

Time	Day 1	Day 2	Day 3	Day 4
10:00 – 10:30	The Environment problem (Bader/Brietzke)	Generic type-bound procedures (Brietzke/Bader)	Interoperation with C (1) (Brietzke/Bader)	Advanced synchronization: Events and locks (Brietzke/Bader)
10:30 – 11:00				
11:00 – 11:30	Dynamic memory and object-based design (Brietzke/Bader)	Advanced I/O topics: DTIO, asynchronous processing (Bader/Brietzke)	Interoperation with C (2) (Bader/Brietzke)	Coarray-related program design aspects (Bader/Brietzke)
11:30 – 12:00				
12:00 – 12:30	Exercise Session 1 and Lunch Break	Exercise Session 3 and Lunch Break	Exercise Session 5 and Lunch Break	Exercise Session 7 and Lunch Break
12:30 – 13:00				
13:00 – 13:30				
13:30 – 14:00	Object oriented programming (1) Type extension and polymorphism (Bader/Brietzke)	Parameterized derived types	PGAS introduction and basic coarray features: declaration, communication, synchronization (Bader/Brietzke)	Composable parallelism with teams Coindexing rules Interoperation with MPI (Bader/Brietzke)
14:00 – 14:30		Creation and destruction of objects (Brietzke/Bader)		
14:30 – 15:00	Object oriented programming (2) Type- and object-bound procedures Dependency inversion with submodules (Brietzke/Bader)	Returning to the Environment problem (Bader/Brietzke)	Collectives dynamic memory management (Brietzke/Bader)	Fault tolerance (Bader/Brietzke)
15:00 – 15:30				
15:30 – 16:00	Exercise Session 2	Exercise Session 4	Exercise Session 6	Exercise Session 8
16:00 – 16:30				
16:30 – 17:00				
17:00 – 17:30				

Additionally, there will be a 5-minute break between talks that take 1 hour or more.