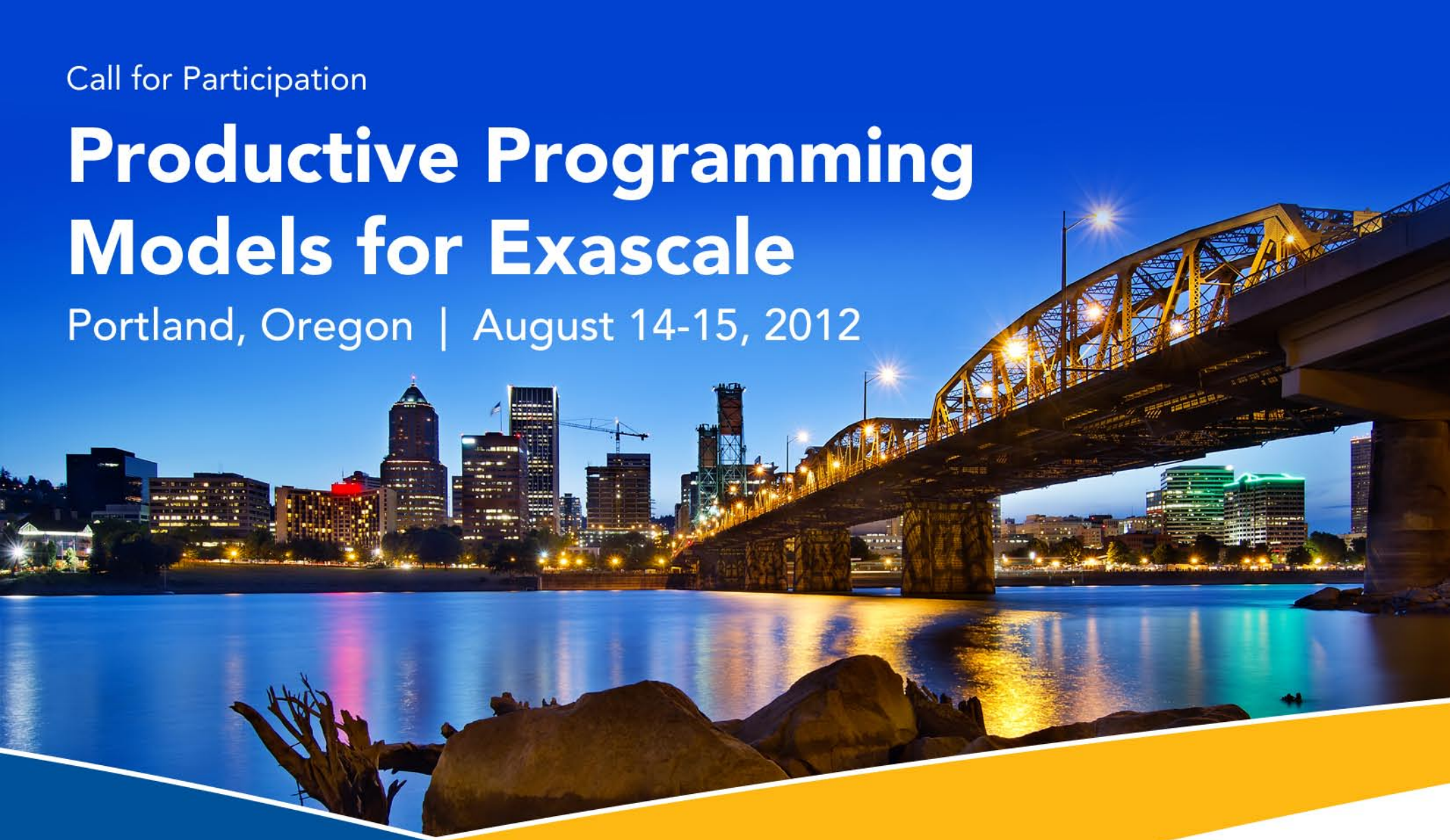
Call for Participation

# Productive Programming Models for Exascale

Portland, Oregon | August 14-15, 2012



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## OBJECTIVES

Programming models are an increasingly important aspect of large-scale systems, especially as we progress to exascale levels of computing and beyond. They range from traditional communicating process-orientated approaches, as seen through the vastly popular Message Passing Interface, thread-based approaches that exploit node-level parallelism (including OpenMP), to more data-orientated approaches, including PGAS approaches like Global Arrays, UPC, and CAF. In addition, there are many advanced concepts that are in development including X10, Chapel, as well as various Domain Specific Languages.

The meeting on Productive Programming Models for Exascale is a forum in which both computer scientists and computational scientists from a variety of disciplines will discuss the current state-of-the-art of high-performance parallel programming models, and explore the technical roadmap addressing the features and new developments needed to allow both model and data-driven scientific applications to prepare for the exascale era. Discussions will focus on issues related to scalability, fault resiliency, programmability, interoperability, performance diagnostics, power efficiency, and hardware technologies.

Researchers in the fields of high-performance computing and computational domain sciences are invited to attend this workshop. The latest details on the meeting agenda, including confirmed speakers, can be found on at ***http://xsci.pnnl.gov/ppme***. Attendees who wish to make a short position presentation and present a poster should indicate this during pre-registration.

## PROGRAM COMMITTEE

T.P. Straatsma

Darren J. Kerbyson

Daniel G. Chavarria

Sriram Krishnamoorthy

Abhinav Vishnu

## REGISTER

To indicate interest in attending the workshop or to submit an abstract for the poster session, please send an email to ***ppme@pnnl.gov***. There are no fees to attend the workshop but places are limited and pre-registration is required.

## VENUE

**Portland Marriott City Center**
520 Southwest Broadway · Portland, Oregon 97205