

# **OSG All-Hands Meeting 2022**

## **Report of Contributions**

Contribution ID: 3

Type: **not specified**

## The State of the OSG

*Monday, March 14, 2022 10:40 AM (25 minutes)*

**Presenter:** WUERHWEIN, Frank (UCSD)

**Session Classification:** State of the OSG

Contribution ID: 4

Type: **not specified**

## **Investigating the Strong Nuclear Force with the OSG (2022 David Swanson Awardee)**

*Monday, March 14, 2022 11:30 AM (30 minutes)*

**Presenter:** NATZKE, Connor (Colorado School of Mines)

**Session Classification:** State of the OSG

Contribution ID: 5

Type: **not specified**

## A PATH Forward Remarks

*Monday, March 14, 2022 10:30 AM (10 minutes)*

**Presenter:** LIVNY, Miron (UW-Madison, Morgridge Institute for Research)

**Session Classification:** State of the OSG

Contribution ID: 6

Type: **not specified**

## **Steady Steady Genetic Algorithm for Crystal Structure Prediction: A scalable Approach for the OSG**

*Monday, March 14, 2022 1:00 PM (20 minutes)*

**Presenter:** VARELA, Kristal (University of Utah and Universidad de Buenon Aires)

**Session Classification:** Science enabled via the Open Science Pool

Contribution ID: 7

Type: **not specified**

## **Computational Challenges and Opportunities in Multi-messenger heavy-ion physics**

*Monday, March 14, 2022 1:20 PM (20 minutes)*

**Presenter:** SHEN, Chun (Wayne State University)

**Session Classification:** Science enabled via the Open Science Pool

Contribution ID: 8

Type: **not specified**

## **The Role of OSG in Advancing Research in Population Genetics**

*Monday, March 14, 2022 1:40 PM (20 minutes)*

**Presenter:** JOHRI, Parul (Arizona State University)

**Session Classification:** Science enabled via the Open Science Pool

Contribution ID: 9

Type: **not specified**

## **Democratizing Access to Cyberinfrastructure**

*Tuesday, March 15, 2022 10:30 AM (5 minutes)*

**Presenter:** WUERTHWEIN, Frank (UCSD)

**Session Classification:** Democratizing Access to Cyberinfrastructure



Contribution ID: 10

Type: **not specified**

## **The Missing Millions: Democratizing Computation and Data to Bridge Digital Divides and Increase Access to Science for Underrepresented Communities**

*Tuesday, March 15, 2022 10:35 AM (25 minutes)*

**Presenters:** BLATECKY, Alan (Research Triangle Institute); GERSCHENFELD, Joel (Brandeis University); MICHAEL, Lauren (UW-Madison Center for High Throughput Computing (CHTC))

**Session Classification:** Democratizing Access to Cyberinfrastructure

Contribution ID: 11

Type: **not specified**

## **Democratizing Access to Cyberinfrastructure**

*Tuesday, March 15, 2022 11:00 AM (35 minutes)*

**Presenter:** THOMPSON, Kevin (National Science Foundation, Program Director)

**Session Classification:** Democratizing Access to Cyberinfrastructure

Contribution ID: 12

Type: **not specified**

## **Expanding OSG Services for Campuses**

*Tuesday, March 15, 2022 1:00 PM (20 minutes)*

**Presenters:** WUERHWEIN, Frank (UCSD); MICHAEL, Lauren (UW-Madison Center for High Throughput Computing (CHTC))

**Session Classification:** Campus Services and Perspectives

Contribution ID: 13

Type: **not specified**

## High Performance Computing in the Texas Panhandle and beyond

*Tuesday, March 15, 2022 1:20 PM (23 minutes)*

**Presenter:** PAL, Anirban (West Texas A&M)

**Session Classification:** Campus Services and Perspectives

Contribution ID: 14

Type: **not specified**

## Using, and not using, OSG

*Tuesday, March 15, 2022 1:43 PM (23 minutes)*

**Presenter:** FAUBER, Bennet (University of Michigan, ITS Research Computing)

**Session Classification:** Campus Services and Perspectives

Contribution ID: 15

Type: **not specified**

## **Advancing the Process of Science and Innovation at ASU with OSG**

*Tuesday, March 15, 2022 2:06 PM (23 minutes)*

**Presenter:** JENNEWEIN, Douglas (Arizona State University)

**Session Classification:** Campus Services and Perspectives

Contribution ID: 16

Type: **not specified**

## **Managing HTC workloads via an Access Point**

*Wednesday, March 16, 2022 10:30 AM (5 minutes)*

**Presenter:** LIVNY, Miron (UW-Madison, Morgridge Institute for Research)

**Session Classification:** Integrating a Diversity of Capacity Resources into dHTC Pools

Contribution ID: 17

Type: **not specified**

## Introducing the PATH Facility

*Monday, March 14, 2022 11:05 AM (25 minutes)*

**Presenter:** BOCKELMAN, Brian (Morgridge Institute for Research)

**Session Classification:** State of the OSG



Contribution ID: **18**

Type: **not specified**

## **Green, Low Cost Cloud Computing with Lancium Compute**

*Wednesday, March 16, 2022 11:00 AM (25 minutes)*

**Presenter:** GRIMSHAW, Andrew (Lancium Compute, President)

**Session Classification:** Integrating a Diversity of Capacity Resources into dHTC Pools

Contribution ID: 19

Type: **not specified**

## **Relationship of OSG and NRP**

*Wednesday, March 16, 2022 11:25 AM (25 minutes)*

**Presenter:** WUERTHWEIN, Frank (UCSD)

**Session Classification:** Integrating a Diversity of Capacity Resources into dHTC Pools

Contribution ID: 20

Type: **not specified**

## Discussion

*Wednesday, March 16, 2022 11:50 AM (10 minutes)*

**Session Classification:** Integrating a Diversity of Capacity Resources into dHTC Pools

Contribution ID: 21

Type: **not specified**

## **OSG 3.6 and Token Transition Update**

*Wednesday, March 16, 2022 1:00 PM (25 minutes)*

**Presenter:** LIN, Brian (University of Wisconsin-Madison)

**Session Classification:** OSG Technology

Contribution ID: 22

Type: **not specified**

## Handling HTC Jobs Tokens with Vault

*Wednesday, March 16, 2022 1:25 PM (20 minutes)*

**Presenter:** DYKSTRA, Dave (Fermilab)

**Session Classification:** OSG Technology

Contribution ID: 23

Type: **not specified**

## Updates on the OSDF Monitoring System

*Wednesday, March 16, 2022 1:45 PM (20 minutes)*

**Presenter:** WEITZEL, Derek (University of Nebraska - Lincoln)

**Session Classification:** OSG Technology

Contribution ID: 24

Type: **not specified**

## **Kubernetes at UChicago: PATH, IRIS-HEP, ATLAS, and SLATE**

*Wednesday, March 16, 2022 2:05 PM (25 minutes)*

**Presenter:** BRYANT, Lincoln (University of Chicago)

**Session Classification:** OSG Technology

Contribution ID: 25

Type: **not specified**

## **Enabling OSG through a student project to modify Airavata Science Gateway**

*Monday, March 14, 2022 2:00 PM (30 minutes)*

**Presenters:** WEITZEL, Derek (University of Nebraska - Lincoln); QUICK, Rob (Indiana University)

**Session Classification:** Science enabled via the Open Science Pool



Contribution ID: 26

Type: **not specified**

## The Expanding EGI Computing Landscape

*Wednesday, March 16, 2022 10:35 AM (25 minutes)*

**Presenters:** FERNANDEZ, Enol (EGI Foundation); SIPOS, Gergely (EGI Foundation)

**Session Classification:** Integrating a Diversity of Capacity Resources into dHTC Pools

Contribution ID: 27

Type: **not specified**

## **Introduction to OSG Collaborations**

*Thursday, March 17, 2022 10:10 AM (5 minutes)*

**Presenter:** HERNER, Kenneth (Fermilab)

**Session Classification:** OSG and Multi-Institution Collaborations

Contribution ID: 28

Type: **not specified**

## **Analyzing 6 months of public LIGO data using the Open Science Pool**

*Thursday, March 17, 2022 10:15 AM (20 minutes)*

**Presenter:** MESSICK, Cody (LIGO, Massachusetts Institute of Technology)

**Session Classification:** OSG and Multi-Institution Collaborations

Contribution ID: 29

Type: **not specified**

## **IceCube and the Open Science Pool**

*Thursday, March 17, 2022 10:35 AM (20 minutes)*

**Presenter:** RIEDEL, Benedikt (University of Wisconsin–Madison)

**Session Classification:** OSG and Multi-Institution Collaborations

Contribution ID: 30

Type: **not specified**

## **On cloud without a parachute: The Rubin Data Preview experience on Google Cloud**

*Thursday, March 17, 2022 10:55 AM (20 minutes)*

**Presenter:** ECONOMOU, Frossie (LSST)

**Session Classification:** OSG and Multi-Institution Collaborations

Contribution ID: **31**

Type: **not specified**

## **Computational challenges with SPT-3G and CMB-S4**

*Thursday, March 17, 2022 11:15 AM (20 minutes)*

**Presenter:** WHITEHORN, Nathan (Michigan State University)

**Session Classification:** OSG and Multi-Institution Collaborations

Contribution ID: 32

Type: **not specified**

## **Muon $g-2$ : Past, present, and future**

*Thursday, March 17, 2022 11:35 AM (25 minutes)*

**Presenter:** GOODENOUGH, Lisa (Fermilab)

**Session Classification:** OSG and Multi-Institution Collaborations

Contribution ID: 33

Type: **not specified**

## Welcome / Introduction

*Friday, March 18, 2022 10:30 AM (5 minutes)*

**Presenters:** MASON, David (FNAL); GARDNER, Robert (University of Chicago)

**Session Classification:** OSG and U.S. LHC



Contribution ID: 34

Type: **not specified**

## Xrootd Common Needs and Development

*Friday, March 18, 2022 10:35 AM (25 minutes)*

This session brings together the two major HEP experiments that rely on XRootD to discuss common needs with respect to the code base. The discussion will also include how best to continue to jointly support existing and future development of the framework in areas of mutual concern.

**Presenters:** HANUSHEVSKY, Andrew (SLAC National Accelerator Laboratory); DAVILA, Diego (CMS); YANG, Wei (SLAC)

**Session Classification:** OSG and U.S. LHC

Contribution ID: 35

Type: **not specified**

## Network Activities and Plans

*Friday, March 18, 2022 11:00 AM (20 minutes)*

Network activities and how to make progress: site real-time traffic monitoring, packet marking, flow labeling, traffic shaping and traffic orchestration. What are the current status of each of these, what should facilities prepare for, what are the associated timelines?

**Presenters:** ATTEBURY, Garhan (University of Nebraska-Lincoln); MCKEE, Shawn (Univ. of Michigan)

**Session Classification:** OSG and U.S. LHC

Contribution ID: 36

Type: **not specified**

## Discussion: HPC and Clouds

*Friday, March 18, 2022 11:20 AM (40 minutes)*

Discussion topic on HPC and Clouds: Issues, plans and status. How do we make progress here? Accounting challenges (non-pledged and how to properly gain credit). What role will these play in our facilities. Are there logical places for USATLAS and USCMS to collaborate?

Also in this session a lightning talk on benchmarking and cloud bursting into the Azure cloud (Erik Gough / Purdue)

**Presenters:** HUFNAGEL, Dirk (Fermilab); BRYANT, Lincoln (University of Chicago)

**Session Classification:** OSG and U.S. LHC

Contribution ID: 37

Type: **not specified**

## IRIS-HEP Analysis Grand Challenge Discussion

*Friday, March 18, 2022 1:00 PM (25 minutes)*

IRIS-HEP analysis grand challenge discussion: Goals for this challenge, how best to collaborate, milestones and schedule .

**Presenters:** HELD, Alexander; MASON, David (FNAL); SHADURA, Oksana; GARDNER, Robert (University of Chicago)

**Session Classification:** OSG and U.S. LHC

Contribution ID: 38

Type: **not specified**

## Discussion about token transition and GSI retirement

*Friday, March 18, 2022 1:25 PM (30 minutes)*

Token transition and its impact on our facilities and distributed computing, including timelines and Run-3 readiness. How and when are our facilities transitioning things? Timelines for deployment of upgraded versions. Concerns and possible action items?

**Presenters:** MELO, Andrew (Vanderbilt University); LIN, Brian (University of Wisconsin-Madison); Dr LUEHRING, Fred (Indiana University)

**Session Classification:** OSG and U.S. LHC

Contribution ID: 39

Type: **not specified**

## Caching and Data Lake Infrastructure Discussion.

*Friday, March 18, 2022 1:55 PM (35 minutes)*

Caching/Data Lake infrastructure: what the the plans and technologies being considered? Where are there areas to collaborate?

Two talks:

Matt Snyder, RUCIO QoS Current State (10m)

Shigeki Misawa, Tape Storage for warm data (10m)

**Presenters:** BENJAMIN, Doug (Brookhaven National Laboratory (US)); BALCAS, Justas (Caltech)

**Session Classification:** OSG and U.S. LHC

Contribution ID: 40

Type: **not specified**

## **Fostering Engagement, inclusion and Enabling Access: Working Alongside Historically Underserved Institutions in the United States**

*Tuesday, March 15, 2022 11:35 AM (25 minutes)*

Internet2 is working in collaboration with several Minority Serving Institutions through the Minority Serving – Cyberinfrastructure Consortium (MS-CC), striving to reduce the gap between their campus networks and the global R&E ecosystem. Internet2 and the MS-CC were recently awarded a pilot CoE award aimed at providing historically Black colleges and universities, and tribal colleges and universities, with programs and services that address their cyberinfrastructure needs. Fostering these engagements and working alongside the MS-CC is driven by Internet2's desire to ensure the equal participation of historically underserved institutions in both the U.S. and global R&E communities.

**Presenters:** HUNSINGER, Ana (Internet2); WILLIAMS, Lawrence (Internet2)

**Session Classification:** Democratizing Access to Cyberinfrastructure