



Dear LUG Participant,

On behalf of the LUG Organizing Committee, OpenSFS and our sponsors, we look forward to welcoming you to Argonne National Laboratory next week for LUG 2018.

Please note the following important details:

OPENING RECEPTION:

DDN will be hosting the Opening Reception on Monday, April 23 beginning at 6:30 p.m. at the Chicago Marriott Southwest at Burr Ridge.

Chicago Marriott Southwest at Burr Ridge
1200 Burr Ridge Parkway, Burr Ridge, IL 60527
Patio (weather permitting, back up location is Salon III)

SHUTTLE:

If you are staying at the Chicago Marriott Southwest at Burr Ridge, there will be a shuttle service from the hotel to Argonne National Laboratory each morning beginning at 7:30 a.m.

MEETING ADDRESS:

Argonne National Laboratory is located at:

9700 S. Cass Avenue
Bldg 240 – Theory & Computing Sciences Conference Center
Argonne, IL 60439

Please see attached agenda for start times and speakers.

Thank you to our **SPONSORS!** Without them, LUG 2018 would not be possible.

Kevin Harms & Rick Wagner

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Monday, April 23, 2018

6:30 p.m. **Opening Reception, *Sponsored by DDN Storage***

Chicago Marriott Southwest at Burr Ridge
1200 Burr Ridge Parkway, Burr Ridge, IL 60527
On the Patio weather permitting, otherwise Salon III

Tuesday, April 24, 2018 (Day 1)

- 7:30 a.m. Registration Begins at Argonne National Laboratory
- 9:00 a.m. Opening Remarks - Sarp Oral, ORNL
- 9:10 a.m. Argonne Aurora 21 - Kevin Harms, ANL
- 9:30 a.m. Community Release Update – Peter Jones, Intel
- 10:00 a.m. Progression of the Upstream Lustre client – James Simmons, ORNL
- 10:30 a.m. Break (30 min)
- 11:00 a.m. Site update from the down under – Gin Tan, Monash University
- 11:30 a.m. Lustre Feature Renaissance – Nathan Rutman, Cray
- 12:00 p.m. Lunch
- 1:30 p.m. Sponsor: Intel
- 1:50 p.m. Lustre 2.12 and beyond – Andreas Dilger, Intel
- 2:20 p.m. Lazy Size on MDT: A new attribute that enables quick MDT scanning based on file size – Li Xi and Dongyang Li, DDN
- 2:50 p.m. Break (30min)
- 3:20 p.m. Lustre server on kernel 4.12.8 – Gael Delbary, CEA
- 3:50 p.m. T10-PI: End-to-end Data Integrity Protection for Lustre – Li Xi and Shuichi Ihara, DDN
- 4:20 p.m. Multi-tenancy: real-life implementation – Sebastien Buisson, DDN
- 4:50 p.m. Test cluster - Nihat Altiparmak, Louisville
- 5:00 p.m. Session End
- 6:00 p.m. Networking Event at QBar
8109 S Cass Ave, Darien, IL 60561
<http://www.qbardarien.com/>



Wednesday, April 25, 2018 (Day 2)

- 7:30 a.m. Registration Begins at Argonne National Laboratory
- 9:00 a.m. Sponsor: DDN
- 9:20 a.m. Empirical Study of I/O Performance of Lustre-based Storage System on a Cray XC40 Supercomputer – Paul Coffman, ANL
- 9:50 a.m. High-performance Profiling of High-performance Parallel File Systems – Cameron Harr, LLNL
- 10:20 a.m. Break (30 min)
- 10:50 a.m. Small File IO Performance in Lustre – Joe Gmitter, Intel
- 11:20 a.m. Small I/O Performance Improvements in Lustre – Patrick Farrell, Cray
- 11:50 a.m. EOFS Update and ISC 2018 Activities - Hugo Falter, EOFS
- 12:00 p.m. Lunch
- 1:30 p.m. Sponsor: Cray - Cray Lustre and Storage Update - Nathan Schumann
- 1:50 p.m. Lustre Persistent Client Cache: A client side cache that speeds up applications with certain I/O patterns – Li Xi, DDN
- 2:20 p.m. Lustre ZFS – Andreas Dilger, Intel
- 2:50 p.m. Break (30 min)
- 3:20 p.m. LNet Roadmap – Amir Shehata, Intel
- 3:50 p.m. Analytics of Wide-Area Lustre Throughput Using LNet Routers – Nageswara Rao, ORNL
- 4:20 p.m. LNet Multi-Rail at NASA – Amir Shehata, Intel; Bob Ciotti, NASA
- 4:40 p.m. OpenSFS Status and Elections
- 5:00 p.m. Session End
- 6:00 p.m. Networking Event at Miskatonic
1000 N Frontage Rd, Darien, IL 60561
<http://miskatonicbrewing.com/>

Thursday, April 26, 2018

- 9:00 a.m. LUG 2019 announcement – Dr. Andrea Prosperetti
- 9:10 a.m. IO500: Creating a Meaningless Single Number to Appease Human Irrationality – Jay Lofstead, Sandia
- 9:40 a.m. Robinhood Policy Engine: using client/server model – Megan Larko, BAE Systems
- 10:10 a.m. Lustre iRODS Connector – Open Source Data Management for a Parallel File System
- 10:40 a.m. Break (30 min)
- 11:10 a.m. Sponsor: Globus
- 11:30 a.m. IML Roadmap and Development Community – Joe Grund, Intel
- 12:00 p.m. Early Performance Investigation of Data on Metadata – Frank Leers and Shuichi Ihara, DDN
- 12:30 p.m. Lustre at Uber – Nick Cobb and Jinshan Xiong, Uber ATG
- 1:00 p.m. Meeting Concludes (Boxed Lunches Provided)



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