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One year has passed and Blue Gene has been placed at several sites, many of which have a computational science component that involves iterative methods. In this talk, I will review some of the results obtained at some of these sites. I will elaborate on work underway with collaborators and colleagues in the area of computational science. For those unfamiliar with the Blue Gene System, I will very briefly describe the hardware and software environment.

I will describe how Blue Gene might be used to tackle multi-scale problems, many of which will need good parallel iterative solvers. While progress is being made, there remain many challenges for the computational science community to apply the Blue Gene resource to Big science problems with impact on society that until now or in current implementations have fallen short of the mark. Finally, I will elaborate on opportunities that exist for the community to get access to Blue Gene.