

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>) 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