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INVITED SPEAKER: High Performance Computing Developments in South Africa and the Continent in support of increasing demands of Research

Thursday, 14 July 2016 11:00 (30 minutes)

**Abstract content
   (Max 300 words)
Formatting &
Special chars**

South Africa has a growing demand of computational resources to enable research in various domains of science and engineering. The research areas aim at addressing challenges and opportunities ranging from climate change, energy security, manufacturing, health and geographical advantages. As a response to these demands, the Department of Science and Technology has invested in National Cyber-Infrastructure, to accelerate progress in these fields. In this paper, success in deploying high-end computing resources in South Africa and the region, will be discussed. Furthermore, the paper will also address the steps taken in building the necessary human capital to support these developments. The recently completed petascale HPC system will also be presented.

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