2019 Parallel Computing Summer School Lecture Schedule

The ISTI Parallel Computing Summer School lectures are open to all badge holders. If space becomes limited, seating preference will be given to (i) the students participating in the summer school, (ii) their mentors, and then (iii) other badge holders.

Lectures are held in the NSEC Viz Collaboration Room (03-4200-101).

Check the Parallel Computing Lectures calendar ([https://tinyurl.com/ParallelLectures](https://tinyurl.com/ParallelLectures)) for updates and changes,

**Week 1**

**Wednesday, June 5th:**

“Intro to LANL High Performance Computing”
Terence Tarnowsky
1:00pm-3:00pm

**Thursday, June 6th:**

“Hardware Characterization”
Bob Robey
1:00pm-2:00pm

“Vectorization”
Bob Robey
2:00pm-3:00pm

**Friday, June 7th:**

“Effective OpenMP”
Yuliana Zamora
10:00am-1200pm

**Week 2**

**Monday, June 10th:**

“MPI”
Bob Robey
10:00am-1200pm

**Tuesday, June 11th:**

“Hardware/Software Interaction”
TBD
10:00am-1200pm
Wednesday, June 12th:
“Algorithms”
Bob Robey
10:00am-11:00am

“Performance Modeling”
Bob Robey
11:00am-12:00pm

Thursday, June 13th:
“GPU Overview”
Joe Schoonover
10:00am—12:00pm

Friday, June 14th:
“GPU Directive-Based Languages OpenMP OpenACC”
Joe Schoonover
10:00am-12:00pm

Week 3

Monday, June 17th:
“GPU Native Languages, CUDA and OpenCL”
Jonas Lippuner and Bob Robey
10:00am-12:00pm

Tuesday, June 18th:
“Performance Portability”
Bob Bird
10:00am-12:00pm

Thursday, June 20th:
“Kokkos”
Bob Bird
10:00am-12:00pm

Friday, June 21st:
“Build Systems”
Bob Robey
10:00am-11:00am

“Writing and Publishing:
Luke Van Roekel
11:00am-12:00pm

These two lectures will be in the JRO1 Room of the Study Center

“Reproducibility”
Bob Robey
1:00pm-2:00pm

“Software Development”
Bob Robey
3:00pm-4:00pm