

BUILDING A 3D-PRINTED AUTOMATIC WEATHER STATION SHORT COURSE

SHORT COURSE ORGANIZERS

Paul A. Kucera and Martin Steinson

AMS COMMITTEE ON PROBABILITY AND STATISTICS

Richard W. Katz, Chairperson

William M. Briggs, Tilmann Gneiting, Thomas M. Hamill, Elise V. Johnson,
Cecile Penland, Joseph T. Schaefer, David B. Stephenson, Marina M. Timofeyeva, and David A. Unger

SAT 05 JAN

- 8:30 A.M.** **ARRIVAL AND INTRODUCTIONS.** Paul Kucera, UCAR, Boulder, CO
- 8:45 A.M.** **OVERVIEW OF THE 3D-PRINTED AUTOMATIC WEATHER STATION (3D-PAWS).**
Paul Kucera, UCAR, CO
- 9:30 A.M.** **OVERVIEW OF HOW TO 3D PRINT A WEATHER STATION.** Martin Steinson, UCAR,
Boulder, CO
- 10:00 A.M.** **COFFEE BREAK**
- 10:30 A.M.** **3D-PRINTED AUTOMATIC WEATHER STATION (3D-PAWS) SENSOR EVALUATION.**
Paul Kucera, UCAR, Boulder, CO
- 10:50 A.M.** **OVERVIEW OF THE 3D-PAWS OPEN SOURCE DOCUMENTATION.** Martin Steinson,
UCAR, Boulder, CO
- 11:05 A.M.** **OVERVIEW OF THE 3D-PAWS SOFTWARE SYSTEM.** Paul Kucera, UCAR, Boulder,
CO
- 11:30 A.M.** **DEMONSTRATION OF THE 3D-PRINTING AND ASSEMBLY PROCESS.** Martin
Steinson, UCAR, Boulder, CO
- 12:00 P.M.** **SHORT COURSE LUNCHEON (included).**
- 1:30 P.M.** **HANDS-ON EXPERIENCE OF PRINTING, ASSEMBLING, AND TESTING OF 3D-PAWS
SENSORS.** Three stations will be setup: 3D-printing, assembly, testing where participants
will gain experience in making one of the 3D-PAWS sensors
- 3:00 P.M.** **COFFEE BREAK**
- 3:30 P.M.** **HANDS-ON EXPERIENCE OF PRINTING, ASSEMBLING, AND TESTING OF 3D-PAWS
SENSORS (continued)**
- 4:30 P.M.** **WRAP UP AND GROUP DISCUSSION ON DESIGN, IMPROVEMENTS, AND NEW
SENSOR DEVELOPMENT.**

*Please provide your program in this layout style and font for ease of layout.

*Please keep the start time of 8:30am with 30-minute coffee breaks at 10:00am and 3:00pm. Lunch is generally 90 minutes starting at 12:00pm. The course should conclude by 5:00pm.