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**Other events:**
*Mathematics of Program Construction* runs on Monday-Wednesday in Cottrell B4, and *Constructive Methods for Parallel Programming* runs on Wednesday in Cottrell B3. There are separate timetables for these workshops.

**Available Rooms:**
AMAST and ARTS talks take place in Cottrell lecture theatre V1. Tea and coffee will be served in room 2V3; extra lounge seating is provided in 2V2. Additional meeting space is available in seminar rooms 2B121 and 2B129.

**AMAST 2004 is sponsored by:** the Engineering and Physical Sciences Research Council; the London Mathematical Society; the Edinburgh Mathematical Society; BCS-FACS; Springer LNCS; Argyll, the Isles, Loch Lomond, Stirling and Trossachs Tourist Board; the Department of Computing Science and Mathematics, the University of Stirling; Stirling Council

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# AMAST 2004

## *10th International Conference on* Algebraic Methodology and Software Technology

**July 12th -16th 2004**
University of Stirling,
Scotland, UK

**Timetable**

# AMAST 2004 schedule of talks

| | Monday 12 | Tuesday 13 | Wednesday 14 | Thursday 15 | Friday 16 |
|---|---|---|---|---|---|
| 0900 | **9:15** welcome | **Batory**: A Science of Software Design | **Meyer**: Agent-Oriented Programming: where do we stand? | **Bidoit**: Glass Box and Black Box Views of State-Based System Specifications | **Jacobs**: Counting Votes with Formal Methods |
| 0930 | **Calder**: Abstraction for Safety, Induction for Liveness | | | | |
| 1000 | | **Moller & Struth**: Modal Kleene Algebra and Partial Correctness | **Garavel & Serwe**: State Space Reduction for Process Algebra Specifications | **Thati, Talcott et al**: Techniques for Executing and Reasoning about Specification Diagrams | **Imine, Molli et al**: Deductive Verification of Distributed Groupware Systems |
| 1030 | **Wang**: Model-Checking Distributed Real-Time Systems with States, Events and Multiple Fairness Assumptions | **Masse**: Abstract Domains for Property Checking Driven Analysis of Temporal Properties | **Contensin & Pierre**: Model-Checking Systems with Unbounded Variables without Abstraction | **Turner**: Formalising Graphical Behaviour Description | **van de Pol & Espada**: Modal Abstractions in μCRL |
| 1100 | coffee | coffee | coffee | coffee | coffee |
| 1130 | **Groote**: Process Analysis Tools for the Next Generation: the μCRL toolset | **Knapp, Merz et al**: On Refinement of Mobile UML State Machines | **Farzan, Meseguer et al**: Formal JVM Code Analysis in JavaFAN | **Heinemann**: A Hybrid Logic of Knowledge Supporting Topological Reasoning | **Brogi, Canal et al:** Behavioural Types and Component Adaptation |
| 1200 | | **Clavel, Marti-Oliet et al**: Formalizing and Proving Semantic Relations by Reflection | **Schroeder & Mossakowski**: Generic Exception Handling and the Java Monad | **Kuster-Filipe**: Modelling Concurrent Interactions | **Pierik & de Boer**: Modularity and the Rule of Adaptation |
| 1230 | **Fokkink & Pang**: Formal Verification of Timed Systems using Cones and Foci | **Derrick & Smith**: Linear Temporal Logic and Z Refinement | **Stenzel**: A Formally Verified Calculus for Full JavaCard | **Sims**: Extending Separation Logic with Fixpoints and Postponed Substitution | **Riemsdijk, Meyer et al**: Semantics of Plan Revision in Intelligent Agents |
| 1300 | lunch | lunch | lunch | lunch | lunch |
| 1330 | | | | | |
| 1400 | **Guelev**: Sharpening the Incompleteness of the Duration Calculus | **Jacobs, Marche et al**: Formal Verification of a Commercial Smart Card Applet with Multiple Tools | **Lindegaard & Haxthausen**: Proof Support for RAISE by a Reuse Approach based on Institutions | **1345:** Excursion to Callander and Loch Lomond | **Logozzo**: Separate Compositional Analysis of Class-based Object-oriented Languages |
| 1430 | **Bowman, Gomez et al**: A Tool for the Syntactic Detection of Zeno Timelocks in Timed Automata | **Fokkink, Groote et al**: Verifying a Sliding Window Protocol in μCRL | **Meseguer & Braga**: Modular Rewriting Semantics of Programming Languages | | **Kouchnarenko & Lanoix**: Verifying Invariants of Component-based Systems through Refinement |
| 1500 | **Mizuno, Mano et al**: Name-Passing Style GUI Programming in Pi-Calculus Based Language Nepi | **Benedikt & Bruns**: On Guard: Producing Run-Time Checks from Integrity Constraints | **Hunter, Robinson et al**: Flexible Proof Reuse for Software Verification | | **Hill & Vickers**: A Language for Configuring Multi-level Specifications |
| 1530 | tea | tea | tea | | tea |
| 1600 | **Donaldson, Miller et al**: SPIN-to-GRAPE: A tool for analysing symmetry in Promela models | **Denney & Venkatesan**: A Generic Software Safety Document Generator | **Backhouse**: Algebraic Approaches to Problem Generalisation | | **Jeannet & Serwe**: Abstracting Call-Stacks for Interprocedural Verification of Imperative Programs |
| 1630 | **Qin & Wu**: Action Refinement for Real-Time Concurrent Processes with Urgency | **Bujorianu & Boiten**: Towards Correspondence Carrying Specifications | | | **Shankland, Bryans et al**: Expressing Iterative Properties Logically in a Symbolic Setting |
| 1700 | bus leaves for Stirling Council Chambers | **Sun & Barbosa**: On Refinement of Generic State-based Software Components | | | **End of AMAST 2004** |
| 1730 | | | | | |
| 1800 | Provost's Reception (ends 1930) | | | Conference Dinner (return to Stirling 2130) | |