SUNDAY, JUNE 26, 1983

RECEPTION: 7:30 pm - 10:30 pm

MONDAY, JUNE 27, 1983

SESSION 1 9:00 am - 10:00 am
Chaired by: David Wortman (Univ. of Toronto)

Organizing Software in a Distributed Environment
B. W. Lampson and E. E. Schmidt (Xerox PARC)

Visual Abstraction in an Interactive Programming Environment
M. L. Powell and M. A. Linton (U. C. Berkeley)

SESSION 2: 10:30 am - 12:00 noon
Chaired by: John R. White (Xerox PARC)

Compiling Functional Languages for von Neumann Machines
U. Honschopp, W. -M. Lippe, and F. Simon (Univ. Kiel)

Attribute Grammars and Data-Flow Languages
R. Farrow (Columbia Univ.)

A Programmer Controlled Approach to Data and Control Abstraction
J. Heinanen (Tampere Univ. of Tech.)

LUNCHEON 12:00 - 1:30 pm

SESSION 3: 1:30 pm - 3:00 pm
Chaired by: Stuart Feldman (Bell Laboratories)

Specification and Implementation of Resilient, Atomic Data Types
W. Weihl and B. Liskov (MIT)

An Analysis of Language Models for High-Performance Communication in Local-Area Networks
T. J. LeBlanc and R. P. Cook (Univ. of Wisconsin)

NIL: An Integrated Language and System for Distributed Programming
R. E. Strom, S. Yemini, and W. F. Burger (IBM)

SESSION 4: 3:30 pm - 4:30 pm
Chaired by Barbara Liskov (MIT)

Abstraction Mechanisms for Database Programming
J. W. Schmidt and M. Mall (Hamburg Univ.)

Action and Transaction Skeletons: High Level Language Constructs for Database Transactions
D. Ridjanovic (Univ. of Minn.) and M. L. Brodie (Comp. Corp. of Amer.)

TUESDAY, JUNE 28, 1983

SESSION 5: 8:30 am - 10:00 am
Chaired by: Lawrence A. Rowe (U. C. Berkeley)

Descartes: A Programming-Language Approach to Interactive Display Interfaces

SESSION 6: 10:30 am - 12:00 noon
Chaired by: Mary Shaw (Carnegie-Mellon Univ.)

Fable: A Programming-Language Solution to IC Process Automation Problems
B. K. Reid and H. L. Ossher (Stanford Univ.)

Who Needs Languages, and Why Do They Need Them
S. W. Smoliar and D. Barstow (Schlumberger-Doll Research)

The Design of OWL, a Language for Walking
M. D. Donner (Carnegie-Mellon Univ.)

LUNCHEON 12:00 - 1:30 pm

SESSION 7: 1:30 pm - 3:00 pm
Chaired by: James J. Horning (Xerox PARC)

Capsules
R. Zippel (MIT)

Data Abstraction in GLISP
G. S. Novak, Jr. (Stanford Univ.)

Type Hierarchies and Semantic Data Models
A. Albano (Univ. di Pisa)

PANEL: 3:30 pm - 5:00 pm

What Will be the Important Programming Language Ideas in the 1980s?

Moderator: Lawrence A. Rowe

Members: Butler Lampson, Terry Winograd
and others to be announced

RECEPTION 5:00 pm - 8:00 pm
Sheraton Palace Garden Court

WEDNESDAY, JUNE 29, 1983

SESSION 8: 8:30 am - 10:30 am
Chaired by: Brian Reid (Stanford Univ.)

Extensions to Static Scoping
G. V. Cormack (McGill Univ.)

Decentralised Control Flow BASEd on unIFX
I. G. Lima, R. Hopkins, L. Marshall, D. Mundy, and P. Treleaven (Univ. of Newcastle upon Tyne)

A Functional Shell
J. Shults (Univ. of Colo. at Boulder)

A High-Level Programming and Command Language
C. W. Fraser and D. R. Hanson (Univ. of Arizona)
INFORMATION

LOCATION

The SIGPLAN '83 Symposium on Programming Language Issues in Software Systems will be held at the Sheraton Palace Hotel in San Francisco, California. The Sheraton Palace is located on the corner of Market and Third, within easy walking distance of Union Square, the financial district, and major shopping areas.

San Francisco has a temperate marine climate. In June the average daily high and low are 65 and 53 degrees (F) respectively. Rain in June is rare; however, late afternoon or evening fog is always a possibility.

TRANSPORTATION

San Francisco is easily accessible by bus, train, or air. The Sheraton-Palace Hotel is approximately 15 miles from the airport. There is a direct "Airporter" bus to the Sheraton-Palace that leaves the airport approximately every 45 minutes between 7:45 am and 9:00 pm. The bus is marked "Financial District" and leaves from the lower level baggage claim areas of TWA or UNITED. The one-way cost is $5.00. In addition, there is an "Airporter" bus (leaving from the same locations) to the downtown terminal every 15 minutes between 6:15 am and 10:00 pm (and every 45 minutes from 10:00 pm until 2:30 am). This bus is marked "San Francisco" and will leave you at the downtown terminal (Taylor and Ellis Streets) from which a cab to the Sheraton-Palace should cost about $3.00. A private cab from the airport will cost about $20. For local commuters, the Sheraton-Palace is directly in front of the Montgomery Street BART Station.

ACCOMMODATIONS

A block of rooms has been reserved at the Sheraton-Palace for SIGPLAN '83 attendees. These rooms will be released after May 27, 1983 and will be available from that point on a first-come first-served basis. Make your room reservations before May 27, 1983 using the accompanying form. The hotel's telephone number is 415-392-8600. If you contact the hotel by phone, be sure to mention that your reservation is associated with the SIGPLAN '83 Symposium to receive the special room rate.

RECEPTIONS and LUNCHEONS

There will be a welcoming reception on Sunday, June 26th from 7:30 pm to 10:30 pm in the Gold Ballroom. A luncheon is planned for Monday and Tuesday. On Tuesday evening there will be a hosted wine and cheese reception in the Palace's Garden Court (a registered national landmark).

REGISTRATION FEE

The regular registration fee for the symposium includes the reception Sunday evening, two luncheons, the wine and cheese reception on Tuesday, refreshments during breaks, and a copy of the proceedings. The student registration fee includes the reception Sunday, refreshments during breaks, and a copy of the proceedings, but does not include the luncheons or the Tuesday wine and cheese reception. Some tickets for these latter two functions will be available.

LOCAL ARRANGEMENTS

John R. White and Sharon Johnson
Xerox Palo Alto Research Center
3333 Coyote Hill Road
Palo Alto, California 94304
Phone: 415-494-4507

ADVANCE REGISTRATION FORM

Please make check payable to SIGPLAN '83.

Return this form to:

John R. White
SIGPLAN '83
Xerox - PARC
3333 Coyote Hill Road
Palo Alto, California 94304

(Before June 20) (After)
ACM and SIGPLAN Member: $130 □ $145 □
Either ACM or SIGPLAN Member: 135 □ 150 □
Non-Member: 140 □ 155 □
Student: 50 □ 65 □
Author: 110 □ 125 □

Requests for refunds will be honored until June 20, 1983.

Name ________________________________
Affiliation ________________________________
Address __________________________________
City __________________ State __ Zip ______
Phone ________________________________

HOTEL RESERVATION FORM

SIGPLAN '83

Complete and Mail to:
Reservations Manager
Sheraton-Palace Hotel
639 Market at New Montgomery
San Francisco, California 94105

To confirm your reservation the Sheraton-Palace must receive this coupon by May 27, 1983. Reservations will be held until 6 pm. Rooms can be guaranteed for later arrival by including a check for the first night's rental or a major credit card number.

Accommodations desired: □ Single ($69) □Double ($79)
Arrival date ____ Time ___ AM/PM
Departure date ____ Time ___ AM/PM
Name ________________________________
Affiliation ________________________________
Address __________________________________
City __________________ State __ Zip ______

To guarantee reservation for late arrival:
□Check enclosed, or
□Major Credit Card __________________ Exp Date ______
No ________________________________

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