University Medical Center
"Microcomputers in Medical Diagnosis"

R.D. Spital, Ph.D.
Pfizer Medical Systems
"A Simulation Study of Partial Volume Artifacts in CT"

C.D. Stockham, Ph.D.
Pfizer Medical Systems
"A Simulation Study of Time Dependent Phenomena in CT"

TECHNOLOGIES RELEVANT TO OFFICE AUTOMATION (SIGOA)

Michael Barnett, Session Chairman
Princeton, NJ

PANEL SESSION — TENTATIVE TITLE: LIABILITY FOR SOFTWARE AND OTHER RELATED ISSUES (SIGUCC)

7:00 - 11:00

RECEPTION

PASCAL USERS' GROUP (SIGPLAN)

John C. Knight
Programming Techniques Branch
NASA, Langley Research Center, Hampton, VA

INTRO TO PASCAL, TUTORIAL

Dr. Charles Hughes
The University of Tennessee, Knoxville, Computer Science Department

Dr. Mike Moshell
The University of Tennessee, Knoxville, Computer Science Department

TUESDAY, OCTOBER 28

8:30 - 10:00

GENERAL ASSEMBLY - Invited Speakers

Moderator: Alston Householder
Alan Perlis, Higgins Professor of Computer Science, Yale University
Saul Rosen, Director of the Computing Center, Purdue University

10:30 - 12:00

ACADEMIC SUPPORT FOR COMPUTER SCIENCE AT SMALL COLLEGES (SIGCSE)

Francis Edwards, II, Session Chairman
Glenville State College, Glenville,WV (Director, Computer Center)

Gail Pope, Panelist
Fairmont State College, Fairmont, WV (Div. of Commerce)

Carol Edwards, Panelist
Glenville State College (Computer Science Dept.)
Glenville, WV

Jim Pokorny, Panelist
Salem College, Salem, WV (Data Center Director)

Robert Anderson, Panelist
West Virginia Wesleyan College (Math Dept.)
Buckhannon, WV

IMPROVING WHITE COLLAR PRODUCTIVITY (SIGSMALL)

Fred Maryanski, Session Chairman
Digital Equipment Corp. — Maynard, MA

S. Ron Oliver, Panelist
Perkin-Elmer Data Systems

Ted Harris, Panelist (Tentative)
Environmental Protection Agency

Richard Wiersba, Panelist
Bentley College

Arnold Miller, Panelist
Digital Equipment Corp.

TUTORIAL ON AUTOMATIC INFORMATION RETRIEVAL (SIGIR)

Gerard Salton, Session Chairman
Cornell University - "Automatic Indexing Techniques"

Dr. Roger C. Schank
Yale University
"Artificial Intelligence and Information Retrieval"

Dr. Roger K. Summit
Lockheed Information Systems, Palo Alto, CA
"On-Line Information Retrieval"

COMPUTER PERFORMANCE EVALUATION: BROWNIAN MOTION? (SIGMETRICS)

Wayne D. Bennett, Session Chairman
National Bureau of Standards

(Three panelists to be determined.)

GEOGRAPHIC DATA BASE ACTIVITIES IN THE COMMERCIAL AND CONSULTING SECTORS

Dr. James R. Carter, Session Leader
Geography Department, University of Tennessee, Knoxville, TN

Arsev Araslan, Henningson, Durham & Richardson
"Computer Application in the Assessment of Environmental Impact on Large Geographical Regions."

P.E. Mantey & E.D. Carlson, IBM
"Integrated Geographic Data Bases: "The GADS Experience"

Morton Meyer, R.L. Polk & Company
"Geographic Base Files and the World of R.L. Polk & Company"

P.E. Johnson & Robert Honea, ORNL, Oak Ridge, TN
"The Use of Geographic Data Base at ORNL"

R.T. Aangeebrug, Chicago Aerial Survey

James Howell, M & S Computing

12:00 - 2:00

SPECIAL AWARDS LUNCHEON

Invited Speaker: Vincent P. Barabba, Director, Bureau of the Census
U.S. Dept. of Commerce

2:30 - 4:00

COMPUTER EDUCATION TECHNOLOGY (SIGCSE)

N. Ram, Session Chairman
Texas Christian University, Fort Worth, TX

Joseph I. Lipson, Panelist
National Science Foundation (Assoc. Director)

Robert Gillespie, Panelist
University of Washington

Bowie Shield, Panelist
Xerox Research Center, Palo Alto, CA

Mark L. Miller, Panelist
Texas Instruments - Artificial Intelligence Group, Dallas, TX

ADA — CURRENT ISSUES AND FUTURE DIRECTIONS (SIGPLAN)

Hal Hart, Session Chairman
TRW - Redondo Beach, CA

COMPUTER LITERACY OBJECTIVES FOR JUNIOR HIGH SCHOOL STUDENTS (SIGCUE)

Combination business and technical session.

MANAGING GEOGRAPHIC DATA BASES (SIGBDP)

Sam Carter, Session Organizer
IBM — DPD
Knoxville, TN

COMPUTER — BASED EDUCATION IN PRODUCTION

Jesse Poore
Florida State University — Tallahassee, FL

(Speakers to be determined)

THE ROLE OF DOCUMENTATION IN THE INFORMATION AGE (SIGDOC)

Diana Patterson, Session Chairperson, President - Elect SIGDOC

(Final selection of speakers to be determined)

ADVANCED PASCAL TUTORIAL

Dr. Charles Hughes
The University of Tennessee, Knoxville, Computer Science Department

Dr. Mike Moshell
University of Tennessee, Knoxville, Computer Science Department

4:15 — 6:00

MORE ON STRUCTURED DESIGN

Murray R. Berkowitz, Session Leader
Bankers Trust Company & Adjunct Associate Professor of Information Systems, Pace University
New York, NY
"Introduction and Overview"

John F. Schrage
Southern Illinois University — Edwardsville, IL
"Educator's View of Structured Concepts"

Kenneth Modesitt
Texas Instruments
"Software Engineering for Middle Managers"

Kenneth Orr
Langston, Kitch & Associates
"Structured Programming in the 1980's"

Murray R. Berkowitz
Bankers Trust Company & Adjunct Associate Professor of Information Systems
Pace University, New York, NY
"Structured Design & Structured Data Bases: A Comparison"

COMPUTER EDUCATION FOR PRE-COLLEGE TEACHERS (SIGCSE)

Spotswood D. Stoddard, Session Chairman
Purdue University at Fort Wayne

Michael Mocciola, Panelist
Pace University

Judy Hector, Panelist
Walters State Community College

Doris Lidtke, Panelist
Towson State University

(One other panelist and alternates to be selected)

TEXTUAL MATERIALS FOR COURSES IN COMPUTERS AND SOCIETY (SIGCAS)

Dr. William Atchison, Session Leader
University of Maryland

Mr. Stephen Cline, Panelist
Prentice Hall, Inc.

Dr. J. Mack Adams, Panelist
University of New Mexico

Mr. Stephen Guty, Panelist
Academic Press

Dr. Gerald Engel, Panelist
Christopher Newport College

Dr. Robert Kling, Panelist
University of California, Irvine

PANEL: WHAT'S NEW IN AUTOMATIC INFORMATION RETRIEVAL (SIGIR)

Gerard Salton, Session Chairman
Cornell University

Dr. Roger K. Summit, Panelist
Lockheed Information Systems,
Palo Alto, CA

Dr. Howard L. Resnikoff, Panelist
Director, Division of Information
Science & Technology
National Science Foundation

Dr. Roger C. Schank, Panelist
Computer Science
Yale University

Professor Martha Williams, Panelist
Coordinated Science Laboratory
University of Illinois

TUTORIAL ON MULTIPROCESSING

John Tartar
University of Alberta, Canada

TUTORIAL: GRAPHICS

Gary Laroff & Mike Taylor
Tektronix — Beaverton, OR

6:30 — 12:00

MAJOR SOCIALIZER — Hotel Ballroom

Tutorial — History of Country Music

ADA — FORUM WITH OPEN DISCUSSION OF THE LANGUAGE (SIGPLAN)

Hal Hart, Session Chairman
TRW - Redondo Beach, CA

CAREER OPPORTUNITIES

Elias R. Callahan, Jr., Session Chairman
Professor of Information Systems,
Middle Tennessee State University
Murfreesboro, Tennessee

Walter Evans, Panelist
Managing Partner,
Arthur Andersen, Nashville

Phil Trella, Panelist
Branch Manager, NCR, Nashville

Roger Lancina, Panelist
Assistant Vice President,
Service Merchandise Corp., Nashville

Jim Jones, Panelist
Branch Manager, Burroughs, Nashville

John Randall, Panelist
Account Executive,
Honeywell, Nashville (Tentative)

WEDNESDAY, OCTOBER 29

8:15 — 11:15

PANEL SESSION — COMPUTER SCIENCE EDUCATION FOR INDUSTRY SOFTWARE PERSONNEL (SIGCSE)

Thomas M. Kraly, Session Chairman
IBM, FSD, Bethesda, MD

PROGRAMMING LANGUAGES (SIGPLAN)

John R. White, Session Chairman
University of Connecticut

Anand R. Tripathi and William D. Young
Institute for Computing Science & Computer Applications
The University of Texas at Austin
"Verification and ADA"

K.C. Tai
North Carolina State University
"Locally Minimum Distance Correction of Syntax Errors in Programming Languages"

Sharilyn A. Thoreson & Arthur E. Oldehoeft
Iowa State University
"Instruction Reference Patterns in Data Flow Programs"

Alfs T. Berztis
University of Pittsburgh
"Data Abstractio. Controlled Iteration & Communicating Processes"

THE COMPUTERIZED DESTRUCTION OF WESTERN CIVILIZATION (SIGCAS)

Ronald A. May, Session Leader
Little Rock, Arkansas

Earl C. Joseph, Commentator
Sperry Univac

Dr.Robert Parslow
Brunel University, England

FINDING THE BIG PAYOFF AREAS (BIAIT SYMPOSIUM)(SIGBDP)

First Half:

Walter M. Carlson, Session Chairman
IBM - San Jose, CA
Summary and commentary on status of BIAIT

D.V. Kerner, IBM
1980 experience with use of Business Information Characterization System (BICS) for defining and expediting application development

D.C. Snyder, IBM - Canada
Development and use of Business Analyzer as an automated marketing planning tool in Canada

B.K. Mahanti, IBM - Europe
Use of BIAIT– derived tools to perform organization analysis studies and to establish application priorities

J. Zackman, IBM
Comparison of Business System Planning (BSP) methodology with BICS and Business Analyzer approaches

COMPUTING TECHNIQUES FOR RESEARCH DATA MANAGEMENT

R.H. Strand, Session Leader
Environmental Sciences Division, ORNI.
Oak Ridge, TN

Ronald W. Helms, Dept. of Biostatistics
University of North Carolina, Chapel Hill, NC
"A Distributed Flat File Strategy for Managing Research Data"

T. Birchfield, R.H. Strand, M.P. Farrell, W. Gudmundson, and M. Vansuch
Computer Sciences Division, ORNL, Oak Ridge, TN
"A Computer-Based Coding Scheme for Coal Conversion Research Data"

M. Vansuch, R.H. Strand, G.T. Yeh, M.P. Farrell, W. Gudmundson and T. Birchfield
Computer Sciences Division, ORNL, Oak Ridge, TN
"Computer-Aided Cinematography Techniques for Model Validation"

W. Gudmundson, R.H. Strand, M.P. Farrell, T. Birchfield, & M. Vansuch
Computer Sciences Division, ORNL, Oak Ridge, TN
"Processing PDP-11 Files Into IBM File Structures"

STUDENT PAPER PRESENTATIONS

K. Anthony Grajski, Pratt Institute, Brooklyn, NY
"Implementing the Trapdoor Knapsack Encryption Algorithm"

James A.M. Muncy, University of Virginia, Charlottesville, VA
"Computers for the Layman"

David P. Teagarden, Middle Tennessee State University, Murfreesboro, TN
"The Development and Design of a Computer System for a Small Loan Company Using Overlays, Index Sequential Files, and Remote Real-Time Linkages"

(others to be announced)

11:15 — 1:30

CONFERENCE LUNCHEON AND CHESS AWARDS

Invited Speaker: H. R. J. Grosch — Programmer Improvement — University vs. Practitioner Sources

2:00 — 6:00

FINDING THE BIG PAYOFF AREAS (BIAIT SYMPOSIUM)(SIGBDP)

Second Half:

Gordon Davis, University of Minnesota
"An Objective Analysis of the Theoretical Underpinnings of the BIAIT Techniques and Comparison with Other Approaches"

Donald Burnstine, Consultant
"Continuing Development of Extensions and Enhancements to BIAIT"

Arthur Benjamin, Benjamin Associates
"Perspectives for the Uses of BIAIT in the Data Processing Industry"

Speaker to be Determined
"1980 Experience with Use of BIAIT-derived Techniques for Application Development and/or for Organization Analysis"

GUIDELINES FOR AN EFFECTIVE INFORMATION SYSTEM — DOCUMENTATION (SIGDOC)

Frank Melanson, Moderator
M.I.T. IPS, Cambridge, MA

Jose' Cortez, Panelist
Ahumada Group Limited, Waukesha, WI

Glenna James, Panelist
Kellwood, St. Louis, MO

Stephanie Rosenbaum, Panelist
Technical Publications and Graphic Services, Ann Arbor, MI

NUMERICAL COMPUTATIONS ON SMALL MACHINES (SIGNUM)

Lloyd Fosdick, Moderator
University of Colorado

G.W. Stewart, University of Maryland
"Matrix Computations on Hand-Held Calculators"

John C. Nash, Hickling-Smith, Inc., Ottowa, Canada
"Function Minimization on Special Computers"

David Kahaner, National Bureau of Standards - Washington, D.C.
"BASIC Programs for Adaptive Quadrature"

Edward L. Battiste, ELBA, Inc. — Cary, North Carolina
"Examination of Scientific Computation on Micros: LINPACK, Elementary Functions and Random Number Generators"

REQUIREMENTS ENGINEERING IN THE 80'S

Alan Davis, Session Leader
GTE Laboratories - Waltham, MA

Kenneth Orr
Langston, Kitch & Assoc. — Topeka, KS
"Structured Requirements Definition in the 80's"

Gregory Smith, Sharon Stephens, Leonard Trip and Wayne Warren
Boeing Computer Services — Seattle, WA
"Incorporating Usability into Requirements Engineering Tools"

Mack Alford
TRW Defense & Space Systems Group - Huntsville, AL
"Software Requirements in the 80's, From Alchemy to Science"

Daniel Teichroew and Hasan Sayani
University of Michigan
"Computer - Aided Requirements Engineering"

COMMUNITY AND JUNIOR COLLEGE CURRICULUM RECOMMENDATIONS: A REPORT ON THE PUBLICATIONS OF THE ACM SUBCOMMITTEE, CURRICULUM COMMITTEE ON COMPUTER EDUCATION

Joyce Currie Little, Session Leader
Chair of the ACM Subcommittee
Community College of Baltimore, Maryland

John Sweeney, Panelist
National Technical Institute for the Deaf
Rochester, NY

Marjorie Leeson, Panelist
Delta College, Michigan

Iva Helen Lee, Panelist
McLennan Community College, Waco, TX

PARTIAL LIST OF OTHER TECHNICAL PAPERS

Times of Presentations to be Scheduled

B.D. Chaudhary, H.V. Sahasrabuddhe,
Motilal Nehru Regional Engineering College, Allahabad, India
"Meaningfulness as a Factor of Program Complexity"

John Clement, Jack Lochhead, & Elliot Soloway
University of Massachusetts, Amherst, MA
"Positive Effects of Computer Programming on Students' Understanding of Algebra"

George Colliat, Honeywell Information Systems, Inc., Phoenix AZ
"GCOS 8: Distributed Data Base Access"

Ola-Olu A. Daini, Peter Scheuermann
Northwestern University, Evanston, IL
"A Data Definition and Mapping Language for Numerical Data Bases"

Patrick C. Fischer, Vanderbilt University, Nashville, TN
Don-Min Tsou, Penn State University, University Park, PA
"Decomposition of a Relation Scheme Into Boyce-Codd Normal Form"

Harvey Freeman, John R. Jordan
Sperry Univac, St. Paul, MN
"Another Approach to the Data Base Computer"

Ralph Grishman
Courant Institute of Mathematical Sciences, New York University, New York, NY
"The PUMA Project: Computer Design in Automation In the University"

Mehdi Jazayeri, TRW VIDAR, Mountain View, CA
Diane Pozefsky, IBM, Research Triangle Park, NC
"A Space Improvement in the Alternating Semantic Evaluator"

Thomas P. Koehler, Atlanta, GA
"TECGRAPH — Technical Computer Graphics: A Program Package for Computer Aided Design"

Fred Maryanski, Digital Equipment Corporation, Maynard, MA
Puree Charoenpong, Intel Corporation, Austin, TX
"An Architecture for Fault Tolerance in Database Systems"

E.P. Miles, Jr., Florida State University, Tallahassee, FL
"Creative Art and Custom Interior Design in the 80's"

C. Mohan, University of Texas, Austin, TX
"Distributed Data Base Management: Some Thoughts and Analyses"

Kevin C. O'Kane, University of Tennessee, Knoxville, TN
Richard J. Hildebrandt, Polyclinic Medical Center, Harrisburg, PA
"Generalized Protocol Driven Problem Oriented Clinical Data Management and Monitoring"

N. Ram, Texas Christian University, Fort Worth, TX
"Effectiveness of Paradigmatic Approach in Teaching Programming — An Experimental Investigation"

Eugene M. Strand, University of Alabama, Birmingham, AL
"Documentation for In-House Sharing of Software"

Paul M. Wilson, Association of Bay Area Governments, Berkeley, CA
"The Application of Computer Graphics to Environmental Planning"

The Eleventh ACM North American Computer Chess Championship

The 1980 Annual Meeting of the ACM will be the site of the Eleventh ACM North American Chess Championship. The four round Swiss-style tournament with participants restricted to computers is scheduled to take place on October 26-28 at the Opryland Hotel, Nashville, Tennessee. Two rounds will be played on Sunday, October 26 (1:00 p.m. and 7:30 p.m.), one on Monday, October 27 (7:30 p.m.), and the last round on Tuesday, October 28 (7:30 p.m.). All of the best chess programs in North America are expected to participate and a most exciting tournament is anticipated.

The Tournament Organizing Committee consists of Robert Hyatt of the University of Southern Mississippi, Monroe Newborn of McGill University, and Ben Mittman of Northwestern University. David Levy, International Chess Master, will serve as Tournament Director. Individuals interested in participating should write to Prof. M.M. Newborn, School of Computer Science, McGill University, Montreal, Quebec H3A 2K6, Canada. A maximum of twelve teams will participate. The deadline for entries is September 8, 1980.

OCTOBER 27-29, 1980
OPRYLAND HOTEL

☐ MON
☐ TUE
☐ WED

ADVANCE REGISTRATION FORM

NO LATER THAN OCTOBER 10

Mail To: ACM 80
Box 1980 Station B
Nashville, TN 37235

	3 DAY	1 DAY	
ACM MEMBER	$65	$30	$ ____
NON MEMBER	85 *	40	$ ____
STUDENT	15	7	$ ____
LUNCHEON - WEDNESDAY	12	12	$ ____
Extra Proceedings at Conference			
Members at $15 Number____			$ ____
Nonmembers at $20 Number____			$ ____
TOTAL REMITTANCE			$ ____

NAME _____

TITLE _____

ORGANIZATION _____

STREET ADDRESS _____

CITY _____

STATE ____ ZIP ____ Telephone for Daytime

ACM Member No. ____
☐ Please check if you need special services due to disability.
☐ Speaker ☐ Conference Chairperson
☐ ACM Officer/Staff

Fees for 3-day registrations after October 10 will be:

ACM Member	$ 80.00
Non-Member	$100.00
Student	$ 15.00

Payment in U.S. funds must accompany registration.
No purchase orders accepted.
Registration cancellation accepted until October 24, 1980.
*Non-member may apply $20.00 of this fee toward ACM membership dues at the conference site.

Deadline Date for Reservations October 5, 1980.

OPRYLAND HOTEL
2800 Opryland Drive
Nashville, TN 37214

Name of Convention ACM - 80 Convention Dates October 27-29, 1980

Guest Name _____ All Reservations require $40 Deposit or American Express Number

Address _____

State _____ Zip _____

Accommodations Desired: Single $48 ____ Double $48 ____ Rooms available for occupancy after 2:00 p.m.

Triple $55 ____ Quad $62 ____

Arrival Date _____ Time _____ Number in Party ____

Departure Date _____ Check out time 12 Noon.

Special Requests _____

Refunds will be made only when cancellations are received 72 hours prior to arrival date.

OCTOBER 27-29
OPRYLAND HOTEL
NASHVILLE, TN
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OPRYLAND HOTEL
2800 Opryland Drive
Nashville, TN 37214

Student Activities

Special plans are being made to accommodate student participation in ACM '80. We are expecting a large number of student members, and special programs and activities have been planned that will be of significant interest to all students. In addition to the regular sessions, a session will be scheduled for student paper presentations (student papers will be accepted until August 15, 1980). Also, a session on career opportunities in the "real world" will be conducted using top management panelists from NCR, Burroughs, Arthur Andersen, Honeywell, Service Merchandise, and others. Tutorials will be presented covering the broad spectrum of Personal Computing (a "what's available and how to buy" session) and PASCAL (both a beginner's and advanced session using a hands-on approach). Student-oriented social activities include, among other things, tours of local computer installations and a tour of the world-famous Jack Daniels Distillery in Lynchburg (cost $5.00 to cover bus transportation).

Student housing has been provided as economically as possible with a block of rooms reserved at the Nashville Motel 6. To qualify for this block of rooms, *you must mail your check for the first night's guarantee* and state "ACM '80" on your request. The block of rooms will be released to their regular customers on October 15, 1980. Also indicate your date of arrival and the nights you expect to stay there. Their policy requires cash prepayment of room rent. TV is an additional 75¢ per day, if desired. A shuttlebus service will be provided. Rates, including 9% tax, are as follows:

1 person	$13.03 per night
2 persons	$16.30 per night
3-4 persons	$19.57 per night

No more than four (4) persons will be allowed per room. The address is:

Nashville Motel 6
Attn: Mrs. Nell Willard
95 Wallace Road
Nashville, Tennessee 37211
Phone: (615) 834-1231

Exhibits

ACM '80 marks the return of a full commercial exposition at the annual conference. Exhibits will range from publishers to large system suppliers. Special areas such as Office Automation, System and Application Software, Consulting Firms, Telecommunications and Peripheral Equipment will be represented. Over one hundred vendors are expected in the 30,000 square feet Ryman Exhibition Hall. The exhibition will open at 1:00 p.m. on Monday, October 27, and close at 3:00 p.m. on Wednesday, October 29. Door prizes, including a computer, will be given away.

Attendees at ACM '80 will also be able to tour the SME (Society of Manufacturing Engineers) Exposition in the Nashville Municipal Auditorium.

Partial List

Academic Press
Accountant's Computer Services
ACM '81
Addison-Wesley Publishing Co.
Allyn & Bacon
Amdahl
Anderson-Jacobson
Automated Computer Software Ser.
Basic Four
BMDP
Burroughs
CalComp
Charles Merrill
Co-Lins-Co., Inc.
Computer Science Corporation
Computer Science Press
Control Data Corporation
Data General
Datapoint
Dennison Kybe
Digital Equipment Corp.
Elsevier-North Holland, Inc.
FM Associates
Four Phase
Gentry Associates
Graham Magnetic, Inc.
Hayden Books
Hazeltine
Hewlett Packard
Holt, Rinehart & Winston
Honeywell Information Systems
IBM
INMAC
Intelligence Systems Corp.
James L. Highsmith & Co.
John Wiley
Kodak
M. Bryce & Associates
McGraw-Hill Book Co.
Memorex
Moore Business Forms
National Advanced Systems
National Computer Systems
NCR
NLT Corporation
Northern Telecom
Pansophic
Perkin-Elmer
Prentice Hall
Prime
Rental Electronics
Radio Shack
Rapid Data, Inc.
SAS Institute, Inc.
S & H Computer Systems
Science Research
South Central Bell
Springer Verlag
SPSS
Storage Technology Corp.
Technical Analysis Corp.
Tektronix
Teleprinter Services Co.
Telex
Terak
Univac
W.A. Brown
Winthrop Publishers