



# Steve Wistar

Certified Consulting Meteorologist

[steve.wistar@accuweather.com](mailto:steve.wistar@accuweather.com)

385 Science Park Road, State College, PA 16803  
[business.accuweather.com/for-business/services/forensics/](https://business.accuweather.com/for-business/services/forensics/)

## 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:** Xinye Zheng, Jianbo Ye, Yukun Chen, Stephen Wistar, Jia Li, Jose A. Piedra-Fernandez, Michael A. Steinberg and James Z. Wang, "Detecting Comma-shaped Clouds for Severe Weather Forecasting using Shape and Motion," IEEE Transactions on Geoscience and Remote Sensing, 14 pages, 2019.
- **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?", (Joint Author). Sobel and Wistar. The Legal Investigator, Vol. XXXIII, No.2
- **December 1975:** "Investigations of Strong Valley Winds in Alaska Using Satellite Infrared Imagery", (Joint Author). 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.
- Community Collaborative Rain, Hail & Snow (CoCoRASH) 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

- **2021-2023:** 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
  - Nashville Bar Association
  - Westmoreland County, PA Bar Association
  - Kansas 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:** 21st International Lightning Detection Conference, Orlando, Florida
- **April 2010:** 3rd International Lightning Meteorology 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