



International Conference on Reliable Software Technologies— Ada-Europe'99

<http://www.ada-europe.org/conference99.htm>

June 7-11, 1999

Hotel Santemar
Santander, Spain



Sponsors



ACT Europe



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Caja Cantabria



Universidad de Cantabria
Centro de Cálculo
ETSIT

Facultad de Ciencias
Dpto. de Electrónica y Computadores



CICYT

FINAL PROGRAMME

Conference Schedule

	Tuesday 8th	Wednesday 9th	Thursday 10th
	Salón Convención	Salón Convención	Salón Convención
9-9:30	Conference Welcome	Invited talk 2: The Evolving Architecture of GNAT	Invited talk 3: If the system fails you die, and it's your software: Do you fly?
9:30-10	Invited talk 1: An Architectural Perspective of Real-Time Ada Applications <i>Doug Locke, Lockheed Martin Corporation</i>	<i>Edmond Schonberg, New York University & ACT</i> Session Chair: Juan A. de la Puente	<i>George Romanski, AONIX</i> Session Chair: John Barnes
10-10:30	Session Chair: Ted Baker	High Integrity Systems Session Chair: Lars Asplund	Distributed Systems II Session Chair: Dirk Craeynest
10:30-11	Ravenscar Profile Session Chair: Ted Baker A Formal Model of the Ada Ravenscar Tasking Profile; Protected Objects <i>Kristina Lundqvist, Lars Asplund, and Stephen Michell</i>	Re-Engineering a Safety-Critical Application Using SPARK 95 and GNORT <i>Roderick Chapman, and Robert Dewar</i> An Ada95 Solution for Certification of Embedded Safety Critical Applications <i>Jacob Frost</i>	CORBA & DSA: Divorce or Marriage? <i>Laurent Pautet, Thomas Quinot and Samuel Tardieu</i> How to Modify the GNAT Frontend to Experiment with Ada Extensions <i>J.Miranda, F.Guerra, J.Martín, and A.González</i>
11-11:30	Coffee (Salón Roma)	Coffee (Salón Roma)	Coffee (Salón Roma)
	Salón Convención	Salón Convención	Salón Convención
11:30-12	Vendor Session	Vendor Session	Vendor Session
12-13:30	Software Architectures and Design Session Chair: Erhard Plödereder Architectural Frameworks: Defining the Contents of Architectural Descriptions <i>David Emery</i> Mapping Object-Oriented Designs to Ada <i>Alfred Strohmeier</i> Efficient and Extensible Multithreaded Remote Servers <i>Ricardo Jiménez-Peris, M. Patiño-Martínez, F. J. Ballesteros, and S. Arévalo</i>	Real-Time Scheduling and Kernels Session Chair: Alejandro Alonso The Ceiling Protocol in Multi-Moded Real-Time Systems <i>Jorge Real, and Andy Wellings</i> A “Bare-Machine” Implementation of Ada Multi-Tasking Beneath the Linux Kernel <i>Hongfeng Shen, Arnaud Charlet, and T.P. Baker</i> Implementing a New Low level Tasking Support for the GNAT Runtime System <i>José F. Ruiz, and Jesús M. González-Barahona</i>	Fault Tolerance Session Chair: Ángel Álvarez An Incremental Recovery Cache Supporting Software Fault Tolerance <i>P. Rogers, and A.J. Wellings</i> Shared Recoverable Objects <i>Jörg Kienzle, and Alfred Strohmeier</i> Fault Tolerance by Transparent Replication for Distributed Ada 95 <i>Thomas Wolf, and Alfred Strohmeier</i>
13:30-15:30	Lunch (Salón París)	Lunch (Salón París)	Lunch (Salón París)

	Tuesday 8th		Wednesday 9th		Thursday 10th	
	Salón Convención	Salón Agumar	Salón Convención	Salón Agumar	Salón Convención	Salón Agumar
15:30-16:30	Testing <i>Session Chair: Björn Källberg</i> Report on the VERA experiment <i>Bruno Hémeury</i> Acceptance Testing of Object Oriented Systems <i>Jose L. Fernández</i>	Formal Methods I <i>Session Chair: Fabrice Kordon</i> Environment for the Development and Specification of Real-Time Ada Programs <i>Apolinar González, and Alfons Crespo</i> Interprocedural Symbolic Evaluation of Ada Programs with Aliases <i>J. Blieberger, B. Burgstaller, and B. Scholz</i>	Tools <i>Session Chair: Sergey Rybin</i> MetaScribe, an Ada-based Tool for the Construction of Transformation Engines <i>Fabrice Kordon</i> An Adaptation of our Ada95/O2 Binding to Provide Persistence to the Java Language: Sharing And Handling of Data between Heterogeneous Applications using Persistence <i>Thierry Millan, Myriam Lamolle, and Frédéric Mulatero</i>	The role of Ada in HW/SW Codesign <i>Session Chair: Michael González</i> HW/SW Co-design of Embedded Systems <i>William Fornaciari, and Donatella Sciuto</i> Hardware/Software Embedded System Specification and Design using Ada and VHDL <i>Adrián López, Maite Veiga, and Eugenio Villar</i> System on Chip Specification and Design Languages Standardization <i>Jean Mermet</i>	Distributed Systems III <i>Session Chair: Luis Miguel Pinho</i> On the Use of Controlled Types for Fossil Collection in a Distributed Simulation System <i>Helge Hagenauer</i> Ada Binding to Shared Object Middleware <i>Johann Blieberger, Johann Klasek, and Eva Kühn</i>	Case Studies <i>Session Chair: Benjamin Brosgol</i> A Case Study in the Reuse of On-board Embedded Real-Time Software <i>Tullio Vardanega, Gert Caspersen, and Jan Storbank Pedersen</i> Development of Flight Control Software in Ada: Architecture and Design Issues and Approaches <i>Alfred Roszkopf</i>
16:30-17	Coffee (Salón Roma)		Browsing a Component Library Using Non-Functional Information <i>Xavier Franch, Josep Pinyol, and Joan Vancells</i>		Coffee (Salón Roma)	
17-17:30	Salón Convención	Salón Agumar	Coffee (Salón Roma)		Awards and concluding remarks (Salón Convención)	
17:30-18	Education <i>Session Chair: John McCormick</i> Railway Scale Model Simulator <i>Pierre Breguet, and Luigi Zaffalon</i> Ada 95 as a Foundation Language in Computer Engineering Education in Ukraine <i>Alexandr Korochkin</i>	Distributed Systems I <i>Session Chair: Alfons Crespo</i> yaRTI, an Ada 95 HLA Run-Time Infrastructure <i>Dominique Canazzi</i> An Ada95 Implementation of a Network Coordination Language with Code Mobility <i>Emilio Tuosto</i>	Salón Convención			
18-18:30			Formal Methods II <i>Session Chair: Alfred Strohmeier</i>			
18:30-19:30	City tour <i>(sponsored by: Banco de Santander)</i> Reception <i>(Sponsored by: Ayuntamiento de Santander)</i>		Ada-Europe General Assembly			
19:30-20:30			ACT Europe presents: Ada Olé! (Salón Social) <i>Lady Ada and Ed Schonberg</i>			
20:30-21						
21-23:30			Banquet (Restaurante Rhin)			

Tutorial Schedule

	Monday 7th				Friday 11th		
	Salón Agumar	Salón Saray	Salón Lisboa	Salón Cantabria	Salón Agumar	Salón Saray	Salón Lisboa
9:30-11	Tutorial 1	Tutorial 2	Tutorial 3		Tutorial 6	Tutorial 7	Tutorial 8
11-11:30	Coffee (Salón Social)				Coffee (Salón Social)		
11:30-13	Tutorial 1	Tutorial 2	Tutorial 3		Tutorial 6	Tutorial 7	Tutorial 8
13-15	Lunch (Salón París)				Lunch (Salón París)		
15-16:30	Tutorial 1	Tutorial 2	Tutorial 4	Tutorial 5	Tutorial 6	Tutorial 7	Tutorial 9
16:30-17	Coffee (Salón Social)				Coffee (Salón Social)		
17-18:30	Tutorial 1	Tutorial 2	Tutorial 4	Tutorial 5	Tutorial 6	Tutorial 7	Tutorial 9

Tutorial 1: Java for Ada Programmers

Benjamin M. Brosgol (Aonix)

Tutorial 2: Windows Development with Ada

Örjan Leringe

Tutorial 3: Software Interoperability: Principles and Practice

Jack C. Wileden (University of Massachusetts), and Alan Kaplan (Clemson University)

Tutorial 4: Building Ada Development Tools: ASIS and other GNAT Technologies

Cyrille Comar (ACT Europe), and Sergey I. Rybin (ACT Europe & Moscow State University)

Tutorial 5: MetaH—An Architecture Description Language For Building Avionics Systems With Ada

Bruce Lewis (US Army Aviation and Missile Command), and Dennis Cornhill (K&C Software Company)

Tutorial 6: High Integrity Ada—The SPARK Approach

John Barnes

Tutorial 7: FUSION: An Object-Oriented Development Method, with Mapping to Ada

Alfred Strohmeier

Tutorial 8: Ada & Java: A Manager's and Developer's Road Map

Franco Gasperoni (ACT Europe), and Gary Dismukes (Ada Core Technologies)

Tutorial 9: Using GNAT for the Java Platform

Emmanuel Briot (ACT-Europe), Gary Dismukes (Ada Core Technologies), and Franco Gasperoni (ACT Europe)

Exhibition

Tuesday 8th to Thursday 10th, **Salón Roma**



Meetings

Ada-Europe Board:

- Monday 7th, 14:30-18:00, *Salá de Juntas*
- Thursday 10th, 17:30-20:00, *Salá de Juntas*

Ada-Europe General Assembly

- Wednesday 9th, 18:30-19:30, *Salón Convención*

ISO meeting:

- Saturday 12th, 9:00-16:00, *Salón Saray*