

AMS SHORT COURSE: SYMPLYIFYING END-TO-END NUMERICAL MODELING USING SOFTWARE CONTAINERS

7-11 JANUARY 2018

AUSTIN CONVENTION CENTER

AUSTIN, TX

ORGANIZERS

Jamie Wolff, Tara Jensen, John Halley Gotway and Kate Fossell

AMS COMMITTEE ON PROBABILITY AND STATISTICS

Kevin Goebbert, Chairperson

Tara Jensen, Matt Peroutka, Elizabeth Satterfield and Scott Sellars, Co-Chairs

PROGRAM (ROOM 17B)

SAT 6 JANUARY

8:30 A.M. ARRIVAL & INTRODUCTIONS

8:45 A.M. WHY USE CONTAINERS?
INTRODUCTION TO DOCKER

9:15 A.M. PARTICIPANTS INSTALL
COURSE CONTAINERS ON
LAPTOPS

9:30 A.M. INTRODUCTION TO
CONTAINERIZED NUMERICAL
MODEL (WRF), PRE-PROCESSOR
(WPS) AND VISUALIZATION
(NCL) SYSTEMS

10:00 A.M. COFFEE BREAK

10:30 A.M. MODIFYING WRF/WPS RUN-
TIME OPTIONS WITHIN THE
CONTAINER

10:50 A.M. PARTICIPANTS RUN WPS, WRF,
AND NCL CONTAINERS FOR
SELECT CASE(S)

12:00 P.M. SHORT COURSE LUNCHEON
(ON YOUR OWN)

1:30 P.M. INTRODUCTION TO
CONTAINERIZED POST-
PROCESSOR (UPP) AND
MODIFYING FOR USER-
SPECIFIED NEEDS

SAT 6 JANUARY (CONTINUED)

1:50 P.M. INTRODUCTION TO
CONTAINERIZED VERIFICATION
TOOLS (MET) AND MODIFYING
FOR USER-SPECIFIED NEEDS

2:30 P.M. PARTICIPANTS RUN UPP AND
MET CONTAINERS USING
OUTPUT FROM EARLIER
EXERCISE

3:00 P.M. COFFEE BREAK

3:30 P.M. INTRODUCTION TO
CONTAINERIZED PLOTTING
OF STATISTICAL OUTPUT
(METVIEWER)

3:50 P.M. PARTICIPANTS RUN
METVIEWER CONTAINER

4:30 P.M. REVIEW TAKE-AWAY
CONCEPTS DEMONSTRATED
DURING THE COURSE; SOLICIT
EXPERIENCES FROM HANDS-
ON EXERCISES; ANSWER ANY
REMAINING QUESTIONS

5:00 P.M. END COURSE