DOE Data Days 2022

Office of Defense Nuclear Nonproliferation Research & Development (DNN R&D)

Agenda

Wednesday, June 1, 2022

B123 Auditorium

Day 1 Foreign Nationals & U.S. Citizens (Unclassified)		
0730 PDT	Call-in opens Participant Verification	All
0755	Logistics and Safety	
0800	Welcome and Introductions	Rebecca Rodd
0815	NNSA HQ Perspectives and Goals	Craig Sloan
Cloud and Hybrid Data Management		
0830	Cloud-based Data Archive and Portal Platform for DOE Science	Matt McDuff, PNNL
0900	**Break – 15 Minutes**	**All**
0915	Putting Data in the Spotlight. The case for a Scientific Data federation.	Swen Boehm, ORNL
0930	Tsdat – A Python framework to ingest and standardize data using cloud resources	Carina Lansing, PNNL
0945	DataFlow – A Data Bridge to Air-gapped Scientific Instruments	Suhas Somnath, ORNL
1000	Cloud and Hybrid Data Management Panel Discussion	Matt Macduff, Anthony Avarca, Carina Lansing, Suhas Somnath
Data Intensive Computing		
1030	Genomic Analysis at Scale: Mapping Irregular Computations to Advanced Architectures	Kathy Yelick, UCB
1100	**Lunch**	**All**
1215	Indexing LANL's Historical Collections in Less Than 1,000 Years	Julie Maze, LANL
1230	Data as an Ecosystem at ARM User Facilities	Monica Ihli, ORNL
1245	Breakout Session – Topics Related to Session 1 & 2	All
1330	**Break – 15 Minutes**	**All**
1345	Poster Session	Multiple
1445	**Adjourn Day 1**	

All times are Pacific Daylight Time
Logistics Contact Information/Help – Lisa Felker (925) 493-9480, felker7@llnl.gov

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Agenda

Thursday, June 2, 2022

B123 Auditorium

Day 2 ==Foreign Nationals & U.S. Citizens== (Unclassified)		
0730 PDT	Call-in opens Participant Verification	All
0755	Logistics and Safety	
0800	Material, Aging and Compatibility Data Platform: A Case Study in Data Management	Stefeni Butterworth, LLNL
0815	Making the Most of Data: Feature Engineering for Applied Supervised Machine Learning	Thomas Martin, NETL
0830	Data Intensive Computing Panel Discussion	Julie Maze, Monica Ihli, Stefeni Butterworth, Thomas Martin
0900	**Break – 15 Minutes**	**All**
Data Access, Sharing and Sensitivity		
0915		Michael Cooke
0945	DOE Office of Scientific and Technical Information (OSTI) Artificial Intelligence and Machine Learning	Mary West, OSTI
1000	Building the Next Generation Earth System Grid Federation (ESGF2)	Forrest Hoffman, ORNL
1015	**Break – 15 Minutes**	**All**
1030	APPFL: Open-Source Software Framework for Privacy-Preserving Federated Learning	Kibaek Kim, ANL
1045	PNNL DataHub: Building a central data capability	Michael Hofmockel, PNNL
1100	Need-to-Know (NTK) Considerations for High Volume Data Access	Susan Byrnes, SNL
1115	From ENSDF to NuDat: Disseminating Digestible Data Using Modern Web-based Technologies to Search, Filter, and Visualize Data	Donnie Mason, BNL
1130	**Lunch**	**All**
1230	Data Access, Sharing and Sensitivity Panel Discussion	Mary West, Forrest Hoffman, Kibaek Kim, Michael Hofmockel, Susan Byrnes, Donnie Mason
1300	Breakout Session – Topics Related to Session 3	All
1345	**Break – 15 Minutes**	**All**
1400	Poster Session	All
1500	**Adjourn Day 2**	**All**

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Agenda

Friday, June 3, 2022

Day 3 <mark>Foreign Nationals & U.S. Citizens</mark> (Unclassified)		
0730 PDT	Call-in opens Participant Verification	All
0755	Logistics and Safety	
Data Policy and Ethics		
0800	Data Policy as Translational Ethics	David Danks, UCSD
0830	Managing Randomness to Enable Reproducible Machine Learning	Hana Ahmed, SNL
0845	FAIRification for HPC Datasets and AI models	Pei-Hung Lin, LLNL
0900	**Break – 15 Minutes**	**All**
0915	The Big-Data Toolkit: Ensuring Data Governance & Ethical Considerations Are Applied to Large Datasets	Alexander May, ORNL
0930	Ontology-Driven Discovery of Legacy Data in DMS	Camille Mathieu, LLNL
0945	Data Policy and Ethics Panel Discussion	Hana Ahmed, Pei-Hung Lin, Alexander May, Camille Mathieu
1015	**Break – 15 Minutes**	**All**
1030	Breakout Session – Wrap-up and Action Plan	All
1130	Wrap-up	All
1145	**Adjourn Day 3**	**All**

The Office of Defense Nuclear Nonproliferation Research and Development