

## **Thomas C. Ho, Aldredge Endowed Chair Regents' Professor and Chair**

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### **EDUCATION**

Ph.D. 1982 Chemical Engineering, Kansas State University, Manhattan, Kansas  
M.S. 1978 Chemical Engineering, Kansas State University, Manhattan, Kansas  
B.S. 1973 Chemical Engineering, National Taiwan University, Taipei, Taiwan

### **POSITIONS HELD**

Director, Texas Air Research Center, 2013-present  
Regents' Professor, Texas State University System, 2007-present  
Chair, Department of Chemical Engineering, 2007-present  
Director, Texas Hazardous Waste Research Center, 2005-present  
Aldredge Endowed Chair, College of Engineering, Lamar University, 2002-present  
Director, Gulf Coast Hazardous Substance Research Director, 2002-present  
University Professor, Dept. of Chemical Engineering, Lamar University, 2001-present  
Professor, Department of Chemical Engineering, Lamar University, 1993-2001  
Visiting Scientist, DOE Oak Ridge National Laboratories, Summer 1992  
Associate Professor, Chemical Engineering Department, Lamar University, 1987-1993  
Assistant Professor, Chemical Engineering Department, Lamar University, 1982-1987

### **HONORS AND AWARDS**

Regent's Professor Award, Texas State University System, 2007  
University Scholar Award, Lamar University, 2005  
University Professor Award, Lamar University, 2001  
Outstanding Service Awards, International Incineration Conf., 1998, 1999, 2000, 2001  
Lamar University 1998-1999 Teaching Bonus Award  
Lamar University 1996-1997 Teaching Bonus Award  
Lamar University 1994-1995 Teaching Bonus Award  
Amoco 1993 College of Engineering Outstanding Teaching Award

### **RESEARCH AREAS**

Waste Management: Waste Incineration, Air Toxic Emission Control, Ambient  
Particulate Matter, Metal/Mercury Sorption by Sorbents,  
Microwave Technology

Fluidization: Hydrodynamics, Solids Mixing, Mass and Heat Transfer, Coal Combustion/Gasification, Waste Incineration  
Process Modeling: Ozone/Particulate Matter Modeling, Neural Networks Modeling, Reaction Equilibrium & Kinetic Modeling

## **PROFESSIONAL SOCIETIES**

Registered Professional Engineer in Texas (Serial Number 61620)  
Committee Member - AIChE National Fluidization Committee (Chair: 2003-2005)  
Editorial Board Member – Journal of Environmental Progress  
Committee Member - ASME National Industrial Waste Committee  
Committee Member - International Incineration Conf. Program Advisory Committee  
Committee Member - ASME National Mixed-Waste Treatment Committee  
Task Force Member - Coalition for Responsible Waste Incineration Metal Task Force  
Board Member - AWMA Southeast Texas Section

## **RESEARCH ACTIVITIES/ACCOMPLISHMENTS**

83. SETRPC, “FY16/17 Rider 7 Work Plan - Task 5: Air Quality Modeling Planning,” South East Texas Regional Planning Commission, \$85,000, T. Ho (PI) with Q. Xu (Co-PI), 2/1/16- 8/15/17.
82. “Flare Minimization and Air Quality Modeling SEP”, \$60,452, TCEQ-SEP Phase IV, T. Ho (PI) with Q. Xu (Co-PI), 10/1/2015 - 9/30/2016.
81. TCEQ-SEP Phase III, “Flare Speciation and Air Quality Modeling SEP”, \$64,000, T. Ho (PI) with D. Chen and H. Lou (Co-PIs), 2/1/2014 – 8/31/2015.
80. SETRPC, “FY14/15 Rider 8 Work Plan - Task 4: Air Quality Modeling Planning,” South East Texas Regional Planning Commission, \$70,000, T. Ho (PI) with Q. Xu (Co-PI), 06/1/14- 8/15/15.
79. “Phase II-2 Rider 8 Work Plan - Task 4: Air Quality Modeling Planning,” \$80,000, SETRPC, T. Ho (PI) with Q. Chu (Co-PI), 6/1/2013 – 12/16/2013.
78. “Phase II -1Rider 8 Work Plan - Task 4: Air Quality Modeling Planning,” \$70,000, SETRPC, T. Ho (PI) with Q. Chu (Co-PI), 3/15/2013 – 5/31/2013.
77. “Impact of Flaring Emissions on Regional Air Quality Associated with Chemical Plant Turnaround Operations”, \$43,700, TARC, Q. Xu (PI) with T. Ho (Co-PI), 08/01/12 - 07/31/13.
76. “Flare Minimization and Air Quality Modeling SEP”, \$83,150, TCEQ-SEP Phase II, T. Ho (PI) with Q. Xu (Co-PI), 6/21/2012 - 9/30/2013.

75. “Flare Speciation and Air Quality Modeling SEP”, \$64,000, TCEQ-SEP Phase III , T. Ho (PI) with D. Chen and H. Lou (Co-PIs), submitted for 2/1/2014 – 1/31/2015.
74. “Flare Minimization and Air Quality Modeling SEP”, \$83,150, TCEQ-SEP Phase II, T. Ho (PI) with Q. Xu (Co-PI), 6/21/2012 - 9/30/2013.
73. “Dispersion Modeling Support for SO<sub>2</sub> State Implementation Plan Development,” \$24,000, TCEQ, T. Ho (PI), 12/09/2011 – 8/31/2012.
72. “Refinements to Cloud Assimilation into the Weather Research and Forecasting (WRF) Model,” \$75,000, TCEQ, T. Ho (PI), 6/27/2011 – 5/31/2012.
71. “Assessment of the Impact of Airborne Particulate Pollutants on the Rio Grande Basin Watershed,” \$121,000, USDA through Sul Ross University, T. Ho (PI) with H. Chu, J. Lin, Q. Qin and P. Chiou (Co-PI), 7/1/2008-6/30/2012.
70. “Impact of Global Climate Change on the Precipitation and Acid Deposition in the Rio Grande River Region,” \$105,000, USGA through Sul Ross University, J. Lin (PI) with T. Ho and H. Chu (Co-PI), 7/1/2008-6/30/2012.
69. “Southeast Texas Air Quality Improvement,” \$110,000, TCEQ-SEP, T. Ho (PI) with H. Lou and D. Chen (Co-PI), 1/15/2011 – 6/30/2012.
68. “Safety-Considered Proactive Emission Source Reduction and Characterization for Chemical Industries,” TARC, \$23,500, Q. Xu (PI) with H. Lou and T. Ho (Co-PI), 09/01/2010 - 08/31/2012.
67. “Photochemical Modeling Support,” TCEQ, \$24,000, T. Ho (PI), 2/1/2011 – 11/30/2011.
66. “Fiscal Year 2010 Rider 8 Grantee Work Plan, Task 4: Air Quality Modeling Planning for FY2011,” SETRPC, \$30,000, T. Ho (PI), 10/24/2010 – 12/31/2010.
65. “Cloud Assimilation into the Weather Research and Forecast (WRF) Model,” TCEQ, \$200,000, T. Ho (PI), 2/15/2010 – 2/28/2011.
64. “Photochemical Modeling Support,” \$60,000 from TCEQ, 12/23/2009 – 12/31/2010.
63. “Assessment of the Impact of Airborne Particulate Pollutants on the Rio Grande Basin Watershed,” \$56,000 from USDA (United State Department of Agriculture) through Sul Ross University, 4 Co-PIs (Ho, Chu, Lin and Chiang), 7/1/2009-6/30/2010.
62. “GOES Data Assimilation into CAMx to Improve Cloud Fields,” \$70,000 from TCEQ, TCEQ grant subcontracted to University of Alabama – Huntsville, 2/1/2009 – 8/31/2009.
61. “Photochemical Modeling Support,” \$73,429 from TCEQ, 2 Co-PIs (Ho and Lin), 1/7/2009 – 7/31/2009.

60. "Assessment of the Impact of Airborne Particulate Pollutants on the Rio Grande Basin Watershed," \$65,000 from USDA (United State Department of Agriculture) through Sul Ross University, 4 Co-PIs (Ho, Chu, Lin and Chiang), 7/1/2008-6/30/2009.
59. "Air Quality Modeling of TexAQS-II Episode with Data Assimilation," \$33,700 from HARC through University of Houston, 3 Co-PIs (Ho, Chu, and Lin), 8/1/2008 – 8/31/2009.
58. "State Implementation Plan (SIP) Modeling Support and the Community Multi-scale Air Quality (CMAQ) Modeling System Development and Training," \$75,000 from TCEQ, 4 Co-PIs (Ho, Chu, Lin, and Wang), 11/1/2007 – 8/31/2008.
57. "Top Down Emissions Verification of Petrochemical Sources in Houston," \$92,000 from TCEQ, TCEQ grant subcontracted to University of Alabama – Huntsville, 9/1/2007 – 4/30/2008.
56. "Characterization of East Texas Air Quality for the TexAQS II," \$160,108 from EPA, EPA grant subcontracted from University of Houston, 4 Co-PIs (Ho, Lin, Chu and Tadmor), 4/1/2007 – 3/30/2009.
55. "CMAQ Regional Haze Modeling and Further Modeling System Development at TCEQ," \$165,000 from TCEQ, 5 Co-PIs (Ho, Chiou, Chu, Lin, and Tadmor), 2/1/2007-8/31/2007.
54. "Top Down Emission Verification of Petrochemical Sources," \$115,000 from TCEQ, TCEQ Grant subcontracted to University of Alabama – Huntsville, 4/12/2007 – 8/31/2007.
53. "Acquisition of a Scanning Electron Microscopy/Energy Dispersive X-Ray Spectroscopy System for Multi-disciplinary Research and Education," \$169,270 from NSF (National Science Foundation), 5 Co-PIs (Ho, Chu, Gossage, Lin and Tadmor), 9/1/2006-8/31/2009.
52. "Comprehensive Chemical Transport Models of Atmospheric Mercury," \$25,000 from US EPA, 3 Co-PIs (Lin, Chu and Ho), 10/1/2006 – 9/30/2007.
51. "Assessment of the Impact of Airborne Particulate Pollutants on the Rio Grande Basin Watershed," \$65,000 from USDA (United State Department of Agriculture) through Sul Ross University, 4 Co-PIs (Ho, Chu, Fang, and Lin), 7/1/2006-6/30/2007.
50. "Study of CaSO<sub>4</sub> Fouling and Calcium Recovery from Brine in the Reverse Osmosis Desalination of Brackish Groundwater in the Rio Grande Basin," \$45,000 from USDA through Sul Ross University, 3 Co-PIs (Lin, Chu and Ho), 7/1/2006 – 6/30/2007.

49. "Simulations of the Emission, Transport, Chemistry and Deposition of Atmospheric Mercury in the Upper Gulf Coast Region," \$150,000, 3 Co-PIs (Lin, Chu and Ho) from GCHSRC, 12/1/2003 to 5/31/2007.
48. "Development of Microwave-Enhanced Adsorption/Destruction Technology for Concerned Air Pollutants," \$150,000, 3 Co-PIs (Chu, Ho, and Lin) from GCHSRC, 12/1/2003 to 5/31/2007.
47. "Development of Modeling and Field Measurement Infrastructure for Regional Haze Analyses," \$57,000 from TARC (Texas Air Research Center), 6 Co-PIs (Ho, Chu, Gossage, Lin and Tadmor), 12/1/2005 to 12/31/2006.
46. "Further CMAQ Deposition Schemes Comparison and System Development at TCEQ," \$165,000 from TCEQ (Texas Commission on Environmental Quality), 5 Co-PIs (Ho, Chiou, Chu, Lin, and Wang), 11/07/2005-11/30/2006.
45. "Low-Cost Control of NO<sub>x</sub>, VOC and Soot from Stationary Diesel Generators Employing an Adsorptive Ceramic Filter with Microwave Regeneration," \$127,040 from TCEQ-NTRD (New Technology Research and Development), 4 Co-PIs (Ho, Chu, Kim, and Lin), 5/30/2005-11/30/2006.
44. "Collection of Hourly Emissions Data on TCEQ-Specified Pollutants from TCEQ-Selected Industrial Sources," \$86,500, TCEQ Grant subcontracted to URS, 5/30/2006-11/15/2006.
43. "Acquisition of a High Sensibility GC/MS System for Multi-disciplinary Research Projects and Education," \$126,427 from NSF, 5 Co-PIs (Ho, Chen, Chu, Cocke, and Lin), 9/1/2003-8/31/2006.
42. "Point Source and Area Source Control Strategy Catalog Development for the HGB Ozone Non-attainment Area," \$49,950, TCEQ Grant subcontracted to ENVIRON, 2/8/2006-6/30/2006.
41. "Work Plan Analysis On-Call Services," \$69,828, TCEQ Grant subcontracted to Michael Baker, Inc., 9/15/2005-6/30/2006.
40. "Inter-comparison of Comprehensive Chemical Transport Models of Atmospheric Mercury," \$25,000 from US EPA, 3 Co-PIs (Lin, Chu and Ho), 4/1/2005 – 3/31/2006.
39. "Modeling of Mercury Pollutants over the Pacific Regions," \$25,000 from US EPA, 3 Co-PIs (Lin, Chu and Ho), 4/1/2005-3/31/2006.
38. "Assessment of the Impact of Airborne Particulate Pollutants on the Rio Grande Basin Watershed," \$40,000 from USDA through Sul Ross University, 3 Co-PIs (Ho, Chu and Lin), 07/01/2005 – 06/30/2006.

37. “Study of CaSO<sub>4</sub> Fouling and Calcium Recovery from Brine in the Reverse Osmosis Desalination of Brackish Groundwater in the Rio Grande Basin,” \$40,000 from USDA through Sul Ross University, 3 Co-PIs (Lin, Ho and Chu), 7/1/2005 – 6/30/2006.
36. “Development of Modeling and Field Measurement Infrastructure for Regional Haze Analyses,” \$74,000 from TARC, 6 Co-PIs (Ho, Chu, Gossage, Lin, Tadmor, and Wang), 11/1/2004 – 10/31/2005.
35. “Further Development of CMAQ Model- Mercury Modeling,” \$75,000 from TCEQ, 4 Co-PIs (Ho, Chu, Chiou and Lin), 12/15/2004 to 8/31/2005.
34. “CMAQ Air Quality Forecasting,” \$40,000 from HARC (Houston Advanced Research Center) through University of Houston, 4 Co-PIs (Ho, Chu, Chiou and Lin), 12/15/2004 to 8/31/2005.
33. “Acquisition of a Thermal Analysis System for Multidisciplinary Research and Educational Projects,” \$85,975 from NSF, 5 Co-PIs (Cocke, Chen, Ho, Li, Lumpkin), 8/1/2002 to 7/31/2005.
32. “Assessment of the Impact of Airborne Particulate Pollutants on the Rio Grande Basin Watershed,” \$26,250 from USDA through Sul Ross University, 3 Co-PIs (Ho, Chu and Lin), 7/1/2004 – 6/30/2005.
31. “Characterization of Water pollution and Evaluation of Treatment Technologies including Membrane Filtration for the Polluted Water in the Rio Grande Basin,” \$40,833 from USDA through Sul Ross University, 3 Co-PIs (Lin, Chu and Ho), 7/1/2004 – 6/30/2005.
30. “Acquisition of an X-ray Fluorescence Spectrometer for Multi-disciplinary Research Projects,” \$99,875 from NSF, 5 Co-PIs (Ho, Chen, Chu, Cocke, and Lin), 9/1/2001-8/31/2004.
29. “Acquisition of X-ray Diffraction (XRD) Systems for Interdisciplinary Materials Research,” \$250,000 from NSF, PI (Cocke) and 4 Co-PIs (Allin, Ho, Li, and Lumpkin), 9/1/2001-8/31/2004.
28. “Satellite Assimilation in Meteorological and Air Quality Models for the TEXAQS2000 Study Period,” \$60,500 from TCEQ and TARC, 3 Co-PIs (Ho, Chu and Lin), 9/01/2002 to 8/31/2004.
27. “Characterization of Airborne Particulate Matter in a Heavily Industrialized Community,” \$132,000 from TARC, 6 Co-PIs (Ho, Chen, Chu, Cocke, Lin and Tadmor), 12/04/2002 to 12/03/2004.
26. “Development of Texas Emission Inventory Preparation System for SMOKE,” \$25,000 from TARC through University of Houston, 4 Co-PIs (Ho, Chiou, Chu and Lin), 9/1/2003 to 8/31/2004.

25. "CMAQ One-Atmosphere Modeling," \$100,000 from TCEQ, 4 Co-PIs (Ho, Chiou, Chu, and Lin), 12/09/2003 to 8/31/2004.
24. "Satellite Assimilation in Meteorological and Air Quality Models for the TexAQS 2000 Study Period," \$15,000 from TCEQ, 4 Co-PIs (Ho, Chiou, Chu and Lin), 1/06/2004 to 8/31/2004.
23. "CMAQ One Atmosphere Modeling: Mercury Deposition in Texas," \$90,000 from the Texas Commission on Environmental Quality, 5 Co-PIs (Ho, Chiou, Chu, Lin and Tadmor), 6/1/2004 to 8/31/2004.
22. "Ammonia Nitridation," \$40,000 from Du Pont, PI (Ho), 12/15/2002 to 8/31/2004.
21. "Science Assessment of CAMx and CMAQ: I. Model Input and Algorithm Comparisons," \$86,250, TCEQ Grant subcontracted to University of Houston, 12/15/2003-8/31/2004.
20. "Towards Better Characterizations of Atmospheric Boundary Layer Turbulence in the Houston/Galveston Region: II. Model Evaluation and Improvement," \$35,751, TCEQ Grant subcontracted to University of Alabama, 3/15/2004-8/31/2004.
19. "Micrometeorological Flux Measurements in Preparation of TexAQS II," \$39,261, TCEQ Grant subcontracted to University of Houston, 6/3/2004-8/31/2004.
18. "Classification of HRVOC Emission Points in the HGB Non-attainment Area," \$100,000, TCEQ Grant subcontracted to URS, 6/1/2004-8/31/2004.
17. "Characterization of Airborne Particulate Matter in a Heavily Industrialized Community," \$73,000 from TARC, 5 Co-PIs (Ho, Chen, Chu, Cocke, and Lin), 12/04/2002 to 12/03/2003.
16. "Texas Emission Inventory Processing for SMOKE and CMAQ," \$20,000 from HARC subcontract from University of Houston, 4 Co-PIs (Ho Chu, Lin and Underdown), 12/10/2002 to 12/9/2003.
15. "Satellite Assimilation in Meteorological and Air Quality Models for the TEXAQS2000 Study Period," \$34,000 from TARC, 3 Co-PIs (Ho, Chu, and Lin), 9/1/2002 to 8/31/2003.
14. "Development of CMAQ Air Quality Modeling," \$300,000 from TCEQ and TARC, 5 Co-PIs (Ho, Chiou, Chu, Lin, and Tran), 2/27/2002 to 8/31/2003.
13. "Characterization of Ambient and Indoor Particulate Contaminants in a Heavily Industrialized Community," \$140,000 from GCHSRC, 2 Co-PIs (Ho and Chu), 9/1/2001 to 8/31/2003.

12. "Characterization of Ambient and Indoor Particulate Contaminants in a Heavily Industrialized Community," \$104,896 from GCHSRC, 2 Co-PIs (Ho and Chu), 9/1/2000 to 8/31/2002.
11. "Field and Mechanistic Studies for Texas Upper Gulf Coast Air Quality," \$220,300 from TARC, 6 Co-PIs (Ho, Chen, Chu, Cocke, Gossage, and Lin), 12/1/2000-11/30/2002.
10. "Ammonia Nitridation," \$34,500 from Du Pont, PI (Ho), 9/1/2000 to 12/15/2002.
9. "Fundamental and Kinetic Investigation of Sorbent Technology for Optimum Mercury Emission Control," \$150,187 from GCHSRC, PI (Ho), 9/1/2000 to 8/31/2002.
8. "Identification of Emission Source and Migration Pattern of Ambient Particulate Matter," \$96,000 from THWRC (Texas Hazardous Waste Research Center), PI (Ho), 9/1/1998 to 12/31/2000.
7. "Sorbent Technology for Multipollutant Control during Fluidized Bed Incineration," \$178,520 from GCHSRC, PI (Ho), 6/1/1995- 4/15/1999.
6. "Metal Emission Control during Coal Combustion," \$172,385 from US DOE (Department of Energy) through University Coal Research Program, PI (Ho), 7/1/1994-2/28/1998.
5. "Metal Ion Removal from Waste Water," \$15,000 from Du Pont, PI (Ho), 2/1/1996 to 1/31/1997.
4. "Photocatalytic Oxidation of NO<sub>x</sub> and Recovery as Nitric Acid," \$154,320 GCHSRC, 2 Co-PIs (Chen and Ho), 6/1/1994-12/31/1997.
3. "Development of Two-Stage Fluidized Bed Thermal Treatment Technology for Improved Metal Emission Control," \$144,825 from GCHSRC, PI (Ho), 6/1/1992 - 5/31/1995.
2. "Optimization and Evaluation of Thermal Treatment Technology," \$85,007 from US DOE Office of Technology Development, PI (Ho), 7/1/1993-10/31/1994.
1. "Novel Technology for Metal Emission Control," \$82,007 from state of Texas through the 1990 Advanced Technology Program, PI (Ho), 1/1/1991-12/31/1993.

## HANDBOOK CHAPTER CONTRIBUTIONS

1. T. C. Ho, "Basic Combustion and Incineration," Chapter 2.2 in *Handbook of Environmental Engineering Calculations* edited by C. C. Lee and Shun Dar Lin, McGraw-Hill, New York, NY, ISBN 0-07-038183-6 (2000).
2. T. C. Ho, "Incompressible Flow," Chapter 8 in *Fluid Flow Handbook* edited by Dr. Jamal



- Saleh, McGraw-Hill, New York, NY, ISBN 0-07-136372-6 (2002).
3. T. C. Ho, "Modeling," Chapter 9 in the *Handbook of Fluidization and Fluid-Particle Systems* edited by Dr. W. C. Yang, Marcel Dekker, Inc., New York, NY, ISBN: 0-8247-0259-X, p.239-255 (2003).
  4. T. C. Ho, "Mass Transfer," Chapter 11 in the *Handbook of Fluidization and Fluid-Particle Systems* edited by Dr. W. C. Yang, Marcel Dekker, Inc., New York, NY, ISBN: 0-8247-0259-X, p.287-307 (2003).
  5. L. Y. Lin and T. C. Ho, "Control of Heavy Metals in Emission Streams," Chapter 5 in *Advanced Air and Noise Pollution Control* edited by L. K. Wang, Volume 2 of *Handbook of Environmental Engineering*, Humana Press, Totowa, New Jersey, ISBN 1-59259-779-3 (2005).

### **SPECIAL ISSUE GUEST EDITOR**

1. Waste Management, Volume 18 (1998).
2. Waste Management, Volume 19 (1999).
3. Waste Management, Volume 20 (2000).
4. Waste Management, Volume 21 (2001).
5. Waste Management, Volume 22 (2002).
6. Environmental Engineering Science, Volume 21, No. 1 (2004).
7. Powder Technology, Volume 151 (2005).
8. Powder Technology, Volume 152 (2006).
9. Journal of the Chinese Institute of Chemical Engineers, Volume 37, No. 5 (2006).
10. Powder Technology, Volume 153 (2007).

### **OTHER SCHOLARLY ACTIVITIES**

1. Conference Presentations – More than 90 presentations conducted.
2. Technical Session Chairpersonship – Numerous Meetings and Conferences.
3. Program Advisory Committee – AIChE Fluidization Committee, International Incineration Conference, ASME Industrial Waste, and Coalition for Responsible Waste Incineration.
4. Proposal and Journal Paper Reviewer – NSF proposal and panel reviewer, DOE, ACS, EPA, Journal, Environmental Progress, Chemical Engineering Science, Powder Technology, Combustion Science and Technology and etc.
5. Thesis and Field Study Major Advisor – 12 doctoral and 32 MES theses completed.

### **LIST OF JOURNAL/PROCEEDINGS PUBLICATIONS**

1. Fan, L. T., Tho-Ching Ho, S. Hiraoka and W. P. Walawender, "Pressure Fluctuations in a Fluidized Bed," *AIChE J.*, **27**, 388 (1981).
2. Fan, L. T., Tho-Ching Ho and W. P. Walawender, "Measurements of the Rise Velocities of Bubbles, Slugs, and Pressure Waves in a Gas-Solid Fluidized Bed Using Pressure Fluctuation Signals," *AIChE J.*, **29**, 33 (1983).

3. Fan, L. T., Tho-Ching Ho, N. Yutani and W. P. Walawender, "Statistical Study of the Frequency of Free Bubbling in a Shallow Gas-Solid Fluidized Bed," in Fluidization IV, Fourth International Conference on Fluidization, p. 1-3-1, Kashikojima, Japan, May 29-June 3, 1983.
4. Yutani, N., Tho-Ching Ho and L. T. Fan, "Statistical Study of the Jet Zone Behavior in a Shallow Gas-Solid Fluidized Bed Using a Mini-Capacitance Probe," Chemical Engineering Science, **38**, 575 (1983).
5. Yutani, N., Tho-Ching Ho and L. T. Fan, "The Bubble Behavior in the Gas-Bubble Fluidized Bed," Can. J. Chem. Engg., **61**, 121 (1983).
6. Ho, Tho-Ching, N. Yutani, L. T. Fan and W. P. Walawender, "The Onset of Slugging in a Gas-Solid Fluidized Bed," Powder Technology, **35**, 249 (1983).
7. Ho, Tho-Ching, N. Yutani, L. T. Fan and W. P. Walawender, "Stochastic Modeling of the Formation of Bubbles in a Shallow Gas-Solid Fluidized Bed," Can J. Chem. Engg., **61**, 654 (1983).
8. Ho, Tho-Ching, T. K. Chen, and J. R. Hopper, "Pressure Drop across the Distributor in Fluidized Beds with Regular and Irregular Distributor Design," AIChE Symp. Series, **80**, No. 241, 34 (1984).
9. Ho, Tho-Ching, Hom-Ti Lee, and J. R. Hopper, "Simulation of Desulfurization in a Fluidized Bed Limestone Reactor," AIChE J., **32**, 1754 (1986).
10. Ho, Tho-Ching, R. C. Wang, and J. R. Hopper, "Characteristics of Grid Zone Heat Transfer in a Gas-Solid Fluidized Bed," AIChE J., **33**, 843 (1987).
11. Ho, Tho-Ching, S. J. Yau, and J. R. Hopper, "Hydrodynamics of Semifluidization in Gas-Solid Systems," Powder Technology, **50**, 25 (1987).
12. Ho, Tho-Ching, M. O. Kirkpatrick, and J. R. Hopper, "Modeling of Solids Mixing in a Coal-Limestone Fluidized Bed," AIChE Symp. Series, **83**, No. 255, 42 (1987).
13. Ho, Tho-Ching, M. O. Kirkpatrick, and J. R. Hopper, "Dynamic Solids Mixing Between Coal and Limestone in a Gas-Solid Fluidized Bed," Chemical Engineering Communications, **60**, 47 (1987).
14. Ho, Tho-Ching, K. N. Ko, C. C. Chang, and J. R. Hopper, "Dynamic Simulation of a Shallow Jetting Fluidized Bed Coal Combustor," Powder Tech., **53**, 247 (1987).
15. Ho, Tho-Ching, P. Ku, and J. R. Hopper, "Kinetic Study of Biological Sludge Incineration in a Fluidized Bed," AIChE Symp. Series, **84**, No. 262, 126 (1988).
16. Peng, S. H., K. Y. Li, and T. C. Ho, "Hydrochlorination of Silicon in a Fluidized Bed Reactor," AIChE Symp. Series, **84**, No. 262, 114 (1988).
17. Ho, T. C., P. Ku, and J. R. Hopper, "Modeling of Biological Sludge Incineration in a Batch Fluidized Bed," Proceedings of the Conferences on Hazardous Waste Research, p. 112, Kansas State University, Manhattan, KS, May 25, 1988.
18. Ho, T. C., M. Kirkpatrick, and J. R. Hopper, "Mixing and Combustion in a Shallow Coal-Limestone Fluidized Bed Combustor," Can. J. Chem. Eng., **67**, 207 (1989).
19. Ho, Tho-Ching, P. Ku, and J. R. Hopper, "Drying and Devolatilization During Fluidized Bed Incineration of Biological Sludge," Fluidization VI, Proceedings of the Sixth Fluidization Conference, p. 393, Banff, Canada, May 7-12, 1989.
20. Li, K. Y., S. H. Peng and T. C. Ho, "Prediction of Silicon-Powder Elutriation in a Fluidized Bed Reactor for the Silane Decomposition Reaction," AIChE Symp. Series, **85**, No. 270, 77 (1989).

21. Ho, T. C., J. M. Chen and J. R. Hopper, "Novel Fluidized Bed Technology for Metal Emissions Control During Waste Incineration," Proceedings of the Second Asian Conference on Fluidized Bed and Three-Phase Reactors, p. 136, Kenting, Taiwan, February 18-20, 1990.
22. Ho, T. C., J. M. Chen, S. Shukla and J. R. Hopper, "Metal Capture During Fluidized Bed Incineration of Solid Wastes," AIChE Symp. Series, **86**, No. 276, 51 (1990).
23. Ho, T. C., L. Tan, C. H. Chen and J. R. Hopper, "Characteristics of Metal Capture during Fluidized Bed Incineration," AIChE Symp. Series, **87**, No. 281, 118 (1991).
24. Ho, T. C., R. C. Wang and J. R. Hopper, "Grid-Region Heat Transfer in a Gas-Solid Fluidized Bed," Journal of Chinese Inst. of Chem. Eng., **22**, 345 (1991).
25. Ho, T. C., C. Chen, J. R. Hopper and D. Oberacker, "Characteristics of Metal Capture in Fluidized Bed Incinerators and Waste Heat Boilers," Proceedings of the Seventh International Fluidization Conference, p. 463, Broadbeach, Australia, May 3-8, 1992.
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