

Advance Announcement

International Conference on

Reliable Software

Technologies

Ada-Europe'97

2-6 JUNE 1997

THE TOWER THISTLE HOTEL, ST KATHARINE'S WAY,
LONDON, UK

The International Conference on Reliable Software Technologies, Ada-Europe'97, comprises a three-day technical programme and demonstrations from Tuesday to Thursday, with tutorials on Monday and Friday.

The Conference is sponsored by Ada-Europe, in cooperation with ACM SIGAda. The organisation and logistics are provided by Ada UK.

The Advance Programme includes Tutorial abstracts, details of the Technical papers, fee structure, registration form and hotel booking information.

To receive a copy of the Advance Programme, contact

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322 York, Y01 3GY, UK Tel: +44 1904 412740 Fax: +44 1904

426702 E-Mail: admin@adauk.org.uk WWW:

<http://www.sis.port.ac.uk/adauk/Ada-Europe/Conference/1997/>

TUTORIAL PROGRAMME

Monday 2 June:

09.30 - 17.30 (full day): **Mark Gerhardt & Doug Locke:** Real-time object oriented architecture

09.30 - 17.30 (full-day): **Mike Feldman:** Ada 95 as a foundation language for undergraduate programs

09.30 - 13.00 (half-day): **Tucker Taft:** Writing Java -compatible applets in Ada 95

14.00 - 17.30 (half-day): **Yvon Kermarrec & Laurent Pautet:** Programming distributed applications with Ada 95 and an inside look at the GNATDIST implementation

Friday 6 June: 09.00 - 17.00 (full-day):

Alfred Strohmeier & Thomas Wolf: Object-oriented programming with Ada 95

Magnus Kempe: Elements of software architecture with Ada 95

Ed Colbert: Object-oriented analysis & design for Ada 95 with Colbert's

object-oriented software development method

Bernard Carre & John Barnes: High Integrity Ada with Spark 95

Note that the following schedule for Technical Sessions is not yet finished

Technical Sessions

Tuesday 3 June:

9.30: **Keynote Presentation by Robert Dewar**

11.00: **ASIS, To understand software complexity**

Finite unions for Ada 95

Ada bindings for C interfaces

Development of scripting capabilities for an Ada-based simulator

Systematic unit-testing of Ada programs

14.00: **An Ada 95 sort race construction set**

CBT in teaching Ada

The SPIF project

Supporting Ada 95 passive partitions in a distributed environment

An Ada Library to program fault-tolerant applications

15.50: **Education Panel**

Semantics-based support tools for high integrity Ada software

An alternative toolset for analysis of Ada programs

Wednesday 4 June:

9.30: **Keynote Presentation by Tucker Taft**

11.00: **Implementing application-level sporadic server schedulers in Ada 95**

Capturing, verifying and implementing performance requirements for hard real-time systems

Towards a balance between syntactic constructs and structuring features in formalised OO methods

The dangers of inheritance

14.00: **Programming task termination in Ada 95**

Alias-induced erroneousness can be avoided

MARS'96 - Integrating HOOD, Ada and XinAda in a full Ada operational software project

Code-data consistency in Ada

15.50: **Managing Evolutionary Development Panel**

*Ada 95 as a base to architect systems in O4S
Including specification of non-functional information in Anna/Ada programs*

Thursday 5 June:

- 9.30: (Session schedule t.b.a.)
- 11.00: **T-Smart - Task-safe minimal Ada real-time toolset**
On programming atomic actions in Ada 95
- 14.00: **Static analysis and diversity in the software
development process - experiences with the use of
SPARK**
Techniques for testing Ada 95
- 15.50: **t.b.a.**