A Retrospective of SciDAC:
Stories that Make the Program Unique
(Part I)

The DOE SciDAC Program …

- **Created in 2001, SciDAC is currently in its 4th cycle**
  - **SciDAC-1: 2001-2006**
  - **SciDAC-2: 2006-2011**
  - **SciDAC-3: 2011-2016**
  - **SciDAC-4: 2017-2021**

- **The SciDAC Program is different from other programs in many respects.**
  - **The funding model.**
  - **The emphasis.**

- **The differences make the SciDAC Program very unique.**

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SciDAC is Unique

- **Driving force: Enable and accelerate discoveries in scientific domains that are of interest to DOE**

- **Strong emphasis on multidisciplinary collaborations in domain science, computer science, and mathematics**

- **Strong focus on scientific problems that require high performance computing**

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About This Session …

- **This session is put together by a subcommittee under the SciDAC-4 Coordination Committee.**

- **The members are**
  - **Esmond G. Ng, LBNL (ASCR)**
  - **Lenny Oliker, LBNL (ASCR)**
  - **Teresa Head-Gordon, UC Berkeley & LBNL (BES)**
  - **Kate Evans, ORNL (BER)**
  - **David Hatch, Univ of Texas at Austin (FES)**
  - **Andreas Kronfeld, FNAL (HEP)**
  - **James Vary, Iowa State Univ (NP)**

The Panelists

- **CS Chang, PPPL**
- **Kate Evans, ORNL**
- **Scott Klasky, ORNL**
- **Aiichiro Nakano, Univ of Southern California**
- **James Vary, Iowa State Univ**

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Agenda

- **Two science stories**
  - **Prof. James Vary, Iowa State. University**
  - **Prof. Aiichiro Nakano, University of Southern California**
- **A success story from the computer science perspective**
  - **Dr. Scott Klasky, Oak Ridge National Laboratory**
- **Panel Q&A**