

The November HPC luncheon will be in the Lafayette room in the Purdue Memorial Union on November 6th from 11:30 - 1:00. Boxed lunches will be served at 11:45, presentation will begin at noon.

The topic of this luncheon will be an introduction to Automatic Differentiation. The guest speaker will be Dr. Paul Hovland, Mathematics and Computer Science Division, Argonne National Laboratory. The Title: An Introduction to Automatic Differentiation: Theory, Tools, and Applications

Abstract: Automatic differentiation is an established technique for computing local sensitivities of complex simulations. Modern automatic differentiation tools typically produce code that meets or exceeds the performance of hand-coded derivative computations. We describe the implementation of automatic differentiation tools, focusing on the OpenAD tool architecture. We discuss several applications of automatic differentiation and point to future directions for automatic differentiation research, development, and application.

Please RSVP to [Lindsay@purdue.edu](mailto:Lindsay@purdue.edu) by October 31, include if you have any dietary needs.

Thanks!  
Melanie