Preface

This volume contains the papers presented at LFMTP 2006, the First International Workshop on Logical Frameworks and Meta-Languages: Theory and Practice. LFMTP 2006 merges two previous workshop series: LFM (workshop on Logical Frameworks and Meta-languages) and MERλIN (workshop on MEchanized Reasoning about Languages with variable BIndingIN). It was organized by the editors of this volume. There were 20 submissions of which the committee decided to accept 10.

The programme also includes an invited talk by Professor Gordon Plotkin, LFCS, University of Edinburgh. An abstract of this talk is included in the Proceedings as well.

Logical frameworks and meta-languages form a common substrate for representing, implementing, and reasoning about a wide variety of deductive systems of interest in logic and computer science. Their design and implementation and their applications, for example, to proof-carrying code have been the focus of considerable research over the last decade. The broad subject areas of LFMTP 2006 are:

- The automation and implementation of the meta-theory of programming languages and related calculi, particularly work which involves variable binding and fresh name generation.

- The theoretical and practical issues concerning the encoding of variable binding and fresh name generation, especially the representation of, and reasoning about, datatypes defined from binding signatures.

- Case studies of meta-programming, and the mechanization of the metatheory of programming languages and calculi, in particular focusing on experiences with encoding programming languages theory and instances of proof-carrying code or proof-carrying authorization.

The program committee of LFMTP 2006 consisted of:

Andrew Appel, Princeton University

Thierry Coquand, Goteborg University

Martin Hofmann, LMU Munich

Furio Honsell, University of Udine

Dale Miller, Inria Futurs

Alberto Momigliano, University of Edinburgh

Brigit Pientka, McGill University

Andrew Pitts, Cambridge University.

The editors would like to thank the other committee members for their input into all stages of the organization of LFMTP 2006. The papers were refereed by the program committee and by the following outside referees, whose help is also gratefully acknowledged.

Jeremy Avigad	Matthew Lakin
James Brotherston	Marino Miculan
Chad Brown	Ivan Scagnetto
Alberto Ciaffaglione	Ulrich Schöpp
Roy Crole	Carsten Schümann
Jamie Gabbay	Alwen Tiu
Fabio Gadducci	Christian Urban

Special thanks are also due to Marino Miculan – he knows why.

LFMTP 2006 has been held on August 16th, 2006 in association with FLOC06, the Federated Logic Conference, Seattle, August 10 - 22, 2006. In particular, LFMTP 2006 was co-sponsored by LICS and IJCAR. We are very grateful to the FLOC organizers, especially to Tom Ball, FLOC Co-chair, Gopal Gupta, FLOC Workshop Chair, Maria Paola Bonacina and Phil Scott, IJCAR and LICS Workshop Chairs respectively, who all worked very hard to make our life as workshop organizers easier.

Alberto Momigliano
Brigitte Pientka
September 30th, 2006