



# Steve Wistar

Certified Consulting Meteorologist

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385 Science Park Road  
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[afb.accuweather.com/forensic-services](http://afb.accuweather.com/forensic-services)

## Professional Experience

- **AccuWeather, Inc.**
  - 1995 to Present: Senior Forensic Meteorologist
  - 1983 to Present: Senior Meteorologist
  - 1983 to 1987: Member of Hiring Committee
  - 1976 to 2022: Weather Forecaster
- **Geophysical Institute**
  - 1975: Satellite Research Meteorologist, University of Alaska, Fairbanks, Alaska
- **National Environmental Satellite Service**
  - 1974: Satellite Research Meteorologist, Camp Springs, Maryland

## Education

- **The Pennsylvania State University**
  - 1974: B.S. Meteorology

## Professional Affiliations

- American Meteorological Society
- National Weather Association

## Publications

- January 2019: "Detecting Comma-shaped Clouds for Severe Weather Forecasting using Shape and Motion," IEEE Transactions on Geoscience and Remote Sensing written by Xinye Zheng, Jianbo Ye, Yukun Chen, Stephen Wistar, Jia Li, Jose A. Piedra-Fernandez, Michael A. Steinberg and James Z. Wang
- June 2017: Quoted in "New IST research leverages big data to predict severe weather" article in Penn State News
- May 2015: Profiled in State College, The Magazine
- September 2011: Featured in Scientific American article on forensic meteorology
- August 2011: Featured in the New York Times article on forensic meteorology
- Fall-Winter 2004: "Forensic Meteorology: Weather or Not?" written by Sobel and Wistar. The Legal Investigator, Vol. XXXIII, No.2
- December 1975: "Investigations of Strong Valley Winds in Alaska Using Satellite Infrared Imagery" written by Marvill and Jayaweera. Monthly Weather Review, Vol. 103, No. 12, 1129-1136

## Honors and Accomplishments

- Awarded the nationally recognized Certified Consulting Meteorologist (CCM) designation by the American Meteorological Society
- Admitted as Expert Witness in Meteorology in numerous trials in many states, at both the state and federal level



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- Coordinator of numerous past weather research projects
- Author of over one thousand reports documenting weather conditions at particular times and places in the past
- Specialist in weather conditions relating to roof failures, including snow loading and drifting factors
- Operational weather forecaster preparing forecasts daily for major markets in United States and abroad
- Regular live and taped broadcasts in major United States and overseas markets
- Unofficial weather observer for Lemont, Pennsylvania
- Numerous weather presentations in educational settings
- Participant in the Future Meteorologists of America at the Franklin Institute in Philadelphia, Pennsylvania
- 1970s: Participated in early research into the use of satellite images in weather analysis
- Live radio weather broadcasts in major markets, including New York's WCBS, Chicago's WBBM and Washington's WNEW
- Patent Number 9760805, Issued September 2017 and Patent Number 10019658, Issued July 2018; Identifying Visual Storm Signatures from Satellite Images; with Co-Inventors James Z. Wang, Yu Zhang, Michael A. Steinberg, and Jia Li

## Speeches, Courses, and Conferences

- 2021-2022: Continuous Legal Education (CLE) course entitled "Forensic Meteorology: Revealing Weather Related Truths" presented to:
  - The Bar Association of Metropolitan St. Louis
  - Allegheny County, PA Bar Association
  - Erie County, PA Bar Association
  - Johnson County, KS Bar Association
  - Idaho State Bar Association
  - Federal Bar Association
- October 2017: Speech to Virginia Tech Geography Department Colloquium; "Stories From the World of Forensic Meteorology; Bringing the Science of Weather to the Courtroom"
- March 2015: Dual-Polarization Radar Application Workshop, Norman, Oklahoma
- September 2013: 36th Conference on Radar Meteorology, Breckenridge, Colorado
- January 2012: The Art and Science of Forensic Meteorology, New Orleans, Louisiana
- September 2011: 35th Conference on Radar Meteorology, Pittsburgh, Pennsylvania
- April 2010: 3rd International Lightning Meteorology Conference, Orlando, Florida
- April 2010: 21st International Lightning Detection Conference, Orlando, Florida
- April 2009: National Hurricane Conference, Austin, Texas
- April 2008: 28th Conference on Hurricane and Tropical Meteorology in Orlando, Florida
- January 2008: Member of panel discussing forensic meteorologists as part of Certified Meteorologists Forum at American Meteorological Society Annual Meeting, New Orleans, Louisiana
- April 2007: National Hurricane Conference, New Orleans, Louisiana