**CALENDAR**

Conferences in which the Computer Society is a sponsor or participant are indicated by the IEEE Computer Society logo; other conferences of interest to our readers are also included. For listing in the Calendar Section, submit information by the first of the month preceding the month of publication to Computer Magazine, 5855 Naples Plaza, Suite 301, Long Beach, CA 90803.

**JUNE 1977**

- **NCC**, June 13-16, Dallas, Texas. For information on the 1977 National Computer Conference, contact Dr. Portia Isaacson, University of Texas, P.O. Box 688, Richardson, TX 75080.

- **First Regional Personal Computing Show**, June 16-18, Boston, Massachusetts. Contact Personal Computing Magazine, 401 Louisiana S.E., Albuquerque, NM 87108; (505) 266-1173.


- **MECO '77**, June 20-21, Zurich, Switzerland. Contact MECO '77, P.O. Box 354, 8053 Zurich, Switzerland.

- **14th Design Automation Conference**, June 20-22, New Orleans, Louisiana. Contact Design Automation Conference, P.O. Box 639, Silver Spring, MD 20901.

- **Machine Processing of Remotely Sensed Data**, June 21-23, Purdue University, Indiana. Contact D. B. Morrison, LARS, Purdue University, West Lafayette, IN 47907.


- **Simulation '77**, June 22-24, Montreux, Switzerland. Contact Simulation '77, P.O. Box 354, 8053 Zurich, Switzerland.

- **Computer Elements Committee Workshop**, June 26-29, Vail, Colorado. Contact S.M. Neville, Chairman, Computer Elements Committee, Bell Laboratories, Room 2B-232, Naperville, IL 60540.


- **FTCS-7, Seventh Annual International Symposium on Fault-Tolerant Computing**, June 28-30, Los Angeles, California. For information on the symposium, sponsored each year by the IEEE Computer Society’s Technical Committee on Fault-Tolerant Computing, contact Prof. Arthur D. Friedman, Dept. of Electrical Engineering and Computer Science, USC, Los Angeles, CA 90007.

**JULY 1977**


- **Microcomputer Show**, July 20, Indianapolis, Indiana. Sponsored by Central Indiana Chapter of IEEE Computer Society. Contact Thurman H. Gladden, Naval Avionics Facility, Dept. 810, 6000 E. 21st St., Indianapolis, IN 46218.

- **Fourth Annual Conference on Computer Graphics and Interactive Techniques**, July 20-22, San Jose, California. Contact Stephen Levine, Lawrence Livermore Laboratory, P.O. Box 808, Livermore, CA 94550; (415) 447-1100, X3950.

**AUGUST 1977**

- **On-Line Systems and Data Base Systems**, August 8-12, Washington, D.C. Brochures covering this two-conference program are available from AIIE Seminars, Dept. PR, P.O. Box 3727, Santa Monica, CA 90403; (213) 450-0500.

- **IFIP Congress 77**, August 8-12, Toronto, Canada. Contact IFIP Exhibition 77, Canadian Information Processing Society, 212 King St. West, Suite 501, Toronto, Ontario, Canada M5H 1K5.

- **Fifth Symposium on the Simulation of Computer Systems**, August 9-11, NBS, Gaithersburg, Maryland. Contact Paul F. Roth, NBS, Room B250 Technology, Washington, D.C. 20234; (301) 921-3545.

- **Midwest Symposium on Circuits and Systems**, August 15-16, Lubbock, Texas. Contact Midwest Symposium, P.O. Box 4439, Texas Tech University, Lubbock, TX 79409.


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2nd International Symposium, on the Operator Theory of Networks and Systems, August 17-19, Lubbock, Texas. Contact 2nd International Symposium, P.O. Box 4439, Texas Tech University, Lubbock, TX 79409.

International Conference on Computer Applications in Developing Countries, August 22-25, Bangkok, Thailand. Contact Dr. Fook Loy Ng, secretary ICCA, Asian Institute of Technology, P.O. Box 2754, Bangkok, Thailand.

1977 International Conference on Parallel Processing, August 23-26, Bellaire, Michigan. Contact Dr. Charles S. Elliott, College of Engineering, Wayne State University, Detroit, MI 48202; (313) 577-3812.


SEPTEMBER 1977

IFAC Control and Management of Integrated Industrial Complexes, September 6-8, Toulouse, France. Contact M.G. Singh, L.A.A.S.-C.N.R.S. 7, avenue du Colonel-Roche, 31400 Toulouse, France.

COMPCON Fall 77, September 6-9, Washington, D.C. Contact COMPCON Fall 77, P.O. Box 639, Silver Spring, MD 20901; (301) 439-7007.

1977 MUMPS Users' Group Meeting, September 7-9, Boston, Massachusetts. Contact Richard Zapolin, The MITRE Corp., P.O. Box 208, Bedford, MA 01730; (617) 271-2534.

Symposium on Data Analysis and Informatics, September 7-9, Rocquencourt, France. Contact IRIA Symposium Secretariat, External Relations Department, Domaine de Voluceau, Rocquencourt, B.P. 5, 78150 Le Chesnay, France.

Wesccon, September 19-21 (date change), San Francisco, California. Contact W.G. Weber Jr., Wesccon, 999 N. Sepulveda Blvd., El Segundo, CA 90245.

New Orleans Hamfest/Computerfest, September 24-25, Kenner, Louisiana. Contact publicity chairman, Jan R. Edwards, P.O. Box 10111, Jefferson, LA 70118.


Fifth Data Communications Symposium, September 27-29, Snowbird, Utah. Contact Joe Marchese, IBM Corp., 18100 Frederick Pike, Gaithersburg, MD 20790.


Computers in Cardiology, September 29-October 1, Rotterdam, The Netherlands. Contact Dr. P. Heyderhoff, G.M.D. Postfach 1240, D-5205 St. Augustin, Germany.

Symposium on Computer Application in Medical Care, October 3-5, 1977, Washington, D.C. Contact Abund O. Wist, Box 16, Medical College of Virginia, Richmond, VA.

Third Euromicro Symposium on Microprocessors and Microprogramming, October 3-6, Amsterdam, The Netherlands. Contact J. D. Nicoud, LCD EPFL, Bellverie 16, CH-1007, Lausanne, Switzerland.

MICRO-10, October 5-7, Niagara Falls, New York. Contact Gideon Frieder, Department of Computer Science, State University of New York at Buffalo, 4226 Ridge Lea Rd., Amherst, NY 14226; (716) 831-1351.

Third International Conference on Very Large Data Bases, October 6-8, Tokyo, Japan. Contact Professor Stuart Madnick, MIT, Sloan School of Management, 50 Memorial Dr., Cambridge, MA 02139.


DPMA's Info/Expo 77, October 9-12, Washington, D.C. Contact George Nagel, Washington Suburban Sanitary Commission, Hyattsville, MD.

Tenth Convention of Electrical and Electronic Engineers, October 10-13, Tel Aviv, Israel. Contact Daphna Knassim, 444 Madison Ave., New York, NY 10022.


Microprocessor Peripherals, October 11-12, Laurel, Maryland. Contact The Johns Hopkins University, Applied Physics Laboratory, Laurel, MD.


Annual AICA Congress, October 12-14, Pisa, Italy. Contact Secretary, Italian Association for Computing Machinery, I.E.I.—C.N.R., Via S. Maria, 46, 56100 Pisa (Italy).

ACM National Conference, October 15-19, Seattle, Washington. Contact James S. Ketchel, P.O. Box 16158, Seattle, WA 98116; (206) 935-6776.

SYSTEMS 77, October 17-21, Munich, W. Germany. Computer systems and their application, international seminars and trade fair. Munchener Messe- und Ausstellungs GmbH Messegelande, Postfach 12 10 09, 800 Munchen 12, W. Germany.

International Conference on Modelling Semiconductor Devices, October 18-20, Lausanne, Switzerland. Contact the Secretariat des Journees d'electronique de l'EPFL 15, chemin de Beillevire, CH-1007 Lausanne, Switzerland.

Design Automation Workshop, October 19-21, Michigan State University, East Lansing, Michigan. Contact Harry M. Taxin, Computer-Aided Design Dept., Hughes Aircraft Company, Culver City, CA 90230; (213) 391-0711, Ext. 2273 or 4186.


Second International Computer Music Conference, October 26-30, San Diego, Calif. Contact Computer Music Conference, University of California at San Diego, Q-037, La Jolla, CA 92039.


Computers in Aerospace, October 31-November 2. Contact H. J. Harrington, McDonnell Douglas Corporation, Department E411, Bldg. 106/4, St. Louis, MO 63166.
NOVEMBER 1977

AUTOTESTCON 77, November 2-4, Hyannis, Mass. For more information on the International Automatic Testing Conference, contact general chairman, E. B. Galton, RCA Corporation, P.O. Box 586, Burlington, MA 01803.

Arlimor Conference on Circuits, Systems and Computers, November 6-9, Pacific Grove, California. Contact John W. Woods, Rensselaer Polytechnic Institute, School of Engineering, Troy, NY 12181.

MIDCON, November 8-10, Chicago, Illinois. Contact Electrical and Electronics Exhibitions Inc., 999 N. Sepulveda Blvd., El Segundo, CA 90245; (213) 772-2965.


Sixth Texas Conference on Computing Systems, November 14-15, University of Texas. Contact Prof. James Neuerger, Dept. of Computer Science, Painter Hall 3.28, University of Texas, Austin, TX 78712.

Personal Computing, November 28, Gaithersburg, Maryland. Contact National Bureau of Standards, Gaithersburg, MD.

DECEMBER 1977

Winter Simulation Conference, December 5-7, Gaithersburg, Maryland. Contact Paul F. Roth, 8250 Technology Building, National Bureau of Standards, Washington, D.C. 20234; (301) 921-3545.

National Telecommunications Conference, December 5-8, Los Angeles, Calif. Contact Marvin K. Simon, Chairman, Technical Program, Jet Propulsion Laboratory, 4800 Oak Grove Dr., Pasadena, CA 91103 (213) 354-9321.

Decision and Control, Adaptive Processes, December 7-9, New Orleans, Louisiana. Contact K. S. Fu, Purdue University, School of Electrical Engineering, Lafayette, IN 47907.


1977 CONFERENCES


CLEOS '78, the Second Conference on Laser and Electro-Optical Systems, February 7-9, San Diego, California. Contact publicity chairman, Milton Chang, Newport Research Corporation, 18235 Mt. Baldy Circle, Fountain Valley, CA 92708.

1978 International Zurich Seminar on Digital Communications, March 7-9, Zurich, Switzerland. Contact Secretariat 1978 International Zurich Seminar, c/o HASLER AG, Dept. 60a, Belprasse 23, CH-3000 Bern 14, Switzerland.

11th Annual Simulation Symposium, March 15-17, Tampa, Florida. Contact Annual Simulation Symposium, P.O. Box 22621, Tampa, FL 33622.

BIOSIGMA 78, April, Paris, France. Contact Secretariat General de BIOSIGMA 78, 11 rue Hamelin, 75016, Paris, France.

Fifth Annual Symposium on Computer Architecture, April 3-5, Palo Alto, California. Contact M. Danielle Beaudry, publicity chairwoman, Digital Systems Laboratory, Stanford University, Stanford, CA 94305.


Editorial schedule for...

IEEE TRANSACTIONS ON SOFTWARE ENGINEERING

Editor: Prof. Raymond T. Yeh, Dept. of Computer Science, Physics Bldg. 3.28, University of Texas, Austin, TX 78712

July 1977

Testing
"Testing Programs with the Aid of a Compiler," R. G. Hamlet (Communicated by Harlan Mills)

Modeling and Evaluation
"Program Perspectives: A Relational Representation of Measurement Data," G. David Ripley (Communicated by James Browne)

"Artificial Patterns," Allen Klinger (Communicated by Robert Simmons)

Tools

Analysis of Algorithms
"Evaluation of the Average Access Time for a Digital Cassette Memory System," Petru D. Cernicic (Communicated by Seymour Jeffers)

Education
"Software Hut: A Computer Program Engineering Project in the Form of a Game," James J. Horning and David B. Wortman

IEEE TRANSACTIONS ON COMPUTERS

Editor: Dr. Richard E. Merwin, P.O. Box 32222, Washington, D.C., 20007

July 1977: Special Issue on Computer Arithmetic

"Mathematical Foundation of Computer Arithmetic," U. Kulisch
"Floating-Point Computation of Functions with Maximum Accuracy," G. Bohlender
"Matrix Processors Using p-adic Arithmetic for Exact Linear Computations," E. V. Krishnamurthy
"Significance Arithmetic: Application to a Partial Differential Equation," R. L. Bivins and N. C. Metropolis
"Analysis of Rounding Methods in Floating-Point Arithmetic," D. J. Kuck, D. S. Parker, Jr., and A. H. Sameh
"A Unified Numeric Representation Arithmetic Unit and Its Language Support," P. Kommerup and B. D. Shriver
"Highlights of a Study of Floating-Point Instructions," J. G. Kent
"On-Line Algorithms for Division and Multiplication," K. S. Trivedi and M. D. Ercegovac

For subscription information on Transactions, circle Reader Service Number 56 on p. 127.