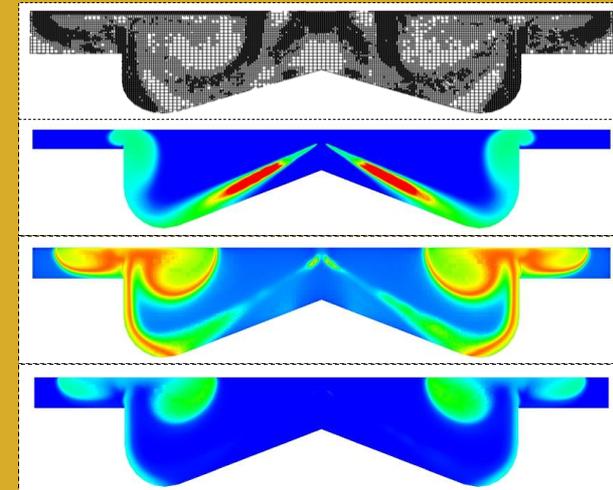
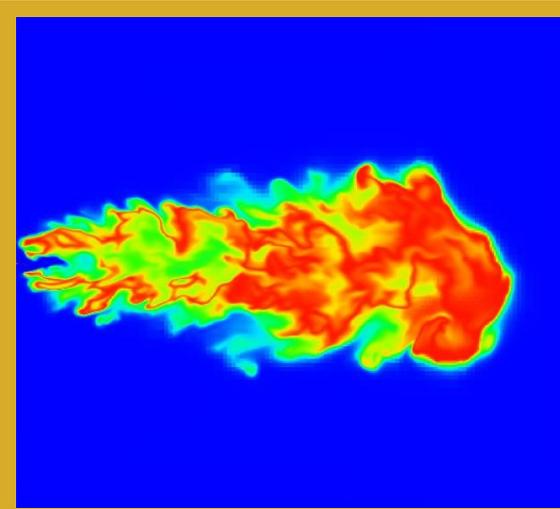


Welcome to VERIFI Workshop: Hands-on Session @ ALCF



Sibendu Som

Principal Mechanical Engineer - Argonne National Laboratory
Computational Fellow – University of Chicago

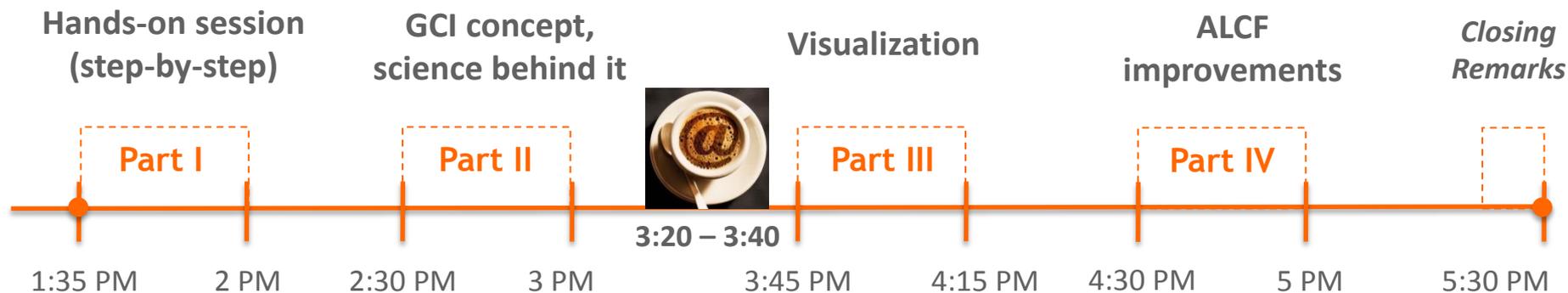
Objectives

- Introduction to Gasoline Compression Ignition Concept
- Login to a BlueGene machine and set-up engine simulations
- Launch multiple simulations (parametric sweep) on 1000s of processors
 - Such simulations may not be feasible on typical size clusters
- Realize the need and benefits of supercomputing for engine simulations
- Tips on how to scale up engine problems on massively parallel architectures
- Visualization using parallel computing
 - Paraview is free!
- Introduction to ALCF's unique capabilities for profiling codes etc.

- Ask questions to the experts
- Accounts will be active for 3 months, feel free to log back and restart the cases



Agenda



Marta Garcia
Assistant Computational Scientist
Catalyst Team
(LCF Division)



Janardhan Kodavasal
Postdoctoral Researcher
(ES/LCF Division)



Joseph Insley
Principal Software
Development Specialist
Visualization Team
(LCF Division)



Kevin Harms
Senior Software Developer
Performance Team
(LCF Division)



Sibendu Som
Principal
Mechanical Engineer
(ES Division)

