



Advance Program CONFERENCE ON SOFTWARE MAINTENANCE-1987

AUSTIN, TEXAS • SEPTEMBER 21-24, 1987

The Conference on Software Maintenance-1987 (CSM-87) will gather software managers, developers, maintainers, and researchers to discuss new solutions to the continuing challenge of software maintenance and software maintainability. CSM-87 will acquaint managers and practitioners with current advances and researchers with current needs.

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MONDAY, SEPTEMBER 21 • ALL DAY TUTORIALS

7:30 Registration

9:00-5:00

Tutorials

I. Tutorial on Software Restructuring: Robert Arnold, Software Productivity Consortium (SPC)

II. Advanced Practical Management Methods and Technologies for Controlling Software Maintenance Cost, Productivity and Maintainability: Tom Gilb, Consultant

III. C, UNIX and Software Portability: Alan Filipki, GTE and Arizona State

TUESDAY, SEPTEMBER 22 • GENERAL SESSION

7:30 Registration

8:30 Opening Remarks

9:00-10:00

Plenary Keynote Address:

Dr. Barry Boehm, TRW, Improving Software Maintenance Productivity

10:00

BREAK

10:30

TRACK A

Session 1A—Panel
Metrics for Software Maintenance Management:
James McCall, SAIC—Chair
Panelists: Gene Long—SM-ALC, Major T. Shumkas—AFSC, Joe Cavano—RADC, Norm Schneidewind—NPGS, Bill Curtis—MCC.

TRACK B

Session 1B—
Management Techniques and Procedures

The Job of Software Maintenance: Ned Chapin, Infosci

Building and Sustaining Software Maintainability: Wilma Osborne, NBS

Improving Software Acquisition to Facilitate Software Maintenance: Robert Arnold, SPC

12:00

LUNCH

1:30

Session 2A

Empirical Studies
Applying Control-Flow Metrics to COBOL: Linda Spratt, Barry McQuilken, Language Technology

Evolution with System Sculpture: Some Empirical Results: Bruce Blum, John Hopkins University

A Model for Software Maintenance: Dave Gustafson, Austin Melton, Kansas State University

Session 2B—Panel

Legal Implications of Software Maintenance:

Tobey Marzouk, Esq.—Chair
Panelists: Pam Samuelson, University of Pittsburgh
Ann Martin, SEI

3:00

BREAK

3:30

Session 3A-3B—Plenary Panel Session

Employing Standards to Improve Software Maintenance:
Chair: Jerry Raveling—DOD, Wilma Osborne—NBS,
Leonard Tripp—IEEE/Boeing, Bill Wilson—NASA



THE COMPUTER SOCIETY
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AND ELECTRONICS ENGINEERS, INC.

WEDNESDAY, SEPTEMBER 23 • GENERAL SESSION

7:30	Registration	
8:30	Plenary Panel Session: James McCall, SAIC, Chair Embedded Computer Software Maintenance Environments Panelists: J. Patterson—SM-ALC, M. Parrish—OC-ALC, G. Myers—NOSC, D. Cerino—RADC, P. Pierce—SAC	
10:00	BREAK	
10:30	Session 4A—Mini-Tutorial Reducing Risks in Software Maintenance David Peercy, BDM	Session 4B—Software Restructuring and Portability Software Recycling: Harry Sneed, Gabor Jandrasics, Software Engineering Service Maintenance and Reverse—Engineering—Low Design Documents Production and Improvement: P. Antoni, P. Benedusi, G. Cantone, A. Cimitile, University of Naples Portability Issues in Software Maintenance: Richard Head, AMOCO
12:00	LUNCH	
1:30	Session 5A—Advanced Techniques for Software Maintenance Workspaces and Experimental Databases—Automated Support for Software Maintenance: Dewayne Perry—AT&T Bell Labs Software Maintenance—Using Meta-Programming: Brian Terry, Robert D. Cameron, Simon Fraser University An Expert System Approach to a Program's Information/Maintenance System: F. Cross, Rockwell Collins Inc.	Session 5B—Mini-Tutorial: Control It or Lose It: Responsive Configuration Management (CM)—A Must for Software Maintenance: Jerry Raveling, UNISYS
3:00	BREAK	
3:30	Session 6A—Panel Status and Problems in Software Maintenance Education: Dave Gustafson, Kansas State University, Chair Panelists: Gary Sackett, Hughes Aircraft, Martha Walsh, AT&T Communication & Information Systems	Session 6B—Quantitative Evaluation of Maintenance Quantitative Assessment of Software Maintenance: H. Dieter Rombach, Victor Basili, University of Maryland Managing Software Cost and Quality: David Card, D.V. Cotnoir, C.E. Goorevich, CSC Informations Systems Development Audits and Software Maintenance: Chung-Fern Wu, UCLA
7:00	CSM-87 Reception	

THURSDAY, SEPTEMBER 24 • GENERAL SESSION

8:30	Session 7A Formal Studies A Statistical Rationale for Evolution Dynamics Concepts: C.K.S. Chong Hok Yuen, C.M.R. de S-J Improved Domain Strategies for Detecting Path Selection Errors: Chen-Shing Chou, Min-Wen Du, National Chiao Tung University	Session 7B— Software Maintenance Tools A Source Code Analyzer for Maintenance: D. Richard Kuhn, NBS A Documentation Method Based on Cross Referencing: John Foster, British Telecom
9:30	BREAK	
10:00	Plenary Panel Session: Norman Schneidewind, Naval Post-Graduate School—Chair: Perspectives on Software Maintenance Panelists: Larry Druffel, SEI, Peter Freeman, UC/Irvine, Barry Boehm, TRW, Les Belady, MCC	
11:45	Conclusions	

Tool Demonstrations • September 22-24
Continuous Demonstrations of tools by 25 Software Tool vendors.

Conference on Software Maintenance—1989 (CSM-89) Planning Meeting
5:30 p.m., Tuesday, September 22

Conference on Software Maintenance—1987
September 21-24, 1987
Austin, Texas

Complete and return this form along with your check to: CSM'87
c/o Computer Society
1730 Massachusetts Ave. NW
Washington, DC 20036-1903
Telephone: (202) 371-1013
Telec: 7106250437 IEEECOMPPO

Circle appropriate fee:

	Advance Registration Prior to 9/4/87	
	Member	Non-Member
Conference	\$160	\$200
Tutorial	\$160	\$200
	Late Registration After 9/4/87	
	Member	Non-Member
Conference	\$190	\$240
Tutorial	\$190	\$240

Student Conference Fee: \$50

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Registration Fee includes proceedings and reception. Request for refunds must be received in writing no later than September 4, 1987.

La Mansión
Hotel Reservation Form
Conference on Software Maintenance—1987
September 21-24, 1987

Please check accommodations and price desired:

Single occupancy: \$74.00

Double occupancy: \$84.00

Arrival Date _____ Departure Date _____

am pm am pm

Reservations must be received by the La Mansión by September 1, 1987.

Reservations received after September 1, 1987 will be accepted on a space available basis.

Complete this form and return to:
La Mansión Hotel
Reservations

6505 IH-35 North
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To confirm a reservation, a one room's night advance deposit is required.

Check in: 3:00 p.m. Check out: 12:00 p.m.