2017 LAMMPS User Workshop Albuquerque, NM 1 August 2017

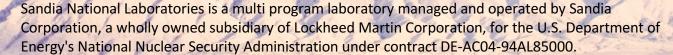
LAMMPS Users' Workshop Beginner's Tutorial Welcome!

Aidan Thompson
Matt Lane
Steve Plimpton
Mitch Wood
Stan Moore

Sandia National Laboratories, Albuquerque, NM

(many others)







Goals for today

- Start at square one and move quickly and coherently through to expert material.
- Combination of lecture and hands-on activity designed to get you going quickly with simple problems, while you develop your own simulations.
- Broadly sample what LAMMPS can accomplish, so that you can begin to think about how it applies to your own research ideas.
- Maintain "free time" so that you can network with each other and with staff to answer the questions your interested in.

Agenda

- 8:30 Welcome and agenda: Matt Lane, Sandia
- 8:35 General LAMMPS overview: Aidan Thompson, Sandia
- 8:50 Download, build, and run LAMMPS: Matt Lane, Sandia
- 9:10 Basic output post-processing: Aidan Thompson, Sandia
- 9:25 Visualization of results: Mitch Wood, Sandia
- 9:40 Break
- 9:50 LAMMPS input scripts, syntax and rules: Steve Plimpton, Sandia
- 10:15 LAMMPS capabilities force fields, ensembles, fixes and computes, load-balancing, on-the-fly viz, GPU acceleration
- 10:45 Hands-on-examples that come w/ LAMMPS Aidan Thompson, Sandia
- 11:30 Unstructured one-on-one exploration (until noon)



Group statistics

- ## Attendees / # Staff
- Platform
- ## Windows
- ## Macintosh
- ## Linux / Unix
- Environment
 - ## Academia
 - ## Industry
- Already running LAMMPS back home?
 - ## Semi-beginner