



## ENERGYINNOVATION

### HPC4EnergyInnovation Online Colloquium:

#### Machine Learning

**March 22, 2019**

**9:00 a.m. PT (12:00 p.m. ET)**

#### Agenda

<b>12:00 p.m. ET</b> <b>9:00 a.m. PT</b>	<b>HPC4EnergyInnovation Program Overview: National Laboratories Partner with U.S. Manufacturers to Increase Innovation and Energy Efficiency</b> <i>Robin Miles</i> , HPC4EI Program Director
<b>12:15 p.m. ET</b> <b>9:15 a.m. PT</b>	<b>Motivation for Machine Learning in Product and Process Development</b> <i>David Womble</i> , Oak Ridge National Laboratory
<b>12:30 p.m. ET</b> <b>9:30 a.m. PT</b>	<b>What Can Deep Learning Do for You?</b> <i>Brenda Ng</i> , Lawrence Livermore National Laboratory
<b>1:30 p.m. ET</b> <b>10:30a.m. PT</b>	<b>Modern Data Analytics Approach to Predict Creep of High-Temperature Alloys</b> <i>Dongwon Shin</i> , Oak Ridge National Laboratory
<b>2:00 p.m. ET</b> <b>11:00 a.m. PT</b>	<b>Accelerated Search for Materials with Targeted Properties</b> <i>Turab Lookman</i> , Los Alamos National Laboratory
<b>2:30 p.m. ET</b> <b>11:30 a.m. PT</b>	<b>Machine Learning for Better Understanding and Control of Complex Processes</b> <i>Victor Castillo</i> , Lawrence Livermore National Laboratory
<b>3:00 p.m. ET</b> <b>12:00 p.m. PT</b>	<b>Machine Learning for Material Property Design at the Atomic Level</b> <i>Tess Smidt</i> , Lawrence Berkeley National Laboratory
<b>3:30 p.m. ET</b> <b>12:30 p.m. PT</b>	<b>HPC4Mobility and Machine Learning Applied to Transportation Systems</b> <i>David Anderson</i> , Department of Energy, EERE, VTO <i>Jane MacFarlane</i> , Lawrence Berkeley National Laboratory <i>Tom Karnowski</i> , Oak Ridge National Laboratory
<b>4:00 p.m. ET</b> <b>1:00 p.m. PT</b>	<b>Error Analysis of System Modeling using Artificial Intelligence and Machine Learning</b> <i>Brian Valentine</i> , Department of Energy, EERE, AMO