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panel 1	**OBJECT-BASED ENSEMBLE PREDICTION SYSTEM KONRAD3D-EPS** *1) Lukas Josipovic, 2) Gregor Pante, 3) Andreas Brechtel, 4) Nora-Linn Strotjohann, 5) Ulrich Blahak* 1) German Meteorological Service , 2) German Meteorological Service , 3) German Meteorological Service , 4) German Meteorological Service , 5) German Meteorological Service	*Abstract ID:24*
panel 2	**OPERATIONAL WIND TURBINE CLUTTER REMOVAL IN THE FINNISH WEATHER RADAR NETWORK: METHODOLOGY AND IMPACT ON DATA QUALITY** *1) Jenna Ritvanen, 2) Pauli Anttonen, 3) Harri Hohti, 4) Mikko Kurri, 5) Annakaisa von Lerber* 1) Finnish Meteorological Institute, Helsinki, Finland - Institute for Atmospheric and Earth System Research, Faculty of Science, University of Helsinki, Helsinki, Finland, 2) Finnish Meteorological Institute, Helsinki, Finland , 3) Finnish Meteorological Institute, Helsinki, Finland , 4) Finnish Meteorological Institute, Helsinki, Finland , 5) Finnish Meteorological Institute, Helsinki, Finland	*Abstract ID:26*
panel 3	**AN INTER-RADAR INTERFERENCE SUPPRESSION METHOD FOR WEATHER RADAR DATA WITHOUT MODIFYING THE RADAR'S INTERNAL SIGNAL PROCESSING** *1) Shota Ochi, 2) Noritsugu Shiokawa, 3) Tomomi Aoki, 4) Masakazu Wada, 5) Satoshi Kida* 1) Toshiba Corporation , 2) Toshiba Corporation , 3) Toshiba Corporation , 4) Toshiba Digital Solutions Corporation , 5) Toshiba Digital Solutions Corporation	*Abstract ID:42*
panel 4	**RADAR OPERATIONAL NETWORK AND PRODUCTS IN FRANCE** *1) Ludovic Bouilloud, 2) Tom Nicolau, 3) Sylvain Chaumont, 4) Jean Millet, 5) Milka Radojevic, 6) Mathilde Moureaux* 1) Météo-France/Weather Radar Center , 2) Météo-France/Weather Radar Center , 3) Météo-France/Weather Radar Center , 4) Météo-France/Weather Radar Center , 5) Météo-France/Weather Radar Center , 6) Météo-France/Weather Radar Center	*Abstract ID:50*
panel 5	**A QUALITY INDEX FOR RE-SITING A WEATHER RADAR WITHIN A NETWORK** *1) Patri Altube, 2) Nicolau Pineda, 3) Ferran Fabró, 4) Oriol Rodríguez* 1) Servei Meteorològic de Catalunya , 2) Servei Meteorològic de Catalunya , 3) Servei Meteorològic de Catalunya , 4) Servei Meteorològic de Catalunya	*Abstract ID:55*
panel 6	**METHODS USED TO ESTIMATE DIFFERENTIAL PHASE DERIVED BASE DATA WITHIN THE BARON PROCESSOR SUITE** *1) Mrinal Balaji, 2) Darrin Cartwright, 3) James Romines* 1) Baron Weather Inc , 2) Baron Weather Inc , 3) Baron Weather Inc	*Abstract ID:60*
panel 7	**QZDRCAL: AN UPDATED FULL SEASON ZDR CALIBRATION ALGORITHM USING DRY AGGREGATED SNOW IN U.S. NEXRAD OPERATION** *1) Jiaxi Hu, 2) Alexander Ryzhkov, 3) John Krause* 1) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman, OK 73072, USA - NOAA/OAR National Severe Storms Laboratory, Norman, OK 73072, USA, 2) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman, OK 73072, USA - NOAA/OAR National Severe Storms Laboratory, Norman, OK 73072, USA, 3) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman, OK 73072, USA - NOAA/OAR National Severe Storms Laboratory, Norman, OK 73072, USA -	*Abstract ID:63* **Online**
panel 8	**LEVERAGING FAIR PRINCIPLES FOR EFFICIENT MANAGEMENT OF METEOROLOGICAL RADAR DATA** *1) Alfonso Ladino, 2) Maxwell Grover, 3) Stephen Nesbitt, 4) Kai Mühlbauer* 1) University of Illinois at Urbana Champaign , 2) Argonne National Laboratory , 3) University of Illinois at Urbana Champaign , 4) University of Bonn Germany	*Abstract ID:87*
panel 9	**COMPARISON OF CONVENTIONAL AND NOVEL TECHNIQUES FOR REFLECTIVITY CALIBRATION MONITORING** *1) Alexander Myagkov, 2) Tatiana Nomokonova, 3) Michael Frech* 1) Radiometer Physics GmbH, Meckenheim, Germany , 2) Radiometer Physics GmbH, Meckenheim, Germany , 3) Meteorological Observatory Hohenpeissenberg, German Weather Service (DWD), Germany	*Abstract ID:102*

panel 10	**A UNIFIED FRAMEWORK FOR STUDYING WEATHER RADAR NETWORKS** *1) Shafi Sardar, 2) Marc Schleiss, 3) Apostolos Pappas, 4) Francesco Fioranelli* 1) Dept. of Geoscience and Remote Sensing, Faculty of Civil Engineering and Geoscience, Delft University of Technology , 2) Dept. of Geoscience and Remote Sensing, Faculty of Civil Engineering and Geoscience, Delft University of Technology , 3) Dept. of Microelectronics, Faculty of Electrical Engineering, Mathematics and Computer Science, Delft University of Technology , 4) Dept. of Microelectronics, Faculty of Electrical Engineering, Mathematics and Computer Science, Delft University of Technology	*Abstract ID:104* **Award candidate**
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panel 13	**ADVANCEMENTS IN RADAR-DRIVEN CONVECTIVE CELL DETECTION AND NOWCASTING AT DEUTSCHER WETTERDIENST (DWD)** *1) Manuel Werner, 2) Robert Feger, 3) Lukas Josipovic, 4) Christian Berndt, 5) Cornelia Strube* 1) German Weather Service (DWD) , 2) German Weather Service (DWD) , 3) German Weather Service (DWD) , 4) German Weather Service (DWD) , 5) German Weather Service (DWD)	*Abstract ID:131*
panel 14	**MONITORING AND QUANTIFYING WIND TURBINE CLUTTER (WTC) IN DWD WEATHER RADAR DATA** *1) Michael Frech, 2) Annette Böhm, 3) Maximilian Schaper* 1) Deutscher Wetterdienst , 2) Deutscher Wetterdienst , 3) Deutscher Wetterdienst	*Abstract ID:134*
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panel 16	**TROPICAL RAINFALL ESTIMATES FROM COMMERCIAL MICROWAVE LINKS IMPROVE BY RELATING RAINFALL RETRIEVAL ALGORITHM PARAMETERS TO LOCAL NETWORK AND ENVIRONMENTAL FEATURES** *1) Bas Walraven, 2) Aart Overeem, 3) Miriam Coenders, 4) Rolf Hut, 5) Luuk van der Valk, 6) Remko Uijlenhoet* 1) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands , 2) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute (KNMI), Utrechtseweg 297, 3731 GA De Bilt, The Netherlands - Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands, 3) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands , 4) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands , 5) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands , 6) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands	*Abstract ID:180*

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panel 19	**USE OF OPERATIONAL WEATHER RADARS IN THE QUALITY ASSESSMENT OF EUMETSAT H SAF PRECIPITATION PRODUCTS** *1) Marco Petracca, 2) Jan Kanak, 3) Bozena Lapeta, 4) Alexander Toniazzo, 5) Nicoletta Roberto, 6) Silvia Puca* 1) Institute of Atmospheric Sciences and Climate, National Research Council (CNR-ISAC), Rome , 2) Slovak Hydrometeorological Institute, Bratislava, Slovakia , 3) Satellite Remote Sensing Department, Institute of Meteorology and Water Management - National Research Institute, Krakow, Poland , 4) Civil Protection Department (DPC), Rome, Italy , 5) Civil Protection Department (DPC), Rome, Italy , 6) Civil Protection Department (DPC), Rome, Italy	*Abstract ID:325*
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panel 24	**SYSTEM DIFFERENTIAL PHASE – A HISTOGRAM APPROACH** *1) Kai Mühlbauer, 2) Velibor Pejcic, 3) Silke Trömel* 1) Institute of Geosciences, Meteorology Section, University Bonn , 2) Institute of Geosciences, Meteorology Section, University Bonn , 3) Institute of Geosciences, Meteorology Section, University Bonn	*Abstract ID:255*
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panel 33	**MITIGATION OF PERSISTENT CLUTTER IN SWEDISH WEATHER RADAR PRODUCTS** *1) Günther Haase, 2) Daniel Johnson, 3) Ulf Nordh, 4) Anders Henja* 1) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden , 2) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden , 3) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden , 4) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden Henjab AB, Växjö, Sweden	*Abstract ID:321*
panel 34	**CML APPLICATIONS WITHIN EMILIA ROMAGNA WEATHER SERVICE, ARPAE SIMC.** *1) Elia Covi, 2) Anna Fornasiero, 3) Pier Paolo Alberoni* 1) Hydro-Meteorological and Climate Service of Emilia-Romagna Region (Arpae-SIMC) , 2) Hydro-Meteorological and Climate Service of Emilia-Romagna Region (Arpae-SIMC) , 3) Hydro-Meteorological and Climate Service of Emilia-Romagna Region (Arpae-SIMC)	*Abstract ID:322*
panel 35	**MONITORING THE QUALITY OF OPERA RAINFALL COMPOSITES FOR REAL-TIME FLASH FLOOD FORECASTING IN THE EDERA PROJECT** *1) Shinju Park, 2) Emily Kemp, 3) Marc Berenguer, 4) Daniel Sempere-Torres* 1) Centre of Applied Research in Hydrometeorology, Universitat Politècnica de Catalunya , 2) Centre of Applied Research in Hydrometeorology, Universitat Politècnica de Catalunya , 3) Centre of Applied Research in Hydrometeorology, Universitat Politècnica de Catalunya , 4) Centre of Applied Research in Hydrometeorology, Universitat Politècnica de Catalunya	*Abstract ID:334* **Online**
panel 36	**IMPLEMENTATION OF OPEN-SOURCE SOFTWARE IN AN OPERATIONAL RADAR PROCESSING CHAIN USING RAINBOW** *1) Tiemo Mathijssen, 2) Aart Overeem, 3) Sebastian Knist, 4) Ronald Hannesen* 1) Royal Netherlands Meteorological Institute, Utrechtseweg 297, 3731 GA, De Bilt, The Netherlands , 2) Royal Netherlands Meteorological Institute, Utrechtseweg 297, 3731 GA, De Bilt, The Netherlands , 3) Leonardo Germany GmbH, Raiffeisenstraße 10, 41470 Neuss, Germany , 4) Leonardo Germany GmbH, Raiffeisenstraße 10, 41470 Neuss, Germany	*Abstract ID:341*
panel 37	**CLEAR AIR AND WIND SHEAR MODES ON THE SOLID-STATE MOBILE RADAR** *1) Ondřej Pitaš, 2) Jan Horák, 3) Miloslav Staněk, 4) Filip Najman, 5) Jakub Bartel* 1) Meteopress , 2) Meteopress , 3) Meteopress Charles University, Faculty of Science, 4) Meteopress , 5) Meteopress	*Abstract ID:343*
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panel 40	**CALIBRATING THE AZIMUTH POINTING OF WEATHER RADAR USING GROUND CLUTTER CORRELATION** *1) Jiankai Huang , 2) Jiapeng Yin1 , 3) Jianbing Li* 1) The State Key Laboratory of Complex Electromagnetic Environment Effects on Electronics and Information System, National University of Defense Technology, China; 2) The State Key Laboratory of Complex Electromagnetic Environment Effects on Electronics and Information System, National University of Defense Technology, China; 3) The State Key Laboratory of Complex Electromagnetic Environment Effects on Electronics and Information System, National University of Defense Technology, China	*Abstract ID:386*
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panel 44	**WEATHER RADAR CALIBRATION BASED ON FAR-FIELD ANTENNA PATTERN MEASUREMENTS WITH THE UAS-BASED RADIO FREQUENCY SONDE (RFSONDE)** *1) Antonio Segales, 2) David Schvartzman, 3) Khuda Burdi, 4) Robert Palmer* 1) University of Oklahoma Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO), 2) University of Oklahoma Advanced Radar Research Center and School of Meteorology, 3) University of Oklahoma Advanced Radar Research Center School of Electrical and Computer Engineering, 4) University of Oklahoma Advanced Radar Research Center and School of Meteorology	*Abstract ID:18*
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panel 46	**GROUND CLUTTER RECOGNITION ALGORITHM BASED ON TIME-FREQUENCY CHARACTERISTICS OF PHASED ARRAY WEATHER RADAR IQ DATA** *1) Haojun Chen, 2) Qiyu Chen, 3) Chao Liu, 4) Chongxiang Zhang, 5) Jie Zheng, 6) Qian Wu, 7) Guorong Wang, 8) Wen Yang* 1) Shanghai Meteorological Information and Technical Support Center East China Phased Array Weather Radar Application Joint Laboratory, 2) Zhejiang Eastone Washon Science and Technology Ltd. East China Phased Array Weather Radar Application Joint Laboratory, 3) Shanghai Meteorological Information and Technical Support Center , 4) Shanghai Meteorological Information and Technical Support Center , 5) Shanghai Meteorological Information and Technical Support Center , 6) Zhejiang Eastone Washon Science and Technology Ltd. East China Phased Array Weather Radar Application Joint Laboratory, 7) Zhejiang Eastone Washon Science and Technology Ltd. East China Phased Array Weather Radar Application Joint Laboratory, 8) Zhejiang Eastone Washon Science and Technology Ltd. East China Phased Array Weather Radar Application Joint Laboratory	*Abstract ID:32*

panel 47	**PRELIMINARY STUDY ON THE APPLICATION OF NETWORK WIND PROFILE RADAR INVERSION PRODUCTS IN VERTICAL OBSERVATIONS IN SHANGHAI** *1) Yunong Guan, 2) Haojun Chen, 3) Chao Liu, 4) Chunguang Yin, 5) Chongxiang Zhang, 6) Jie Zheng* 1) Shanghai Meteorological Information and Technical Support Center , 2) Shanghai Meteorological Information and Technical Support Center , 3) Shanghai Meteorological Information and Technical Support Center , 4) Shanghai Meteorological Information and Technical Support Center , 5) Shanghai Meteorological Information and Technical Support Center , 6) Shanghai Meteorological Information and Technical Support Center	*Abstract ID:33*
panel 48	**NEW RANGE UNFOLDING ALGORITHM SUITABLE FOR PHASED ARRAY WEATHER RADAR** *1) Chao Liu, 2) Zhenhuan Wang, 3) Haojun Chen, 4) Wen Yang, 5) Guorong Wang* 1) Shanghai Meteorological Bureau , 2) Zhejiang Eastone Washon Science and Technology Ltd , 3) Shanghai Meteorological Bureau , 4) Zhejiang Eastone Washon Science and Technology Ltd East China Phased Array Weather Radar Application Joint Laboratory, 5) Zhejiang Eastone Washon Science and Technology Ltd East China Phased Array Weather Radar Application Joint Laboratory	*Abstract ID:37*
panel 49	**A STUDY ON MISSING DATA CORRECTION TECHNIQUE FOR WEATHER RADAR DATA USING MACHINE LEARNING** *1) Tomomi Aoki, 2) Noritsugu Shiokawa, 3) Shota Ochi, 4) Yasunori Nakagawa* 1) TOSHIBA corporation , 2) TOSHIBA corporation , 3) TOSHIBA corporation , 4) Toshiba Digital Solutions Corporation	*Abstract ID:41*
panel 50	**STAGGERED PRF PROCESSING WITHIN THE BARON PROCESSOR SUITE** *1) Mrinal Balaji, 2) Darrin Cartwright, 3) James Romines* 1) Baron Weather Inc , 2) Baron Weather Inc , 3) Baron Weather Inc	*Abstract ID:59*
panel 51	**VERIFYING THE CLUTTER SUPPRESSION CAPABILITY OF X- AND C-BAND WEATHER RADARS EQUIPPED WITH SOLID STATE POWER AMPLIFIER TRANSMITTERS** *1) Pekka Puhakka, 2) Jere Mäkinen, 3) Marjan Marbouti* 1) Vaisala , 2) Vaisala , 3) Vaisala	*Abstract ID:80*
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panel 53	**ENHANCED CALIBRATION AND COMPARISON METHODOLOGY FOR W-BAND CLOUD RADAR UTILIZING DISDROMETER RAIN DATA** *1) Felix Yanovsky, 2) Christine Unal, 3) Oleksandr Pitertsev, 4) Herman Russchenberg* 1) Delft University of Technology - Faculty CEG - Department of Electronics, Robotics, Monitoring and IoT Technology, National Aviation University, Kyiv, Ukraine, 2) Delft University of Technology - Faculty CEG - Delft University of Technology - Climate Institute, 3) Department of Electronics, Robotics, Monitoring and IoT Technology, National Aviation University, Kyiv, Ukraine , 4) Delft University of Technology - Faculty CEG - Delft University of Technology - Climate Institute -	*Abstract ID:84*
panel 54	**THE EFFECTS OF THE ANTENNA APPROXIMATION METHOD ON THE CALCULATION OF THE POLARIMETRIC BIASES** *1) Djordje Mirkovic, 2) David Schvartzman, 3) Dusan Zrnic* 1) Cooperative Institute for Severe and High-impact Weather Research and Operations (CIWRO), The University of Oklahoma - National Severe Storms Laboratory, (OAR/NOAA), 2) School of Meteorology, The University of Oklahoma - 4. Advanced Radar Research Center, The University of Oklahoma, 3) National Severe Storms Laboratory, (OAR/NOAA) - School of Meteorology, The University of Oklahoma -	*Abstract ID:92*
panel 55	**ASSESSMENT OF EDDY DISSIPATION RATE ESTIMATION METHODS USING DOPPLER WIND LIDAR** *1) Seungwon Baek, 2) Kwonil Kim, 3) Jung-Hoon Kim, 4) GyuWon Lee* 1) BK21 Weather Extremes Education & Research Team, Department of Atmospheric Sciences, Center for Atmospheric REmote sensing (CARE), Kyungpook National University, Republic of Korea , 2) Marine and Atmospheric Sciences, Stony Brook University, New York, USA , 3) School of Earth and Environmental Sciences, Seoul National University, Republic of Korea , 4) BK21 Weather Extremes Education & Research Team, Department of Atmospheric Sciences, Center for Atmospheric REmote sensing (CARE), Kyungpook National University, Republic of Korea	*Abstract ID:94*
panel 56	**LOOKING AT PULSED INTERFERENCE, FILTERS, AND PULSE COMPRESSION** *1) Christopher Curtis, 2) Feng Nai* 1) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - NOAA/OAR National Severe Storms Laboratory - , 2) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - NOAA/OAR National Severe Storms Laboratory	*Abstract ID:138*

panel 57	**UNLEASHING THE POWER: REVOLUTIONIZING WEATHER OBSERVATION WITH THE ADVANCED TECHNOLOGY DEMONSTRATOR AT THE NATIONAL SEVERE STORMS LABORATORY** *1) Sebastián Torres* 1) CIWRO, The University of Oklahoma - NOAA/OAR National Severe Storms Laboratory	*Abstract ID:146*
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panel 59	**SINGLE FM PULSE NEAR RANGE SIGNAL RECOVERY WITH OFF-THE-SHELF DSPS** *1) Sergey Panov, 2) Jukka Hynninen, 3) Jordan Santillo, 4) Teemu Suitiala* 1) Vaisala Inc. , 2) Vaisala Oy , 3) Vaisala Oy , 4) Vaisala Oy	*Abstract ID:157*
panel 60	**DIRECT FILTERING VERSUS MULTI-STEP APPROACH IN THE WEATHER RADAR DSP** *1) Jordan Santillo, 2) Jim George, 3) Jukka Hynninen, 4) Sergey Panov, 5) Teemu Suitiala* 1) Vaisala Oy , 2) Colorado State University , 3) Vaisala Oy , 4) Vaisala Inc. , 5) Vaisala Oy	*Abstract ID:159*
panel 61	**IMPROVING WEATHER RADAR IMAGE QUALITY USING NEW DIRECT DECONVOLUTION ALGORITHM** *1) Anastasia Tyurina, 2) Fritz O'Hora, 3) Sergey I Panov* 1) Second Star Algonumerix LLC , 2) Vaisala Inc. , 3) Vaisala Inc.	*Abstract ID:161*
panel 62	**CHARACTERIZATION AND DETECTION OF DOWNBURSTS AND THEIR PRECURSORS WITH AN ALL-DIGITAL POLARIMETRIC PHASED ARRAY WEATHER RADAR IN A CLUTTER ENVIRONMENT** *1) Tian-You Yu, 2) Nathan Kuhr, 3) David Bodine, 4) Sebastian Torres, 5) Charles Kuster* 1) Advanced Radar Research Center, University of Oklahoma - School of Electrical and Computer Engineering, University of Oklahoma - School of Meterology, University of Oklahoma, 2) Advanced Radar Research Center, University of Oklahoma - School of Meterology, University of Oklahoma , 3) Advanced Radar Research Center, University of Oklahoma - School of Meterology, University of Oklahoma , 4) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - NOAA/OAR National Severe Storms Laboratory, 5) NOAA/OAR National Severe Storms Laboratory	*Abstract ID:193*
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panel 65	**UNDER THE HOOD - HOW SIGNAL PROCESSING IN THE WSR-88D PROVIDES THE BEST QUALITY DATA** *1) David Warde, 2) Sebastian Torres* 1) CIWRO, The University of Oklahoma - NOAA/OAR, NSSL, 2) CIWRO, The University of Oklahoma - NOAA/OAR, NSSL	*Abstract ID:257*
panel 66	**CHARACTERIZATION OF WIND TURBINE CLUTTER (WTC) CONTAMINATION ON THE WSR-88D** *1) David Warde, 2) Feng Nai, 3) Sebastian Torres* 1) CIWRO, The University of Oklahoma - NOAA/OAR, NSSL, 2) CIWRO, The University of Oklahoma - NOAA/OAR, NSSL, 3) CIWRO, The University of Oklahoma - NOAA/OAR, NSSL -	*Abstract ID:258*
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panel 73	**IMPROVING DATA ACCURACY OF CLOUD RADARS WITH MULTIPLE CALIBRATION METHODS INCLUDING AN ACTUATED NEAR-FIELD SPHERE** *1) Tim Wendler, 2) Andrei Lindenmaier, 3) Vagner Castro* 1) Pacific Northwest National Lab and Brookhaven National Lab, U.S.A., 2) Pacific Northwest National Lab and Brookhaven National Lab, U.S.A., 3) Pacific Northwest National Lab and Brookhaven National Lab, U.S.A.	*Abstract ID:385*
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