

# TFP 2011 Programme

12th Trends in Functional Programming, Madrid May 16th-18th 2011

## Monday 16th

- 08:30-08:45 Registration  
08:45-09:00 Opening  
09:00-10:00 **Session 1: Invited talk** (Chair: Ricardo Peña)  
Neil Mitchell. *Finding functions from types.*  
10:00-10:30 — coffee break —  
10:30-12:30 **Session 2: Types** (Chair: Ana Bove)  
Thomas Schilling. *Constraint-free Type Error Slicing.*  
Adam Gundry. *Type Inference for Units of Measure.*  
Julien Signoles. *An OCaml Library for Dynamic Typing.*  
Vladimir Komendantsky. *Subtyping by folding an inductive relation into a coinductive one.*  
12:30-14:00 — lunch —  
14:00-15:30 **Session 3: Static Analysis** (Chair: Henrik Nilsson)  
Maria Christakis, Konstantinos Sagonas. *Static Detection of Deadlocks in Erlang.*  
Attila Góbi, Olha Shkaravska, Marko Van Eekelen. *Size Analysis of Higher-Order Functions.*  
Stefan Holdermans, Jurriaan Hage. *Refinement Types for Pattern-match Analysis.*  
15:30-16:00 — coffee break —  
16:00-17:30 **Session 4: Compiling** (Chair: Kostis Sagonas)  
Edwin Brady. *Epic — A Library for Generating Compilers.*  
Laurence E. Day, Graham Hutton. *Towards Modular Compilers for Effects.*  
Jocelyn Serot, Greg Michaelson. *Compiling Hume down to gates.*  
18:00-19:00 TFP Steering Committee meeting

## Tuesday 17th

- 09:00-10:30 **Session 5: Distributed and Parallel Programming** (Chair: Kevin Hammond)  
Jean-Christophe Filliatre, K. Kalyanasundaram. *Functory: A Distributed Computing Library for Objective Caml.*  
Barnabas Kralik, Viktoria Zsok, Zoltan Istenes. *An Application of D-Clean Distributed Functional Programming for the Navigation of Robots.*  
Jost Berthold, Ken Friis Larsen, Fritz Henglein, Andrzej Filinski, Mogens Steffensen, Brian Vinter. *Functional High Performance Financial IT - The HIPERFIT Research Center in Copenhagen.*  
10:30-11:00 — coffee break —  
11:00-12:30 **Session 6: Parallel Programming** (Chair: Viktoria Zsok)  
Mustafa Aswad, Phil. W. Trinder, Hans-Wolfgang Loidl. *Architecture Aware Parallel Programming in Glasgow Parallel Haskell (GPH).*  
Christopher Brown, Hans-Wolfgang Loidl, Kevin Hammond. *Refactoring Parallel Haskell Programs.*  
Silvia Cléricali, Cristina Zoltán. *Exploiting Parallelism by Customizing Evaluation.*  
12:30-14:00 — lunch —

- 14:00-15:00 **Session 7: Data Structures** (Chair: Peter Achten)  
Michael Lesniak. *Thread-safe Priority Queues in Haskell based on Skiplists*.  
Milan Straka. *Adams' Trees Revisited - Correct and Efficient Implementation*.  
15:30-24:00 — Excursion to Toledo and social dinner —

### Wednesday 18th

- 09:00-10:30 **Session 8** (Chair: Marko van Eekelen)  
Marco T. Morazan. *The Time of Space Invaders Will Come to Pass: A Video Game Journey from Structural Recursion to Accumulative Recursion in CS1*.  
Jeroen Henrix, Rinus Plasmeijer, Peter Achten. *GiN: a graphical language and tool for defining iTask workflows*.  
Pieter Koopman, Rinus Plasmeijer. *Effective Test Set Generation*.  
10:30-11:00 — coffee break —  
11:00-12:30 **Session 9** (Chair: Jurriaan Hage)  
Gergely Dévai. *Restricted Function Patterns*.  
Germán Andrés Delbianco, Mauro Jaskelioff, Alberto Pardo. *Applicative Shortcut Fusion*.  
Christoph Herrmann, Edwin Brady, Kevin Hammond. *Dependently-typed Programming by Composition from Functional Building Blocks*.  
12:30-12:40 Farewell  
12:40-14:00 — lunch —  
14:00 End of TFP 2011