CobaltV2:
What would you do with a blank sheet of paper?

Abstract: The current Cobalt code base is over 20 years old. We are going to do a major re-architecture from the ground up. It isn't every day you get the opportunity to do a ground up redesign (more like once every 20 years) so how should we architect it? What scale do we design for? What are the challenges we should address? How do we future proof the design? This talk will discuss our thoughts on those questions as well as our ideas about how we will address those challenges, as well as generate a lot of great discussion and feedback.

Bio: Bill Allcock manages the Advanced Integration Group at the Argonne Leadership Computing Facility (ALCF) and has over 30 years of experience in a wide range of areas. In his current role, he is responsible for a team of software developers who develop several tools in use at ALCF, including the Cobalt Scheduler, Userbase user management system, sbank cluster accounting system and a number of internal reporting and management tools. Formerly, Mr. Allcock was the ALCF Director of Operations and a senior member of the Globus Project where he lead the development of GridFTP. Additionally, he has experience in storage systems, embedded systems development, image processing, consulting, Process Engineering, and 12 years as an Infantry Officer in the Wisconsin Army National Guard. When not working on computers he likes to make sawdust in his woodshop or disappear out into nature with his camera.