

# Ada Conference UK 2006

*Building better, safer software*

28 March 2006

Lowry Hotel  
Manchester



Event operated by CSR,  
in cooperation with  
the Safety-Critical Systems Club:  
[www.safety-club.org.uk](http://www.safety-club.org.uk)

**CSR**

Event lead sponsor and advocate:  
[www.adacore.com](http://www.adacore.com)

AdaCore  
The GNAT Pro Company

## Vendor presentations and exhibitors

**AdaCore**  
The GNAT Pro Company

**ARTiSAN**  
SOFTWARE

**FM**  
First Matrix

**I-Logix**

**LDRA**  
Software Technology

**Objektum**



**tni**  
Europe



**ESTEREL**  
Technologies

**Green Hills**  
SOFTWARE, INC.

**IPL**

**LYNXWORKS™**

**PolySpace**  
TECHNOLOGIES



**VEROCEL**  
The Software Verification Company

**WIND RIVER**

### EXHIBITOR & SPONSORSHIP OPPORTUNITY

To find out more about your opportunities to exhibit at or sponsor this event, contact **Joan Atkinson** on +44 191 221 2222, or email [Joan.Atkinson@ncl.ac.uk](mailto:Joan.Atkinson@ncl.ac.uk)

# Building better, safer software

## Ada Answers

The Ada Conference UK 2006 is being organised to promote awareness of the Ada 2005 language revision, and to highlight the increased relevance of Ada in safety-critical programming.

Since its inception, Ada has been successful in systems where reliability is essential. Its application domains include aeronautics, air traffic control, aerospace, simulation, shipboard systems, railway systems, communications and many others. It is used in environments ranging from bareboard embedded devices to large-scale distributed real-time systems, and in multi-language software interfacing with languages such as C, C++, Fortran and Java. Ada is used worldwide, for both government and commercial systems, and is taught at colleges and universities where software engineering is an important focus.

This event is your opportunity to

*learn* about the latest revision of the Ada programming language, which introduces many improvements, notably:

- comprehensive support for real-time and high-reliability applications
- enhanced Object-Oriented Programming features
- generalised program structure and visibility control
- better access type facilities

*meet* colleagues from the Ada community and learn about innovative use of the language to overcome software engineering problems

*examine* a substantial range of technologies from the leading Ada toolset and service vendors

This high calibre Ada event is expected to attract many professional Ada users and reinforce links between all sections of the Ada community in the UK, creating a new momentum upon which to build a successful annual conference.

If you are using Ada now, or thinking of using it in the future,  
this is a conference you will not want to miss!

# Programme

0800 to 0915 - Registration

0915 to 1000 - Plenary Opening

**John Barnes** – *Introduction to Ada 2005*

1000 to 1100

**Pascal Leroy, IBM**  
*OOP & Structure Control*

**Franco Gasperoni, AdaCore**

**David Humphris, Aonix**

**George Romanski, Verocel Inc.**  
*Programming & Certifying Ada Software  
on an ARINC 653 Platform*

**Peter Kibble, Artisan**

1100 to 1130 – Coffee Break

1130 to 1230

**Alan Burns, University of York**  
*Real Time Issues*

**Ian Hodgson, Esterel**  
*Systems are from MatLab,  
Applications are from Ada*

**Chris Smith, Green Hills**

**Rod White, MBDA**  
*Building Safety-Critical/Certified Applications with Ada*

**Ian Gilchrist, IPL**  
*Software Testing –  
Don't Throw Baby out with the Bathwater!*

1230 to 1400 – Lunch

A buffet lunch will be served in the Exhibition Area,  
giving delegates a further opportunity to meet with technical providers

## Programme Continued

1230 to 1400 – Lunch

1400 to 1500

<p><b>Katherine Eastaughffe, Westinghouse</b> <i>Demonstrating Safety-Critical Properties of an Automatic Train Protection System</i></p>	<p><b>Jim Kelly, LDRA</b></p>
<p><b>Carl Sandom, iSys Integrity</b> <i>Safety-Critical Software Development: Looking for an Argument</i></p>	<p><b>Stuart Fisher, LynuxWorks</b></p>
	<p><b>Andy Bissell, Objektum</b></p>

1500 to 1530 – Coffee Break

1530 to 1630

<p><b>John Rowlands, BAE Systems</b> <i>Executable Modelling with UML and Ada: The X Factor</i></p>	<p><b>Ken Nathan, PolySpace</b> <i>When failure is not an option Eliminating Run Time Errors in Software – without the cost and time of exhaustive testing</i></p>
<p><b>Peter Amey, Praxis Critical Systems</b> <i>Mixed Criticality</i></p>	<p><b>Rod Chapman, Praxis Critical Systems</b></p>
	<p><b>Beverley McFarlane, Wind River</b></p>

1630 to 1715 - Plenary Closing

**Robert Dewar** – *Ada 2005 & High Integrity Systems*

## Hotel Details

The conference will take place at:

The Lowry Hotel	
50 Dearmans Place, Chapel Wharf	Tel: + 44 161 827 4000
Manchester, M3 5LH	Fax: + 44 161 827 4001

Located in the heart of Manchester, the award-winning Lowry Hotel is ideally situated for easy access to the railway station, airport and main shopping and commercial districts within the city. In addition to being Greater Manchester's first five-star hotel, it is also the first hotel in Manchester to become a member of The Leading Hotels of the World.

The property is part of the Chapel Wharf development on the banks of the River Irwell, next to Calatrava's landmark Trinity Bridge. The hotel design is light and contemporary, and all rooms are furnished for maximum comfort and ease for business and leisure guests alike. Facilities and personalised service have been given equal priority in order to ensure that guests enjoy the high standards synonymous with the Rocco Forte Hotels brand.

**Air:** There are daily direct international flights from Amsterdam, Brussels, Frankfurt, Paris and the USA, as well as from several UK airports. The journey time, by taxi, from Manchester airport to the conference venue is (approximately) 30 mins. For information on international or domestic arrivals, telephone +44 161 489 8000. For general airport enquiries telephone +44 161 489 3000. The airport website can be found at: [www.manchesterairport.co.uk](http://www.manchesterairport.co.uk)

**Rail:** London is only two hours away by train and the city is served by two main rail stations, Manchester Victoria and Manchester Piccadilly - which are supported by other stations around the city centre: Oxford Road, Deansgate and Salford Central. For train enquiries telephone +44 8457 484950.

## Places to Visit

Manchester Art Gallery - Mosley Street, Manchester, M2 3JL

tel: +44 161 235 8888, [www.manchestergalleries.org](http://www.manchestergalleries.org)

After a four year, £35 million transformation, Manchester Art Gallery re-opened in May 2002. The Gallery houses one of the world's finest collections, displayed in spectacular surroundings.

The Lowry - Pier Eight, Salford Quays, Salford, M50 3AZ

tel: +44 161 876 2000, [www.thelowry.com](http://www.thelowry.com)

The Lowry (not to be confused with the Lowry Hotel) is a spectacular home to the arts and entertainment with a wealth of activity under one roof. Inside this magnificent building you will find two stunning theatres. The galleries showcase changing exhibitions by one of Britain's best loved artists, LS Lowry, as well as paintings, sculpture and photography by artists of local, national and international renown.

Urbis - Cathedral Gardens, Manchester, M4 3BG

tel: +44 161 605 8200, [www.urbis.org.uk](http://www.urbis.org.uk)

Urbis is a new kind of museum, set in a dramatic glass building rising high above the centre of Manchester. Interactive exhibits lead you on a journey exploring life in different cities around the world. Urbis focuses especially on the cities of Los Angeles, Manchester, Paris, Sao Paolo, Singapore and Tokyo. Your visit to Urbis begins with a one minute sky glide in the Glass Elevator. With the city as backdrop, you can then explore the four cascading exhibition floors at your own pace. Urbis recommends that you allow at least ninety minutes for your visit.

Museum of Science and Industry - Liverpool Road, Castlefield, Manchester, M3 4FP

tel: +44 161 832 2244, [www.msim.org.uk](http://www.msim.org.uk)

The museum is partly based in the buildings of the oldest passenger railway station in the world. The huge seven acre site has five historic buildings packed with fascinating exhibitions, hands-on galleries, historic working machinery and superb special exhibitions.

# REGISTRATION FORM

## Ada Conference UK 2006

Lowry Hotel, Manchester  
28 March 2006

### PARTICIPANT *(Please complete in block capitals)*

Surname: ..... First Name: .....

Business Address: .....

.....

Telephone: ..... Fax: .....

E-Mail: ..... Any special dietary requirements: .....

### REGISTRATION

The conference fee includes lunch and refreshments and a copy of the handout material from the event.

You are able to reserve a room (on a bed and breakfast basis) at the venue hotel; for details see below. Please note: room availability is limited and the cut off date for reserving via Joan Atkinson is the 28<sup>th</sup> January 2006. For alternative hotel information, please see: [www.expotel.co.uk](http://www.expotel.co.uk)

Please  relevant boxes

	Conference & Lunch	Bed & Breakfast	
Monday 27 <sup>th</sup> March	N/A	£165	
Tuesday 28 <sup>th</sup> March	£140	£165	

Total Remittance due: £.....

**METHOD OF PAYMENT** (please circle one)    Mastercard    Visa    American Express

Credit Card Number: ..... Expiry date: .....

Cardholder Name: ..... Signature: .....

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I enclose a cheque in £ sterling  
(Cheques should be made payable to: University of Newcastle)

I will pay by Direct Transfer in £ Sterling to:    Sort Code: 20-59-42. Account number: 20177776  
Barclays Bank , Percy Street, Newcastle upon Tyne, NE1 4QL

*Cheques should be made payable to: The University of Newcastle upon Tyne – CSR*

### ADMINISTRATION

This form should be returned to Joan Atkinson, Centre for Software Reliability, Claremont Tower, University of Newcastle upon Tyne, NE1 7RU.

Tel: + 44 191 221 2222; Fax: + 44 191 222 7995; e-mail: [Joan.Atkinson@newcastle.ac.uk](mailto:Joan.Atkinson@newcastle.ac.uk)