MICROPROCESSOR APPLICATIONS IN THE 80'S

MARCH 12-14, 1980
Arizona State University
Tempe, Arizona

Sponsored by: IEEE Computer Society
IEEE PHOENIX SECTION
IEEE TUCSON SECTION
ARIZONA STATE UNIVERSITY

*Introduction to the use of Microprocessors
*New Product Announcements
*Applications of Microprocessors
*Information on Development Systems
*Microprocessor Programming Languages
*Managing Development Projects
*Tour of Phoenix-Area Computer Facility

TUTORIAL
Introduction to the Use of Microprocessors — A One-day Short Course
Wednesday, March 12th — Dr. L. P. Huelsman, University of Arizona

REGISTRATION

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<th>Members</th>
<th>Non-Members</th>
<th>Students</th>
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<td>CONFERENCE (Includes two lunches and coffee)</td>
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<td>On or before February 15th</td>
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Mail Registration To:
ARIZONA TECHNICAL SYMPOSIUM
P.O. BOX 39486
Phoenix, AZ. 85069
THURSDAY, MARCH 13

8:00 AM - REGISTRATION

9:00 AM - KEYNOTE

"WHAT'S PAST IS PROLOGUE"
Dr. Bill Welch, Director,
Center for Research in Engineering and Applied Science
Arizona State University

"FUTURE SHOCK"
Alan P. Haid,
President, Micro-Age

10:00 - AM COFFEE

10:30 - NEW PRODUCTS
Session Chairman, Sherril Harmon, Motorola
"Advanced Concepts in Microprocessor Distributed Processor Systems"
Bob Koehler, Intel

"An up-to-date 8-bit Microcomputer - The Motorola 6805"
Bill Huston, Motorola

"Mostek's Byte-Wide Memory Products"
Michael Bolan, Mostek

12:00 - LUNCH

1:15 AM - PARALLEL SESSIONS

Microcomputer Development Systems
Session Chairman, Marshall Kidd, General Electric
"Development Systems - Past, Present & Future"
Pauline Alker, Intel

"6800 Support Systems"
F. Taylor Scanlon, Motorola

"Large Disks and Multistation Networks, An Attack at the Discipline Problem"
Sam Lee, Hewlett-Packard

"Making the Most of Design Options using Microprocessor Development Systems"
Bill Broderick, Tektronix

Microcomputer Application in Power Engineering
Session Chairman, Don Spirk, Salt River Project
"Substation Control and Protection System"
Bob Masterson, Westinghouse Industry Systems

"Distributed Power Plant Management Concepts"
T. O. Moore, Honeywell Process Management Systems

"Microcomputer Applications in Nuclear Power Plants"
Jim Rowland, Arizona Public Service Company

"Microprocessor-based Mobile Radio Teleprinting Systems"
Harley Cook, Salt River Project

3:45 PM - PARALLEL SESSIONS

Testing
Session Chairman, Dr. Earl Robbins, Arizona State University
"Microcomputer Reliability Studies"
Brian L. Hickey, Continental Testing Laboratories

"Microcomputer-based Interactive Test Set"
Steve Leeland, Sperry Flight Systems

"D-A Converter Testing; An Alternative to the Large System Approach"
Richard A. Schomburg, Electro Scientific Industries

Application in Communication Systems
Session Chairman, Ben Huey, Arizona State University
"Implementation of a MultiMicroprocessor Software System"
Bruce A. Fairman, ITT-Courier Terminal Systems

"Application of Multi-Microprocessors in a Stored Program Telephone Switching System"
Don Mnichowicz, GTE Automated Electric Laboratories

FRIDAY, MARCH 14

9:00 AM - SOFTWARE FOR MICROCOMPUTERS

Software for Microcomputers
Session Chairman, Dr. Gerald R. Peterson, University of Arizona
"The FORTH Programming System"
W. Richard Stevens, Kitt Peak National Observatory

"PASCAL and Its Suitability to Microprocessor Software Development"
Dennis Pfleger, Motorola

"Block Diagram Languages and MICRODARE"
Dr. Granino A. Korn, University of Arizona

"SYMBUG - Symbolic Debugging for the M68000"
Robert Duyck, Motorola

10:30 AM - COFFEE

10:45 AM - PANEL DISCUSSION:
MANAGING MICROCOMPUTER PROJECTS

Session Chairman, Bill Broderick, Tektronix

Panelists:
1. Jerry Weiner, Bell Northern
2. Sam Lee, Hewlett-Packard
3. Peter Ashkin, Pico Design

12:30 PM - LUNCH

2:30 PM - TOUR OF LOCAL FACILITIES

- Motorola Semiconductor
- Courier Terminal Systems
- Sperry Avionics
- Honeywell Process Management Systems
- Salt River Project Power Dispatch Center
- Ahwatukee Computerized House