BABEL '01
Call for Papers

First Workshop on Multi-Language Infrastructure and Interoperability
`http://research.microsoft.com/~nick/babel01.htm`

Satellite to PLI'01

Firenze, Italy, 8th September 2001

Programme Committee

Nick Benton (chair)
Microsoft Research
Fergus Henderson
University of Melbourne
Andrew Kennedy (organiser)
Microsoft Research
Greg Morrisett
Cornell University
Martin Odersky
Ecole Polytechnique
Fédérale de Lausanne
John Reppy
Bell Labs
Andrew Tolmach
Portland State University
David Wakeling
University of Exeter

Invited Speakers

Zhong Shao
Yale University

Dates

Deadline for submission:
1st June 2001
Notification of acceptance:
9th July 2001
Final version due:
10th August 2001

Aims and Scope

Recent years have seen a resurgence of interest in multi-language tools and intermediate languages, and in interoperability between programs and components written in different programming languages. Shared infrastructure such as code generators, analysis tools and garbage collectors can greatly ease the task of producing a high-quality implementation of a new programming language, whilst being able to interoperate easily with code written in existing languages is essential for such an implementation to be useful in practice. This workshop aims to bring together researchers and developers working on multi-language integration. Contributions are welcome on topics including, but not limited to:

- Compilation of high level languages to common executable formats such as Sun's Java Virtual Machine, the DRA's ANDF or Microsoft's .NET Common Language Runtime.

- Defining and using bindings for component middleware such as OMG's CORBA or Microsoft's COM.

- Language constructs to support interoperability between different languages, particularly from different paradigms (e.g. OO/functional).

- Multi-language backends for compilation and/or analysis (e.g. MLRISC, FLINT, C–, TAL, SUIF).

- Type theoretic and semantic foundations for multi-language work.

- Multi-language development environments and tools (e.g. debuggers, profilers).

Submissions may address any programming paradigm. Experience papers which describe the use of multiple languages in application development are also welcome. Authors unsure of the appropriateness of a potential submission should email the PC chair (`nick@microsoft.com`).

Submission

Papers should be at most 14 pages and should be submitted in Ghostscript-compatible PostScript or PDF format and be printable on both US letter and A4 paper. Authors are strongly encouraged to use ENTCS style files (see `http://math.tulane.edu/~entcs/`). Papers should be submitted electronically from the workshop website given above. Submissions should not overlap significantly with work which has already been published or submitted to any other conference or journal. An informal proceedings will be published as a technical report and distributed at the workshop. It is intended that a final proceedings will be published in a volume of ENTCS.