

AI for Science Town Hall
Renaissance DC Downtown Hotel, Washington, DC
October 22-23, 2019

Theme: What can we do in AI for Science to Move the Country Forward

Tuesday, October 22, 2019

- 7:30 a.m.** **Registration and Working Continental Breakfast** (Ballroom Level Lobby)
- 8:30 a.m.** **Welcome and Introduction** (Grand Ballroom North)*Barbara Helland (DOE)*
- 8:45 a.m.** **DOE HQ Opening Remarks** (Grand Ballroom North).....*Chris Fall (DOE)*
- 9:00 a.m.** **Summary from 3 Town Halls**..... *Kathy Yelick (LBNL), Rick Stevens (ANL), Jeff Nichols (ORNL)*
- 10:00 a.m.** **Break** (Ballroom Level Lobby)
- 10:30 a.m.** **How significant will AI be for the energy sector? Quantifying progress and outlining signposts**.....*Claire Curry, Bloomberg New Energy Finance*
- 11:15 a.m.** **AI Research Update: What's Going On Around the World, And Our Research Plans For Studying AI for Science***Earl Joseph, Hyperion Research*
- 11:45 a.m.** **Break for Working Lunch** (Ballroom Level Lobby) - Networking and Preparation for Breakout Sessions
- 1:30 p.m.** **Breakout Sessions**
- Machine Learning Foundations and Open Problems (Grand Ballroom North)
Co-Leads:
David Womble (ORNL)
Stefan Wild (ANL)
Prabhat (LBNL)
 - Facilities Integration and AI Ecosystem (Meeting Room 3)
Co-Leads:
Jim Hack (ORNL)
Mike Papka (ANL)
Sudip Dosanj (LBNL)
Inder Monga (LBNL)
 - Earth and Environmental Sciences (Meeting Room 6)
Co-Leads:
Forrest Hoffman (ORNL)
Rao Kotamarthi (ANL)
Haruko Wainwright (LBNL)
 - Chemistry, Materials, and Nano Science (Meeting Room 7)
Co-Leads:
Cynthia Jenks (ANL)

- Bert deJong (LBNL)
- Engineering and Manufacturing (Meeting Room 8)
Co-Leads:
John Turner (ORNL)
Santanu Chaudhuri (ANL)
Peter Nugent (LBNL)
- Nuclear Physics (Meeting Room 9)
Co-Leads:
David Dean (ORNL)
Zein-Eddine Meziani (ANL)
Brian Quiter (LBNL)
- Data Life Cycle and Infrastructure (Meeting Room 10)
Co-Leads:
Arjun Shankar (ORNL)
Nicola Ferrier (ANL)
Wes Bethel (LBNL)
- Support for AI for Experimental Facilities (Meeting Room 16)
Co-Leads:
Ken Herwig (ORNL)
Doga Gursoy (ANL)
Peter Zwart (LBNL)

3:15 p.m. Break (Ballroom Level Lobby)

3:30 p.m. Startup Innovations in AI Hardware (Grand Ballroom North)*PANEL*
Moderator: Rick Stevens (ANL)
Andy Hock (Cerebras)
Kunle Olukotun (SambaNova)
Dale Southard (Groq)

4:30 p.m. Breakout Summary (Grand Ballroom North)*Valerie Taylor (ANL),*
Barney Maccabe (ORNL), David Brown (LBNL)

5:00 p.m. Close-out for the day (Grand Ballroom North)*Barb Helland (DOE)*

6:00 p.m. Dinner on your own

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7:30 a.m. Registration and Working Continental Breakfast (Ballroom Level Lobby)

8:30 a.m. Day 2 Welcome (Grand Ballroom North)*Barb Helland (DOE)*

8:45 a.m. Breakouts

- AI for Computer Science (Grand Ballroom North)
Co-Leads:
Nagi Rao (ORNL)
Prasanna Balaprakash (ANL)
Lavanya Ramakrishnan (LBNL)
- Biology and Life Sciences (Meeting Room 3)
Co-Leads:
Gina Tourassi (ORNL)
Tom Brettin (ANL)
Ben Brown (LBNL)
- High Energy Physics (Meeting Room 6)
Co-Leads:
Salman Habib (ANL)
Paolo Calafiura (LBNL)
- Smart Energy Infrastructure (Meeting Room 8)
Co-Leads:
Teja Kuruganti (ORNL)
Mihai Anitescu (ANL)
Tianzhen Hong (LBNL)
- Software Environments and Software Research (Meeting Room 9)
Co-Leads:
Judy Hill (ORNL)
Rob Ross (ANL)
Katie Antypas (LBNL)
- Support for AI at the Edge (Meeting Room 10)
Co-Leads:
Steven Young (ORNL)
Pete Beckman (ANL)
John Wu (LBNL)
- Hardware Architectures (Meeting Room 16)
Co-Leads:
Jeff Vetter (ORNL)

Andrew Chien (ANL)
John Shalf (LBNL)

- 10:15 a.m.** **Break** (Ballroom Level Lobby)
- 10:30 a.m.** **DOE Headquarters Remarks**Paul Dabbar, DOE
- 10:45 a.m.** **Cross Agency AI Strategies** (Grand Ballroom North)DoD, DOE, NSF, NIH
-Moderator – Lynne Parker (OSTP)
-DOE – Steve Binkley
-DOD NSA Research – Adam Cardinal-Stakenas
-NSF – Erwin Gianchandani
-NIH – Susan Gregurick
- 11:45** **Breakout Summary** (Grand Ballroom North) Valerie Taylor (ANL),
Barney Maccabe (ORNL), David Brown (LBNL)
- 12:15 p.m.** **AI “Killer Applications”** (Grand Ballroom North) Rick Stevens (ANL),
Kathy Yelick (LBNL), Jeff Nichols (ORNL)
- 1:00 p.m.** **Wrap Up** (Grand Ballroom North) Barb Helland (DOE)
- 1:15 p.m.** **Working Lunch** (Ballroom Level Lobby)Continue Networking and Coordination of
Town Hall Report