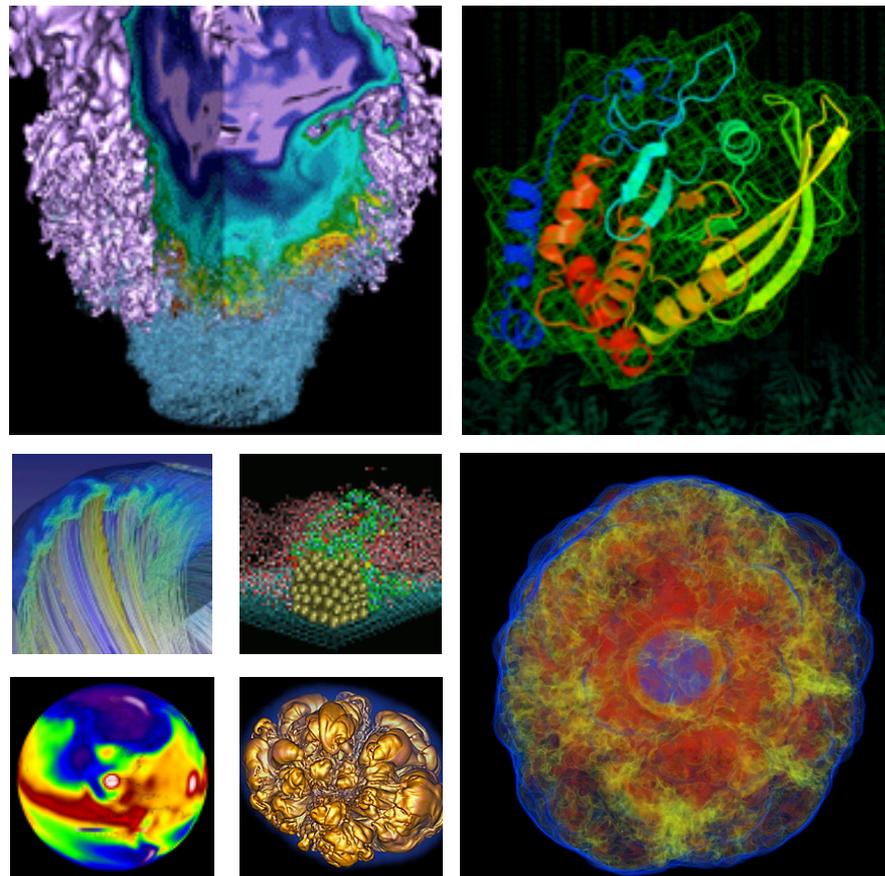


# NUG Teleconference Dec. 2012



December 4, 2012

- **System status update**
- **Edison update**
- **ERCAP / Allocations update**
- **Brief hello from new NERSC Director Sudip Dosanjh**
- **NUGEX elections**
- **Role of NUGEX members**
- **NUG face-to-face meeting in February**
- **Recap of HEP requirements meeting Nov. 27-28**
  - FES March 19-20, 2013

# System Status Update



- **No Hopper outages since scheduled maintenance on Nov. 13**
- **Only 1 (2?) Carver (and friends) batch problem since 11/21**
  - Latest software update greatly reduced problems
- **NGF instability has been alleviated**
  - OS upgrades on client systems
  - Completion of network upgrades
- **NERSC is continuing to monitor situation**
  - One minor Carver batch issue last night

# Edison Update



- **Edison Phase I has arrived!**
- **664 nodes, 10K cores**
- **Delivered Nov. 27**
- **4 compute cabinets installed and passed initial tests**
- **External network cabling in process**
- **1 scratch file system (1.6 PB) is being configured**



Early user access planned for Feb. 2013

1. Hand-picked small (~10) set of first users
2. Diverse set of ~30 applications
3. All NERSC users

Send requests for early time to [ragerber@lbl.gov](mailto:ragerber@lbl.gov)

# ERCAP/Allocations for 2013



- **Award letters scheduled for Dec. 14**
- **Process is on schedule**
- **1.25 billion hours to be allocated**
- **We anticipate all 2013 time on Edison will be “free”**
  - First early users on Phase I in Feb. 2013
  - Phase II planned for summer 2013

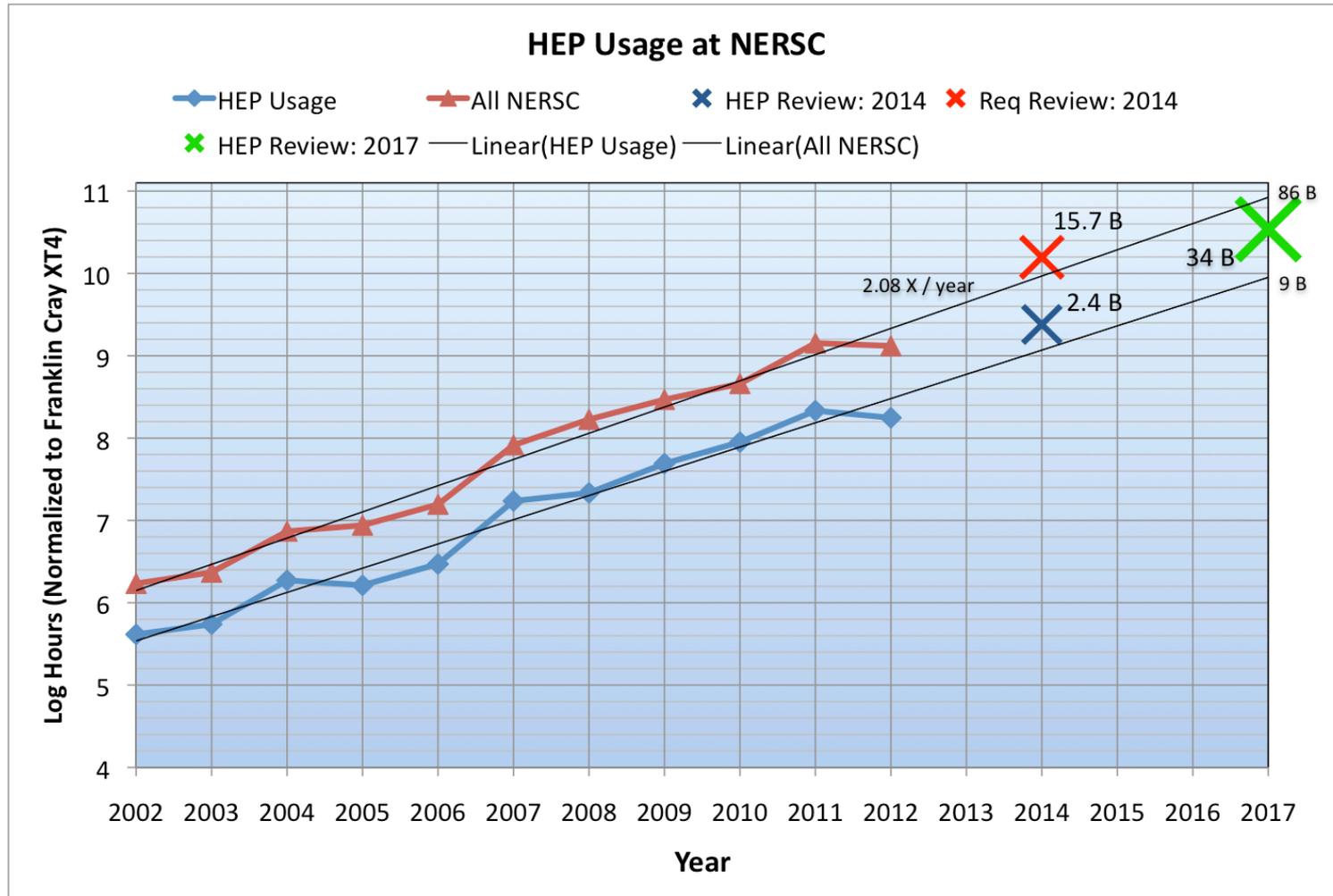
- **22 candidates for 11 positions**
- **Election dates: ?**
- **Candidate statements needed. Send to Frank Tsung?**
- **2011 sample ballot at**  
<https://www.nersc.gov/users/nersc-users-group/nugex-elections/2011/>
- **Role of NUGEX members**
  - What can we do to make you more active?
  - Auto invitations to your office's requirements reviews
  - What NERSC services can we offer? (e.g., slides for your presentations?)

- **Feb. 12-15, 2013**
- **Oakland and Berkeley, CA**
- **Tue., Feb. 12: Business Meeting @ Oakland facility**
  - Rename to make sound more inviting?
- **Wed., Feb. 13: Training Day 1 @ Oakland**
  - Focus on Edison & OpenMP
  - Target audience: intermediate to advanced
- **Thu. Feb. 14: Training Day 2 @ Oakland**
  - Getting started @NERSC: beginner
  - High Throughput Computing, TBD: beginner to intermediate
- **Fri. Feb. 15: “Science Day” @ Berkeley Lab**
  - Welcome keynote(s): Trends in HPC, NERSC roadmap/vision
  - Science keynotes: e.g. Climate? Cosmology? ??
  - 15-20 minute contributed talks (grad students/postdocs/whomever)

- **Computing, storage, services requirements: target 2017**
- **40 attendees**
  - 19 scientists (“traditional” and “opportunity” users)
  - DOE Office of Science Associate Directors James Siegrist (HEP) and Barbara Helland (ASCR, acting)
  - 10 DOE program managers from HEP & ASCR
  - 3 NSF program managers
  - 3 NERSC staff

- **Need for more computing cycles and fast-access storage**
- **Support for data-intensive science**
  - Improvements to archival storage
  - Analytics (parallel, DBs, services, gateways etc.)
  - Sharing, curation (I like “stewardship”), provenance
- **Support for High Throughput Computing**
- **Early access program for emerging architectures**
  - Testbeds
  - Training and support; helping with “application readiness”

# Preliminary HEP Usage and Requirements





**National Energy Research Scientific Computing Center**