

SCHEDULE OF EVENTS – 22nd Annual NWA Severe Storms and Doppler Radar Conference

Thursday March 22, 2018

12:00 – 1:00 pm Conference Registration Opens

1:00 pm CONFERENCE BEGINS -- Remarks by Chris Maiers (Central IA NWA Chapter President)

SESSION 1: INTERACTIVE RADAR/WARNING WORKSHOP (session chair: Mike Fowle – NWS-DMX)

1:05 – 1:10 Introduction (Rod Donavon and Mike Fowle – NWS-DMX)

1:10 – 1:30 Radar Interrogation Tutorial

1:30 – 1:45 WarnGen and GR Tutorial, Q/A (Rod Donavon and Mike Fowle – NWS-DMX and Daryl Herzmann – Iowa State University)

1:45 – 2:00 Situational Awareness – Synoptic/Mesoscale Overview (Rod Donavon and Mike Fowle – NWS-DMX)

2:00 – 3:30 Interactive Radar Warning Workshop – Rod Donavon and Mike Fowle (NWS-DMX), Daryl Herzmann (Iowa State University), Dave Flory (Iowa State University), and Chris Maiers (DNR)

3:30 – 3:50 Event/Session Review (Daryl Herzmann -- Iowa State University)

3:50 – 4:10 BREAK

SESSION 2: SEVERE WEATHER I (session chair: Mike Fowle – NWS-DMX)

4:10 – 4:50 INVITED PRESENTATION – Patrick Marsh (SPC) – "Everything but the Locusts: A Storm Prediction Center Perspective of High-Impact Weather Events of 2017"

4:50 – 5:45 BREAK

5:45 – 7:45 EVENING BANQUET, ANNOUNCEMENT OF DISTINGUISHED MEMBERS – Kenny Podrazik (NWS-DMX, Chapter VP) **and PAM DAAL AND TIM SAMARAS SCHOLARSHIP AWARDS –** Michael Fowle (NWS-DMX – Scholarship Team Chair), **AND SPECIAL PRESENTATION –** Josh Wurman (Center for Severe Weather Research) "There's more to life than Tornadoes: Keeping busy with Hurricanes, MCSs in the northern and southern hemispheres, Eclipses, Fires, Snowstorms, Boundary Layers, Typhoons, and a COW (our newest radar).....and tornadoes too"

8:15 – 9:45 CAREER MENTORING ACTIVITY (Amber Alexander – WHO-TV Des Moines, Bob Smerbeck – Accu-Weather and Nick Lesser – DTN, Morgan Yarker – Yarker Consulting, Bill Gallus – Iowa State University and Jana Houser – Ohio University, Jessica Brooks -- NWS-DVN – NWS-hydrology, Kenny Podrazik -- NWS-DMX – NWS-forecasting) (announcements will be made at opening and banquet)

Friday March 23, 2018

8:10 – 8:20 Weather Briefing

SESSION 3: SEVERE WEATHER I (session chair: Jim Lee – NWS-DMX)

8:20 – 8:40 Analyses of a Simulated Severe MCS and Tornadic Mesovortex Observed by PECAN on 5-6 July 2015 – Matthew Flourney (University of Oklahoma) and Michael Coniglio (NSSL)

8:40 – 9:00 An Evaluation of Significant Wind-Driven Hail Events across the United States – Zachary Hiris (SUNY Oswego) and Michael Fowle (NWS-DMX)

9:00 – 9:20 Generation of Calibrated Probabilistic Hazard Guidance for Short-Range Severe Weather Outlooks – Caleb Grunzke (CIMMS) and Israel Jirak (SPC)

9:20 – 9:40 Multiple-Doppler Analysis of Severe Storms on 10 May 2016 Utilizing Open Source Software – Tom Hultquist (NWS-MPX)

9:40 – 10:00 BREAK

SESSION 4: TORNADOES I (session chair: Melinda Beerends – NWS-DMX)

10:00 – 10:30 INVITED PRESENTATION – Erik Rasmussen (NSSL) – “Supercell Tornadogenesis: VORTEX94-95 through RiVorS”

10:30 – 10:50 Confirming Bottom Up Tornadogenesis in the 31 May 2013 El Reno Tornado – Jana Houser (Ohio University)

SESSION 5: HURRICANES (session chair: Melinda Beerends – NWS-DMX)

10:50 – 11:30 INVITED PRESENTATION – Bill Read (Texas A&M Galveston, former National Hurricane Center Director) – “Harvey, Irma and Maria – Observations from an Old Operational Meteorologist”

11:30 - 1:10 Lunch (on your own)

SESSION 6: FLOODING (session chair: Kelsey Angle – NWS-DMX)

1:10 – 1:30 INVITED PRESENTATION – Jeff Zogg and Jeff Johnson (NWS-DMX) – “The Great Flood of 1993”

1:30 – 2:00 INVITED PRESENTATION – L. D. McMullen (Former Director, Des Moines Waterworks) – “Recovery of Des Moines Water Works Treatment Plant”

2:00 – 2:20 10 Years Later: Looking Back at the Destructive Iowa Floods of 2008 – Jessica Brooks (NWS-DVN)

2:20 – 2:40 A Review of FLASH Performance for Three Flash Flood Events in July 2017 – Jeff Makowski and Peter Rogers (NWS-ARX)

2:40 – 3:00 BREAK

SESSION 7: TORNADOES II (session chair: Rodney Donavon – NWS-DMX)

3:00 – 3:40 INVITED PRESENTATION – Chris Luhring (Parkersburg City Administrator) – “A Look Back at the Parkersburg EF5 Tornado, May 25, 2008 – A Recovered Community”

3:40 – 4:00 The Ohio Valley Tornado Outbreak of 2017 November 5: An Examination of the Long-Track EF2 Tornado across Eastern Indiana/Western Ohio – Jeff Logsdon, Todd Holsten, Geoff Heidelberger, and Lonnie Fisher (NWS-Northern Indiana)
Tri-State Tornadoes of 2017: Unique Setups and Challenges of Forecasting in a Radar Hole – Nick Steward (KGAN CBS2)

SESSION 8: TECHNOLOGY (session chair: Rodney Donavon – NWS-DMX)

4:00 – 4:30 INVITED PRESENTATION – Dr. Patrick Marsh (SPC) – “Coming Soon to a Storm Prediction Center Near You!”

4:30 – 5:30 RECEPTION AND CASH BAR (*Simultaneous with Poster Session*)

SESSION 9: POSTERS (4:30 – 5:30)

(1) An Approach for Evaluating Probabilistic Convective Outlooks (Nathan Hitchens – Ball State University)

(2) Relationship of Latitudinal Extent of Tornado Outbreaks to Atmospheric Parameters (Joey Krastel and William Gallus, Jr. -- Iowa State University)

(3) Analysis of the Rear Flank Gust Front Surge's Role on the Path and Intensity of the May 20th, 2013 Moore, OK Tornado (Jacob Smith and William Gallus, Jr. -- Iowa State University)

(4) Microphysical and Horizontal Grid Spacing Influences on WRF Forecasts of Convective Morphology Evolution for Nocturnal MCSs in Weakly-Forced Environments (Jonathan Thielen and William Gallus, Jr. – Iowa State University)

(5) Can moisture and temperature errors within the simulated nocturnal low-level jet be used to predict MCS displacement errors in WRF? (Nicholas Vertz and William Gallus, Jr. – Iowa State University)

(6) Cloud Based Radar Training – Cloud Based Radar Simulations (COBRAS) (Thomas Turnage - -- NWS-GRR, Travis Wilson and Paul Iniguez -- NWS-PHX, and Jeremy Martin -- NWS-GLD)

(7) Improving Tornado Warning Decision Making through New Conceptual Models and Interrogation Techniques with WSR-88D Dual-Polarization Products (John Stoppkotte – NWS-LBF, and Aaron Johnson – NWS-DDC)

(8) Parkersburg-New Hartford, IA EF-5 Tornado (Karl Jungbluth, retired, NWS-DMX)

5:30 – 7:30 (Dinner on your own)

SESSION 10a: BROADCASTER TAPE SWAP (chair: Brett McIntyre – WHO-TV, Des Moines)

7:30 – 9:30 Broadcaster Tape Swap

Saturday April 1, 2017

8:10 – 8:20 Weather Briefing

SESSION 11: SEVERE WEATHER III (session chair: William Gallus – Iowa State University)

8:20 – 8:40 Role of Boundary-Parallel Shear in Convection Initiation – Alexander Krull (NWS-DMX) and Adam Houston (University of Nebraska-Lincoln)

8:40 – 9:00 A Sub-Daily Tornado Climatology and its Implications on Forecasting – Makenzie Krocak (University of Oklahoma)

9:00 – 9:40 INVITED PRESENTATION – Ray Wolf (NWS-DVN), Allan Curtis (NWS-DMX), and Mike Fowle (NWS-DMX) – “The 29 June 1998 Midwest Derecho”

9:40 – 10:00 BREAK

SESSION 12: SOCIAL INTERACTION (session chair: Amber Alexander – WHO-TV Des Moines)

10:00 – 10:30 INVITED PRESENTATION – Julie Demuth (NCAR) – “Hey @weather, I’m really getting tired of huddling my little girls in the closet: Examining Risk Communication, Perceptions, and Responses for Evolving Tornado Threats”

10:30 – 10:50 Integrated Meteorologists within Emergency Management – Brent A. Clair (Adams County Emergency Management, Quincy, IL)

10:50 – 11:10 There’s Still NOAA Weather Radio?!? – Bruce Jones (Midland Radio Corporation)

11:10 – 11:30 To Warn or Not Warn? That Was the Question – Jim Sieveking, Fred Glass (NWS-LSX) and Alexander Elmore (St. Louis University)

11:30 - 1:10 LUNCH (on your own) [[Special ISU Alumni Luncheon at Hotel](#)]

SESSION 13: TORNADOES III (session chair: Alan Czarnetzki – Univ. of Northern Iowa)

1:10 – 1:30 Verification Statistics for Five Years of Tornadoes – 2013-2017 – Jacob Beitlich and Tom Hultquist (NWS-MPX)

1:30 – 1:50 Sub-Seasonal Prediction of Tornadoes and Large Hail in the U.S. – Victor Gensini (NIU)

1:50 – 2:10 Refining Operational Understanding of Tornadic Environments – Ben Herzog and John Gagan (NWS-MKX), Cory Rothstein (Univ. of Wisconsin-Milwaukee)

2:10 – 2:30 Analog-Based Severe Probability Guidance – Alexander Elmore, Kyle Perez, Charles Graves (St. Louis Univ.), and Chad Gravelle (NOAA/NWS Operations Proving Ground/CIMMS/OU)

2:30 – 2:50 Tri-State Tornadoes of 2017: Unique Setups and Challenges of Forecasting in a Radar Hole – Nick Stewart (KGAN CBS2)

2:50 – 3:10 The 16 May 2017 Northwest Wisconsin Long-Track Tornado – Michael Griesinger (NWS-MPX)

3:10 – 3:15 CLOSING REMARKS