

Centre for High Performance Computing 2021 National Conference

Thursday 02 December 2021

HPC Technology (11:00-12:00)

-Conveners: Chair: Dr Samuel Mabakane (CHPC)

| time | [id] title | presenter |
|-------|--|-----------------------------------|
| 11:00 | [7] Introducing Cloud-Native Supercomputing: Bare-Metal, Secured Supercomputing Architecture | Mr SHAINER, Gilad SLAMA, David |
| 11:30 | [154] Update on High Performance Computing at HPE | Dr ROWETH, Duncan |

HPC Technology (12:15-13:15)

-Conveners: Chair: Dr Ricardo Harry (CHPC)

| time | [id] title | presenter |
|-------|---|---------------------|
| 12:15 | [170] Trends and challenges in HPC from Dell Technologies | Mr BUGGENHOUT, Kris |
| 12:45 | [133] HPC Cloud Use Cases and Best Practices | Mr FERSTL, Fritz |

HPC Technology: Storage & IO (14:00-15:00)

-Conveners: Chair: Dr Jay Lofstead (SANDIA)

| time | [id] title | presenter |
|-------|--|---------------------------|
| 14:00 | [15] Virtual Log-Structured Storage for High-Performance Streaming | Dr MARCU, Ovidiu-Cristian |
| 14:30 | [18] Evaluating and Characterizing Parallel I/O in HPC Systems: Best Practices and Future Directions | NEUWIRTH, Sarah |

HPC Technology: Storage & IO (15:15-16:15)

-Conveners: Chair: Dr Jay Lofstead (SANDIA)

| time | [id] title | presenter |
|-------|---|--------------|
| 15:15 | [97] SCTuner— an autotuner for I/O library | Dr XIE, Bing |
| 15:45 | [51] Leveraging New Interfaces to Low-Latency Storage | LOGAN, Luke |

Friday 03 December 2021

HPC Technology (12:15-13:15)

-Conveners: Chair: Dr Sean Murray (CHPC)

| time | [id] title | presenter |
|-------|---|------------------|
| 12:15 | [2] Prime Number algorithm for massively parallel Processor-in-memory machine | RABAGLIATI, Andy |
| 12:45 | [22] FPGA Acceleration of GWAS Permutation Testing | SWIEL, Yaniv |

HPC Technology: BoF Deep Learning Institute (14:00-15:00)

-Conveners: Chair: Dr Kevin McFall (Nvidia)

| time | [id] title | presenter |
|-------|--|---------------|
| 14:00 | [128] BoF: NVIDIA Deep Learning Institute – bringing AI and GPU-accelerated computing to Academic Institutions | MCFALL, Kevin |

HPC Technology: BoF Online Education: Surprises & Insights (15:15-16:15)

-Conveners: Chair: Mr Bryan Johnston (Chair)

| time | [id] title | presenter |
|-------|--|--------------------------------|
| 15:15 | [135] Online Education: Surprises and Insights | JOHNSTON, Bryan RAS, Verena |