

## **MGHPCC as a Platform for MOC**

### **Abstract**

The MGHPCC is a high performance computing datacenter built to support the research computing needs of five Boston area universities: MIT, BU, Northeastern, Harvard and UMass. The center is a public/private venture and was constructed with funds from the five universities, the Commonwealth of Massachusetts, Cisco and EMC. If all that wasn't great enough, MGHPCC is also home to the MOC! In our 600 seconds, we will resist the urge to tell you everything that's awesome about the datacenter and will focus on some of the unique characteristics of the MGHPCC that make joint efforts like the MOC feasible. We'll highlight some of the ways we remain flexible and secure simultaneously and we will discuss some of the features that make us "green". Finally, we'll touch on some of "what's new" at the datacenter since the last MOC workshop.

### **Presenter**

**Jim Culbert, Director of IT Services**

#### **Massachusetts Green High Performance Computing Center**

Jim is the Director of IT Services at the Massachusetts Green High Performance Computing Center, a collaborative effort among MIT, Harvard, Boston University, Northeastern, University of Massachusetts in conjunction with the Commonwealth of Massachusetts, Cisco and EMC. The center is a 10MW computer facility located in Holyoke Massachusetts, an ideal location for computing in Massachusetts with ample land, inexpensive power and access to several high-capacity optical networks. Jim is responsible for making sure the facility meets the computing, security and operational requirements of our tenants. Jim's responsibilities also include the design and operation of data collection and control infrastructure including custom software used to monitor and optimize building performance. Jim has been with the MGHPCC project from the building design phase.

Jim has over 25 years of industry experience as a technology executive, project lead and, operations manager.

