CONTENTS

	Editors' Introduction	vii
	General Introduction	ix
	Development of the HOPL-II Program	xi
	Acknowledgments	xvi
I	**The Opening Session**	
	CONFERENCE CHAIRMAN'S OPENING REMARKS, *John A. N. Lee*	1
	LANGUAGE DESIGN AS DESIGN, *Frederick P. Brooks, Jr.*	4
	FROM HOPL TO HOPL-II (1978–1993): 15 Years of Programming Language Development, *Jean E. Sammet*	16
	MAKING HISTORY, *Michael S. Mahoney*	25
II	**ALGOL 68 Session**	
	A HISTORY OF ALGOL 68, *C. H. Lindsey*	27
	Transcript of Presentation, *C. H. Lindsey*	84
	Transcript of Question and Answer Session	95
	Biography of C. H. Lindsey	96
III	**Pascal Session**	
	RECOLLECTIONS ABOUT THE DEVELOPMENT OF PASCAL, *N. Wirth*	97
	Transcript of Disscussant's Remarks, *Andrew B. Mickel*	111
	Transcript of Question and Answer Session	117
	Biography of Niklaus Wirth	119
IV	**Monitors and Concurrent Pascal Session**	
	MONITORS AND CONCURRENT PASCAL: A PERSONAL HISTORY, *Per Brinch Hansen*	121
	Transcript of Question and Answer Session	171
	Biography of Per Brinch Hansen	172

V Ada Session

ADA—THE PROJECT: The DoD High Order Language Working Group, *William A. Whitaker, Colonel USAF, Retired* 173
Transcript of Discussant's Remarks, *John B. Goodenough* 229
Biography of William A. Whitaker, Col. USAF, Ret. 231

VI Lisp Session

THE EVOLUTION OF LISP, *Guy L. Steele Jr.and Richard P. Gabriel* 233
Transcript of Presentation, *Guy L. Steele Jr. and Richard P. Gabriel* 309
Transcript of Discussant's Remarks, *John Foderaro* 326
Transcript of Question and Answer Session 328
Biographies of Guy L. Steele Jr. and Richard P. Gabriel 329

VII Prolog Session

THE BIRTH OF PROLOG, *Alain Colmerauer and Philippe Roussel* 331
Transcript of Presentation, *Alain Colmerauer* 352
Transcript of Discussant's Remarks, *Jacques Cohen* 364
Transcript of Question and Answer Session 366
Biographies of Alain Colmerauer and Philippe Roussel 366

VIII Discrete Event Simulation Languages Session

A HISTORY OF DISCRETE EVENT SIMULATION PROGRAMMING LANGUAGES, *Richard E. Nance* 369
Transcript of Presentation, *Richard E. Nance* 413
Transcript of Question and Answer Session 426
Biography of Richard E. Nance 427

IX FORMAC Session

THE BEGINNING AND DEVELOPMENT OF FORMAC (FORmula MAnipulation Compiler), *Jean E. Sammet* 429
Transcript of Presentation, *Jean E. Sammet* 456
Transcript of Discussant's Remarks, *Joel Moses* 465
Transcript of Question and Answer Session 468
Biography of Jean E. Sammet 468

X CLU Session

A HISTORY OF CLU, Barbara Liskov 471
Transcript of Presentation, *Barbara Liskov* 497
Transcript of Question and Answer Session 508
Biography of Barbara Liskov 510

XI Smalltalk Session

THE EARLY HISTORY OF SMALLTALK, *Alan C. Kay* 511
Transcript of Presentation, *Alan C. Kay* 579
Transcript of Discussant's Remarks, *Adele Goldberg* 589
Transcript of Question and Answer Session 596
Biography of Alan C. Kay 597

XII Icon Session

HISTORY OF THE ICON PROGRAMMING LANGUAGE, *Ralph E. Griswold and Madge T. Griswold* 599
Transcript of Question and Answer Session 622
Biographies of Ralph E. Griswold and Madge T. Griswold 623

XIII Forth Session

THE EVOLUTION OF FORTH, *Donald R. Colburn, Charles H. Moore, and Elizabeth D. Rather* 625
Transcript of Presentation, *Elizabeth D. Rather* 658
Transcript of Question and Answer Session 668
Biographies of Elizabeth Rather, Donald R. Colburn, and Charles H. Moore 669

XIV C Session

THE DEVELOPMENT OF THE C PROGRAMMING LANGUAGE, *Dennis M. Ritchie* 671
Transcript of Presentation, *Dennis Ritchie* 687
Transcript of Question and Answer Session 696
Biography of Dennis M. Ritchie 698

XV C++ Session

A HISTORY OF C++: 1979–1991, *Bjarne Stroustrup* 699
Transcript of Presentation, *Bjarne Stroustrup* 755
Transcript of Question and Answer Session 764
Biography of Bjarne Stroustrup 769

XVI Forum on the History of Computing (April 20, 1993)

ISSUES IN THE HISTORY OF COMPUTING, *Michael S. Mahoney* 772
ARCHIVES SPECIALIZING IN THE HISTORY OF COMPUTING, *Bruce H. Bruemmer* 782
THE ROLE OF MUSEUMS IN COLLECTING COMPUTERS, *Gwen Bell (with additional editing by Robert F. Rosin)* 785
THE *ANNALS OF THE HISTORY OF COMPUTING* AND OTHER JOURNALS, *Bernard A. Galler* 789
AN EFFECTIVE HISTORY CONFERENCE, *Jean E. Sammet* 795
UNIVERSITY COURSES, *Martin Campbell-Kelly* 799
DOCUMENTING PROJECTS WITH HISTORY IN MIND, *Michael Marcotty* 806
ISSUES IN THE WRITING OF CONTEMPORARY HISTORY, *J.A.N. Lee* 808
FORUM CLOSING PANEL 810
Transcript of Question and Answer Session 825

Appendix A: What Makes History? *Michael S. Mahoney* 831

Appendix B: Call for Papers 833

Appendix C: List of Attendees 849

Appendix D: Final Conference Program 851

Index 857