U.S. DEPARTMENT OF **ENERGY**

SciDAC Institutes

Still our focus

SciDAC Partnerships

FASTMATH

QUEST

SDAV

SUPER

Accelerator Science

Chemistry

Dark Matter

Earth System

Fusion Edge

Fusion Materials

Ice Sheets

LQCD

Materials
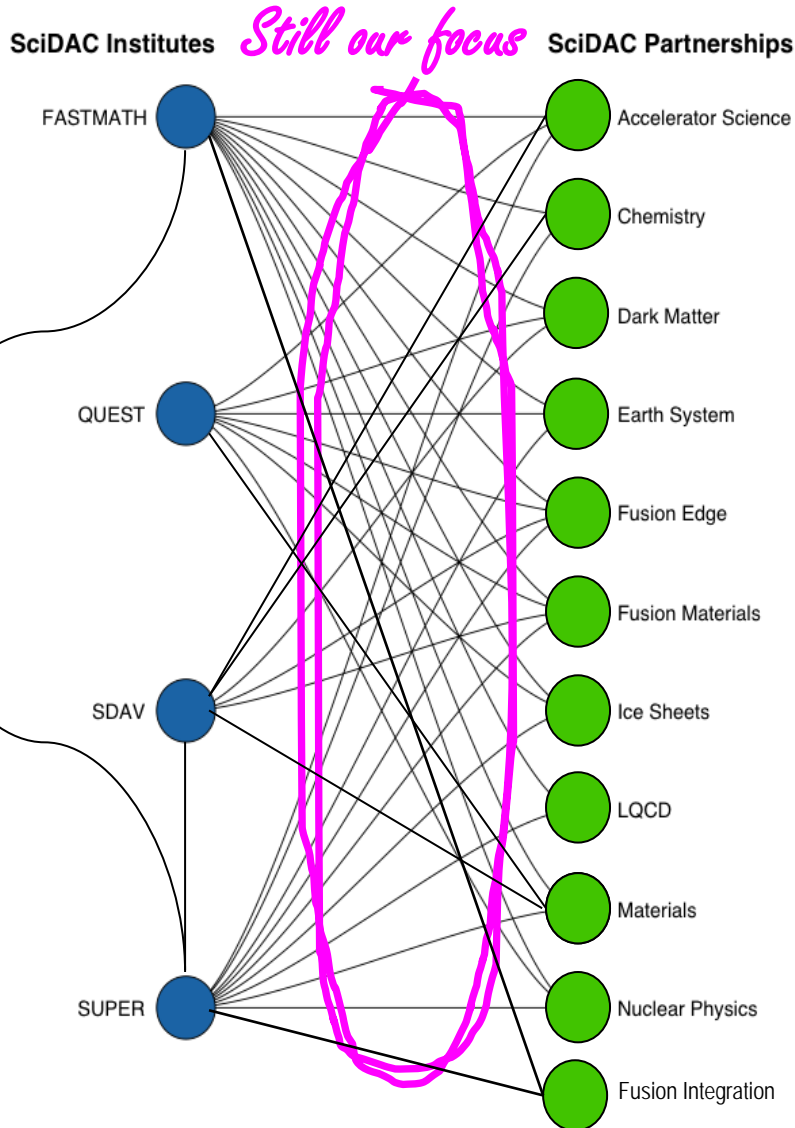
Nuclear Physics

Fusion Integration

4 SciDAC-3 Institutes

19 SciDAC-3 Partnerships

Earth System: one project terminated in FY2015

LQCD, Accelerator Science, Dark Matter, High Energy Physics: Three projects end & four projects start in FY2015

Assess the **efficacy and quality of the FY11-FY13 processes** used to:

- Solicit, review, recommend, and document proposal actions, and
- Monitor active award, projects and programs

Within the boundaries defined by DOE missions and available funding, comment on how the award process has affected:

- The **breadth and depth of portfolio** elements
- The degree to which the program is anticipating and **addressing emerging challenges from high performance computing and DOE missions**, and
- The **national and international standing** of the program with regard to other computational science programs that are also focused on harnessing high performance scientific computing and using massive datasets to advance science

- **Roscoe Giles** (Chair), Professor, Department of Electrical & Computer Engineering, Boston University

- **Thomas Clune**, Senior Computational Scientist, Advanced Software Technology Group (ASTG), National Aeronautics and Space Administration (NASA)

- **Jeff Greeley**, Associate Professor, School of Chemical Engineering, Purdue University

- **David Keyes**, Professor, Applied Mathematics and Computational Science, King Abdullah University of Science and Technology (KAUST)

- **Claudio Rebbi**, Professor, Department of Physics, Boston University

- **Charge Letter –** March 31, 2014 in ASCAC Meeting

- **COV Review –** October 6-7, 2014 in Germantown

- **COV Report/Draft –** November 21, 2014 in ASCAC Meeting

- **COV Response –** January 5, 2015

- **COV Response Presentation –** March 24, 2015

http://science.energy.gov/ascr/ascac/reports/

U.S. DEPARTMENT OF ENERGY

- Solicit, review, recommend, and document proposal actions
  - 3 Recommendations
- Monitor active award, projects and programs
  - No Recommendations
- The **breadth and depth of portfolio elements**
  - 3 Recommendations
- The degree to which the program is anticipating and **addressing emerging challenges from high performance computing and DOE missions**
  - 2 Recommendations
- The **national and international standing** of the program
  - No Recommendations

Bottom Line from SciDAC-3 COV Report

❖ SciDAC remains the gold standard for fostering interaction between disciplinary scientists and HPC. The PMs are to be commended on continuing the excellence of the SciDAC "brand."

❖ Informal conversations of the reviewers with overseas colleagues indicate that SciDAC is seen as a model program, which they wish could be replicated in their home countries.

- **Talks are projected from the meeting PC**
  - ➢ Please upload your presentations on the workshop web-site: http://www.orau.gov/scidac3pi2015/presenters.htm
  - ➢ Moderators: 20' 24' 30' & announce breaks

- **Poster session (Lenny Oliker): Today at 3:30-6:00 PM**
  - ➢ Please have all of the posters up by 3:30 pm today.

- **2 Working lunches: Today and tomorrow at 12:00-2:00 PM. Boxed lunches available for purchase both days.**
  - ➢ Today: "AURORA" by Susan Coghlan
  - ➢ Tomorrow: "SUMMIT" by Jack Wells