



Welcome to

The Multicore Challenge 2013

Mike Bartley, TVS



- **The 4th (and biggest) Multicore Challenge**
 - Building on Bristol's long history of Multicore
- **Attending today**
 - Bristol 185 - SOLD OUT!!
 - Remote 67
 - 122 Companies in 14 countries

08.45 – 9.30	Arrival, Registration and Coffee		
09.30 – 09.35	Welcome – Mike Bartley		
09.35 – 10.20	Key Note Address David May, Bristol University - Heterogeneous Multicores? Why?		
10.20 - 11.20	Themed Presentations		
	Time	Theme	Speaker
	10.20 – 10.40	Low Power Challenges	Tim Lanfear, NVIDIA
	10.40 – 11.00	High Performance Challenges	Jim Cownie, Intel
	11.00 – 11.20	Heterogeneous Computing Opportunities	Anton Lokhmotov, ARM
	Moderated by Mike Bartley		
11.20 - 11.45	Morning Break		

11.45 – 12.30	Key Note Address Tony King-Smith, Imagination Technologies on “Heterogeneous Architectures”
12.30 – 13.00	Talks and lightning presentations for the posters for KTP projects and others Nathan Bremner , Durham University/Icona Solutions Ltd Simon Krige , Cresset Biomolecular Discovery Athanasios (Thanos) Grivas , Newcastle University / e-Therapeutics PLC Joseph Dobson , NAG & University of Manchester Moderators: Phil Williams and Jonathan Mitchener
13.00 – 14.00	Lunch (Posters available for Viewing)

		<h2 style="text-align: center;">Parallel Sessions</h2> <p style="text-align: center; font-size: small;">Delegates to chose which session to attend</p>		
14.00 – 15.00	<p>Heterogeneous</p> <ul style="list-style-type: none"> - Doug Watt, Imagination Technologies - Paul Keir, Codeplay - Greg Michaelson, Heriot-Watt University <p style="text-align: center;">Moderated by Greg Michaelson</p> <p style="text-align: right; font-weight: bold;">[Wye]</p>	<p>Low Power</p> <ul style="list-style-type: none"> - Anton Lokhmotov, ARM - XMOS, David Lacey - Kerstin Eder, University of Bristol <p style="text-align: center;">Moderated by Anton Lokhmotov, ARM</p> <p style="text-align: right; font-weight: bold;">[Itchen]</p>	<p>High Performance</p> <ul style="list-style-type: none"> - Tim Lanfear, NVIDIA - Jim Cownie, Intel - Simon McIntosh-Smith, University of Bristol <p style="text-align: center;">Moderated by Simon McIntosh-Smith</p> <p style="text-align: right; font-weight: bold;">[Severn]</p>	
15.00 – 15.30	<p>Afternoon Break</p>			

15.30 – 17.00	<h2 style="text-align: center;">Multicore Tools Demonstrations</h2> <p style="text-align: center;">Delegates to chose which 3 sessions to attend (25 minutes long – repeated every 30 minutes)</p>
	<p>Allinea (David Lecomber) [Pod]</p> <p>ARM (Karthik Hariharakrishnan) – Demos of GPU Compute capabilities on mobile platforms [Thames]</p> <p>Embecosm (Jeremy Bennett and Simon Cook) - The Adapteva Epiphany processor. Ultra-low power high performance computing [Pod]</p> <p>Imagination – Salvatore De Dominicis [Itchen]</p> <p>Intel (Stephen Blair-Chappell) - Programming for Intel Xeon Phi with Intel Parallel Studio [Wye]</p> <p>XMOS (David Lacey) [Pod]</p> <p>ZenoTech (David Standingford) [Pod]</p>
17.00 - 17.30	<h2 style="text-align: center;">Panel Discussion [Severn]</h2>
	<p>ARM, Anton Lokhmotov</p> <p>Imagination, Tony King-Smith</p> <p>Intel, Jim Cownie</p> <p>NVIDIA, Tim Lanfear</p> <p>University of Bristol, David May</p> <p>University of Bristol, Simon McIntosh-Smith</p>

- **Webinar**

Unable to broadcast all of today's sessions

- Parallel Session (High Performance)
- Tool Demonstrations (ARM, Imagination and Intel)

- **Post Event**

- Slides and recordings available on the TVS website

<http://testandverification.com/publications/published-articles/multicore-challenge/multicore-challenge-2013/>

- Refreshments and drinks
- Mobile phones
- Fire