**Short Courses**

Leonard Kleinrock on Queueing Systems, February 16-18; Howard Frank on Surviving the Data Communications Explosion, February 23-25; Norman Abramson with Eugene Cacciamani on Satellite Data Communications, March 2-4; Peter Denning on Understanding Performance Evaluation, March 7-9; and Leonard Kleinrock on Computer Networks, March 22-25. All in Washington, D.C.; fee, $485 per seminar.

Technology Transfer, Inc., P. O. Box 49765, Los Angeles, CA 90049; (213) 476-1331

Systems Analysis Workshop, January 24-28, Washington, D.C.; February 14-18, New York City; March 7-11, Atlanta; April 18-22, Chicago; May 16-20, Philadelphia; and June 13-17, Kansas City.

Brandon Systems Institute, Inc., 4720 Montgomery Lane, Bethesda, MD 20014; (301) 986-8611


Operational Data Security Corp., 6 Swarthmore Lane, Dix Hills, Long Island, NY 11748; (516) 894-1616

**Life Cycle Costs and Logistics Alternatives**, February 8-9, Newport Beach, California. Fees: non-members, $225; AIIA and SOLE members, $200; federal/military and university personnel, $175.

American Institute of Aeronautics & Astronautics, Seminars, P. O. Box 1710, 444 W. Ocean Blvd., Suite 1403, Long Beach, CA 90802; (213) 437-7405

**Life Cycle Management for ADP Systems**, February 7-9, Washington, D.C. Fees: AIIIE member, $265; non-member, $295; teams (third and succeeding registrants), $195.

American Institute of Industrial Engineers, P. O. Box 3727, Santa Monica, CA; (213) 450-0000

8080A Microprocessor Hardware and Software Design, February 7-9 and March 7-9.

NEC Microcomputers, Inc., 5 Militia Drive, Lexington, MA 02173; (617) 862-6410

Microprocessor Short Course, February 14-16, Palo Alto, California; February 22-24, Philadelphia, Pennsylvania; March 1-3, Washington, D.C.; March 8-10, Boston, Massachusetts; March 15-17, Chicago, Illinois; and March 22-24, Huntsville, Alabama. Fee: $495 (includes take-home microcomputer, student configuration of WINCE control module used during course).

WINTER Corp., 902 N. 9th St., Lafayette, IN 47904


University of Wisconsin-Extension, Civic Center Campus, 929 North Sixth St., Milwaukee, WI 53203; (414) 224-4181


Registrar, N.Y. Management Center, P.O. Box 2409, Grand Central Station, New York, NY 10017; (212) 953-7266

Software/System Development: Tools and Techniques for Microcomputers, January 13-14, Cincinnati, Ohio; February 10-11, Newark, New Jersey; $395. Microprocessors in Manufacturing and Industrial Control, two-day course, and Software Development Tools and Techniques for Microcomputers, two-day course immediately following, will be held January 18-21 in Toronto, Canada, and February 8-11, Newark, New Jersey; two-day course, $395; both two-day courses, $695. Military and Aerospace Microprocessor Systems, two-day course, and Bit-Slice Microprocessors, PLA's, and Microprogramming, two-day course immediately following, will be held January 25-28 in Houston, Texas, and February 1-4, Boston, Massachusetts; two-day course, $395; both two-day courses, $695.

Integrated Computer Systems, Inc., 4445 Overland Ave., Culver City, CA 90230; (213) 559-9265 or TWX 910-940-6350

**Classified Ads**

**Stanford**: The Department of Electrical Engineering at Stanford University is inviting applications to fill faculty positions. Applicants should have an interest in teaching and a demonstrated ability to conduct research in one or more of the following areas: database systems, software engineering, programming languages, computer networks and communication, operating systems and compiler design. Although these positions are normally at the Assistant Professor level, experienced and outstanding candidates may be considered for higher ranks.

Stanford University is an Affirmative Action Employer and welcomes applications from women and minority group members.

Please submit detailed resumes, including names of references, to Professor Michael J. Flynn, Department of Electrical Engineering, Stanford University, Stanford, California 94305.

**Faculty Position/Data Processing**: Opening beginning the 1977-78 academic year. Applicants should possess a master's degree or significant experience and must have a strong commitment to teaching. An ability to teach in the areas of operating systems, COBOL programming, and system design is required. Resources of the department include a 360/40 DOS system, PDP 11/70 RSTS system, plotter, interactive graphics system, and other hardware. Salary and rank are negotiable. Applications normally involve the Assistant Professor level. Send resume to Personnel Office, NORTHAMPTON COUNTY AREA COMMUNITY COLLEGE, 3835 Green Pond Road, Bethlehem, PA 18017. No applications will be considered after February 1, 1977. AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

**Data Processing and Computer Science Instructional Para-Professional**: The successful candidate will have a working knowledge of COBOL, 360 Assembler Language, RPG, FORTRAN, and BASIC and will be familiar with both batch and interactive systems. Experience with CAI, GMI, and simulation in instruction environments very desirable. Current systems include 360/40 DOS, PDP 11/70 RSTS/E, and graphics facility. AAS degree or compensating experience required. Salary to $10,000 ten-months, negotiable. Send resume to Personnel Office, NORTHAMPTON COUNTY AREA COMMUNITY COLLEGE, 3835 Green Pond Road, Bethlehem, PA 18017. No application will be considered after February 1, 1977. AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

**Computer**
**For Sale by Owner:** Complete Computerized Estimating package for the Mechanical Contractor & Engineer. Tried, tested, proven & profitable. Would sell but prefer to find substantial, enterprising developer to promote the service. No phone.

Capital Search, Inc., Box 1517, Pendleton, OR 97801.


Temple University invites applications for faculty positions in the Department of Computer and Information Sciences. The Department and Information Sciences is responsible for all computer courses in the University. Departmental teaching and research interests range from the highly theoretical aspects of Computer Sciences to the applied areas of Data Processing and Information Systems. The department currently has sixteen (16) full-time faculty members and offers a wide variety of undergraduate and graduate programs. Applicants should have a Ph.D. in Computer Science, Management Information Systems, or a closely related field.

Send resumes to Dr. Leonard J. Garrett, Department of Computer and Information Sciences, School of Business Administration, Temple University, Philadelphia, Pa. 19122.

**A COMPLETE OPPORTUNITY EMPLOYER.**

A Department of Computer Science has been formed in The School of Mathematics, Science and Engineering at The California State University, Fullerton, California. There are approximately 400 majors in the B.S. and M.S. degree programs which were previously administered by an interdisciplinary council. Responsibilities of the Department will include such subject areas as Software Engineering, Artificial Intelligence, Automata Theory and Formal Languages, Administrative Information Systems, Pattern Recognition, Computer Languages, Systems Programming, Systems Architecture and related areas.

Persons with recognized authority in some of these areas, some competence in all of them and a closely related Ph.D. are invited to apply for the position of department chairman. Please send resume and curriculum vitae to: Computer Science Department, School of M.E., Room S-103, California State University, Fullerton, CA 92634. An equal opportunity/affirmative action employer.

**Electrical Engineering Tenure position:** Assistant Professor opening in January, 1977, at the newly created University of Lowell (formerly Lowell Technological Institute). Duties include undergraduate and graduate teaching, student advising, and research with other College of Engineering Faculty on interdisciplinary control and processing problems. The applicant we seek should have strong background in LSI microprocessor and mini-computer hardware and software, process control applications, and interfacing of peripherals. Ph.D. is preferred. Send resume and letters of reference by December 30, 1976, to James E. Powers, Chair, Department of Electrical Engineering, University of Lowell, Lowell, MA 01854. "An equal opportunity/affirmative action Title IX University."

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**Rates**

Minimum charge – $30.00 up to 10 lines, average of six lines: $5.00 per line thereafter. Add $5.00 for box number. No ad shall be longer than 30 lines. Payment with order, due the first of the month prior to month of publication.

**Exceptions** — IEEE Computer Society member ads for positions wanted: $10.00 up to 10 lines; $1.00 minimum for each additional line. Situations wanted ads for unemployed Society members are run free. Include IEEE member number in either case.

**The M.I.T. Department of Electrical Engineering and Computer Science** expects to make several new Assistant Professor appointments in Computer Science and Engineering effective September 1, 1977. We are interested in superior candidates who have recently completed their doctorate or are expected to complete it this year, and are interested in both teaching and research. Ideally, most likely be carried out within the Laboratory for Computer Science (formerly Project MAC) or the Artificial Intelligence Laboratory. All areas of specialization are of interest. Candidates should include the names and addresses of three persons willing to write letters of recommendation. Additional material describing the candidate's work, such as papers or technical reports, would be helpful. There is no fixed deadline for applications, but specific orders will be made by the end of March. Send applications to Professor F. J. Corbato, Associate Head for Computer Science and Engineering, Room 515, 545 Technology Square, Cambridge, Massachusetts 02139.

M.I.T. is an equal opportunity/affirmative action employer and actively solicits applications from women and minority group candidates.

**Data Communication Systems:** Assistant or Associate Professor appointment in Data Communications. Recent Ph.D. with doctoral thesis in communications via computer networks is acceptable. Ph.D. with experience in Computer Communication Networks desired. Position available Sept. 1977. Closing date for applications is May 1, 1977. Send resume and selected publications to Professor Bruce H. McCormick, Head, Department of Information Engineering, University of Illinois at Chicago Circle, Chicago, Illinois 60680. The University of Illinois is an Affirmative Action-Equal Opportunity Employer.

**Opportunities at UMASS, REGULAR FACULTY:** One position for teaching undergraduate electronic lectures and labs, research specialty unspecified. Contact Prof. R. McIntosh, ECE Dept., REGULAR FACULTY: Positions available in computer area in Computer and Information Science Dept. All candidates contact Prof. C. Worgin, COINS Dept. ONE-YEAR VISITING FACULTY position with teaching and research in computer engineering. Contact Prof. H. Stone, ECE DEP. RESEARCH AND TEACHING, Assistantships in Elec. & Comp. Engr. Dept. Contact Prof. T. Tang, ECE Dept. University of Massachusetts, Amherst, MA. 01003. An Equal Opportunity/Affirmative Action Employer.

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**THE UNIVERSITY OF MICHIGAN DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING**

**ASSISTANT PROFESSOR—ELECTRICAL AND COMPUTER ENGINEERING** Ph. D. in computer engineering, computer science or electrical engineering and research interest in modern hardware-level design, analysis and implementation guided by formal methods. Teaching duties include graduate and undergraduate courses in digital design and computer organization (with labs), computer architecture, fault-tolerant computing, switching theory, discrete mathematics and/or advanced course in area of expertise. Will also participate in the Graduate Program in Computer, Information and Control Engineering (CICE). Position available September 1977 or earlier. Send resume and names of three references to chairman of the search committee, D. E. Atkins, Department of Electrical and Computer Engineering, The University of Michigan, Ann Arbor 48109.

A non-discriminatory/affirmative action employer.

**California State University, Northridge, Department of Computer Science:** Faculty positions currently available in Computer Science. Areas include: Data Base Systems, Graphics, Artificial Intelligence, System Architecture Qualifications: Ph.D., industrial experience desirable. Send resume to Philip Gilbert, Chairman, Department of Computer Science, California State University; Northridge, California 91330. To ensure consideration, application should be sent on or before February 28, 1977. Equal opportunity and affirmative action employer.

**Faculty Positions in Computer Science:** Applications are invited from recent Ph.D. or Dr. Sc. graduates interested in applying computer science and engineering to the design of asynchronous multiprocessor systems and high-performance information systems. Excellent teaching and research opportunities in an expanding department. For more information reply to Computer Science Department WASHINGTON UNIVERSITY St. Louis, Missouri 63130.

The University is an equal opportunity and affirmative action employer.

**Southern Illinois University at Carbondale:** Applications are invited for assistant professor faculty positions in the Computer Science Department starting August 15, 1977. Candidates should have a broad competence in computer science and strong interest in at least one of the following fields: operating systems, programming languages, computer architecture, information systems. Excellence in teaching and research is expected. A Ph.D. will be required prior to date of employment.

Applicants should send a resume by February 15, 1977 to:

Faculty Recruitment Committee Department of Computer Science Southern Illinois University Carbondale, Illinois 62901

SUI-C is an Equal Opportunity/Affirmative Action Employer.