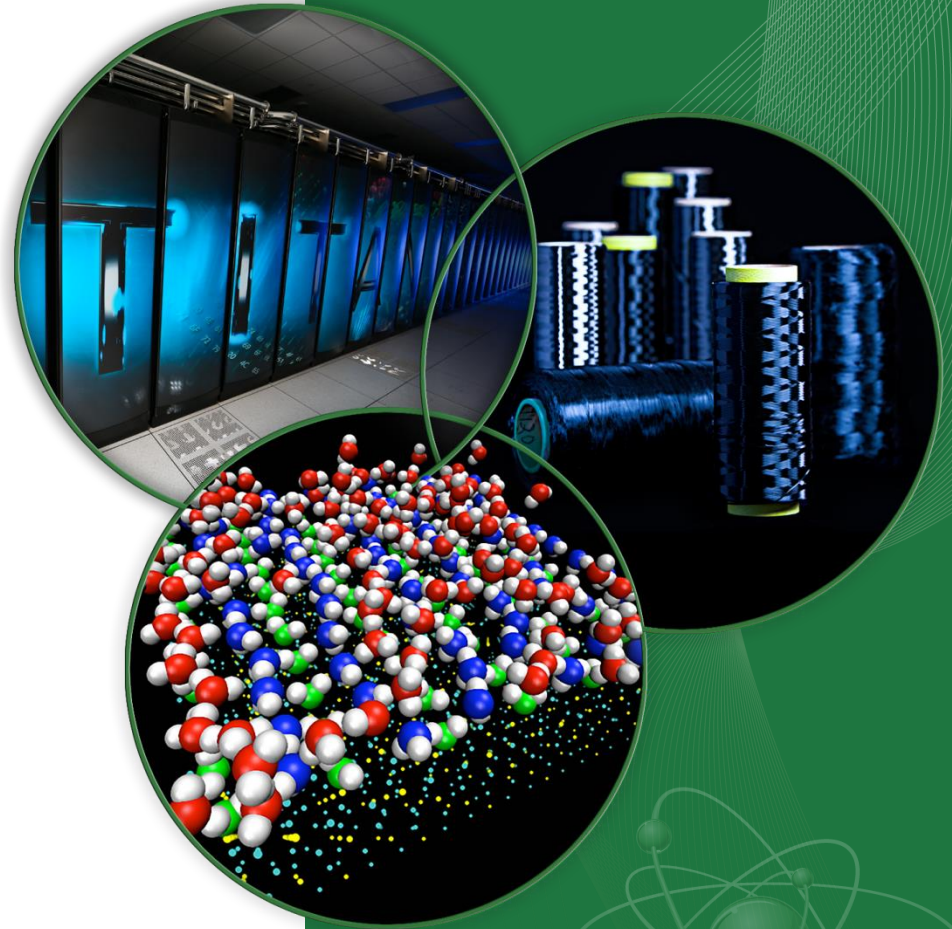


OLCF: Welcome New Users

Ashley Barker

Oak Ridge Leadership Computing Facility



What is the Oak Ridge Leadership Computing Facility?

- Collaborative, multi-lab, DOE/SC initiative ranked top domestic priority in *Facilities for the Future of Science: A Twenty-Year Outlook*.
- Mission: Provide the computational and data science resources required to solve the most important scientific & engineering problems in the world.
- Highly competitive user allocation programs (INCITE, ALCC).
- Projects receive 100x more hours than at other generally available centers.
- LCF centers partner with users to enable science & engineering breakthroughs (Liaisons, Catalysts).



Titan

Cray XK7

Currently #2 HPC Top 500

27 petaflops

299,008 Processor Cores

18,688 GPUs

OLCF Resources



Titan

- Cray XK7
- Currently #2 on HPC Top 500
- 27 PF
- 299,000 cores
- 18,688 GPUs



Eos

- Cray XC30
- 736 nodes
- 11,766 cores
- Prepare datasets for processing on Titan, analyzing results, and general processing



Rhea

- Linux cluster
- 512 nodes
- Used for pre and post processing



A Storage Area for Every Activity

- Home (NFS)
- Spider (Lustre scratch file system)
- HPSS (archival storage)

Coming Next: Summit

- 5x Titan's performance
- Available to users in 2018



- Summit talk on Thursday of OLCF User Meeting

More Facts about the Oak Ridge Leadership Computing Facility

- Average 250 projects per year
- Average 1,200 OLCF users per year
- OLCF users are spread out all over the globe and come from academia, national laboratories, other govt agencies, and industry and cover multiple science domains



Oak Ridge Leadership Computing Facility

Project Director – A. Bland

Deputy Project Director – J. Whitt

A. Barker, Training & Support Development

D. Bernholdt, Programming Environment and Tools

B. Hammontree, Facility Upgrades

J. Whitt, Project Management

J. Rogers, System Acceptance

K. Thach, Computer Infrastructure, Services, and Integration

J. Rogers, System Acquisition

T. Straatsma, Application Readiness

S. Oral – Storage System Evaluation

National Center for Computational Sciences

J. Hack, Director

L. Gregg, Division Secretary

Director of Science – J. Wells
Director, Computing & Facilities – J. Rogers
Operations Manager – S. McNally
INCITE Program Manager – J. White

**CCSD Asso. Projs.
Director**

K. Boudwin

Chief Technology Officer

A. Geist

Industrial Partnerships

S. Tichenor

Comp.Sci. Research⁵

D. Bernholdt
C. Sonewald

Programming and Runtime

S. Boehm
M. Gorentla-Venkata
O. Hernandez[#]
C. Kartsaklis
T. Naughton
P. Shamis
G. Vallee

Performance and Correctness Tools

S. Boehm
M. Brim[#]
N. Forrington¹
T. Janjusic²
C. Kartsaklis
F. Winkler¹

Adv.Data & Wrkflws

J. Hack (Interim)
L. Gregg

V. Anantharaj

J. Daniel
J. Harney
B. Hernandez
Arreguin
S. Klasky⁵
M. Matheson
N. Podhorszki⁵
D. Pugmire⁵
B. Smith
D. Stansberry

User Assist. & Outreach

A. Barker
S. Mowery

Outreach

J. Gary[#]
E. Gedenk⁵
J. Hines⁵
J. Rumsey⁵
J. Smith⁵

User Supp't

F. Foertter
R. French
C. Fuson[#]
S. P-Koon
W. Renaud
A. Simpson
V. V-Larrea

UA Dev.

A. Carlyle[#]
T. DiGirolamo
B. Gajus⁵
T. Groff¹

Projects, Accts, Tours, Sp. Events & Publication

A. Barker[#]
L. Rael
S. Ray
D. Rose
S. Stiles

Technology Integration

S. Vazhkudai
S. Mowery

HPSS

T. Barron
M. Griffith
D. Steinert
V. White[#]

NVM

Y. Kim[#]
Hyogi Sim²
C. Wang

Sys Arch.

S. Atchley[#]
S. Gupta⁷
R. Miller
D. Tiwari
C. Zimmer

Data, SNS, Climate

J. Harney
Brian Smith
D. Stansberry

File Sys I/O

R. Gunasekaran
R. Miller
S. Oral[#]
J. Simmons
D. Tiwari
F. Wang
C. Wang
C. Zimmer

Scientific Computing

T. Straatsma
P. Ticknor

INCITE

V. Anantharaj⁵
M. Berrill
E. D'Azevedo⁵
M. Eisenbach
J. Hill[#]
A-P. Hynninen
G. Jansen
W. Joubert
Y. Li
D. Liakh
B. Messer
M. Norman
D.

Post Docs

M. Chen
S. Laosooksathit
T. Papatheodore

CAAR

E. D'Azevedo⁵
J. Hill
A-P. Hynninen
G. Jansen
Y. Li
D. Liakh
M. Norman
B. Messer[#]
R. Sankaran

OLCF4- COE

W. Joubert[#]
J. Larkin[^]
A. Simpson⁵
A. Vose[^]

High Performance Comp Ops

K. Thach
S. Allen

Clusters

C. England[#]
S.. Shpanskiy
L. Sorrillo

Cyber Security

R. Adamson[#]
K. Bivens
E. Gershman

HPC

M. Bast
M. Ezell
D. Maxwell[#]

Infrastructure

R. Gainey¹
M. Gyurgyik
J. Kind[#]
S. Koch
V. Martin
R. Ray
S. Simmerman⁵

Networking

C. Newman
D. Pelfrey
B. Sparks

Storage - HPSS

J. Anderson
Q. Mitchell
S. White

Cray, Inc.

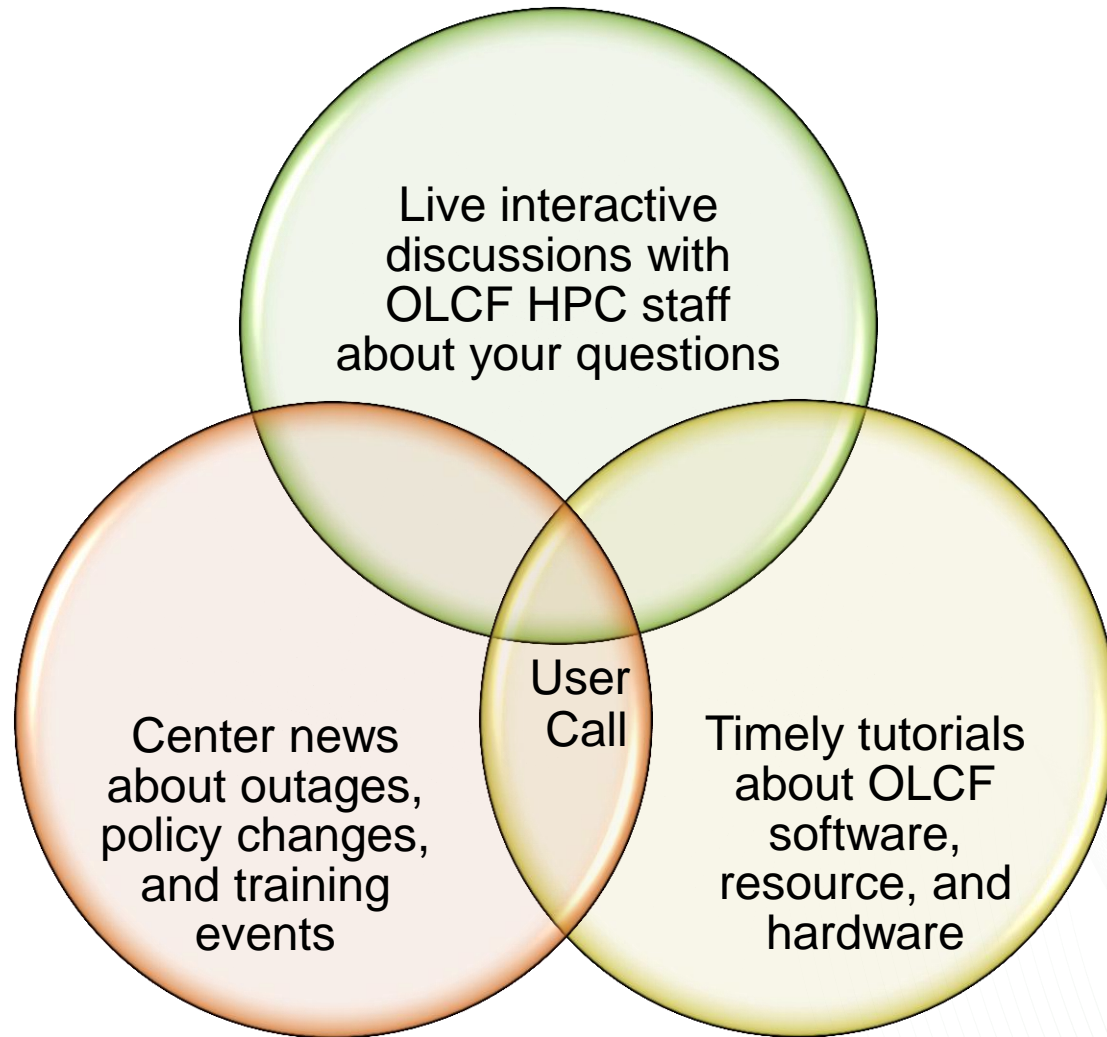
J. Becklehimer
A. Enger
J. Evanko
D. Garman
J. Lewis
D. Londo[#]
M. McDonough
A. Sachitano
B. Tennesen
C. Willis

How to Request Help

- Email help@olcf.ornl.gov or contact your liaison
- Call (865) 241-6536
- Check out the OLCF support site: <http://olcf.ornl.gov/support/>
 - Getting started
 - User guides
 - Tutorials
 - Software inventory
 - Knowledge base
 - Known issues
 - Official policies
 - Past & future events

The screenshot displays the OLCF User Support Overview page. At the top, there is a header with the OLCF logo, a search bar, and navigation links. Below the header, a section titled 'OLCF User Assistance Center' provides contact information and a 'Send a Help Ticket' link. The main content area is titled 'User Support Overview' and lists various support resources with icons: 'Getting Started at the OLCF', 'System User Guides', 'Searchable KnowledgeBase', 'OLCF Tutorials', 'Training Events', 'My OLCF', and 'Available Software'. A sidebar on the left contains a 'Support Overview' menu with links to 'Getting Started', 'System User Guides', 'KnowledgeBase', 'Tutorials', 'Training Events', 'My OLCF', 'Software', 'Documents & Webforms', 'Known Issues', and 'OLCF Policies'.

Monthly OLCF User Conference Call



Vote for your User Group Board

Nine users have been nominated to run for the three open positions on the OLCF User Group Executive Board.

Please take a few minutes to vote for three candidates by following this link:

<https://www.surveymonkey.com/r/6XCT63B>

The vote will remain open until June 25th at 11:00 am EDT. The successful candidates will be announced on June 25th at 12:00 pm EDT.

Acknowledgements

- Please acknowledge the use of OLCF systems in publications based on work performed using OLCF systems.
- The acknowledgement is included below but can also be found on the OLCF website under Media Center/Media Kit or if you search “acknowledgement” in the search box on the OLCF website it will take you to the statement.

This research used resources of the Oak Ridge Leadership Computing Facility, which is a DOE Office of Science User Facility supported under Contract DE-AC05-00OR22725.

OLCF User Survey

- The OLCF conducts an annual survey of all users of the facility.
- Each user should respond to the survey.
- Survey is conducted by a 3rd party and you can choose to keep your responses confidential.
- Contains a mixture of questions soliciting ratings, information, and free form comments.
- Previous surveys are posted online

Users score OLCF on a 1-5 scale.

1 = Very Dissatisfied

2 = Dissatisfied,

3 = Neither Satisfied nor Dissatisfied

4 = Satisfied

5 = Very Satisfied

Metric – 3.5

Survey Demographics	2013	2014
Percentage of Responses	30%	32%
New Users (OLCF User < 1 Year)	43%	26%
OLCF User for 1–2 Years	26%	27%
OLCF User > 2 Years	31%	48%

Reporting & Communicating Achievements

Outreach team works to highlight user and center achievements through several mediums including:

- Science highlights
- DOE snapshots
- Press releases
- Quad charts
- Close out reports
- Fact sheets
- Posters
- Event coordination

