IWOCL 2018

- 87 delegates from 13 countries
- 51 different organisations
- 33 submissions, 16 accepted papers
- 7 posters, 3 accepted workshops
  - DHPCC++
  - Programming FPGAs with OpenCL
  - Advanced Hands-On OpenCL
Conference Sponsors

We would like to thank the following companies who have done so much to help make IWOCL 2018 the success that it has been and we look forward to 2019!
Tuesday’s Agenda

09:00 – Keynote: Neil Trevett, NVIDIA & Khronos
10:00 – DCompute: Compiling D to SPIR-V …
10:30 – What’s New in SYCL 1.2.1
11:00 – Refreshment Break
11:30 – Optimizations for OpenCL on FPGAs
12:00 – Kernel-level Power Estimation on FPGAs
12:30 – Intel FPGA Host Pipe Extension to OpenCL
13:00 – Lunch
14:00 – Keynote: Andrew Richards, Codeplay
14:30 – Nuclear Reactor Simulation on OpenCL FPGA
15:00 – Advantages and Pitfalls of OpenCL in Computational Physics
15:30 – Refreshment Break
16:00 – Khronos Panel Discussion
17:30 – Sessions Close
19:30 – Conference Dinner
Conference Dinner

- 7:30pm drinks reception, 8:00pm dinner
- St Hilda’s College, Cowley Place, Oxford, OX4 1DY
  - About 1 mile, allow 30 minutes to walk from the conference venue.
- Vegetarian? See Tim at registration desk
- Directions: https://www.iwocl.org/iwocl-2018/venue-and-travel/
Wednesday’s Agenda

09:00 – Invited speaker: Jeff Lait, SideFX
09:30 – OpenCL Optimization and Best Practices for Qualcomm Adreno GPUs
10:00 – TensorFlow Acceleration on ARM Hikey Board
10:30 – CLBlast: A Tuned OpenCL BLAS Library
11:00 – Refreshment Break
11:30 – MatCL – A New Easy-to-Use OpenCL Toolbox for MathWorks Matlab
12:00 – clARMOR: A Dynamic Buffer Overflow Detector for OpenCL Kernels
12:30 – Improving Performance of OpenCL on Intel Processors via Profiling
13:00 – Lunch
14:00 – Highlighted presentation: Building a Brain with SYCL and Modern C++
14:30 – Debugging and Analyzing Programs Using the Intercept Layer…
15:00 – Enabling Profiling for SYCL Applications
15:30 – Refreshment Break & Open Discussion
17:00 – Sessions Close
Proceedings

• Slides will be on the website asap
  • Speakers, please email your slides to Tim!
• ACM proceedings already available:
  • https://dl.acm.org/citation.cfm?id=3204919
  • Thanks to Tom Deakin @ UoB & Authors
IWOCL History

2013 Atlanta
2015 Stanford
2017 Toronto
2014 Bristol
2016 Vienna
2018 Oxford
Adoption of parallel programming langs.
North America

13-15 May, 2019 (Provisional)
Final words

• Please use social media to promote IWOCL:

  • Twitter hashtag:  #IWOCL2018
  • Follow:  @IWOCL

• Sign up for regular OpenCL newsletter
  • http://www.iwocl.org/opencl-newsletter/
See you in 2019 and 🌻 THANK YOU FOR COMING 🌻