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**Degrees** Ph.D., Atmospheric Sciences, 1975, University of Washington, Seattle. (under Businger)  
B.S. Ch. E., Chemical Engineering, 1971, University of Washington, Seattle.

**Certifications:** Certified Consulting Meteorologist (CCM) through American Met. Soc. in USA since 1991  
Certified Flight Instructor (CFII) in USA: single & multiengine land, instrument, airplane. 1978-Present  
Licensed Commercial Pilot in USA: single & multiengine land, instrument, airplane. 1977 - Present  
Licensed Private Pilot in Canada. 2000 - Present

**Positions:** Professor, Atmospheric Sci. Program, EOAS Dept., Univ. of British Columbia. 1995-Present  
Professor, Dept. of Atmospheric & Oceanic Sciences, Univ. of Wisconsin-Madison. 1989-1995  
Visiting Scientist, IBM Environmental Sci. & Solutions Centre, Bergen, Norway, Summer 1992  
Visiting Scientist, German Aerospace Research Establishment (DLR), Munich. 1988  
Associate Professor, Dept. of Meteorology, Univ. of Wisconsin-Madison. 1985-1989.  
Visiting Scientist, Royal Netherlands Meteorological Institute (KNMI), DeBilt. 1986  
Assistant Professor, Dept. of Meteorology, Univ. of Wisconsin-Madison 1979-1985.  
Num. Predict. Meteorologist, Global Weather Central, Nebraska. 1975-79.  
Summer Fellow in Scientific Computing, NCAR, Boulder, CO. 1973.

**Field Experiences:** 2010 Winter Olympics. My team ran a field station on Whistler Mtn. 2007-2010.  
Vancouver Field Obs: My team deployed 9 weather stations in greater Vancouver, BC. 2004-present.  
Rocketsonde Experimental Launches in BC and Texas, 2002, 2003.  
FIRESTORM forest-fire field program, British Columbia, Canada, 2001  
Pacific 2001 air pollution field program, Georgia Basin, BC, Canada, 2001.  
Boundary Layer Experiment 1996 (BLX96), Kansas & Oklahoma (PI), 1996.  
Atmospheric Radiation Measurement (ARM) Intensive Op Period (IOP), Kansas & OK. 1995  
Fronts Experiment Systems Test (STORM-FEST), Seneca, Kansas, 1992.  
Pine Bluff Field Experiment, Pine Bluff, Wisconsin, 1989.  
Longitudinal land-surface Traverse Experiment (LOTREX), Braunschweig, Germany, 1988.  
Hydrologic Atmospheric Pilot Experiment (HAPEX), Toulouse, France, 1986.  
Boundary Layer Experiment - 1983 (BLX83), Oklahoma (Co-PI).  
Cooperative Convective Precipitation Experiment (CCOPE), Montana, 1981.  
GARP Atlantic Tropical Experiment (GATE), Dakar, Africa, 1974.  
Puerto Rican boundary layer experiment, 1972.

**Service:** Director, Geophysical Disaster Computational Fluid Dynamics Centre, UBC. 2000-present  
Chair, Atmos. Sci. Program, Univ. of British Columbia, Canada, 1996-2000, 2007-08, 2010-2015.  
Director, Western Canada Regional Modeling Consortium. Funds mesoscale forecasting. 1997-present.  
Associate Chairman (Grad.Chair), Dept. of Atmos. & Oceanic Sci., Univ. of Wisconsin. 1989-1995  
Associate Editor, Journal of Applied Meteorology, AMS Glossary of Meteorology.  
Advisory Panel Member: NSF/NCAR Observing Facility Advisory Panel (OFAP) 1996-1999.  
Program Chairman for 1997 AMS 12th Symposium on Boundary Layers and Turbulence,

**Courses Taught:** 21 different courses in meteorology and climatology at all undergrad and grad levels.  
Teaching Evaluations: Above departmental averages at both U. Wisc. and UBC.  
Winner of (Canada-wide) Killam Teaching Prize, May 2015.

**Graduate Students Supervised:** While at U. Wisc: Major prof for 22 MS and PhD students, Committee member for 51. Formal external examiner for 3 Ph.D. students from: Canada, Australia, India  
While at UBC: Major prof. for over 22 PhD students, 17 MSc. Students. Supervised 9 postdocs. Committee member for 27 students. External or university examiner for 19 students.

**Memberships:** Royal Meteorological Society - international fellow,  
American Meteorological Society - fellow & Certified Consulting Meteorologist (CCM),  
Canadian Meteorological and Oceanographic Society - fellow.

**Honors:** Fellow in both the Canadian Meteorological & Ocean. Society, and American Meteorol. Society.

**Areas of Research Interest:** Numerical weather prediction (including climate adaptation, ensemble forecasting, weather-related disasters, Kalman filtering, clean-energy production, probabilistic forecasting), mountain meteorology, mesoscale meteorology, atmos. boundary layers, turbulence, dispersion and air quality, aviation meteorology. See: <https://www.eoas.ubc.ca/research/facilities/gdcfdc>

**Research Grants & Contracts:** over 130 during the 22 years at UBC.

**Public Seminars and Colloquia Given:** over 300 at locations including:

Germany: Univ. Bonn, Univ. Hannover, Univ. Karlsruhe, München Univ., Univ. Göttingen.

Switzerland: Univ. of Bern, Swiss Federal Inst. of Tech-Zurich.

Netherlands: Wageningen Ag. Univ., Amsterdam Acad. of Arts and Sci.

Norway: IBM Bergen Scientific Centre.

Portugal: Univ. of Aveiro.

Spain: Univ. of Madrid, Polytech Inst. of Madrid.

England: Cambridge Univ.

At international government agencies: RISØ-Denmark, DLR-Germany, KNMI-Netherlands, ECMWF-England, British Met. Office-England, CNRM-France, NATO-Germany.

European Geophysical Society (EGS) Conferences in Spain, Germany, Denmark, France.

IAMAP/IPSO/IUGG Conferences in Hawaii and Vienna.

OHOLO Conference in Israel.

Universities: Gave talks at 8 universities in Canada and 15 universities in the USA.

Numerous TV & radio interviews, including CNN. Numerous public lectures to civic & school groups.

**Web Sites Developed:** My UBC Weather Forecast Team serves over 3000 new weather map images every day as output from our daily real-time ensemble weather forecasts, <http://weather.eos.ubc.ca/wxfest/>

**Infrastructure on Hand for my Research Team to do Weather and Climate Forecasts:**

Many workstations and computers, including a 448-core linux cluster.

## **Publications**

Total refereed journal publications: over 100. More being submitted each year.

Single-author textbooks:

Stull, R.B., 1988: *An Introduction to Boundary Layer Meteorology*. Kluwer/Springer, 666pp.

Stull, R.B. 2017: *Practical Meteorology: An Algebra-based Survey of Atmospheric Science*. 940pp.

Free online worldwide. [http://www.eoas.ubc.ca/books/Practical\\_Meteorology/](http://www.eoas.ubc.ca/books/Practical_Meteorology/)

Chapters in other books: 10 (including Wallace & Hobbs 2006: *Atmos. Science, An Intro. Survey, 2Ed*)

**Citizenship:** Dual: Canada and USA.