

Verified trustworthy software systems

Wednesday 6 – Thursday 7 April 2016

Specialist meeting organised by Professor Philippa Gardner, Professor Peter O'Hearn,
Professor Mike Gordon FRS, Professor Greg Morrisett and Professor Fred Schneider

**Imperial College
London**

DAY 1				DAY 2			
Session 1		Session 2		Session 3		Session 4	
09:00	Peter Sewell Rigorous Engineering - What Can We Do? What Should We Do?	14:00	Derek Dreyer RustBelt: Logical Foundations for the Future of Safe Systems Programming	09:00	Gernot Heiser OS Kernel Design for Verification Security is No Excuse for Bad Performance	14:00	Mark Miller Frozen Realms: draft standard support for safer JavaScript plugins
09:30	Warren Hunt Specification and Verification of x86 machine-level code	14:30	Alastair Donaldson Metamorphic Compiler Testing	09:30	Adam Chlipala Bedrock and Fiat: Specifications and Proofs at the Centre of a Programming Ecosystem	14:30	Arthur Charguéraud An interactive debugger for the JavaScript specification
10:00	Anna Slobodova Formal Analysis of x86 micro-processor design at Centaur Technology	15:00	Chris Hawblitzel IronFleet: Proving Practical Distributed Systems Correct	10:00	Georges Gonthier Interactive Theorem Proving	15:00	Viktor Vafeiadis Validating optimizations of concurrent C/C++ programs
10:30	Coffee	15:30	Tea	10:30	Coffee	15:30	Magnus Myreen The CakeML project: overview and a new compiler backend
11:00	Andrei Sabelfeld Reconciling the Clash of Security Goals: Websites vs. Browser Extensions	16:00	Five-minute talks	11:00	Cristian Cadar Multi-version execution for improved software reliability and security	16:00	Tea & CLOSE
11:30	Lujo Bauer Accurate, Robust Metrics for Usable Security	17:00	Jérôme Feret An overview of the Astrée/AstréeA analyzer	11:30	Heiko Mantel Information-Flow Security for Concurrent Programs: Pitfalls, Solutions, and Challenges		
12:00	Alexandra Silva Probabilistic NetKAT	17:30	John Launchbury How Far Are We?	12:00	Pasquale Malacaria Information leakage analysis of complex C code and its application to OpenSSL		
12:30	Discussion	18:00	CLOSE	12:30	Discussion		
13:00	LUNCH	18:00	Welcome drinks at H- Bar, Imperial College London	13:00	LUNCH		