Speaker:
Frank Baetke, HPE

Title:
Towards Exascale with "The Machine" and "GenZ"

Abstract:
The talk will review innovative components like next generation memory interconnects, non-volatile memory and silicon photonics that play a key role in future system designs. HPE's "The Machine" will be used to bring those components into the context of an actual system implementation.

Related options and challenges at the level of system software, middleware and programming paradigms will also be addressed.

The talk will also focus on the GenZ consortium and its standardization efforts to create a next generation interconnect that will bridge existing solutions while enabling new unbounded innovation.