

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 | | | |
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| 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 | | |