**Detailed Program**

**Tuesday March 29**

09:00 - Introductions

10:00 - Coffee Break - 45min

10:45 - Presentations - 2 long 4 short
Andrew Appel - short - DeepSpec, CertiCoq, Verified Functional Algorithms
Catalin Hritcu - long - Dependent Types and Multi-Monadic Effects in $F^*$
Matthieu Sozeau - short - Equations: a toolbox for function definitions in Coq
Rustan Leino - long - Automated verification of functional programs
Wouter Swierstra - short - Lazy BDDs
Gabriele Keller - short - A language based approach to system code verification

12:15 - Lunch - 2h15min

14:30 - Breakout sessions
Integrating formal methods tools in the curriculum
Grand Challenges
Hands on Tool Tutorials

15:30 - Cake Break - 1h

16:30 - Presentations - 1 long - 1 short
Reiner Hähnle - long - The Interactive Software Verification System KeY
Nobuko Yoshida - short - Scribble and its applications

17:00 - Breakout sessions
Integrating formal methods tools in the curriculum
Grand Challenges
Hands on Tool Tutorials

18:00 - Dinner

20:00 - Socialize with tools

**Wednesday March 30**

09:00 - Presentations - 2 long 1 short
Andreas Abel - long - Coinduction using copatterns and sized types
Brigitte Pientka - long - Programming Coinductive Proofs Using Observations
Katya Komendantskaya - short - Automated Proving for Type Inference, Constructively

10:00 - Coffee Break - 45min

10:45 - Presentations - 3 long 2 short
David Van Horn - long - Contract Verification and Refutation
Michael Greenberg - short - Verification by Optimization: Two Approaches to Manifest Contracts
Scott Smith - long - Demand-Driven Analysis for Functional Programs
Sam Tobin-Hochstadt - short - Occurrence Typing Modulo Theories
Dominic Orchard - long - From analysis-directed semantics to specifications-in-types
12:15 Lunch - 2h15min

14:30 - Presentations - 1 long 1 short
Richard Eisenberg - long - Dependentely typed programming in GHC 8
Amal Ahmed - short - Type-Preserving Compilation of Dependent Types

15:00 Excursion

18:00 Dinner

20:00 Socialize with tools

**Thursday March 31**

09:00 - Presentations - 2 long 1 short
Naoki Kobayashi - long - Program Verification Based on Higher-Order Model Checking
Martin Lange - short - Ramsey-based methods: size-change termination and satisfiability of temporal logics
Luke Ong - long - Higher-order horn clauses and higher-order model checking

10:00 - Coffee Break - 45min

10:45 - Presentation - 3 long 2 short
Jean-Christophe Filliatre - short - Deductive Verification with Why3
Hiroshi Unno - long - Refinement Caml: A Refinement Type Checking and Inference Tool for OCaml
Deepak Garg - long - Towards a type-theory for relational cost analysis
Niki Vazou - long - LiquidHaskell: Liquid Types for Haskell
Gowtham Kaki - short - Relational Reasoning about Higher-Order Shape Properties

12:15 Lunch - 2h15min

14:30 Breakout sessions
Implementation approaches
User Interaction
Types & Effects

15:30 Cake Break - 1h

16:30 Presentation - 1 long - 1 short
Tachio Terauchi - long - Temporal Verification of Higher-Order Functional Programs
Nadia Polikarpova - short - Program Synthesis from Refinement Types

17:00 Breakout sessions
Implementation approaches
User Interaction
Types & Effects

18:00 Dinner

20:00 Socialize with tools
**Friday April 1**

09:00 - Presentations - 2 long 1 short  
Conor McBride - long - Subtle points  
Jan Midtgaard - long - A Static Type Analysis for Lua  
Iavor S. Diatchki - short - Type Systems as Proof Strategies

10:00 - Coffee Break - 45min

10:45 - Breakout sessions report

12:15 Lunch - departure