

# Some near-final words and logistics

## *Argonne Training Program on Extreme-Scale Computing (ATPESC)*

**Paul Messina**

*Director of Science*

*Argonne Leadership Computing Facility*

*Argonne National Laboratory*

# A few reminders

- **For those of you who are not requesting an extension of your user account, we will collect your CRYPTOcards at the 10 a.m. break Friday**
- **The Track 7 evaluation and the Final Event evaluation will be emailed to you tonight and are due tomorrow by the 10 a.m. break**



# Boarding passes, luggage, limos

- **Should you have boarding passes you need printed, please send to**  
[support@extremecomputingtraining.anl.gov](mailto:support@extremecomputingtraining.anl.gov)
- **We will print them out for you to pick up in the office (Picasso room) before 12 p.m. on Friday.**
- **Tomorrow morning you may bring your luggage to this building or ask the hotel to keep it until you leave**
- **A-1 Limo will pick you up in front of the hotel lobby, per scheduled reservations.**



# For those of you who drove here

- **To be reimbursed for mileage, please Google the "shortest" route from home to Pheasant Run. If tolls are involved, please provide the toll amount for the round trip.**

**We will be processing travel reimbursement in the next couple of weeks but these may take additional time to get through the system.**



# Allocation Programs at the LCFs

	60%	30%	10%
	INCITE	ALCC	Director's Discretionary
Mission	High-risk, high-payoff science that requires LCF-scale resources*	High-risk, high-payoff science aligned with DOE mission	Strategic LCF goals
Call	1x/year – (Closes June)	1x/year – (Closes February)	Rolling
Duration	1-3 years, yearly renewal	1 year	3m,6m,1 year
Typical Size	30 - 40 projects 50M - 500M core-hours/yr.	5 - 10 projects 10M – 300+M core-hours/yr.	100s of projects .5M – 10M core-hours
Review Process	Scientific Peer-Review Computational Readiness	Scientific Peer-Review Computational Readiness	Strategic impact and feasibility
Managed By	INCITE management committee (ALCF & OLCF)	DOE Office of Science	LCF management
Readiness	<b>High</b>	<b>Medium to High</b>	<b>Low to High</b>
Availability	<p>Open to all scientific researchers and organizations</p> <p><b>Capability &gt; 131,072 cores (16.7% of Mira)</b></p>		



# Want to keep your ALCF account?

ALCF strongly encourages interested ATPESC participants to continue to use Mira and Vesta for their research efforts. The ATPESC project will be extended for a limited time after the program, until October 31, 2014.

Here's how you can keep your Cryptocard:

- Send an email to [accounts@alcf.anl.gov](mailto:accounts@alcf.anl.gov) with the subject:
  - ATPESC 2014 - Please extend account for <username>
- extending 593s for foreign nationals is not an issue as long as your INS documentation is valid until November 1<sup>st</sup>
  - Details on next slide

and – if you are interested

- Apply for a Director's Discretionary allocation to ensure an active account beyond October 31!
  - <http://www.alcf.anl.gov/getting-started/apply-for-dd>

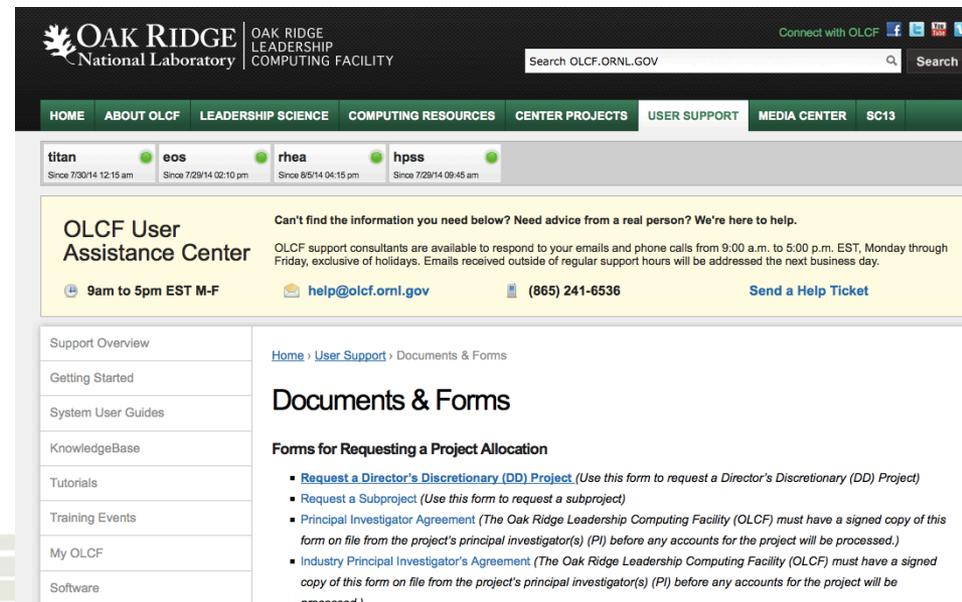
# Extending 593s for foreign nationals

- **Please re-check your account information here:**  
<https://accounts.alcf.anl.gov/accounts/account.php>
  - Specifically: 'Citizenship Information' section
- **Note that accounts.alcf.anl.gov does NOT use CRYPTOcard - you set this password when you created an account**
  - Call 866-508-9181 to reset the password if you have forgotten it
- **Margaret Kaczmarski may contact you for additional paperwork**

# Getting time on Titan

<https://www.olcf.ornl.gov/>

- You can request time on Titan through our Director's Discretionary Program
- Typically the program awards 1-3M Titan core hours
- Aimed at pilot projects, GPU porting, INCITE/ALCC prep and more
- Under User Support Tab, choose Documents and Forms
- Fill out webform



The screenshot shows the OLCF website header with the logo "OAK RIDGE National Laboratory" and "OAK RIDGE LEADERSHIP COMPUTING FACILITY". A search bar is present with the text "Search OLCF.ORNL.GOV". Below the header is a navigation menu with items: HOME, ABOUT OLCF, LEADERSHIP SCIENCE, COMPUTING RESOURCES, CENTER PROJECTS, USER SUPPORT, MEDIA CENTER, and SC13. The "USER SUPPORT" tab is active. Below the navigation menu, there are four status indicators for "titan", "eos", "rhea", and "hpss" with their respective last update times. A yellow banner for the "OLCF User Assistance Center" provides contact information: "9am to 5pm EST M-F", "help@olcf.ornl.gov", and "(865) 241-6536". Below the banner, a sidebar on the left lists "Support Overview", "Getting Started", "System User Guides", "KnowledgeBase", "Tutorials", "Training Events", "My OLCF", and "Software". The main content area shows the breadcrumb "Home > User Support > Documents & Forms" and the heading "Documents & Forms". Underneath, there is a section titled "Forms for Requesting a Project Allocation" with a list of links: "Request a Director's Discretionary (DD) Project", "Request a Subproject", "Principal Investigator Agreement", and "Industry Principal Investigator's Agreement".

# How to Get Access to NERSC Resources

- **“ERCAP” allocations process**
  - 80% of compute hours allocated by DOE program managers to projects doing research within the DOE mission
  - 10% allocated through ALCC (high-risk, high-payoff)
- **NERSC Director’s Reserve for strategic projects**
  - 10% of computer time (250 M hours)
- **Startup Projects**
  - Investigate how your code will run on HPC systems
  - At NERSC’s discretion
  - Up to 50 K hours for 18 months

Apply for your first NERSC allocation:

<http://www.nersc.gov/users/accounts/allocations/first-allocation/>

The screenshot shows the NERSC website interface. At the top left is the NERSC logo. To its right is a '40 YEARS at the FOREFRONT 1974-2014' anniversary graphic. A search bar is located in the top right corner. Below the header is a navigation menu with items: HOME, ABOUT, SCIENCE AT NERSC, SYSTEMS, FOR USERS (highlighted), NEWS & PUBLICATIONS, R & D, EVENTS, LIVE STATUS, and NERSC@40. The main content area is titled 'FOR USERS' and contains a list of links: Live Status, My NERSC, Move to CRT, Getting Started, Computational Systems, and Data & File Systems. The breadcrumb trail reads: Home » For Users » Accounts & Allocations » Allocations » Apply for Your First Allocation. The main heading of the page is 'APPLY FOR YOUR FIRST NERSC ALLOCATION' in large green letters. Below this is the sub-heading 'Initial Steps Needed to Apply for Your First NERSC Allocation' and a paragraph of introductory text.

# Educational and Job Opportunities @ ALCF

- **Research Efforts**
  - Computational Science
  - Computer Science
  - Technical Communication
  - Operations Research
- **ALCF Director's postdoctoral program (3 years)**
- **Divisional postdoctoral positions (3 years)**
- **PhD dissertation support**
- **Undergraduate and graduate internships**
  - And advanced high-school level



# For information on the educational and postdoctoral programs at Argonne National Laboratory

- <http://www.dep.anl.gov>



# 2014 'ATPESC'ers: Keep in Touch!

- Subscribe to *Newsbytes*, the monthly newsletter from the Argonne Leadership Computing Facility

To subscribe, go to our homepage at [www.alcf.anl.gov](http://www.alcf.anl.gov) and enter your email in the box at the bottom of the page.

- "Like" the Argonne Leadership Computing Facility on facebook!



ALCF Monthly Newsletter

August 2014



#### 2013 ATPESC Video Presentations Now Online

With the 2014 Argonne Training Program on Extreme Scale Computing now underway, we are pleased to provide access to videos from last year's program.

[Check out the videos »](#)

#### Analysis & Opinion

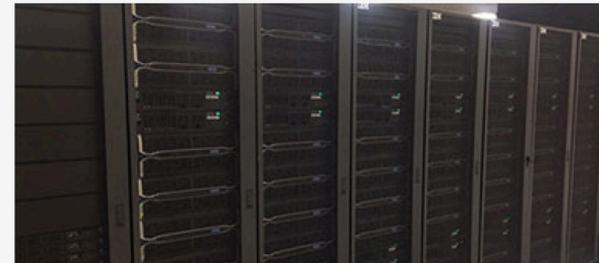
The ALCF's Paul Messina writes on the importance of HPC training for Scientific Computing World.



#### Getting from H<sub>2</sub>O to hydrogen fuel

Researchers from the University of Chicago are using Mira to study photoelectrochemical energy conversion.

[Read more »](#)



# A few thanks

- **Local arrangements and countless logistics**
  - Cheryl Zidel, Ashley Boyle, Ginny Doyle
- **Operations**
  - Adam Scovel, Andrew Cherry, Bill Allcock, Robert Scott, Paul Rich, Matt Kemp, Skip Reddy
- **ALCF User Services**
  - Jini Ramprakash, Robert Scott, Chel Lancaster, Richard Coffey
- **OLCF**
  - Ashley Barker, Fernanda Foertter, Jim Hack
- **NERSC**
  - Richard Gerber
- **Curriculum track leaders**
  - Pete Beckman, Rusty Lusk, Rajeev Thakur, Lori Diachin, Lois McInnes, Kalyan Kumaran, Scott Parker, Mike Papka, Joe Insley, Rob Ross, Rob Latham, Katherine Riley, Anshu Dubey



# And thanks to you!

- **Thanks in advance to all of you for taking two weeks of your summer to participate in this program**
- **Questions?**

