

## **Session Program**

**4-7 Sept 2018**



## **European HTCondor Workshop 2018**

### ***Workshop presentations***

RAL, CR12, R68

Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell Campus Didcot  
OX11 0QX United Kingdom Tel: +44 (0)1235 445 000 Fax: +44 (0)1235 445 808 N 51° 34' 27.6" W 1°  
18' 52.6" (51.57433,-1.31462)

# Tuesday 4 September

14:00

**Workshop presentations**

**Session** |  
**Location:** RAL, CR12, R68, Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell  
**Compere:** [compere@rl.ac.uk](mailto:compere@rl.ac.uk) | [www.rl.ac.uk](http://www.rl.ac.uk) | United Kingdom Tel: +44 (0)1235 445 000 Fax: +44 (0)1235 445 808 N 51° 34' 27.6" W 1° 18' 52.6" (51.57433 -1.31462) |

**14:00-14:15 Welcome**

**Speaker**  
Andrew Sansum

**14:15-14:25 Welcome**

**Speaker**  
Miron Livny

**14:25-14:35 Logistics**

**Speaker**  
Catalin Condurache

**14:35-15:10 ClassAd Language Tutorial**

**Speaker**  
Gregory Thain

**15:10-15:35 Managng Cluster Fragmentation using ConcurrencyLimits**

**Speaker**  
Max Fischer

15:35

16:05

**Workshop presentations**

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**16:05-17:10 HTCondor Administration Tutorial**

**Speaker**  
Gregory Thain

**17:10-17:45 What defines a workload as High Throughput Computing**

**Speaker**  
Miron Livny

17:45

# Wednesday 5 September

09:00

## Workshop presentations

Session |

**Location:** RAL, CR12, R68, Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell

**Compensation:** CERN, UK, Ireland, United Kingdom Tel: +44 (0)1235 445 000 Fax: +44 (0)1235 445 808 N 51° 34' 27.6" W 1° 18' 52.6" (51.57433 -1.31462) |

09:00-09:25

### HTCondor command line monitoring tool

**Speaker**

Mr Davda Vipul

09:25-10:00

### What's New in HTCondor?

**Speaker**

Todd Tannenbaum

10:00-10:35

### HTCondor-CE Overview and Architecture

**Speaker**

James Frey

10:35

11:05

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11:05-11:30

### Scaling HTCondor at CERN

**Speaker**

Ben Jones

11:30-12:35

### Configuring Group Quotas, Policies, and Fair Share across Users with the HTCondor Negotiator

**Speaker**

Gregory Thain

12:35

14:00

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14:00-14:25

### DESY Features on Top of HTCondor

**Speaker**

Thomas Finnern

14:25-14:50

### Haggis: Accounting Group Management at CERN

**Speaker**

Mr Nikolaos Petros Triantafyllidis

14:50-15:25

### Networking Concepts in HTCondor

**Speaker**

James Frey

16:00	<p><b>15:25-16:00 Using Python to monitor and control HTCondor</b></p> <p><b>Speaker</b> John Knoeller</p>
16:30	<p><b>Workshop presentations</b></p> <p><b>Session</b>   <b>Location:</b> RAL, CR12, R68, Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell <b>Coordinates:</b> Ox11 0QX United Kingdom Tel: +44 (0)1235 445 000 Fax: +44 (0)1235 445 808 N 51° 34' 27.6" W 1° 18' 52.6" (51.57433,-1.31462)  </p>
	<p><b>16:30-16:55 HTCondor configuration with puppet</b></p> <p><b>Speaker</b> Dr Lukasz Kreczko</p>
	<p><b>16:55-17:30 Using Python to submit jobs</b></p> <p><b>Speaker</b> John Knoeller</p>
18:00	<p><b>17:30-18:00 Bringing together HTCondor, Python, and Jupyter</b></p> <p><b>Speaker</b> Miron Livny</p>

# Thursday 6 September

09:00

## Workshop presentations

Session |

**Location:** RAL, CR12, R68, Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell

**Compere:** [compere@stfc.ac.uk](mailto:compere@stfc.ac.uk) | [www.stfc.ac.uk](http://www.stfc.ac.uk) | [www.rdg.ac.uk](http://www.rdg.ac.uk) | [www.ukaea.ac.uk](http://www.ukaea.ac.uk) | [www.ukri.ac.uk](http://www.ukri.ac.uk) | United Kingdom Tel: +44 (0)1235 445 000 Fax: +44 (0)1235 445 808 N 51° 34' 27.6" W 1° 18' 52.6" (51.57433 -1.31462) |

09:00-09:35

### HTCondor Annex: Elasticity into the Public Cloud

**Speaker**

James Frey

09:35-10:10

### Key Challenge Areas for Distributed High Throughput Computing

**Speaker**

Todd Tannenbaum

10:10-10:35

### Day-to-day HTCondor Operations at RAL

**Speaker**

John Kelly

10:35

11:05

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11:05-11:30

### General Integration Issues

**Speaker**

Mr Stephen Jones

11:30-11:55

### Cloud scavenging with HTCondor in the EOSCpilot Fusion Science Demonstrator

**Speaker**

Dr Andrew Lahiff

11:55-12:30

### Config and Submit language

**Speaker**

John Knoeller

12:30

14:00

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14:00-14:35

### Workflows with HTCondor's DAGMan

**Speaker**

James Frey

14:35-15:10

### SciTokens: Moving away from identity credentials to capability tokens in HTCondor

	<p><b>Speaker</b> Todd Tannenbaum</p>
	<p><b>15:10-15:35</b>    <b>Pushing HTCondor boundaries: the CMS Global Pool experience</b></p> <p><b>Speaker</b> Antonio Perez-Calero Yzquierdo</p>
<p>16:00</p>	<p><b>15:35-16:00</b></p> <p><b>The CMS global pool, from a pilot-based to an heterogeneous mix of resources</b></p> <p><b>Speaker</b> Diego Davila Foyo</p>
<p>16:30</p> <p>18:00</p>	<p><b>Workshop presentations</b></p> <p><b>Session</b>    <b>Location:</b> RAL, CR12, R68, Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell  <b>Compensation:</b> CR12, R68, Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell  <b>Compensation:</b> CR12, R68, Science and Technology Facilities Council Rutherford Appleton Laboratory Harwell          United Kingdom Tel: +44 (0)1235 445 000 Fax: +44 (0)1235 445 808 N 51° 34' 27.6" W 1° 18' 52.6" (51.57433 -1.31462)  </p> <p><b>16:30-16:55</b></p> <p><b>A versatile environment for large-scale geospatial data processing with HTCondor</b></p> <p><b>Speaker</b> Dr Dario Rodriguez Aseretto</p> <p><b>16:55-17:40</b>    <b>Job and Machine Policy</b></p> <p><b>Speaker</b> John Knoeller</p> <p><b>17:40-18:00</b>    <b>RAL Tier-1 strategy - Growing the UK community</b></p> <p><b>Speaker</b> Alastair Dewhurst</p>

# Friday 7 September

09:00

## Workshop presentations

Session |

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09:00-09:25

### Monitoring HTCondor

Speaker

Todd Tannenbaum

09:25-10:00

### Put your jobs into a box: Using Cgroups, Docker, Singularity

Speaker

Gregory Thain

10:00-10:25

### Sharing group-owned clusters at the via a 'super'-collector/negotiator at the UNIMI Physics Department.

Speaker

Francesco Prelz

10:25

10:55

## Workshop presentations

Session |

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10:55-11:20

### Building a LIGO HTCondor site on top of a shared HPC cluster

Speaker

Dr Paul Hopkins

11:20-11:55

### Schedd Job Transforms

Speaker

John Knoeller

11:55-12:15

### Workshop wrap-up

Speaker

Helge Meinhard

12:15