



GUEST LECTURE / PRESENTATION



Bob Robey

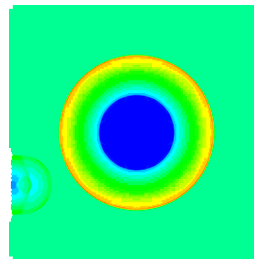
Computational Physicist / Programmer @
Los Alamos National Laboratory

WHEN: Monday Sept. 16, 2019 @ 4PM

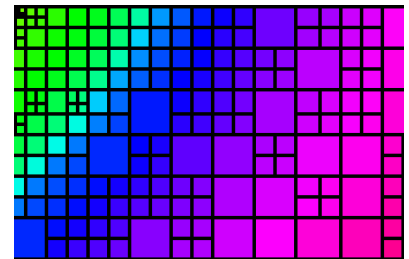
WHERE: Wall Building Room 210



“CLAMR: How students, fires, hashing, and Coastal Carolina University forged an adaptive mesh mini application”



(shock with anomaly)



(illustration of mesh refinement)

CLAMR: US DOE Hydrodynamics Proxy Application



Trinity Supercomputer @ LANL

#Cores:	R_max:	R_peak:	Power:
979,072	20	41.6	7.6
(count)	(PFLOPS)	(PFLOPS)	(MWatts)

Topics Include

Computational science, high-performance computing, some **internship opportunities** for summer 2020, **experiences from past CCU student interns** and **MORE!**





Bob Robey's Bio



Los Alamos National Laboratory
Computational Physics Division

Bob Robey is a Research Scientist in the Eulerian Applications group at Los Alamos National Laboratory. He is the lead author of CLAMR mini-app, an open source adaptive mesh refinement shallow water hydrocode. Some of his interests include **parallel algorithm research and computational physics methods research**. He has over 20 years of experience in shock wave research including the operation of large explosively driven shock tubes and writing compressible fluid dynamics codes.

He helped establish the High Performance Computing Center at the University of New Mexico and the Maui High Performance Computing Center. He has been one of the key contributors to the 2011-2014 X Division Summer Workshop program.

He is currently Board President of the New Mexico Supercomputing Challenge, a high school and middle school computational modeling program that has been going for 26 years. He is the leader of Venture Crew 20, a high-adventure co-ed program for ages 14 to 21 with activities that include white-water kayaking, rock-climbing, skiing and hiking.

