

Mads Peter Sulbaek Andersen

CURRICULUM VITAE - Web

(May 2009)

Present Position: Post Doctoral Researcher; University of California, Irvine.

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EDUCATION

Ph.D.

Atmospheric Chemistry, 2006

University of Copenhagen, Denmark

COGCI Ph.D. School ▪ advisor: Professor O. J. Nielsen
Dissertation: *Atmospheric Degradation of Fluorotelomer Alcohols - An Atmospheric Source of Perfluorinated Carboxylic Acids*

Master of Science

Physical Chemistry, 2002

University of Southern Denmark, Denmark

Department of Chemistry ▪ advisor: Professor C. Lohse
Thesis: *Atmospheric Degradation of Aromatic Compounds*

Master of Science

Humanistic Design Studies, 2001

University of Southern Denmark, Denmark

Subsidiary Courses at the Institute of Literature, Media and Cultural Studies
Specializing in *Design Theory and Design Analysis*

Bachelor of Science

Environmental Chemistry, 1999

University of Southern Denmark, Denmark / University of Salford, UK

Department of Chemistry ▪ advisor: Professor T. Stroyer Hansen
Thesis: *Nitrogenous Pollutants in European Water Resources*

RESEARCH INTERESTS

- Molecular spectroscopy and kinetics and mechanisms of reactions important in atmospheric chemistry.
- Aerosols, photochemistry and health: from the lower troposphere to the lower stratosphere.
- Atmospheric chemistry and environmental fate of non-CO₂ greenhouse gasses and their role in a feasible plan for climate stabilization.
- The environmental fate, dispersion, and persistence of consumer/industrial chemicals.
- Technologies addressing issues in energy, transportation and human health.
- Environmental policy: Impacts and economics of energy policies, sustainable strategies and global change.

APPOINTMENTS (RESEARCH EXPERIENCE)

2006 – present	Comer Postdoctoral Research Fellow University of California, Irvine Department of Chemistry (w. Professor F. S. Rowland/D. R. Blake)
2005 – 2006	Visiting Scientist (<i>concurrent doctoral student enrollment</i>) NASA Ames Research Center, Moffett Field, CA, USA Atmospheric Chemistry and Dynamics Branch
2003 – 2005	Research Scholar (<i>concurrent doctoral student enrollment</i>) University of Michigan, Dearborn, MI, USA College of Engineering and Computer Science
2001 – 2003	Visiting Researcher (<i>concurrent graduate student enrollment</i>) Ford Motor Company, Dearborn, MI, USA Department of Research and Advanced Engineering

TEACHING EXPERIENCE

- 2009** **Lecturer**, University of California, Irvine, USA
 ■ Department of Chemistry (*lower division*): General Chemistry - Chem 1A, Summer 2009.
- Lecturer**, University of California, Riverside, USA
 ■ Environmental Sciences Department (*upper division*): Principles of Environmental Impact Assessment – ENSC 172, Winter 2009.
- 2008** **Lecturer**, University of California, Irvine, USA
 ■ Department of Chemistry (*lower division*): General Chemistry - Chem 1C, Spring 2008
-
- 2001 – 2004** **Student Instructor**, Ford Motor Company, Dearborn, MI, USA
- 1998 – 2000** **Teaching Assistant**, University of Southern Denmark, Denmark
 ■ Physical Chemistry B.

PROFESSIONAL DEVELOPMENT

- 2006** **Stanford University, California, USA**
 Energy and Environmental Policy Analysis
 Professional Development Course,
 Center for Environmental Science and Policy
- 2004** **University Joseph Fourier, Grenoble, France**
 European Research Course on Atmospheres (ERCA)

PUBLICATIONS

37 publications in international refereed journals. These publications are cited by 589 other articles (ISI Web of Knowledge), averaging 15.9 citations per article.

37. **M. P. Sulbaek Andersen**, D. R. Blake, F. Sherwood Rowland, M. D. Hurley and T. J. Wallington: “Atmospheric Chemistry of Sulfuryl Fluoride: Reaction with OH Radicals, Cl Atoms and O₃, Atmospheric Lifetime, IR Spectrum, and Global Warming Potential”; *Environ. Sci. Technol.*, **2009**, *43*, 1067.
36. K. A. Gorham, **M. P. Sulbaek Andersen**, S. Meinardi, R. J. Delfino, N. Staimer, T. Tjoa, F. S. Rowland, and D. R. Blake: “Ethane and n-Pentane in Exhaled Breath are Biomarkers of Exposure not Effect”; *Biomarkers*, **2009**, *14*, 17.

35. S. A. Mang, D. K. Henricksen, A. P. Bateman, **M. P. Sulbaek Andersen**, D. R. Blake, and S. A. Nizkorodov: "Contribution of Carbonyl Photochemistry to Aging of Atmospheric Secondary Organic Aerosol";
J. Phys. Chem. A, **2008**, *112*, 8337.
34. **M. P. Sulbaek Andersen**, E. J. K. Nilsson, O. J. Nielsen, M. S. Johnson, M. D. Hurley and T. J. Wallington: "Atmospheric Chemistry of trans-CF₃CH=CHCl: Kinetics of the Gas-Phase Reactions with Cl atoms, OH radicals, and O₃";
J. Photochem. Photobiol. A: Chemistry, **2008**, *199*, 92.
33. T. J. Wallington, S. A. Mabury, M. D. Hurley, **M. P. Sulbaek Andersen**, O. J. Nielsen, D. A. Ellis, and J. W. Martin: "Comment on 'Atmospheric Chemistry of Linear Perfluorinated Aldehydes: Dissociation Kinetics of C_nF_{2n+1}CO Radicals'";
J. Phys. Chem. A, **2008**, *112*, 576.
32. I. J. Simpson, N. J. Blake, D. R. Blake, S. Meinardi, **M. P. Sulbaek Andersen** and F. Sherwood Rowland: "Strong evidence for negligible methyl chloroform (MCF) emissions from biomass burning";
Geophys. Res. Lett., **2007**, *34*, L10805, doi:10.1029/2007GL029383.
31. O. J. Nielsen, M. Javadi, **M. P. Sulbaek Andersen**, M. D. Hurley, T. J. Wallington and R. Singh: "Atmospheric Chemistry of CF₃CF=CH₂: Kinetics of Cl Atom, OH Radical and Ozone Initiated Oxidation";
Chem. Phys. Lett., **2007**, *439*, 18.
30. T. Nakayama, K. Takahashi, Y. Matsumi, A. Toft, **M. P. Sulbaek Andersen**, O. J. Nielsen, R. L. Waterland, R. C. Buck, M. D. Hurley and T. J. Wallington: "Atmospheric Chemistry of CF₃CH=CH₂ and C₄F₉CH=CH₂: Products of the Gas-Phase Reactions with Cl Atoms and OH Radicals";
J. Phys. Chem. A, **2007**, *111*, 909.
29. M. D. Hurley, J. C. Ball, T. J. Wallington, **M. P. Sulbaek Andersen**, O. J. Nielsen, D. A. Ellis, J. W. Martin and S. A. Mabury: "Atmospheric Chemistry of n-C_xF_{2x+1}CHO (x=1,2,3,4): Fate of n-C_xF_{2x+1}C(O) Radicals";
J. Phys. Chem. A, **2006**, *110*, 12443.
28. **M. P. Sulbaek Andersen**, A. Toft, O. J. Nielsen, M. D. Hurley, T. J. Wallington, H. Chishima, K. Tonokura, S. A. Mabury, J. W. Martin and D. A. Ellis: "Atmospheric Chemistry of Perfluorinated Aldehyde Hydrates (n-C_xF_{2x+1}CH(OH)₂, x=1,3,4): Hydration, Dehydration, and Kinetics and Mechanism of Cl Atom and OH Radical Initiated Oxidation";
J. Phys. Chem. A, **2006**, *110*, 9854.
27. M. Toft, M. D. Hurley, T. J. Wallington, **M. P. Sulbaek Andersen** and O. J. Nielsen: "Atmospheric Chemistry of RO(CH₂)₃OR (R = CF₃CFHCF₂, C₄F₉): Lifetimes, Degradation Products, and Environmental Impact";
Chem. Phys. Lett., **2006**, *427*, 41.
26. T. J. Wallington, M. D. Hurley, J. Xia, D. J. Wuebbles, S. Sillman, A. Ito, J. E. Penner, D. A. Ellis, J. W. Martin, S. A. Mabury, O. J. Nielsen and **M. P. Sulbaek Andersen**: "Formation of C₇F₁₅COOH (PFOA) during the Atmospheric Oxidation of 8:2 Fluorotelomer Alcohol (n-C₈F₁₇CH₂CH₂OH)";
Environ. Sci. Technol., **2006**, *40*, 930.

25. M. D. Hurley, J. C. Ball, T. J. Wallington, J. Missner, D. A. Ellis, J. W. Martin, S. A. Mabury and **M. P. Sulbaek Andersen**: "Atmospheric Chemistry of $\text{CF}_3\text{CH}_2\text{CH}_2\text{OH}$: Kinetics, Mechanisms and Products of Cl Atom and OH Radical Initiated Oxidation in the Presence and Absence of NO_x ";
J. Phys. Chem. A, **2005**, 109, 9816.
24. **M. P. Sulbaek Andersen**, O. J. Nielsen, A. Toft, T. Nakayama, Y. Matsumi, R. L. Waterland, R. C. Buck, M. D. Hurley and T. J. Wallington: "Atmospheric Chemistry of $\text{C}_x\text{F}_{2x+1}\text{CH}=\text{CH}_2$ ($x = 1, 2, 4, 6, 8$): Kinetics of Gas-Phase Reactions with Cl atoms, OH radicals, and O_3 ";
J. Photochem. Photobiol. A: Chemistry, **2005**, 176, 124.
23. F. Taketani, T. Nakayama, K. Takahashi, Y. Matsumi, M. D. Hurley, T. J. Wallington, A. Toft and **M. P. Sulbaek Andersen**: "Atmospheric Chemistry of CH_3CHF_2 (HFC-152a): Kinetics, Mechanisms, and Products of Cl atom and OH Radical Initiated Oxidation in Presence and Absence of NO_x ";
J. Phys. Chem. A, **2005**, 109, 9067.
22. **M. P. Sulbaek Andersen**, O. J. Nielsen, T. J. Wallington, M. D. Hurley and W. B. DeMore: "Atmospheric Chemistry of $\text{CF}_3\text{OCF}_2\text{CF}_2\text{H}$ and $\text{CF}_3\text{OC}(\text{CF}_3)_2\text{H}$: Reaction with Cl Atoms and OH radicals, Degradation Mechanism, Global Warming Potentials, and Empirical Relationship between $k(\text{OH})$ and $k(\text{Cl})$ for Organic Compounds";
J. Phys. Chem. A, **2005**, 109, 3926.
21. M. E. Jenkin, **M. P. Sulbaek Andersen**, M. D. Hurley, T. J. Wallington, F. Taketani and Y. Matsumi: "A kinetics and mechanistic study of the OH and NO_2 initiated oxidation of cyclohexa-1,3-diene in the gas phase";
Phys. Chem. Chem. Phys., **2005**, 7(6), 1194.
20. **M. P. Sulbaek Andersen**, O. J. Nielsen, M. D. Hurley, J. C. Ball, T. J. Wallington, D. A. Ellis, J. W. Martin and S. A. Mabury: "Atmospheric Chemistry of 4:2 Fluorotelomer Alcohol ($n\text{-C}_4\text{F}_9\text{CH}_2\text{CH}_2\text{OH}$): Products and Mechanism of Cl Atom Initiated Oxidation in the Presence of NO_x ";
J. Phys. Chem. A, **2005**, 109, 1849.
19. Hashikawa, M. Kawasaki, R. L. Waterland, M. D. Hurley, J. C. Ball, T. J. Wallington, **M. P. Sulbaek Andersen** and O. J. Nielsen: "Gas phase UV and IR absorption spectra of $\text{C}_x\text{F}_{2x+1}\text{CHO}$ ($x = 1-4$)";
J. Fluor. Chem., **2004**, 125 (12), 1925.
18. T. J. Wallington, M. D. Hurley, O. J. Nielsen and **M. P. Sulbaek Andersen**: "Atmospheric Chemistry of $\text{CF}_3\text{CFHCF}_2\text{OCF}_3$ and $\text{CF}_3\text{CFHCF}_2\text{OCF}_2\text{H}$: Reaction with Cl Atoms and OH Radicals, Degradation Mechanism, and Global Warming Potentials";
J. Phys. Chem. A, **2004**, 108, 11333.
17. Y. Hashikawa, M. Kawasaki, **M. P. Sulbaek Andersen**, M.D. Hurley, W. F. Schneider and T. J. Wallington: "Atmospheric Chemistry of CH_3CHF_2 (R-152a): Mechanism of the $\text{CH}_3\text{CHF}_2\text{O}_2 + \text{HO}_2$ Reaction ";
Chem. Phys. Lett., **2004**, 391, 165.
16. **M. P. Sulbaek Andersen**, C. Stenby, O. J. Nielsen, M. D. Hurley, J. C. Ball, T. J. Wallington, J. W. Martin, D. A. Ellis and S. A. Mabury: "Atmospheric Chemistry of $n\text{-C}_x\text{F}_{2x+1}\text{CHO}$ ($x=1,3,4$): Mechanism of the $n\text{-C}_x\text{F}_{2x+1}\text{C(O)O}_2 + \text{HO}_2$ Reaction";
J. Phys. Chem. A, **2004**, 108, 6325.

15. M. D. Hurley, J. C. Ball, T. J. Wallington, **M. P. Sulbaek Andersen**, D. A. Ellis, J. W. Martin, and S. A. Mabury: "Atmospheric Chemistry of 4:2 Fluorotelomer Alcohol ($C_4F_9CH_2CH_2OH$): Products and Mechanism of Cl Atom Initiated Oxidation"; *J. Phys. Chem. A*, **2004**, *108*, 5635.
14. D. A. Ellis, J. W. Martin, A. O. De Silva, S. A. Mabury, M. D. Hurley, **M. P. Sulbaek Andersen** and T. J. Wallington: "Degradation of Fluorotelomer Alcohols: A likely Atmospheric Source of Perfluorinated Carboxylic Acids"; *Environ. Sci. Technol.*, **2004**, *38*, 3316.
13. **M. P. Sulbaek Andersen**, O. J. Nielsen, M. D. Hurley, J. C. Ball, T. J. Wallington, J. E. Stevens, J. W. Martin, D. A. Ellis and S. A. Mabury: "Atmospheric Chemistry of n- $C_xF_{2x+1}CHO$ ($x=1,3,4$): "Reaction with Cl atoms, OH Radicals; IR Spectra of $C_xF_{2x+1}C(O)O_2NO_2$ "; *J. Phys. Chem. A*, **2004**, *108*, 5189.
12. **M. P. Sulbaek Andersen**, M. D. Hurley, T. J. Wallington, F. Blandini, N. R. Jensen, V. Librando, J. Hjorth, G. Marchionni, M. Avataneo, M. Visca, F. M. Nicolaisen and O. J. Nielsen: "Atmospheric Chemistry of $CH_3O(CF_2CF_2O)_nCH_3$ ($n=1,2,3$): Kinetics and Mechanism of Oxidation Initiated by Cl Atoms and OH Radicals, IR Spectra, and Global Warming Potentials"; *J. Phys. Chem. A*, **2004**, *108*, 1973.
11. M. D. Hurley, T. J. Wallington, **M. P. Sulbaek Andersen**, D. A. Ellis, J. W. Martin and S. A. Mabury: "Atmospheric Chemistry of Fluorinated Alcohols: Reaction with Cl Atoms and OH Radicals and Atmospheric Lifetimes"; *J. Phys. Chem. A*, **2004**, *108*, 1964.
10. D. Hurley, **M. P. Sulbaek Andersen**, T. J. Wallington, D. A. Ellis, J. W. Martin and S. A. Mabury: "Atmospheric Chemistry of Perfluorinated Carboxylic Acids: Reaction with OH Radicals and Atmospheric Lifetimes"; *J. Phys. Chem. A*, **2004**, *108*, 615.
9. **M. P. Sulbaek Andersen**, O. J. Nielsen, M.D. Hurley, T. J. Wallington, J. C. Ball, J. W. Martin, D. A. Ellis and S. A. Mabury: "Atmospheric Chemistry of C_2F_5CHO : Mechanism of the $C_2F_5C(O)O_2 + HO_2$ Reaction"; *Chem. Phys. Lett.*, **2003**, *381*, 14.
8. **M. P. Sulbaek Andersen**, M. D. Hurley, T. J. Wallington, J. C. Ball, J.W. Martin, D. A. Ellis, S. A. Mabury and O. J. Nielsen: "Atmospheric Chemistry of C_2F_5CHO : Reaction with Cl Atoms and OH Radicals, IR Spectrum of $C_2F_5C(O)O_2NO_2$ "; *Chem. Phys. Lett.*, **2003**, *379*, 28.
7. T. J. Wallington, J. W. Hoard, **M. P. Sulbaek Andersen**, M. D. Hurley, Y. Nakano and M. Kawasaki: "Formation of Methyl Nitrite (CH_3ONO) and Methyl Nitrate (CH_3ONO_2) During Plasma Treatment of Diesel Exhaust"; *Environ. Sci. Technol.*, **2003**, *37*, 4242.
6. D. A. Ellis, J. W. Martin, S. A. Mabury, M. D. Hurley, **M. P. Sulbaek Andersen** and T. J. Wallington: "Atmospheric Lifetime of Fluorotelomer Alcohols"; *Environ. Sci. Tech.*, **2003**, *37*, 3816.

5. **M. P. Sulbaek Andersen**, M. D. Hurley, J. C. Ball, W. F. Schneider, T. J. Wallington and O. J. Nielsen: “CF₃CHONOCF₃, Synthesis, IR Spectrum, and New OH Radical Source for Kinetic and Mechanistic Studies”; *Int. J. Chem. Kinet.*, **2003**, *35*, 1.
4. B. Klotz, R. Volkamer, M. D. Hurley, **M. P. Sulbaek Andersen**, O. J. Nielsen, I. Barnes, T. Imamura, K. Wirtz, K.-H. Becker, U. Platt, T. J. Wallington and N. Washida: “OH-Initiated Oxidation of Benzene: II. Influence of Elevated NO_x Concentrations”; *Phys. Chem. Chem. Phys.*, **2002**, *4*(18), 4399.
3. **M. P. Sulbaek Andersen**, O. J. Nielsen, M. D. Hurley and T. J. Wallington: “Kinetics and Mechanism of the Gas Phase Reaction of Cl Atoms and OH Radicals with Fluorobenzene at 296 K”; *J. Phys. Chem. A*, **2002**, *106*, 7779.
2. K. Tonokura, Y. Norikane, and M. Koshi, Y. Nakano, S. Nakamichi, M. Goto, S. Hashimoto, M. Kawasaki, **M. P. Sulbaek Andersen**, M. D. Hurley and T. J. Wallington: “Cavity Ring-down Study of the Visible Absorption Spectrum of the Phenyl Radical and Kinetics of Its Reactions with Cl, Br, Cl₂, and O₂”; *J. Phys. Chem. A*, **2002**, *106*, 5908.
1. **M. P. Sulbaek Andersen**, D. A. Ponomarev, O. J. Nielsen, M. D. Hurley and T. J. Wallington: “Kinetics and Mechanism of the Gas Phase Reaction of Cl Atoms with Iodobenzene”; *Chem. Phys. Lett.*, **2001**, *350*, 423.

POPULAR SCIENCE

2. **M. P. Sulbæk Andersen** and O. J. Nielsen: ”From refrigeration to hair spray – environmental chemistry, the ozone layer and global climate change” (in Danish); article in *Dansk Kemi, February*, **2009**.
1. O. J. Nielsen and **M. P. Sulbæk Andersen**: ”Atmospheric degradation of FTOH – A source of perfluorinated carboxylic acid” (in Danish); article in *Dansk Kemi, June*, **2007**.

CONFERENCE PRESENTATIONS

25. I. J. Simpson, S. Meinardi, **M. P. Sulbaek Andersen**, F. Sherwood Rowland and D. R. Blake: “Long-term decline in global ethane levels, 1984-2008”. Poster presentation at the NOAA ESRL 2009 Global Monitoring Annual Conference, Boulder, Colorado, **May 2009**.
24. **M. P. Sulbaek Andersen**, O. J. Nielsen, E. J. K. Nilsson and M. S. Johnson: “*Atmospheric Chemistry of trans-CF₃CH=CHCl: Kinetics of the Gas-Phase Reactions with Cl atoms, OH radicals, and O₃*”. Poster presentation at the AGU Fall Meeting, San Francisco, California, **December 2008**.
23. I. J. Simpson, N. J. Blake, M. Meinardi, D. R. Blake, **M. P. Sulbaek Andersen** and F. Sherwood Rowland: “*Constraining Changes in the Global CH₄ Budget Based on Global Ethane Changes: Insights From 30 Years of Global Trace Gas Monitoring*”. Paper presentation at the AGU Fall Meeting, San Francisco, California, **December 2008**.

22. **M. P. Sulbaek Andersen**, D. R. Blake and F. Sherwood Rowland: “*Greenhouse Gas Emissions in California: Atmospheric Chemistry of Sulfuryl Fluoride*”. Poster presentation at the 5th Annual California Climate Change Research Conference (California Energy Commission and its Public Interest Energy Research), Sacramento, CA, **September 2008**.
21. S. A. Nizkorodov, A. P. Bateman, S. A. Mang, X. Pan, J. S. Underwood, M. L. Walser, J.-H. Xing, **M. P. Sulbaek Andersen** and D. R. Blake: “*Photodissociation processes in secondary organic aerosol particles*”. Paper presentation at the ACS National Meeting & Exposition, New Orleans, LA, **April 2008**.
20. **M. P. Sulbaek Andersen**, F. Sherwood Rowland and D. R. Blake: “*By Compliments of the Montréal Protocol: Effects of CFC Replacements on Radiative Forcings of Climate, Past and Future*”. Poster presentation at the Comer Foundation Abrupt Climate Change Conference, NY, **May 2007**.
19. **M. P. Sulbaek Andersen**, O. J. Nielsen, M. Javadi, T. J. Wallington, M. D. Hurley and R. Singh: “*Atmospheric Chemistry of CF₃CF=CH₂: Reactions With Cl Atoms, OH Radicals and Ozone*”. Poster presentation at the AGU Fall Meeting, San Francisco, California, **December 2006**.
18. O.J. Nielsen, **M. P. Sulbaek Andersen**, J. Xia, D.J. Wuebbles, S. Sillman, A. Ito, J.E. Penner, D.A. Ellis, J. Martin, S.A. Mabury, T.J. Wallington, M.D. Hurley and J.C. Ball: “*The Formation of Perfluorocarboxylic acids (PFCAs) during the Atmospheric Oxidation of Fluorotelomer Alcohols*”. Poster presentation at the 9th Scientific Conference of the IGAC Project, Cape Town, South Africa, **September 2006**.
17. O. J. Nielsen, **M. P. Sulbaek Andersen**, A. Toft, T. J. Wallington and M. D. Hurley: “*Atmospheric Chemistry of C₄F₉O(CH₂)₃OC₄F₉ and CF₃CFHCF₂O(CH₂)₃OCF₃CFHCF₂: Lifetimes, Degradation Products, and Environmental Impact*”. Poster presentation at the VII Informal Conference on Atmospheric and Molecular Science, Helsingør, Denmark, **June 2006**.
16. L. T. Iraci, R. R. Michelsen and **M. P. Sulbaek Andersen**: “*Temperature and Composition Dependence of Organic Reactions in Aqueous, Acidic Atmospheric Aerosols*”. Paper presentation at the ACS National Meeting & Exposition, Atlanta, Georgia, **April 2006**.
15. **M. P. Sulbaek Andersen**, O. J. Nielsen, T. J. Wallington, M. D. Hurley, S. A. Mabury, D. A. Ellis, J. Martin, J. Xia, D. J. Wuebbles, A. Ito, J. E. Penner and S. Sillman: “*Atmospheric Degradation of Fluorotelomer Alcohols (FTOHs): The Answer to an Arctic Mystery?*”. Paper presentation at the ACS National Meeting & Exposition, Atlanta, Georgia, **April 2006**.
14. **M. P. Sulbaek Andersen**, O. J. Nielsen, R. R. Michelsen and L. T. Iraci: “*Uptake of CF₃COOH in Upper Tropospheric Sulfate Particles: Effects of Fluorination on the Accommodation of Oxygenated Organic Vapors*”. Poster presentation at the AGU Fall Meeting, San Francisco, California, **December 2005**.
13. L. T Iraci, R. R. Michelsen and **M. P. Sulbaek Andersen**: “*Reactions of Oxygenated VOCs in UT/LS Aerosols: Laboratory Studies*”. Poster presentation at the AAAR Annual Conference, *Austin, Texas, October 2005*.
12. **M. P. Sulbaek Andersen**, O. J. Nielsen, A. Toft, D.A. Ellis, J.W. Martin, S.A. Mabury, Mike Hurley, J.C. Ball and T. J. Wallington: “*The Atmospheric Chemistry of Perfluorinated Aldehyde Hydrates: A Source of Perfluorinated Carboxylic Acids*”. Poster presentation at FLUOROS, An International Symposium on Fluorinated Alkyl Organics in the Environment, Toronto Canada, **August 2005**.

11. **M. P. Sulbaek Andersen**, O. J. Nielsen, R. R. Michelsen and L.T. Iraci: “*Accommodation of Oxygenated Organic Vapors into Sulfate Particles in the UT/LS: Solubility of Acetic Acid*”. Poster presentation at the VI Informal Conference on Atmospheric and Molecular Science, Helsingør, Denmark, **June 2005**.
10. **M. P. Sulbaek Andersen**, O. J. Nielsen, A. Toft, D. A. Ellis, J. W. Martin and S. A. Mabury: “*Atmospheric Chemistry of Perfluorinated Aldehyde Hydrates (gem-diols): Mechanism of Formation and Kinetics and Mechanism of the Cl and OH Initiated Oxidation*”. Poster presentation at the VI Informal Conference on Atmospheric and Molecular Science, Helsingør, Denmark, **June 2005**.
9. T. J. Wallington, M. D. Hurley, **M. P. Sulbaek Andersen**, J. C. Ball, D. A. Ellis, J. W. Martin, S. A. Mabury and O. J. Nielsen: “*Atmospheric Chemistry of FluoroTelomer Alcohols*”. Poster presentation at IGAC 2004, Christchurch, New Zealand, **September 2004**.
8. **M. P. Sulbaek Andersen**, M. D. Hurley, T. J. Wallington, J. C. Ball, D. A. Ellis, J. W. Martin, S. A. Mabury and O. J. Nielsen: “*Atmospheric Chemistry of Perfluoro Aldehydes*”. Poster presentation at IGAC 2004, Christchurch, New Zealand, **September 2004**.
7. T. J. Wallington, M. D. Hurley, **M. P. Sulbaek Andersen** and O. J. Nielsen: “*Atmospheric Chemistry of CF₃CFHCF₂OCF₃ and CF₃CFHCF₂OCF₂H: Reaction with Cl atoms and OH, Radicals, Degradation Mechanisms and Global Warming Potentials*”. Poster presentation at the 18th International Symposium on Gas Kinetics, Bristol, UK, **August 2004**.
6. **M. P. Sulbaek Andersen**, C. Stenby, O. J. Nielsen, M. D. Hurley, J. C. Ball, T. J. Wallington, J. W. Martin, D. A. Ellis and S. A. Mabury: “*Atmospheric Chemistry of n-C_xF_{2x+1}CHO (x=1,3,4): Mechanism of the C_xF_{2x+1}C(O)O₂ + HO₂ Reaction*”. Poster presentation at the V Informal Conference on Reaction Kinetics and Atmospheric Chemistry, Helsingør, Denmark, **June 2004**.
5. **M. P. Sulbaek Andersen**, Y. Hashiawa, M. Kawasaki, R. L. Waterland, O. J. Nielsen, M. D. Hurley, J. C. Ball and T. J. Wallington: “*Gas Phase UV and IR Absorption Spectra of C_xF_{2x+1}CHO (x=1-4)*”. Poster presentation at the V Informal Conference on Reaction Kinetics and Atmospheric Chemistry, Helsingør, Denmark, **June 2004**.
4. **M. P. Sulbaek Andersen**, O. J. Nielsen, M. D. Hurley, J. C. Ball, T. J. Wallington, J. E. Stevens, J. W. Martin, D. A. Ellis and S. A. Mabury: “*Atmospheric Chemistry of n-C_xF_{2x+1}CHO (x=1,3,4): Reaction with Cl Atoms, OH radicals; IR spectra of C_xF_{2x+1}C(O)O₂NO₂*”. Poster presentation at the V Informal Conference on Reaction Kinetics and Atmospheric Chemistry, Helsingør, Denmark, **June 2004**.
3. **M. P. Sulbaek Andersen**, M. D. Hurley, T. J. Wallington F. Blandini, N. R. Jensen, V. Librando, J. Hjorth, G. Marchionni, M. Avataneo, M. Visca, F. M. Nicolaisen and O. J. Nielsen: “*Atmospheric Chemistry of CH₃O(CF₂CF₂O)_nCH₃ (n=1,2,3): Kinetics and Mechanism of Oxidation Initiated by Cl Atoms and OH Radicals, IR Spectra, and Global Warming Potentials*”. Poster presentation at the V Informal Conference on Reaction Kinetics and Atmospheric Chemistry, Helsingør, Denmark, **June 2004**.
2. T. J. Wallington, **M. P. Sulbaek Andersen**, M. D. Hurley, D. A. Ellis, J. W. Martin, and S. A. Mabury: “*Atmospheric Lifetimes of Fluoro Telomer Alcohols*”. Poster presentation at the IV Informal Conference on Reaction Kinetics and Atmospheric Chemistry, Helsingør, Denmark, **June 2003**.

1. T. J. Wallington, M. D. Hurley **M. P. Sulbaek Andersen** and O. J. Nielsen: “*Kinetics and Mechanisms of the Reactions of Cl atoms and OH Radicals with Benzene, Fluorobenzene, Chlorobenzene, Bromobenzene, and Iodobenzene*”. Paper presentation at the III Informal Conference on Reaction Kinetics and Atmospheric Chemistry, Helsingør, Denmark , June 2002.

OTHER LECTURES, SEMINARS AND INTERVIEWS

2009	Earth Week 2009, Irvine, CA, USA Urban Water Research Center, University of California, Irvine <i>Earth Week Lecturer, April 14.</i>
	Windward School, Los Angeles, CA, USA Windward Conversations Symposium Series <i>Climate Change Symposium Speaker, February 18.</i>
	National Public Radio (NPR), USA The Environment Report <i>Radio Interview, January 28.</i>
2008	University of California, Riverside, CA, USA Center for Environmental Research & Technology (CE-CERT) <i>Invited seminar, January 16.</i>
2007	NASA Jet Propulsion Laboratory, Pasadena, CA, USA Earth Atmospheric Sciences section <i>Invited seminar, January 22</i>
2006	NASA Ames Research Center, Moffett Field, CA, USA Atmospheric Chemistry and Dynamics Branch <i>Science Seminar Series Speaker, May 31.</i>
2005	University of California, Irvine, CA, USA Department of Chemistry <i>Invited seminar, July 26.</i>
2005	San Francisco State University, CA, USA Department of Chemistry <i>Invited seminar, June 4.</i>
	University of Southern Denmark, Denmark Department of Chemistry <i>Atmospheric chemistry course, February guest lecturer.</i>
2004	NASA Ames Research Center, Moffett Field, CA, USA Atmospheric Chemistry and Dynamics Branch <i>Invited seminar, June, 4.</i>
2002	NASA Jet Propulsion Laboratory, Pasadena, CA, USA Earth Atmospheric Sciences section <i>Invited seminar, August 14.</i>

GRANTS AND AWARDS

2006 – 2008	Comer Foundation Postdoctoral Fellowship University of California, Irvine, USA
2004	ERCA Poster Presentation Award European Research Course on Atmospheres (ERCA), France.
2003 – 2006	Danish Research Agency Internationalization Graduate Fellowship Danish Research Agency, Denmark.
2003 – 2006	Copenhagen Global Change Initiative Graduate Fellowship University of Copenhagen, Denmark (<i>declined by MPSA</i>).
2002	Emil Herborg's Award Royal Danish Academy of Sciences and Letters, Denmark.
2002	Henry and Mary Skov's Academic Award Study grant, Denmark.
2001	Nordea Danmark Fonden Academic study grant, Denmark.

SERVICE TO THE PROFESSION

■ Peer Reviewer

- Ad hoc reviewer for *Environmental Science and Technology*.
- Ad hoc reviewer for *Atmospheric Environment*.

■ Professional Affiliations

- American Geophysical Union (AGU), Atmospheric Science Section.
- American Chemical Society (ACS), Division of Environmental Chemistry and Division of Physical Chemistry.