

IHPCSS 2017 – Preliminary Agenda

Sunday, June 25			
16:00	Registration opens		
18:00	Instructions on mentoring (presenters/staff/mentors only)		
19:00 21:00	Welcome Reception		
Monday, June 26			
07:00 08:30	<i>BREAKFAST</i>		
08:15 08:45	<i>Testing of course accounts</i> Participants may also register at the school venue on Monday.		
08:45 09:00	Welcome		
09:00 10:00	Keynote by Amanda Randles, Duke University Biomedical Simulations		
10:00 10:45	Parallel programming methodologies; Introduce parallel programming challenge John Urbanic, PSC, US		
10:45 11:15	<i>BREAK</i>		
11:15 12:30	Introduction to mentoring; Introduction of participants		
12:30 13:30	<i>LUNCH</i>		
13:30	Hands-on session		
17:30	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> Parallel programming: classic track (MPI & OpenMP) </td> <td style="width: 50%; vertical-align: top;"> Parallel programming: accelerator track John Urbanic, PSC, US — Coffee break around 3pm — </td> </tr> </table>	Parallel programming: classic track (MPI & OpenMP)	Parallel programming: accelerator track John Urbanic, PSC, US — Coffee break around 3pm —
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	David Henty, EPCC, UK — Coffee break around 3pm —	
7:30 20:30	Dinner buffet & electronic poster session I The poster sessions will take place on Monday and Tuesday afternoon, therefore dinner will be held at the university. A buffet style dinner will be provided.	
Tuesday, June 27		
07:00 08:30	<i>BREAKFAST</i>	
09:00 09:55	Overview of ComputeCanada, PRACE, RIKEN, XSEDE <i>(10 min each organisation + 10 min general discussion)</i>	
10:00 10:40	High Performance Data Analytics Neal McBurnett, Univ. of Colorado, Boulder	
10:40 11:00	<i>BREAK</i>	
11:00 11:40	HPC challenges in Plasma and Astrophysics Frank Jenko, IPP Germany and UCLA, US	Workflow tools Scott Callaghan, University of Southern California, US (30 min + 10 min discussion)
11:45 12:30	Hands-on session Parallel programming: classic track (MPI & OpenMP) David Henty, EPCC, UK	Parallel programming: accelerator track John Urbanic, PSC, US
12:30 13:30	<i>LUNCH</i>	
13:30 17:30	Hands-on session Parallel programming: classic track (MPI & OpenMP) David Henty, EPCC, UK — Coffee break around 3pm —	Parallel programming: accelerator track John Urbanic, PSC, US — Coffee break around 3pm —

17:30 20:30	Dinner buffet & electronic poster session II The poster sessions will take place on Monday and Tuesday afternoon, therefore dinner will be held locally. A buffet style dinner will be provided.	
Wednesday, June 28		
07:00 08:30	<i>BREAKFAST</i>	
09:00 09:40	HPC approaches in Life Sciences I Erik Lindahl (Univ. Stockholm, Sweden) and Tom Cheatham (Univ. Utah, US)	HPC Challenge in Biomedical Engineering Stephanie Termaath University of Tennessee, Knoxville, US
09:45 10:25	HPC approaches in Life Sciences II Erik Lindahl (Univ. Stockholm, Sweden) and Tom Cheatham (Univ. Utah, US)	HPC approaches to Genomic signal processing Orly Alter, University of Utah, US
10:30 11:00	<i>Programming challenge / bring your own code / hands-on</i>	
11:00 11:30	<i>BREAK</i>	
11:30 12:30	Mentoring session	
12:30 13:30	<i>LUNCH</i>	
	Hands-on session	
13:30 17:00	Scientific visualization Vetria Byrd, Purdue Univ., US — Coffee break around 3pm —	HPC Python programming Ramses van Zon, Univ Toronto, Canada — Coffee break around 3pm —
17:00	Social Event / Dinner	
Thursday, June 29		
07:00 08:30	<i>BREAKFAST</i>	

09:00 09:40	HPC Challenges in Artificial Intelligence Research Kazuki Yoshizoe, RIKEN Center for Advanced Intelligence Project	A Brief History of Climate Modeling and its connection to HPC Warren Washington NCAR, Boulder, US
9:45 10:25	HPC Challenges in Materials Science Taisuke Ozaki, U Tokyo, Japan	Data-intensive computing and parallel I/O Ritu Arora, TACC, US
10:25 10:55	<i>BREAK</i>	
10:55 11:35	HPC software engineering (30min + 10 min discussion) Erik Lindahl, Univ. Stockholm, Sweden	
11:40 12:30	Mentoring session	
12:30 13:30	<i>LUNCH</i>	
	Hands-on session	
13:30 17:00	Performance analysis and optimization I Phil Blood, PSC, US and Christian Feld , JSC, Germany — Coffee break around 3pm —	
17:00	Social Event / Dinner	
Friday, June 30		
07:00 08:30	<i>BREAKFAST</i>	
09:00 10:30	Performance analysis and optimization II Phil Blood, PSC, US and Christian Feld, JSC, Germany	
10:30 10:55	Conclude Parallel Programming Challenge, Announce winners David Henty, EPCC, UK	

10:55 11:25	Break	
11:25 12:25	Mentoring	
12:30 13:30	<i>LUNCH</i>	
13:30 16:30	Hands-on session: Introduction to Spark John Urbanic, PSC, US	
Summer School ends at 4:30 PM		