Joint Modular Languages Conference (Ulm, Germany, Sep 94)

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Joint Modular Languages Conference (Ulm, Germany, Sep 94) *lupper@informatik.uni-ulm.de* **(1994-07-05)**

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Joint Modular Languages Conference
"Modula-2, Oberon & Friends"
September 28th-30th, 1994
University of Ulm
Ulm, Germany

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Conference Sessions September 28th-30th, 1994:
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->>Keynote: The History of Modula-2, Prof. N. Wirth, ETH Zuerich
- Application & Education
- Large Software Systems
- Realtime Programming
- Distributed Systems
- From Modula-2 to Oberon
- Object-oriented Development using BETA & Eiffel
- Development Tools and Techniques
- Implementation and Porting Projects
- Language Design
- Compiler Issues
- Programming Models
- Formal Methods and Theory

Tutorials September 26th-27th, 1994:
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- C++ Tutorial, Sean Smith, University of Southampton
- Ada/Ada9x Tutorial, E. Schonberg & R. Drewar, University of New York
- Oberon Tutorial, Hanspeter Moessenboeck, University of Linz

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Information & Registration
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JMLC Conference Secretary
Verteilte Systeme, Informatik
Universitaet Ulm
Oberer Eselsberg O-27

D-89069 ULM, Germany

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Conference Theme
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The decisions on programming languages, tools and environments are of
crucial importance for the success of most scientific and commercial
data processing organisations. These decisions must take into account
local tradition but must also be based on broad and thoroughly
researched perspectives of current programming languages. Modular and
object-oriented languages will typically speed-up the process of
program development, stimulate reuse of existing code and simplify
maintenance or documentation of software systems. In practice,
however, commercially viable languages differ substantially with
respect to their implementation volume, programming performance and
fields of application.

The Joint Modular Languages Conference 1994 in Ulm provides an
opportunity for data processing professionals, programmers, teachers
and researchers to become aware of alternative and more recent
developments in the field of modular and object-oriented languages.
Relevant topics will be presented from both theoretical and practical
perspectives and adequate time is allocated for discussions. We
cordially invite professional programmers from all language
communities together with Pascal, Modula-2 and Oberon programmers to
join the conference and to share our and their experiences.

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Preconference Tutorials
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Three tutorials will introduce software engineers from one programming community to at least one alternative language environment (C++, Ada/Ada9x and Oberon). Each tutorial is a self contained course and discusses key concepts such as modularity, type consistency, classes, inheritance, and dynamic binding from a language specific point of view. The tutorials comprise 4 to 6 lecture hours and are augmented by laboratory exercises.

We reserve the right to limit the number of participants for each course. All lecturers are experienced university teachers and language implementors, guaranteeing a high level of expertise and teaching efficiency. They will be available for in depth questions throughout the conference. The conference secretariat will gladly send you a detailed description of all three courses.

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C++ Tutorial Monday, September 26, 1994 9.00 a.m.
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Lecturer: Sean Smith, University of Southampton

        History and rationale of C++
        Inheritance in C++
        Polymorphism Classes in C++
        C++ and the future
        Worked examples

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Ada/Ada9x Tutorial Monday, September 26, 1994 9.00 a.m.
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Lecturers: E. Schonberg & R. Drewar, University of New York

        Ada and Ada9x
        The type model
        Extension of types and classes
        Generic units
        Concurrency Packages and subunits
        Programming environment
        Exercises

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Oberon Tutorial Tuesday, September 27, 1994 8.30 a.m.
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Lecturer: Hanspeter Mssenbck, University of Linz

The Oberon language
The Oberon environment
Common techniques
Oberon-2 amendments
Object-oriented programming in Oberon-2
Writing extensible software
Examples, case studies
Extensive laboratory exercises

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Conference Programme
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*************** Wednesday, September 28, 1994 *****************

09:00 - 10:15 From Modula-2 to Oberon, P. Schulthess

   Welcome Address

->> Keynote: The History of Modula-2
      N. Wirth, ETH Zuerich

   Process Visualisation with Oberon System 3 and Gadgets
   E. Templ, A. Stritzinger, G. Pomberger

10:45 - 12:15 Programming Language Design, H. Mssenbck

   Restricted Multiple Inheritance
   A.E. Nedorya, E.V. Tarasov, A.D. Hapugin

   Sequential and Parallel Exception Handling in Modula-3:
   A Unifying Semantics Specification
   E.A. Heinz

   A Class Mechanism Supporting Subtype-check
   L. Xuedong, Z. Guoliang

Afternoon track 1:

13:30 - 15:00 Formal Methods and Theory, J. Farre

Object Design with Formal Classes
P. Andr, D. Chiorean, J.C. Royer

A Semantic Framework for Understanding the Behavior of Modules
and Classes in Programming Languages
M.H. Dodani, K.S. Gan

Teaching a Systematic Method of Program Development
C. Pronk, P.G. Kluit

15:30 - 17:00 Compiler Issues, A. Borchert

Dynamic Polymorphism: An Ada-Based Approach
J. Shen, G. Cormack, D. Duggan

Compiler Optimizations Should Pay for Themselves
M. Franz

Building an Optimizing Compiler for Oberon:
Implications on Programming Language Design
M.M. Brandis

Afternoon track 2:

13:30 - 15:00 Development Tools and Techniques, A. Corradi

Post Mortem Debugger for Oberon
M. Hof

Using Oberon to Design a Hierachy of Extensible Device Drivers
P.J. Muller

STUDIO: A Modular, Compiled, Actor-Oriented Language, Based upon
a Multitask Runtime System

A. Hadjadji, L. Frcon

15:30 - 17:00 Distributed Systems, P. Moylan

Object-Oriented Distributed Programming in the Oberon-PVM Environment
E. Bugnion, M. Gitsels, B.A. Sanders

Design of a Distributed Oberon System
S. Traub

Adding Parallel and Persistent Sets to Modula-3
L. Boeszoermenyi

17:05 - 18:00 Modula-2 Standardisation Panel, H. Klaeren

M. Woodman (Convenor WG 13) and Panel Members

19:00 - 20:30 Welcome Reception

*************** Thursday, September 29, 1994 *****************

09:00 - 10:15 O-O Development using BETA & Eiffel, J. Gutknecht
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Part Objects in the BETA Programming Language
B. Moller-Pedersen

Model-View-Controller Classes in Eiffel
M. Skipper

10:45 - 12:15 Programming Models, G. Pomberger

An Object-Oriented Functional Logic Language for the Oberon System
P. Dykstra

Modular Inheritance of Objects through Mixin-Methods
C. Lucas, P. Steyaert

Combining Different Implementations of Types in a Program
X. Franch

13:30 - 15:00 Application and Education, F. Schweiggert

Modelling and Developing DSP Algorithms in C++
J. Middleton, M. Al-Akaidi, P. Urwin

An Oberon-Based Implementation Tool
J. Lampe

Making the Transition from ADTs to Objects in Undergraduate
Software Engineering: A CASE-Based Approach
A.J. Peralta

15:30 - 17:00 Realtime Programming, J. Cooling

A Distributed Real-Time Architecture in Oberon-2
B. Kirk, L. Nigro

Writing Real-Time Applications in Modula-2
P.J. Moylan

Timing as a Programming-In-The-Large Issue
L. Nigro, F. Tisato

17:05 - 18:00 Oberon Standardisation Panel, B. Kirk

20:00 - 23:00 Conference Banquet

*************** Friday, September 30, 1994 *****************

09:00 - 10:15 Oberon and beyond, M. Al-Akaidi

Oberon P Perspectives of Evolution
J. Gutknecht

Towards End-User Objects: The Gadgets User Interface System
J.L. Marais

10:45 - 12:15 Large Software Systems, L. Nigro

A New Approach to Modularization of Large Object-Oriented
Systems
A. Belkhelladi, B. Lazzerini, F. Marcelloni

How to Structure Parallel Applications: Nested Local Aggregates
A. Corradi, L. Leonardi, F. Zambonelli

Capability Based Protection in a Persistent Object-Based
Programming Language
M. Hollins, J. Rosenberg, M. Hitchens

13:30 - 15:00 Implementation and Porting Projects, St. Collins
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Native Oberon on the PC Compatible (ISA) Platform
F. Arickx, J. Broeckhove, T. Van den Eede, L. Vinck

Alpha AXP/Open VMS (Modula|Oberon)-2 Compiler Project
G. Dotzel

Bringing the Oberon Language to the Macintosh
J. Gesswein, R. Ondrus, O. Schirpf

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Product Exhibition
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Tools for application development, software systems and books will be demonstrated during the conference.

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Companion Programme
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Ulm is a city with a rich history and many resources. First mentioned in 854, it has attractions such as the gothic Cathedral with the worldUs highest spire, the historic FishermenUs Quarter, the picturesque Town Hall, and the Danube river where it is still blue. Other facets of Ulm include the giant federal fortress built around 1850, truck and bus factories, industrial research centers, and the University with a world famous medical faculty. You will be able to discover the treasures of Ulm on a guided tour. We will show you the place where the flight of Albrecht Berblinger, one of the first aviators, failed in 1811. Another tour will take you to a romantic little town and the natural beauties surrounding Ulm, above all the Blautopf, end point and climax of a system of underground rivers, hundreds of kilometers long. Another highlight will be the boat tour on the Danube river with striking views of the medieval city.

We will try to share with you the beauty and culture of Ulm and make your time in Ulm worth remembering.

Wednesday, September 28, 1994

10:00 - 12:30 Tour of Ulm P historical city and gothic cathedral
14:30 - 16:00 Visit of baroque style library hall and Wiblingen
                        Monastery

Thursday, September 29, 1994

09:00 - 15:00 Daytour to the Blautopf spring, prehistoric museum
                        and sites

Friday, September 30, 1994

10:00 - 12:00 Boat tour on the Danube
14:00 - 16:00 Visiting the modern art sculptures on campus,
　　　　　　　tour of the science park and research institutes

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Programme Committee
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Andreas Borchert University of Ulm, Germany
Antonio Corradi University of Bologna, Italy
Brian Kirk Robinson Associates, UK
Franz Schweiggert University of Ulm, Germany
Gregor Snelting University of Braunschweig, Germany
Guenther Dotzel ModulaWare, Germany
Gustav Pomberger University of Linz, Austria
Hanspeter Moessenboeck University of Linz, Austria
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Juergen Uhl IBM, Germany
Libero Nigro University of Calabria, Italy
Marjan Spegel Stefan Institute, Slovenia
Marwan M. Al-Akaidi De Montfort University, UK
Randy Bush PSG, USA
Steven Collins Real Time Associates, UK
Wolfgang Hanika Daimler Benz, Germany
Wolfram Lippe University of Muenster, Germany

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Alfred Lupper OC Director, University of Ulm, Germany
Franz Schweiggert University of Ulm, Germany
Marwan Al-Akaidi De Montfort University, UK
Andreas Borchert University of Ulm, Germany
Jim Cooling University of Loughboruough, UK

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In Co-operation with
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Gesellschaft fuer Informatik e.V., Fachgruppe 2.1.3, 2.1.4
Schweizer Informatiker Gesellschaft, Fachgruppe Oberon
British Computer Society, Modular Languages SIG
Daimler Benz AG, Forschungszentrum Ulm
NC-Gesellschaft fuer neue Technologien
Forschungsinstitut fuer angewandte Wissensverarbeitung, Ulm
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Registration Form
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Yes, I want to join the Joint Modular Languages Conference in Ulm.

Name:

Name on Badge:

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Postal Code:

City:

Country:

Daytime Phone Number:

Fax Number:

E-mail Address:

[ ] Do not include my mailing address on meeting attendee lists.

Please mark [X] the sessions you want to attend and calculate the
total amount.

	Tutorials	Regular	Authors and SIG Members*	Students**
C++	[ ] DM 220	[ ] DM 220	[ ] DM 220	
ADA	[ ] DM 220	[ ] DM 220	[ ] DM 220	
Oberon	[ ] DM 220	[ ] DM 220	[ ] DM 220	
Conference	[ ] DM 360	[ ] DM 320	[ ] DM 50	
Banquet	[ ] DM 60	[ ] DM 60	[ ] DM 60	
Total	DM	DM	DM	

*) Members of involved GI, SI, and BCS SIGs should indicate their
affiliation number.

**) Full time students are asked to present their original student
card with picture at the conference registration desk. Student
price does not include conference proceedings.

Companion Programme	all persons
Wednesday	[ ] DM 20
Thursday	[ ] DM 40
Friday	[ ] DM 20
Total	DM

Total Conference, Tutorials, Banquet	DM
Total Companion Programme	DM

| After 25th of August add | DM |
| 10% for late registration! | |
===
| Total Amount | DM |
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