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Preface

This volume contains the *Proceedings of the 23rd Conference on the Mathematical Foundations of Programming Semantics (MFPS XXIII)*. The conference will be held at Tulane University, New Orleans, LA USA from April 11 through April 14, 2007, under the local arrangements of Michael Mislove (Tulane).

The MFPS conferences are devoted to those areas of mathematics, logic and computer science which are related to models of computation in general, and to the semantics of programming languages in particular. The series provides a forum where researchers in computer science and mathematics can meet and exchange ideas about problems, theories, challenges in the field. The series also strives to maintain breadth in its scope, and the conference promotes and encourages participation by researchers in neighboring areas.

The Organizing Committee for MFPS consists of Stephen Brookes (CMU), Achim Jung (Birmingham), Catherine Meadows (NRL), Michael Mislove (Tulane), and Prakash Panangaden (McGill).

The MFPS XXIII Program Committee members were

Samson Abramsky, *Oxford*Michael Mislove, *Tulane*Andrej Bauer, *Ljubljana*John Mitchell, *Stanford*Stephen Brookes, *CMU*Eugenio Moggi, *Genova*Pierre-Louis Curien, *CNRS & Paris 7*Laurent Regnier, *Marseille*Andrzej Filinski, *Copenhagen*Giuseppe Rosolini, *Genova*Marcelo Fiore (Chair), *Cambridge*Davide Sangiorgi, *Bologna*Achim Jung, *Birmingham*Philip Scott, *Ottawa*Masahito Hasegawa, *Kyoto*Daniele Varacca, *Paris 7*Ursula Martin, *QM London*James Worrell, *Oxford*Catherine Meadows, *NRL*Steve Zdancewic, *Pennsylvania*

The Program Committee selected nineteen papers for presentation at the meeting. Each submitted paper was reviewed by at least three referees, from the Program Committee or external. In addition to these contributed papers, the

conference will featured invited addresses by the following speakers:

Stephen Brookes, *CMU*

Jane Hillston, *Edinburgh*

John Mitchell, *Stanford*

Gordon Plotkin, *Edinburgh*

John Power, *Edinburgh*

The conference program also includes four special sessions as follows.

1. *Session Honoring Gordon Plotkin*, organized by Samson Abramsky (Oxford), with a plenary lecture by John Power (Edinburgh) and talks by Vincent Danos (CNRS & Paris 7), Klaus Keimel (Darmstadt), Prakash Panangaden (McGill), John Reynolds (CMU), and Moshe Vardi (Rice).
2. *Session on Systems Biology*, organized by Prakash Panangaden (McGill), with a plenary lecture by Jane Hillston (Edinburgh) and talks by Nadia Busi (Bologna), Vincent Danos (CNRS & Paris 7), Jean Krivine (INRIA) and Pat Lincoln (SRI).
3. *Session on Security*, organized by Catherine Meadows (NRL), with a plenary lecture by John Mitchell (Stanford) and four contributed talks.
4. *Session on Physics, Information and Computation*, organized by Keye Martin (NRL), with talks by Howard Barnum (Los Alamos), Bob Coecke (Oxford), Peter Hines (York), Keye Martin (NRL), and a contributed paper.

The meeting will also mark the occasion of the presentation of the Festschrift volume *Computation, Meaning and Logic* dedicated to Gordon Plotkin on the occasion of his 60th birthday.

On behalf of the Organizing Committee I would like to acknowledge the US Office of Naval Research and in particular Dr. Ralph Wachter for their continuing support of the MFPS series. ONR funding has been a crucial factor in the success of the series.

Marcelo Fiore
February 26, 2007