

DUAL-POLARIZED PHASED ARRAY ANTENNAS FOR WEATHER RADARS

SHORT COURSE ORGANIZERS

Jorge Salazar and Caleb Fulton

AMS RADAR METEOROLOGY COMMITTEE

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

SUN 13 SEPT.

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| 8:45 A.M. | ARRIVAL AND INTRODUCTIONS. Jorge Salazar and Caleb Fulton, OU, Norman, OK |
| 9:00 A.M. | INTRODUCTION TO PHASED ARRAY ANTENNAS AND INTRODUCTION TO CHALLENGES IN WEATHER APPLICATIONS. Caleb Fulton, OU, Norman, OK |
| 10:00 A.M. | PRACTICAL ELEMENT AND ARRAY DESIGN CONSIDERATIONS AND EXAMPLES, Jorge Salazar, OU, Norman, OK |
| 10:55 A.M. | COFFEE BREAK |
| 11:05 A.M. | AN OVERVIEW OF ARRAY CALIBRATION, MODELING, AND MEASUREMENTS. Caleb Fulton, OU, Norman, OK |
| 12:00 P.M. | LUNCH, WITH CONTINUED MATERIALS FOR DISCUSSION |
| 1:00 P.M. | TOUR OF OU/NSSL DUAL POL PHASED ARRAYS. Caleb Fulton, OU, Norman, OK |
| 1:50 P.M. | COFFEE BREAK |
| 2:00 P.M. | LIVE DEMONSTRATIONS OF ARRAY ANTENNA CHARACTERIZATION, S-PARAMETERS, MUTUAL COUPLING, EMBEDDED ELEMENT PATTERNS, AND POLARIZATION. Jorge Salazar, OU, Norman, OK |
| 4:00 P.M. | WRAP-UP DISCUSSIONS AND TIME FOR QUESTIONS |