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Education

- 2002: Master of Science, Atmospheric Science, Colorado State University
- 2000: Bachelor of Science, Atmospheric Science, University of North Dakota
 - Minors in Mathematics and Computer Science

Professional Experience

- July 2002 – Present: Associate Scientist, NCAR Research Applications Laboratory, Boulder, CO
 - Develop, upgrade, and support the Current and Forecast Icing Products for the FAA by applying up to date knowledge of icing processes and instrumentation to the algorithms.
 - Research new techniques and ideas dealing with the physics of icing, and aid in field programs designed to better understand aircraft icing.
 - Present icing research findings and information about the algorithms to scientific audiences and users.
 - Perform data management for the ELDORA dual-Doppler radar including developing new analysis techniques and helping collect data in field programs.
- January 1999 – May 2000: Student Forecaster, Meridian Environmental Technology, Inc., Grand Forks, ND
 - Provided weather and road condition forecasts, which were used by road maintenance workers and the public for decision support.
- January 1999 – May 2000: Student Teaching Assistant, University of North Dakota, Grand Forks, ND
 - Taught the laboratory section of an introductory meteorology class, which involved lecturing on the current lab topic, running the lab, and developing and grading weekly quizzes for 15 – 20 student.
- May 1998 – December 1998: Student Research Assistant, Regional Weather Information Center, Grand Forks, ND
 - Aided in research of winter storm tracks for an internal forecast algorithm.
 - Developed an online forecasting contest and scoring system for use in atmospheric science classes.

Competencies and Interests

- Weather Interests: Cloud Physics, Mesoscale Meteorology, Forecasting, Agricultural Applications, Societal Impacts
- Computer Skills:
 - Operating Systems: Linux, Windows, OsX
 - Languages/Packages: C/C++, Python, Fortran, NCL, NCAR Graphics, HTML, MySQL, Matlab, Excel, Photoshop, Illustrator
- Personal Interests: Reading, Skiing, Basketball, Hiking, Camping, Traveling

Honors and Achievements

- 2009: Weather and Society * Integrated Studies (WAS*IS) Participant
- 2005: NASA “Turning Goals into Reality” Group Achievement Award
- 2000: AMS Graduate Fellowship
- 2000: University of North Dakota Atmospheric Science Department Outstanding Student Award
- 1999: AMS Undergraduate Scholarship

Selected Publications

- Bernstein, B.C., McDonough, F., Politovich, M.P., Brown, B.G., Ratvasky, T.P., Miller, D.R., Wolff, C.A., and Cuning, G.C., 2005: Current Icing Potential (CIP): Algorithm description and comparison with aircraft observations. *J. Applied Met.*, **44**, 969 – 986.
- Bernstein, B. C., C. A. Wolff, and F. McDonough, 2007: An inferred climatology of icing conditions aloft, including supercooled large drops. Part I: Canada and the continental United States. *J. Applied Meteor. Clim.*, **46**, 1857 – 1878.
- Bell, M. M., W. C. Lee, C. A. Wolff, and H. Cai, 2012: An automated procedure for quality control of airborne tail Doppler radar data. Submitted to *J. Atmos. and Oceanic Tech.*
- Wolff, C.A, F. McDonough, M.K. Politovich, B.C. Bernstein, and G. M. Cuning, 2008: FIP severity technical document. *Prepared for the Aviation Weather Technology Transfer Technical Review Panel.* Report available from C. Wolff (cwolff@ucar.edu).
- Wolff, C. A., F. McDonough, and B. C. Bernstein, 2011: An examination of aircraft icing conditions associated with cold fronts. *SAE 2011 Conference on Aircraft and Engine Icing and Ground Deicing.* Chicago, 13 – 17 June. 2011-38-0020.
- Wolff, C.A., M. M. Bell, W-C. Lee, and H. Cai, 2011: Recent progress on the automatic quality control of ELDORA data. *35th Conf. on Radar Meteorology.* Pittsburgh, 26 – 30 September. Available online from AMS.
- Wolff, C. A., T. F. Lee, C. Mitrescu, S. D. Landolt, S. D. Miller, and J. A. Kankiewicz, 2008: Using CloudSat data to validate icing products. *13th Conference on Aviation, Range, and Aerospace Meteorology.* New Orleans, 20 – 24 January. Available online from AMS.
- Wolff, C.A., B.C. Bernstein, and F. McDonough, 2005: Nowcasting aircraft icing conditions using GOES-derived cloud products. *WWRP Symposium on Nowcasting and Very Short Range Forecasting*, Toulouse, France, 5-9 September.
- Wolff, C. A. and Bernstein, B. C., 2004: Scales of aircraft icing: A comparison of icing PIREPs to liquid water measurements from research aircraft. Preprints: 11th Conference on Aviation, Range, and Aerospace Meteorology, 4 – 8 October, Hyannis, MA, American Meteorological Society, Boston, MA.

References

Available upon request.