



U.S. DEPARTMENT OF
ENERGY

View from Washington and Germantown

Vincent Dattoria

**ESnet Program Manager, Facilities Division, Office of
Advanced Scientific Computing Research**

January 25th, 2012



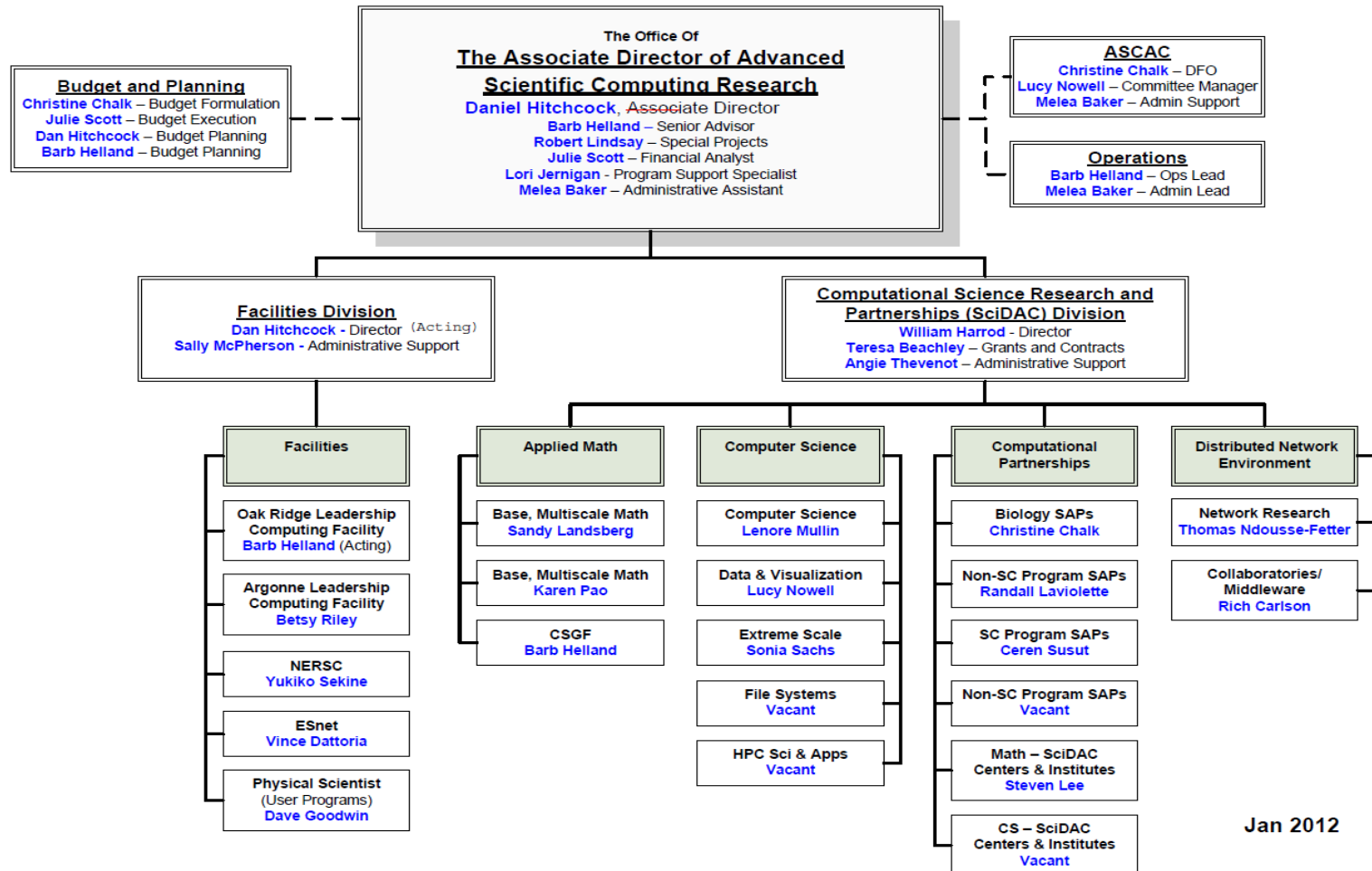
Talk Outline

- **ASCR Organization**
- **2012 ASCR Budget**
- **Computational Partnerships (SciDAC) FOAs**
- **Recovery Act Projects**
- **ASCR SBIR/STTR Proposals**
- **Notable Activities**



ASCR Org Chart

THE OFFICE OF ADVANCED SCIENTIFIC COMPUTING RESEARCH Functional Organization Chart





- **“Advanced Scientific Computing Research.-The conferees provide \$442,000,000 for Advanced Scientific Computing Research. The conferees support the exascale initiative, but note that future funding for the initiative is contingent upon delivery of the joint exascale plan, as directed. The conferees provide the budget request for the Leadership Computing Facilities and for High Performance Production Computing, in support of continuing petascale upgrades at the three facilities.”**



▪ **Recent SciDAC FOAs**

- Fusion Energy Science; Oct 11
- High Energy Physics; Jan 12
- Nuclear Physics; Jan 12
- Earth System Science (BER); Dec 11
- Scientific Data Management, Analysis and Visualization; Nov 11
- Materials and Chemical Sciences (BES); Mar 12

More information at,

<http://science.energy.gov/ascr/funding-opportunities/>

- ## ▪ **Contact members of the SciDAC team for further information** (Laviolette, Nowell, Lee, Suset)



- **Advanced Networking Initiative (ANI)**
 - End-to-end network testing
 - Science demonstrations at SC-11
 - Draft final report

- **Magellan; Final report at http://science.energy.gov/~media/ascr/pdf/program-documents/docs/Magellan_Final_Report.pdf**



■ Phase I:

- Revised FOA, 2 major topics, 4 subtopics each
 - Received 80 proposals 24 Network Tools, 56 HPC for manufacturing and engineering
 - 6 proposals declined in first-step reviews
 - 74 proposals peer reviewed
 - 242 reviews
 - 50 reviewers
 - 25 recommended for funding (\$3.5M)
- **SBIR allocation increased SBIR 2.6%, STTR 0.35%**
 - **Phase II FOA expected Feb 14, 2012 ~\$7.0M**
 - **Rich Carlson is ASCR Portfolio Manager.**

Upcoming-

- **Computer Science Resiliency Workshop (Catonsville, MD): Feb 21-24**
- **Extreme Solvers Workshop (Wash, AGU): Mar 8-9**
- **ASCR/NNSA Optical Network workshop (Wash, AGU), Mar 19-20**
- **ASCAC (Wash, AGU): Mar 27-28**
- **Exascale Research Principal Investigators Meeting (Portland, OR): April 16-20**

Recent-

- **ESnet/FES requirements workshop: Dec 8-9, 2011**
- **NGNS Scientific Collaborations for Extreme-Scale Science workshop : Dec 6-7 ,2011**