Symposium on Application and Assessment of Automated Tools for Software Development

November 1, 2, and 3, 1983

HYATT HOTEL on UNION SQUARE, San Francisco

The Symposium on Application and Assessment of Automated Tools for Software Development will be held on November 1, 2, and 3 in San Francisco at the Hyatt Hotel on Union Square. A block of rooms has been reserved for Symposium attendees. Please use the hotel registration form on this announcement to make reservations. The Hyatt on Union Square is in downtown San Francisco. It is easily reached from San Francisco airport by limousine or taxi. Please make your reservation with the Hyatt by October 3, 1983. Advance registration for the conference is suggested. Please use the registration form on this announcement.

The Technical Program for the Symposium emphasizes applications and assessment of automated tools. There are papers on tools applicable to all portions of the software life cycle from design through testing. The papers were heavily contributed from industry and reflect actual practice by both large and small developers of software. There were also selected for presentation at the Symposium a small number of papers which indicate directions for a next generation of automated tools. The rather piecemeal state of current automation suggests that integration of automation techniques into coherent systems may pay big dividends in software development costs over the next decade.

papers:
M. Burford and F. Belli, "CADAS: A Tool for Rapid Prototyping and Testing of Embedded Software.", ESG/FGW, West Germany
Linda Brice, John Connell and Don Shafer, "Using INGRES as a Rapid Prototyping Device During Development of Management Information Applications," Los Alamos National Laboratory, Los Alamos, NM

3:00 - 3:30 Coffee Break

3:30 - 5:00 Design and Specification Tools and Their Applications Session Chairman: Tony Wasserman, University of California, San Francisco, CA

papers:
Gerald A. Anderson and Joe E. Mahoney, "The Program Development Aid (PDA) - Including Support for the Common Design Language - CDL," IBM, General Products Division, Santa Teresa Laboratory, San Jose, CA
Bijan Behari Bhaumik, Pradip Kumar Das and Kallol Kumar Bagchi, "DORMS - A Tool for Multiple Microprocessor System Design," Computer Center, Dept. of Electronics and Tele-Comm. Engineering, Jadavpur University, Calcutta, India
Timothy K. Rempel, "A Text Oriented Tool Set for the Concurrent System Definition Language," Honeywell Corporate Computer Sciences Center, Bloomington, MN

PROGRAM

NOVEMBER 1
8:00 - 9:00 Registration
9:00 - 9:30 Keynote Address
by Bob Evans, Vice President of Engineering, Programming and Technology, IBM
9:30 - 9:45 Conference Overview -
J.C. Browne, Program Committee Chairman, University of Texas at Austin
9:45 - 10:15 Coffee Break
10:15 - 12:00 Case Studies in Tool Development and Application Session Chairman: Edward F. Miller, Jr., Software Research Associates, San Francisco
papers:
Steve Fickas, "Automating Software Development: A Small Example," Dept. of Computer Science, University of Oregon
Invited paper on "Toolpack," Brian Ford, NAG
12:00 - 1:30 Lunch
1:30 - 3:00 Prototyping - Tools and Applications
Session Chairman: Robert S. Fenchel, Xerox Corporation, El Segundo, CA
NOVEMBER 2
8:30-10:00 Specification Tools — Evaluation and Assessment Session Chairman: Garry Kampen, Boeing Computer Services, Seattle, WA
papers:
Dave Childs, Dennis Whalen, Lloyd Keith, “Software Analysis and Management System (USAMS) — Evaluation of SREM/REVS/RSL and PSL/PSA,” Jet Propulsion Laboratory, Pasadena, CA
Marylinda Johnson, “PSL/PSA to the Rescue,” IBM, Irving, TX
10:00-10:30 Coffee Break
10:30-12:00 Programming Systems and Languages Session Chairman: Paula Newman, IBM Scientific Center, Los Angeles, CA
papers:
Heung-Soon Ihm and Simeon Ntafos, “RETS: Required Element Testing System,” Computer Science Program, The University of Texas at Dallas, Richardson, TX
12:00-1:30 Lunch
1:30-3:00 Panel on Software Development Environments Panel Chairman: William E. Riddle, Software Design and Analysis, Boulder, CO
3:00-3:30 Coffee Break
3:30-5:00 Tools for Analysis of Programs Session Chairman: Leon Osterweil, University of Colorado, Boulder, CO
papers:
Barbara White, “Application of Halstead’s Complexity Measures to Program Design,” IBM, Communication Products Division, Kingston, NY
B. Shahdad, “A Survey of Static Analysis Features of Compilers,” Intermetrics, Inc., Bethesda, MD
NOVEMBER 3
8:30-10:00 Methodology Development and Evaluation Session Chairman: Marvin Zelkowitz, University of Maryland
papers:
Wayne R. Maple, “System Control and Verification (SCV),” IBM, Santa Teresa Laboratory, San Jose, CA
10:00-10:30 Coffee Break
10:30-12:00 Panel on “Future Directions for Automated Tools” Panel Chairman: Ezatollah Nahourail, IBM, IS and CG Technical Education, San Jose, CA
12:00-1:30 Lunch
1:30-2:30 Text Management Systems Session Chairman: Robert Goldberg, IBM, Systems Research Institute, New York, NY
papers:
Vincent Kruskal, “Applications of Parametric Files Using P-EDIT,” IBM, T.J. Watson Research Center, Yorktown Heights, NY
Brian T. Lewis, “Experience with a System for Controlling Software Versions in a Distributed Environment,” Xerox Corporation, Palo Alto, CA

ADVANCE REGISTRATION FORM
Registration Information
Name: __________________________
Affiliation: ______________________
Address: ________________________
City: ___________________ State: _____ Zip: ______
Country: ___________ Phone: ________
Member Org. ________ Member No. _______
Registration Fee: Advance Registration At Door
ACM or IEEE Member $95.00 $115.00
Non-Member 120.00 140.00
Students 50.00 50.00
Advance registration closing date is 10/14/83. Advance registration will be confirmed by mailing you a receipt for your registration fees.
Use the form below to make your hotel reservation by mailing it to the hotel.
Please make check payable to: Symposium on Automated Tools
Return this form to: Carlos U. Munoz, IBM, Dept. B12/C24, P.O. Box 50020, San Jose, CA 95150
Attn. Symposium

HOTEL RESERVATION
Return this form to:
HYATT ON UNION SQUARE
345 Stockton Avenue
San Francisco, CA 94108

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<th>Number of People</th>
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<th>Convention Rates</th>
<th>Regency Club</th>
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Date of Departure: ______________________
Name: __________________________
Address: ________________________
City, State, Zip ____________________
Telephone: ________________________
Name of additional person sharing room: ______________________

Deposit or credit card information is required.
All reservations and additional names must be received by October 3, 1983.
Credit Card: ________________________
Company: __________________________
Number: __________________________
Expiration Date: ____________________

For other hotel information please call the Hyatt Hotel directly (415) 398-1234.