

## CURRICULUM VITAE

Catherine F. Cahill

December 27, 2005

### CURRENT POSITION:

Associate Professor of Chemistry  
Geophysical Institute  
Department of Chemistry & Biochemistry  
University of Alaska Fairbanks  
Fairbanks, Alaska 99775-6160

### EDUCATION:

University of California, Davis	1990	Applied Physics	B.S.
University of Washington, Seattle	1994	Atmospheric Science	M.S.
University of Nevada, Reno	1996	Atmospheric Science	Ph.D.

### HONORS:

Fulbright Graduate Student Fellowship, 1996-1997 (11 months conducting research at University College Galway's Mace Head Atmospheric Research Station, a World Meteorological Organization Global Atmospheric Watch site)  
Who's Who in the World  
Who's Who in America  
Who's Who in Science and Engineering  
Who's Who Among America's Teachers  
College of Science, Engineering & Mathematics Award for 'Extraordinary Performance,' 2003  
UAF Outstanding Advisor Award, 2002  
Geophysical Institute Award for 'Extraordinary Performance,' 2001  
Sigma Xi  
Outstanding Desert Research Institute Graduate Student, 1996  
Sigma Pi Sigma  
Outstanding Physics Leadership Award, 1990  
American Western University Fellowship, 1989  
Cal Aggie Alumni Scholarship, 1986

### TEACHING EXPERIENCE:

University of Alaska Fairbanks

2004	General Chemistry II (CHEM 106) 3 hours lecture with 3 hours lab. 4 credits.
2003	Introduction to Atmospheric Science (ATM 601/ATM 401/CHEM 601) 3 hours lecture. 3 credits.
2001, 03, 05	Physical Chemistry (CHEM 332) 3 hours lecture. 3 credits.
2001	Weather and Climate of Alaska (ATM 101X) 3 hours lecture with 3 hours lab. 4 credits.
2000, 02	Physical Chemistry (CHEM 331) 3 hours lecture. 3 credits.

- 2000, 02, 06 Environmental Fate and Transport (CHEM 631) 3 hours lecture. 3 credits.  
 1999 Contemporary Chemistry Seminar (CHEM 194) 1 hour lecture. 1 credit.  
 1999 Chemistry and The Modern World (CHEM 100X) 3 hours lecture with 3  
 hours lab. 4 credits.  
 1998, 99, 01, Instrumental Methods in Physical Chemistry (CHEM 434W) 1 hour  
 04, 05 lecture with 6 hours lab. 3 credits.

<b>Graduate Students Supervised:</b>	Joseph Sheedy	M.S.	2001
	Walter J. Wilcox	M.S.	2001
	Laurie Martin	M.S.	2005
	Ted Wu	Ph.D.	2006
	Joy Gonzales	Ph.D.	current

Service on Graduate Student Committees, not including above, at UAF - 17 (1998-2006)

### **PROFESSIONAL EXPERIENCE:**

- 2004 - Present Associate Professor of Chemistry (Atmospheric Chemistry), University of Alaska Fairbanks.
- 2002 – Present Member of the U.S.-China Polar Science Panel
- 2000 - 2001 Program Coordinator for the Atmospheric Science Program, University of Alaska Fairbanks
- 1998 - 2004 Assistant Professor of Chemistry and Atmospheric Science (Atmospheric Chemistry), University of Alaska Fairbanks.
- 1998 (Spr.) Member of Graduate Faculty, University of Nevada, Reno.
- 1997 - 1998 Visiting Assistant Research Professor (Atmospheric Chemistry/Aerosol Physics), Desert Research Institute.
- 1996 - 1997 Fulbright Fellow (Aerosol Physics), University College, Galway, Ireland.
- 1994 - 1996 Research Assistant (Atmospheric Chemistry/Aerosol Physics), Desert Research Institute.
- 1992 - 1994 Research Assistant (Aerosol Physics), Department of Atmospheric Sciences, University of Washington.
- 1992 - 1993 Editorial Assistant, Basic Physical Chemistry for the Atmospheric Sciences, by P.V. Hobbs.
- 1992 (Fall) Teaching Assistant, Department of Atmospheric Sciences, University of Washington.
- 1990 - 1991 Research Assistant (Physical Oceanography), School of Oceanography, University of Washington.

- 1989 (Sum.) Student Researcher (Plasma and Laser Physics), Lawrence Livermore National Laboratory.
- 1989 (Sum.) Student Researcher (Nuclear Physics), Crocker Nuclear Laboratory, University of California, Davis.
- 1986 - 1989 Student Assistant II (Aerosol Physics), Air Quality Group, University of California, Davis.

#### **MEMBERSHIP IN SCIENTIFIC SOCIETIES:**

Air & Waste Management Association (1994 - 1999)  
American Association for Aerosol Research  
American Chemical Society (2000 Chair of the Alaska Section)  
American Geophysical Union  
International Society for Aerosols in Medicine  
Sigma Pi Sigma  
Sigma Xi

#### **PROFESSIONAL SERVICE:**

Member of the U.S.-China Polar Science Panel  
Chair of the Alaska Section, American Chemical Society (2000)

#### **UNIVERSITY SERVICE AND GOVERNANCE:**

Faculty Senate Administrative Committee (5/05-present)  
Graduate Academic and Advisory Committee (9/04-present)  
Faculty Senate Member (5/04-present)  
Faculty Senate CSEM Alternate (3/02 – 5/04)  
Program Coordinator for Atmospheric Science (2000 - 2001)  
Geophysical Institute Employee Recognition Committee (1999 – 2004)  
Search Committees (8 committees between 1998 and 2003)

#### **PUBLIC SERVICE IN A PROFESSIONAL CAPACITY:**

Geophysical Institute Math & Science Enrichment Program Presenter (2000, 2002-2003)  
Girl Scout Junior Event Day Presenter (1999, 2002, 2005)  
Science Potpourri Presenter (2000-2001, 2003-2004)  
Alaska High School Science Symposium Judge (1999, 2001-2003)  
Alaska High School Science Symposium Mentor (2005)

## **RECENT ADMINISTRATIVE EXPERIENCE:**

### As Program Coordinator of Atmospheric Science

- Developed and initiated approval of a revised Atmospheric Science core curriculum
- Proposed an accepted initiative to hire a joint Atmospheric Science/International Arctic Research Center faculty member
- Initiated the hiring of a senior Atmospheric Scientist

## **RESEARCH ACTIVITIES:**

### Principal Investigator (total: \$858,420):

Cold Climate Housing Research Center. “Interior Smoke Remediation.” 7/14/04-6/30/06. \$2,700.

NOAA Grant. “Atmospheric Aerosols over the Bering and Chukchi Seas.” 6/1/04-12/31/05. \$24,405.

John Hopkins University-Applied Physics Laboratory Grant. “University Partnering for Operational Support – Sampler for Quick Response Dust Storm Measurements.” 4/01/04-4/30/06. \$160,000.

Alaska Department of Environmental Conservation. “Regional Haze Drum Sampling.” 6/25/03-6/30/04. \$5,000.

NOAA Grant. “Sources of Mercury Reaching the Arctic: Airborne Particulate Mercury in China.” 10/02-3/04. \$50,000.

John Hopkins University-Applied Physics Laboratory Grant. “University Partnering for Operational Support –China Dust Aerosol Measurement and Model Validation.” 10/01/02-10/30/04. \$65,000.

U.S. Fish & Wildlife Service Grant. “St. Matthew Air Sampling.” 7/01/02-12/31/02. \$2,000.

Air Resource Specialists Grant. “Data Analysis and Reporting.” 7/01/02-8/31/03. \$3,000.

Alaska Department of Environmental Conservation Grant. “Air Quality Drum Sampler.” 3/02-6/30/02. \$7,000.

John Hopkins University-Applied Physics Laboratory Grant. “University Partnering for Operational Support - Visibility Degradation Due to Rocket Launches.” 10/19/01-1/1/04. \$65,000.

NOAA Grant. “Persistent Organic and Trace Element Pollutants in the Alaskan and Eastern Russian Arctic.” 08/01/01-06/30/06. \$72,000.

NOAA/NSF and IARC/CIFAR Grant. “Interannual Variability of UV Radiance, Ozone and Aerosol Chemistry in the Arctic.” 05/01/00-9/15/02. \$380,000.

Asahi Breweries Foundation. “Aerosols and Ozone over Fairbanks, Alaska.” 05/01/00-10/31/01. \$9,315.33.

Air Resource Specialists. “Data Analysis and Reporting.” 05/01/00-6/30/00. \$3,000.

IARC. “Formulating IARC Research Projects for Theme IVa.” 02/02/99 – until spent. \$10,000.

Co-Principal Investigator (total: \$1,161,988):

NASA Grant. “Search for Indirect Aerosol Effects on Arctic Clouds.” 10/1/03-9/30/06. \$375,000.

John Hopkins University-Applied Physics Laboratory Grant. “University Partnering for Operational Support – D-1X Ice Fog.” 1/01/03-6/30/04. \$61,353.

NSF Grant. “REU: Summer research experience for undergraduates in the geosciences.” 3/01/01-02/28/06. \$227,741.

NOAA/NSF and IARC/CIFAR Grant. “Long-Term Trends and Spatial Variability in Arctic Haze at Four Sites in Western Alaska.” 05/01/00-09/15/02. \$133,549.

John Hopkins University-Applied Physics Laboratory Grant. “University Partnering for Operational Support – Urban Haze 2.” 05/01/99-12/31/02. \$364,345.

**REVIEWER:**

Journals:

Geophysical Research Letters  
Journal of Geophysical Research (Atmospheres)  
Journal of Geophysical Research (Oceans)  
Journal of the Air & Waste Management Association  
Journal of Canadian Fire Research  
Environmental Engineering Science

Proposals:

Department of Energy  
Environmental Protection Agency (panel reviewer 6/05)  
National Oceanic and Atmospheric Administration  
National Science Foundation

**INVITED LECTURES:**

RUSALCA Review and Planning Meeting, “Aerosols.” October 25-28, 2005, Kotor, Serbia and Montenegro.

Chautauqua Conference. "Atmospheric Chemistry in the Arctic." March 16, 2004, Fairbanks, AK.

AAAS 2004 Annual Meeting. "Transboundary Air Pollution at High Latitudes ." February 16, 2004, Seattle, WA.

Invited colloquium at the Third Institute of Oceanography, Xiamen, China. "Long-range Transport of Pollutants to the Arctic." November 11, 2002.

Invited colloquium at the National Marine Environment Forecast Center, Beijing, China. "Long-range Transport of Pollutants to the Arctic." November 7, 2002.

First China-United States International Workshop on Polar Science. "Long-range Atmospheric Transport ." May 27-29, 2002, Qingdao, China.

Chautauqua Conference. "Atmospheric Chemistry in the Arctic." March 20, 2002, Fairbanks, AK.

National Park Service Air Toxics Ecosystem Monitoring Program Meeting. "Alaska Contaminants Overview." February 7, 2002, Anchorage, AK.

Invited colloquium at the University of California, Davis, Department of Chemistry. "Aerosols in Alaska." October 9, 2001, Davis, CA.

2001 Northwest Regional Meeting of the American Chemical Society. "Atmospheric Chemistry in Alaska: Wildfire Smoke, Arctic Haze and Asian Emissions." June 14-17, 2001, Seattle, WA.

AAAS 51st Arctic Science Conference. "Crossing the Border into Arctic Science: Views from a Young Researcher." Sept. 21-23, 2000, Whitehorse, Yukon, Canada.

## **BIBLIOGRAPHY:**

### **A. Peer Reviewed Articles:**

Martin, L. and C.F. Cahill (2004) Recovery of DNA from Latent Blood after Identification by Fluorescein. *Journal of Forensic Identification*, 43(6), pp.660-667.

Cahill, C.F. (2003). Asian Aerosol Transport to Alaska during ACE-Asia. *J. Geophys. Res.*, 108 (D23), 8664, doi:10.1029/2002JD003271.

Wetzel, M.A., G.E. Shaw, J.R. Slusser, R.A. Borys and C.F. Cahill (2003). Physical, Chemical and Ultraviolet Radiative Characteristics of Aerosol in Central Alaska. *J. Geophys. Res.*, 108 (D14), 4418, doi:10.1029/2002JD003208.

Wilcox II, W.J. and C.F. Cahill (2003). Regional Haze Trends in Alaska: Implications for Protected Class I Visibility Areas. *EM*. Dec. 2003. pp. 34-39.

- Cao, N., R.L. Collins and C.F. Cahill (2002). An Eyesafe Lidar for Studies of Urban Ice Fog. In Lidar Remote Sensing in Atmospheric and Earth Sciences, Reviewed and revised papers presented at the twenty-first International Laser Radar Conference (ILRC), Quebec, Canada, 8-12 July 2002, L. R. Bissonnette, G. Roy, and G. Vallee editors, 141-144. Printed by Library Services, Defense R&D Canada-Valcartier, 2459 Pie-XI Blvd North, Val-Belair, QC G3J 1X5, Canada.
- Watson, J.G., J.C. Chow, D.H. Lowenthal, N.F. Robinson, C.F. Cahill, and D.L. Blumenthal (2002). Simulating Changes in Source Profiles from Coal-fired Power Stations: Use in Chemical Mass Balance of PM<sub>2.5</sub> in the Mt. Zirkel Wilderness. *Energy & Fuels*, 16 (2), pp. 311-324.
- Watson, J.G., J.C. Chow, D.H. Lowenthal, C.F. Cahill, D.L. Blumenthal, L.W. Richards, and H.G. Jorge (2001). Aerosol Chemical and Optical Properties during the Mt. Zirkel Visibility Study. *Journal of Environmental Quality*, 30 (4), pp. 1118-1125.
- Castaneda, C.M., L. McGarry, C.F. Cahill and T. Essert (1997). Secondary Electron Yields from the Bombardment of Al<sub>2</sub>O<sub>3</sub> by Protons, Deuterons, Alpha-particles and Positively Charged Hydrogen Molecules at Energies in the Range of 10 to 80 MeV. *Nucl. Instr. and Meth.*, B129, 199-202.
- Cahill, C.F., J.A. Herring, R.J. Ferek and P.V. Hobbs (1996). Composition and Evolution of Aerosols in the Smoke Plumes from the 1991 Kuwait Oil Fires. In *Biomass Burning and Global Change*, Vol. 2, J. S. Levine, ed. Boston, MIT Press, pp.877-888.

In preparation:

- Cahill, C.F. The Size- and Time-Resolved Composition of Aerosols from a Sub-Boreal Forest Prescribed Burn. In preparation for *Atmos. Environ.*
- Cahill, C.F., J. Dehn, T.A. Cahill and D.E. Barnes Volcanic Aerosols from the 2006 Mt. Augustine Eruption in preparation for the *J. of Geophys. Res.*
- Cahill, C.F., J.G. Watson and R. Vocke. The Use of Sulfur Isotopic Ratios for Determining the Sources of Sulfur in the Mt. Zirkel Wilderness Area. In preparation for *Geophys. Res. Let.*
- Carlson, D., C.F. Cahill, T.M. Cahill and J. Connor. Size Variability of Levoglucosan Aerosols in Forest Fire Smoke Using a Cascade Impactor. In preparation for *Environ. Sci. & Tech.*

## **B. Proceedings:**

- Fochesatto, J., J. J. Yue, R. L. Collins, C. Cahill, and K. Sassen (2005). Compact eye-safe backscatter lidar for aerosol studies in urban polar environment. In *Proceedings of SPIE Vol. #5887*, SPIE, USA.
- Wu, T. H., C.F. Cahill. (2005) Using Semi-permeable Membrane Devices (SPMDs) as Passive Air Samplers to Assess Persistent Organic Pollutants (POPs) in Alaska. American Chemical Society Northwest Regional Meeting, Fairbanks, AK.

- Cahill, C.F., L.Chen and Z. Gao. (2005). Aerosols collected during the 19th Chinese Antarctic Research Expedition (CHINARE 19) and the Second Chinese National Arctic Research Expedition (CHINARE II). Paper P1.12 in Proceedings of the AMS 85th Annual Meeting. San Diego, CA.
- Cahill, C., and E. Weatherhead (2001). Ozone Losses Increase Possible UV Impacts in the Arctic. In Witness the Arctic, Chronicles of the NSF Arctic Sciences Program, Winter 2000/2001, Volume 8, Number 2, pp. 1-2.
- Cahill, C.F. (2000). Asian Dust Transport to Denali National Park and Preserve and Crater Lake National Park. Invited Paper in Proceedings, First International Conference on Trans-Pacific Transport of Atmospheric Contaminants, July 27-29, 2000, Seattle, WA.
- Cahill, C.F. (1999). Beyond the Black Box: Successful Inclusion of Cutting-Edge Research Instrumentation in Undergraduate Instruction. In Proceedings of the 1999 Professional Development Online Conference sponsored by Honolulu Community College, April 22-23, 1999, Honolulu, HI. Archived by Dr. Jon Blumhardt (jon@hcc.hawaii.edu).
- Rogers, C.F., J.C. Chow, J.G. Watson, C.F. Cahill, S. Diaz, P.D. Koman, S. Sleva and R. Tropp. (1998). Mineral Dust Contributions to Fine Particle Mass. In Proceedings, PM2.5: A Fine Particle Standard, International Specialty Conference, sponsored by the A&WMA, U.S. EPA, and U.S. DOE, January 28-30, 1998, Long Beach, CA. Proceedings Vol. VIP-81. Edited by J. Chow and P. Koutrakis. A&WMA, Pittsburgh, PA.
- Cahill, C.F., D.D. Dutcher, P.H. Wakabayashi, M. Geever and S.G. Jennings (1997). The Size-Resolved Chemical Composition of Natural and Anthropogenic Aerosols at Mace Head, Ireland. In Proceedings, Visual Air Quality, Aerosols, & Global Radiation Balance, A&WMA Spec. Conf., Sept. 9-12, 1997, Attitash Bear Peak Summit, Bartlett, NH.
- Cahill, C.F., M.A. Seifert, D. Farrell and S.G. Jennings (1997). Peat Smoke: A Significant Contributor to Aerosol Optical Absorption in Ireland. In Proceedings, Visual Air Quality, Aerosols, & Global Radiation Balance, A&WMA Spec. Conf., Sept. 9-12, 1997, Attitash Bear Peak Summit, Bartlett, NH.
- Watson, J.G., J.C. Chow, C.F. Cahill, D. Blumenthal, L.W. Richards, D. Dietrich, D. Cobb, R. Morris and C. Emery (1997). Conclusions from the Mt. Zirkel Visibility Study. In Proceedings, Visual Air Quality, Aerosols, & Global Radiation Balance, A&WMA Spec. Conf., Sept. 9-12, 1997, Attitash Bear Peak Summit, Bartlett, NH.
- Cahill, C.F., J.G. Watson, J. Chow, D. Blumenthal, L. Lindsey, L.W. Richards, D. Dietrich, D. Cobb, D. Ely, S. Dayney, J. Walker, D. Haddow, R. Dickson, B. Morrison, J. Houck, W. Neff and S. Anderson (1996). An Overview of the Mt. Zirkel Wilderness Area Reasonable Attribution Study of Visibility Impairment. Paper No. A1204, in Proceedings, 89th Annual A&WMA Meeting, June 23-28, 1996, Nashville, TN.
- Hallett, J., C. Cahill and S.A. Cohen (1996). Airflow Associated with the Reno Basin Inversion. Paper AIAA 96-0507, in Proceedings, 34th Aerospace Sciences Meeting & Exhibit, January 15-18, 1996, Reno, NV.
- Cahill, C.F., D.R. Lawson, D.E. Schorran and R.E. Keislar (1995). An Examination of the Sources of Visibility Degradation at the Grand Canyon. Paper No. 95-WP96.04 in Proceedings, 88th Annual A&WMA Meeting, June 18-23, 1995, San Antonio, TX.

Cahill, C.F., R.E. Keislar, D.R. Lawson, D.E. Schorran, P.A. Walsh and M.C. Green (1994). Methylchloroform Transport of the Colorado Plateau: Implications for Visibility Degradation. Paper No. 5AP1 in Proceedings of Aerosols and Atmospheric Optics: Radiative Balance and Visual Air Quality, A&WMA International Spec. Conf., Sept. 26-30, 1994, Snowbird, UT.

Castaneda, C.M., L. McGarry, C. Cahill and T. Essert (1990). Secondary Electron Yields from the Bombardment of Al<sub>2</sub>O<sub>3</sub> by Protons, Deuterons, Alpha-particles and Positively Charged Hydrogen Molecules at Energies in the Range of 10 to 80 MeV. In Proceedings, 13th International Conference on the Applications of Accelerators in Research and Industry, 1990.

Campbell, D., S. Copeland, T.A. Cahill, R.A. Eldred, C.F. Cahill, J. Vesenka and T. VanCuren (1989). The Coefficient of Optical Absorption from Particles Deposited on Filters: Integrating Plate, Integrating Sphere, and Coefficient of Haze Measurements. Paper No. 89-151.6:1-4, in Proceedings, 82nd Annual A&WMA Meeting, June 25-30, 1989, Anaheim, CA.

### C. Abstracts:

Cahill, C.F., Y. Yee, T.E. Gill, A. Ruiz, S.P. Emmert, T.A. Cahill, F. Wilson, and E. Ellison (2005) Springtime Dust Aerosols at White Sands Missile Range, New Mexico. Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract P22B-02.

Wu, T.H. and C.F. Cahill (2005). Persistent Organic Pollutants in Semi-permeable Membrane Devices (SPMDs) Deployed in the Ambient Air of Alaska. Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract A11A-0847.

Hume, E.E. Jr., C.F. Cahill, S.S. Carr. (2004). Ground Based Aerosol Measurements: Applications, Methods and Plans. Eos Trans. AGU, 85(17), Jt. Assem. Suppl. Abstract A22A-02.

Jimenez-Cruz, M.P., T.A. Cahill, K.D. Perry, S.S. Cliff, C.F. Cahill and R.S. Disselkamp (2002). Aerosol Transport to the U.S. Receptor Sites during ACE-Asia. In Eos Trans. AGU, 83(47), Fall Meeting Suppl. Abstract A11A-0064.

Cahill, C.F., K.D. Perry, S.S. Cliff, M. Jimenez-Cruz and T.A. Cahill (2001). ACE-Asia: Asian Aerosol Transport into Alaska. In Abstracts, American Geophysical Union 2001 Fall Meeting, December 10-14, 2001, San Francisco, California, published by the American Geophysical Union.

Cahill, C.F. (2001). Atmospheric Chemistry in Alaska: Wildfire Smoke, Arctic Haze and Asian Emissions. In Abstracts, 2001 Northwest Regional Meeting of the American Chemical Society, June 14-17, 2001, Seattle, WA, published by the American Chemical Society.

Cahill, C.F. (2000b). Aerosol Evolution in Smoke from a sub-Arctic Boreal Forest Experimental Burn. In Abstracts, 19th Annual AAAR Conference, Nov. 6-10, 2000, St. Louis, MO, published by the American Association for Aerosol Research.

Cahill, C.F. (2000c). Crossing the Border into Arctic Science: Views from a Young Researcher. Invited Paper in Program and Abstracts, AAAS 51st Arctic Science Conference, Sept. 21-23, 2000, Whitehorse, Yukon, Canada, published by AAAS Arctic Division.

- Cahill, C.F., and A.J. Blakesley (1999). Air quality monitoring in Denali National Park: What does it tell us? In Program and Abstracts, 50th Arctic Science Conference, Sept. 19-22, 1999, Denali National Park and Preserve, Alaska, published by AAAS Arctic Division.
- Cahill, C.F., S.G. Jennings, S.S. Cliff, and T.A. Cahill (1999). European Aerosols at Mace Head, Ireland: Identification and Implications. In Abstracts, American Geophysical Union 1999 Fall Meeting, December 13-17, 1999, San Francisco, California, published by the American Geophysical Union.
- Cahill, C.F., W.R. Simpson, and R.L. Collins (1998). Atmospheric emissions from arctic fires: a method for evaluating emission composition as a function of flame zone and fuel type. In Program and Abstracts, 49th Arctic Science Conference/IARC Inauguration, 25-28 October 1998, Fairbanks, AK, published by AAAS Arctic Division.

#### **D. Technical Reports:**

- Cahill, C. (2005). Progress Report for Atmospheric Aerosols over the Bering and Chukchi Seas. In Report from CIFAR to NOAA on the fourth year of Cooperative Agreement No, NA17RJ1224 1 July 2004-30 June 2005. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska.
- Cahill, C. (2005). Progress Report for Sources of Mercury Reaching the Arctic: Airborne Particulate Mercury in China. In Report from CIFAR to NOAA on the fourth year of Cooperative Agreement No, NA17RJ1224 1 July 2004-30 June 2005. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska.
- Patton, G., C. Cahill, L. Barrie, P. Blanchard, E. Crecelius, P. Fellin, R. Schnell and G. Stern (2005). Final Report: Persistent Organic and Trace Element Pollutants in the Alaskan and Eastern Russian Arctic. In Report from CIFAR to NOAA on the fourth year of Cooperative Agreement No, NA17RJ1224 1 July 2004-30 June 2005. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska.
- Patton, G., P. Fellin, C. Cahill, G. Stern, L. Barrie, C. Green, H. Li, T. Fortman, E. Crecelius and B. Fritz (2005). Persistent Organic Pollutants in the Atmosphere at Barrow, Alaska. Prepared for the National Oceanic and Atmospheric Administration under contract no. 41759A. Published by Battelle-Pacific Northwest Division, Richland, Washington, 99352.
- Cahill, C. (2004). Progress Report for Sources of Mercury Reaching the Arctic: Airborne Particulate Mercury in China. In Report from CIFAR to NOAA on the third year of Cooperative Agreement No, NA17RJ1224 1 July 2003-30 June 2004. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska.
- Patton, G., C. Cahill, L. Barrie, P. Blanchard, E. Crecelius, P. Fellin, R. Schnell and G. Stern (2004). Progress Report: Persistent Organic and Trace Element Pollutants in the Alaskan and Eastern Russian Arctic. In Report from CIFAR to NOAA on the third year of Cooperative Agreement No, NA17RJ1224 1 July 2003-30 June 2004. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska.

- Cahill, C. (2003). Progress Report for Sources of Mercury Reaching the Arctic: Airborne Particulate Mercury in China. In Report from CIFAR to NOAA on the second year of Cooperative Agreement No, NA17RJ1224 1 July 2002-30 June 2003. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska.
- Patton, G., C. Cahill, L. Barrie, P. Blanchard, E. Crecelius, P. Fellin, R. Schnell and G. Stern (2003). Progress Report: Persistent Organic and Trace Element Pollutants in the Alaskan and Eastern Russian Arctic. In Report from CIFAR to NOAA on the second year of Cooperative Agreement No, NA17RJ1224 1 July 2002-30 June 2003. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska.
- Air Resource Specialists, Inc., and C.F. Cahill (2003). Final Report on the Results from the Poker Flat, Denali National Park and Preserve, and Trapper Creek CASTNET Protocol Sites July 1998 through June 2001. Prepared for the National Park Foundation, 1101 17th Street NW, Suite 1102, Washington D.C. 20036, August 2003 (77 pages).
- Cao, N., R.L. Collins and C.F. Cahill (2003). An Eye-Safe Lidar for Studies of Urban Ice Fog. Prepared for Applied Physics Laboratory, Johns Hopkins University under contract 807939 'University Partnering for Operational Support', by the Geophysical Institute, University of Alaska Fairbanks, Fairbanks, Alaska, January 2003 (28 pages).
- Cahill, C., G. Shaw, J.R. Slusser, R. Borys and M. Wetzel (2002). Final Report for Interannual Variability of UV Irradiance, Ozone and Aerosol Chemistry in the Arctic. In Final Reports: for projects funded jointly by the International Arctic Research Center and the Cooperative Institute for Arctic Research FY2001-FY2002. Published by the International Arctic Research Center and the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska, pp. 98-100.
- Shaw, G.E., P. Quinn, and C. Cahill (2002). Final Report for Long Term Trends and Spatial Variability in Arctic Haze at Four Sites in Western Alaska. In Final Reports: for projects funded jointly by the International Arctic Research Center and the Cooperative Institute for Arctic Research FY2001-FY2002. Published by the International Arctic Research Center and the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska, pp. 113-115.
- Patton, G., C. Cahill, L. Barrie, P. Blanchard, E. Crecelius, P. Fellin, R. Schnell and G. Stern (2002). Progress Report: Persistent Organic and Trace Element Pollutants in the Alaskan and Eastern Russian Arctic. In Report from CIFAR to NOAA on the first year of Cooperative Agreement No, NA17RJ1224 1 July 2001-30 June 2002. Published by the Cooperative Institute for Arctic Research, University of Alaska Fairbanks, Fairbanks, Alaska, pp. 51-52.
- Cahill, C., G. Shaw, J.R. Slusser, R. Borys and M. Wetzel (2001). Progress Report for Interannual Variability of UV Irradiance, Ozone and Aerosol Chemistry in the Arctic. In Progress Reports: for projects funded jointly by the International Arctic Research Center and the Cooperative Institute for Arctic Research FY2001. Published by the Cooperative Institute for Arctic Research and the International Arctic Research Center, University of Alaska Fairbanks, Fairbanks, Alaska, pp. 103-109.

- Shaw, G.E., P. Quinn, and C. Cahill (2001). Long Term Trends and Spatial Variability in Arctic Haze at Four Sites in Western Alaska. In Progress Reports: for projects funded jointly by the International Arctic Research Center and the Cooperative Institute for Arctic Research FY2001. Published by the Cooperative Institute for Arctic Research and the International Arctic Research Center, University of Alaska Fairbanks, Fairbanks, Alaska, pp. 116-120.
- Collins, R.L., and C.F. Cahill (2000). Lidar and Aerosol Measurements in the Planetary Boundary Layer: Results of the Frostfire Experiment. Prepared for Applied Physics Laboratory, Johns Hopkins University under contract 807939 'University Partnering for Operational Support', by the Geophysical Institute, University of Alaska Fairbanks, Fairbanks, Alaska, September 2000 (25 pages).
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