

BINGHAMTON UNIVERSITY

STATE UNIVERSITY OF NEW YORK

Harvey G. Stenger
President
Binghamton University
State University of New York
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University Experience

- 1/2012 to Present:** President, Binghamton University
- 4/2011 to 12/2011:** Interim Provost, University at Buffalo
- 8/2006 to 4/2011:** Dean, School of Engineering and Applied Sciences, University at Buffalo
Professor of Chemical and Biological Engineering, University at Buffalo
- 1991 to 2006:** Professor of Chemical Engineering, Lehigh University
- 1993 to 1999:** Dean, College of Engineering and Applied Science, Lehigh University
- 1993:** Associate Dean, Engineering and Applied Science, Lehigh University
- 1991 to 1993:** Director, Environmental Studies Center, Lehigh University
- 1989 to 1991:** Co-Chairman, Dept. of Chemical Engineering, Lehigh University
- 1988 to 1991:** Associate Professor of Chemical Engineering, Lehigh University
- 1984 to 1988:** Assistant Professor of Chemical Engineering, Lehigh University

Education

Bachelor of Science, Chemical Engineering, Cornell University, Ithaca, NY, May 1979, graduated with distinction

Doctor of Science, Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA, Dec. 1983, thesis: "Studies of the Slurry Reactor Fischer Tropsch Synthesis"

Research Areas

Hydrogen Production, Selective Catalytic Reduction of Nitrogen Oxides, Mercury Reaction Pathways, Catalytic Destruction of Chlorinated Hydrocarbons, Fuel Cell Modeling and Optimization.

Teaching Areas

Chemical Engineering Thermodynamics; Chemical Reactor Design; Engineering Computations and Numerical Methods; Process Design; Heterogeneous Catalysis; Unit Operations Lab I & II; Electronic Materials Lab; Semiconductor Materials Processing; Fundamentals of Air Pollution.

Professional Registration

Professional Engineer, Commonwealth of Pennsylvania # PE-040757-E

Professional, University and Community Service

2010 Chair, College of Arts and Sciences Dean Search Committee
2009- University Representative to the Board of Directors, University at Buffalo Foundation
2008 Chair, School of Management Dean Search Committee
2006- Board of Directors, Buffalo-area Engineering Awareness for Minorities
2006-10: Board of Directors, CUBRC, Inc.
2004-06: Lehigh University Junior Varsity Hockey Coach
2001-05: Board of Directors, Talbert Fuel Systems
1997-99: Board of Directors, Ben Franklin Technology Center
1997-99: Member Engineering Advisory Council, Drexel University
1996-99: Board of Directors, Pennsylvania Infrastructure Technology Alliance
1996-97: President, Association of Engineering Colleges of Pennsylvania
1994-95: University Chair for United Way Campaign
1993-94: College Chair for United Way Campaign
1994-97: Board of Directors, South Bethlehem Neighborhood Center
1988-91: Faculty Athletics' Representative to the NCAA
1988-92: Member of Engineers Week Joint Planning Council.
1988-92: Director, Vice-Chair, and Chair, Lehigh Valley Section of AIChE

Recognition and Awards

2010: Buffalo Engineering Awareness for Minorities, Charles Campbell Service Award
2009: Distinguished Alumni Award, Cornell University
2006: Engineering College Teacher of the Year, Lehigh University
2004: Engineering College Teacher of the Year, Lehigh University
2003: Hillman Award: University Graduate Advisor of the Year, Lehigh University
2002: Deming Lewis Alumni Award – Faculty member of the Year, Lehigh University
2002: Donald Stabler Award: University Teacher of the Year, Lehigh University
2000: Engineering College Teacher of the Year, Lehigh University
1998: National Society of Black Engineers Faculty Award, Lehigh University
1993: National Society of Professional Engineers Engineer of the Year Lehigh Valley
1991: Alan S. Foust Award for Service to the American Institute of Chemical Engineers
1989: Engineering College Teacher of the Year, Lehigh University
1988: Alfred N. Robinson Award: Young Faculty Achievement, Lehigh University

Grants and Contracts Received

- “Gateway to Power”, \$300,000 August 2010 to August 2013. Sponsor: DOE, with Alex Domijan of University of South Florida and Ken Lanquedoc of Florida Power and Light.
- “Realizing UB's Readiness, Innovation and Commitment to STEM Student Support”, \$600,000 December 2008 to December 2011. Sponsor: NSF, with Joe Gardella, Henry Durand, Bill Wild and Bruce McCombe.
- “Launching the Biomedical Engineering Program at University at Buffalo”, \$3,000,000 April 2008 to April 2012, with Michael Cain. Sponsor: Oishei Foundation and matching organizations.
- “Oxidation of Mercury over SCR Catalysts”, \$110,000 April 2004 to December 2006. Sponsor: EPRI.
- “Airpreheater Fouling and Heterogeneous Formation of SO₃ in Power Plant Flue Gases”, \$175,000 January 2006 to December 2006, Sponsor: EPRI, with Hugo Caram and Ed Levy.
- “Pretreatment and Removal of Ammonia in Refinery Acid Gases”, \$15,000, January 2006 to December 2006. Sponsor: Dupont.
- “Removal of Mercury from Power Plant Flue Gases”, \$650,000, December 2001 to December 2006. Sponsor: Foster Wheeler.
- "Separation of Calcium Nitrate from Flue Gas Scrubber Effluent", \$120,000 December 1999 to September 2002, Sponsor: BOC Gases and Pennsylvania Infrastructure Alliance.
- “Low Temperature Selective Catalytic Reduction of NO”, \$700,000 December 1996 to September 2003. Sponsor: Utility Consortium, with Co-investigators: Charlie Lyman and Rick Herman.
- “Fundamental Studies of the Oxidation of Sulfur Dioxide to Sulfur Trioxide over Supported Metal-Oxide Catalysts”, \$315,000 October 1996 to September 1999. Sponsor: NSF; with PI: Israel Wachs.
- “Selective Catalytic Oxidation of Organosulfur Compounds to Valuable Chemical Intermediates”, \$420,000 October 1999 to September 2002 Sponsor: NSF; with PI: Israel Wachs.
- "Separation and Concentration of Sulfur Dioxide in Flue Gas Streams", \$59,000, August 1993 to September 1994, Sponsor: Pennsylvania Energy Development Authority.
- "Plasma Enhanced Catalytic Oxidation of Methane", \$35,000, December 1992 to July 1994, Sponsor: Air Products, with Co-investigator Dennis Hess.

- "Catalytic Destruction of Chlorinated Hydrocarbons", \$32,300, March 1991 to August 1992. Sponsor: Ben Franklin Technology Center.
- "Development of a New Mordenite Material for Removal of Sulfur Dioxide from Flue Gas", \$170,000, Sept. 1990 to Aug. 1993. Sponsor: Pennsylvania Energy Development Authority, with Co-investigator: Dale Simpson.
- "Analytical Electron Microscopy of Catalyst Preparations" \$563,345 July 1986 to 1993. Sponsor: DOE, with Co-investigator: Charles Lyman.
- "Coupled Reactor-Column Experiment for Chemical Engineers", \$39,000, Oct. 1992 to Sept. 1994 Sponsor: NSF, with Bill Luyben.
- "Removal of Water from MTBE", \$17,000, March 1992 to July 1992, Sponsor: Chevron, with Co-investigator: Fred Stein.
- "Environmental Liaison Program", \$58,000, January 1992 to June 1993. Sponsors: Air Products, Aircor, Precision Grinding, Superior Combustion, Bethlehem Steel.
- "Electrical Resistivity of Fly Ash" \$140,000, June 1990 to January 1993. Sponsor: Allegheny Power Systems, with PI: Ed Levy.
- "Assessment of In-Situ Measurement Techniques for the analysis of Sulfur trioxide in Flue Gases", \$15,000, June 1990 to Oct. 1990 Sponsor: Alleghany Power Systems and New York State Electric and Gas.
- "Optimization of the Catalyst Packing for the Production of Cyanopyridines", \$30,000, June 1988 to June 1989, Sponsor: Nepera Inc.
- "Graduate Fellows Program in Chemical Engineering" \$675,000, September 1988 to August 1991. Sponsor: United States Department of Education. Co-investigators: H.S. Caram, J.A. Phillips, J.C. Chen, and H.G. Stenger, Jr.
- "Heat, Mass, and Momentum Transfer in an Agitated Vessel-Reactor", \$21,000, October 1988 to 1991, Sponsor: NSF.
- "Plasma Deposition Reaction Models", \$24,000, September 1988 to June 1991, Sponsor: AT&T.
- "Catalyst-Sorbent For Flue Gas Emission Clean-Up" \$192,000, September 1988 to June 1991, Sponsors: Pennsylvania Energy Development Authority, Baltimore Gas and Electric, and Corning Glass Works.
- "Intelligent Control of Spray Etching Reactors", \$144,000, September 1988 to 1991, Sponsor: IBM, with Co-Investigator: Christos Georgakis.
- "Engineering Research Equipment Grant: Batch Reactor Facility" \$46,000, May 1987, Sponsor: NSF, with Co-investigator: Christos Georgakis.

- "Endothermic Fuels for Hypersonic Transport", \$6,000 January 1987 to October 1987, Sponsor: Advanced Fuels Research Hartford, Connecticut.
- "Cacao Alkalization Kinetics", \$132,000, July 1986 to June 1988. Sponsor: General Foods Inc.
- "Center of Excellence for Semiconductor Materials Processing", \$25,000, Sept 1985 to Aug 1986. Sponsor: AT&T and Ben Franklin Co-investigator Sid Butler.

Journal Publications

1. "Effect of Carbon Formation on Liquid Viscosity and Performance of Fischer-Tropsch Bubble Column Reactors", Industrial Engineering Chemistry, Process Design and Development, 20, (1981), 666. C.N. Satterfield, G.A. Huff, and H.G. Stenger, Jr
2. "Fischer-Tropsch Synthesis on a Precipitated Mn/Fe Catalyst in a Well Mixed Slurry Reactor", Industrial Engineering Chemistry, Process Design and Development, 23, (1984), 26, H.G. Stenger, Jr and C.N. Satterfield
3. "Molecular Weight Distribution of the Heavy Wax Fraction from the Fischer-Tropsch Synthesis", Journal of Catalysis, 86, (1984), 477, H.G. Stenger, Jr, H.E. Johnson, and C.N. Satterfield
4. "Fischer-Tropsch Synthesis in a Slurry Reactor: Precipitated Iron-Copper Catalyst", Industrial Engineering Chemistry, Process Design and Development, 23, (1984), 849, H.G. Stenger, Jr and C.N. Satterfield
5. "A Comparison of Fischer-Tropsch Synthesis in a Fixed Bed Reactor and in a Slurry Reactor", Industrial Engineering Chemistry, Fundamentals, 24, (1985), 450, H.G. Stenger, Jr, C.N. Satterfield, G.A. Huff, J.L. Carter, and R.J. Madon
6. "Effect of Liquid Composition on the Slurry Fischer-Tropsch Synthesis, I. Rate of Reaction", Industrial Engineering Chemistry, Process Design and Development, 24, (1985), 407, H.G. Stenger, Jr and C.N. Satterfield
7. "Effect of Liquid Composition on the Slurry Fischer-Tropsch Synthesis II. Product Selectivity", Industrial Engineering Chemistry, Process Design and Development, 24, (1985), 411, H.G. Stenger, Jr and C.N. Satterfield
8. "Effects of Sulfur Addition on the Slurry Fischer-Tropsch Synthesis", Industrial Engineering Chemistry, Process Design and Development, 24, (1985), 415, H.G. Stenger, Jr and C.N. Satterfield
9. "Distributed Chain Growth Probabilities for the Fischer-Tropsch Synthesis", Journal of Catalysis, 92, (1985), 426, H.G. Stenger, Jr
10. "Thermodynamic Product Distributions for the Fischer-Tropsch Synthesis", Industrial Engineering Chemistry, Fundamentals, 25, (1986), 410, H.G. Stenger, Jr and C.A. Askonas

11. "Uniformity of Etch Rate in Plasma Etching Reactors", World Congress III of Chemical Engineering, Vol. I, (1986), 315, H.G. Stenger, Jr, R. Sellamuthu, J.A. Barkanic, and R.J. Jaccodine
12. "Enhanced Fischer-Tropsch Selectivity through Sulfur Poisoning", Division of Petroleum Chemistry, ACS, (1986) 31(1), H.G. Stenger, Jr
13. "Kinetics of Plasma Etching Silicon with Nitrogen Trifluoride", Mat. Res. Soc. Symp. Proc. 68, (1986), 267, H.G. Stenger, Jr and G.S. Akiki
14. "Reaction Kinetics and Reactor Modeling of Plasma Etching Silicon", AIChE Journal, 33(7) (1987), 1187, H.G. Stenger, Jr, H.S. Caram, C.F. Sullivan, W.M. Russo
15. "NO Reduction by Al₂O₃ Supported Rh, Pd, and Pt. I. Intrinsic Activities and Selectivities", Energy and Fuels 1(5) (1987) 407, H.G. Stenger, Jr and J.S. Hepburn
16. "Nitric Oxide Reduction Using a Co-impregnated Rhodium on Alumina Celcor Honeycomb", Chem. Eng. Science, 43 (1988) 2067, H.G. Stenger, Jr J.S. Hepburn, E.C. Meyer, and C.E. Lyman
17. "NO Reduction by Al₂O₃ Supported Rh, Pd, and Pt. II. Effects of Poisoning by Sulfur Dioxide", Energy and Fuels, 2(3) (1988) 289 H.G. Stenger, Jr and J.S. Hepburn
18. "Rh and Pt Distributions in Rh/Alumina and Pt/Alumina Catalysts", Microbeam Analysis, (1988), 511, H.G. Stenger, Jr, J.S. Hepburn and Charles E. Lyman
19. "A Review of Plasma Etching Applications Using Nitrogen Trifluoride", Solid State Technology, April, (1989) 109, H.G. Stenger, Jr, J.A. Barkanic, D.M. Reynolds, R. Jaccodine, and H. Vedage
20. "Effects of Drying on the Preparation of Co-impregnated Alumina Honeycomb Supports", Applied Catalysis, 55, 1989 287, H.G. Stenger, Jr, J.S. Hepburn and C.E. Lyman
21. Co-impregnation of Rhodium into Alumina Honeycombs with Acids and Salts", Applied Catalysis, 56, (1989) 107, H.G. Stenger, Jr, J.S. Hepburn and C.E. Lyman
22. "Distributions of HF Co-impregnated Rh, Pt and Pd in Alumina Honeycomb Supports", Applied Catalysis, 55, 1989 271, H.G. Stenger, Jr, J.S. Hepburn and C.E. Lyman
23. "Analysis of Nonuniformities in Plasma Etching of Silicon with Carbon Tetrafluoride in Oxygen", (1989), J. Electrochemical Society 137(3) 954 1990, H.G. Stenger, Jr, A.S. Kao
24. "Quantitative Pt and Rh Distributions in Pollution-Control Catalysts", Ultramicroscopy 34, 73 (1990), H.G. Stenger, Jr, J.S. Hepburn and C.E. Lyman
25. "Tendency Modeling and Optimization of Batch Processes", 45(8), (1990), 2067, Chemical Engineering Science, 1990, H.G. Stenger, Jr, C. Georgakis and A. Rastogi

26. "Co-impregnated Rh/Alumina 1. Preparation", J. Catalysis, 128, 34 (1991), H.G. Stenger, Jr, J.S. Hepburn and C.E. Lyman
27. "Co-impregnated Rh/Alumina 2. Nitric Oxide Reduction and Sulfur Dioxide Poisoning", J. Catalysis, 128, 48, (1991), H.G. Stenger, Jr, J.S. Hepburn and C.E. Lyman
28. "Temperature Swing Adsorption of Sulfur Dioxide and Nitric Oxide", Division of Petroleum Chemistry, 36(1) (1991), H.G. Stenger, Jr and E.C. Meyer
29. "Co-Impregnation of Rhodium Chloride with Hydrofluoric Acid into Dry and Pre-Wet Alumina", Applied Catalysis, 71(2) 205, (1991) H.G. Stenger, Jr, J.S. Hepburn and C.E. Lyman
30. "Etch Profile Development in Spray Etching Processes", Electrochemical Society Journal, 139(9) 2206 (1992), H.G. Stenger, Jr, Christos Georgakis, Alan Kao, Kathleen Covert, and John Kurowski
31. "Laboratory Scale Combustor for Flue Gas Emission Studies", Energy and Fuels, 6(3) 277 (1992), H.G. Stenger, Jr and Eduardo C. Meyer
32. "State Estimation and Control of Spray Etching Processes", Journal of Process Control, 2(2) 87 (1992), H.G. Stenger, Jr, Christos Georgakis and Alan Kao
33. "The Identification of Kinetic Expressions and the Evolutionary Optimization of Specialty Chemical Batch Reactors Using Tendency Models", Chemical Engineering Science, 47 (9-11) 2487, (1992), H.G. Stenger, Jr, Christos Georgakis, Jake Fotopoulos, and Alok Rastogi
34. "Competitive Adsorption of Sulfur Dioxide, Nitric Oxide, and Water onto Mordenite Synthesized from Perlite", Gas Separation and Purification 7 (1) 19, (1993), H.G. Stenger, Jr, Dale R. Simpson and K. Hu
35. "Catalytic Oxidation and Destruction of Chlorinated Hydrocarbons", Applied Catalysis B Environmental 2, 117, (1993), H.G. Stenger, Jr, G.E. Buzan and J.M. Berty
36. "Chromatographic Separation and Concentration of Sulfur Dioxide in Flue Gas", Ind Eng Chem Research, 32, 2736, (1993), H.G. Stenger, Jr
37. "Oxidation and Removal of Chlorinated Hydrocarbons", New Frontiers in Catalysis, 1571 (1993), H.G. Stenger, Jr, G.E. Buzan, K. Hu, and J.M. Berty
38. "Uncertainty Issues in the Modeling and Optimization of Batch Reactors with Tendency Models", Chemical Engineering Science, 49, 5533, (1995), H.G. Stenger, Jr, J. Fotopoulos and C. Georgakis
39. "X-ray Emission Spectrometry of Phase Segregation in Pt-Rh Nanoparticles for Nitric Oxide Reduction", Ultramicroscopy, 58, 25, (1995), H.G. Stenger, Jr, R.E. Lakis and C.E. Lyman

40. "Alumina Supported Pt-Rh Catalysts, Part I: Microstructural Characterization", J. Catalysis, 154, 261, (1995), H.G. Stenger, Jr, R.E. Lakis and C.E. Lyman
41. "Alumina Supported Pt-Rh Catalysts, Part II: Kinetic Characterization and Synergistic Effects", J. Catalysis, 154, 276, (1995), H.G. Stenger, Jr, R.E. Lakis, Yeping Cai, and C.E. Lyman
42. "A Test and Demonstration Unit for Concentrating Sulfur Dioxide from Flue Gas", Ind. Eng. Chem. Research, 35 (4), 1409, (1996), H.G. Stenger, Jr, J.P. Dunn, Yeping Cai, and L.S. Liebmann
43. "Catalytic CO Oxidation over Pt-Rh/Alumina Catalysts", J. Catalysis, 161, 123, (1996), H.G. Stenger, Jr, Yeping Cai and Charles E. Lyman
44. "Use of Tendency Models and Their Uncertainty in the Design of State Estimators for Batch Reactors", Chemical Engineering and Processing, 37, 545-558, (1998), H.G. Stenger, Jr, J. Fotopoulos, and C. Georgakis
45. "Oxidation of Sulfur Dioxide to Sulfur Trioxide over Supported Vanadia Catalysts", Applied Catalysis B (1998), 19(2), 103-117, H.G. Stenger, Jr, J. P. Dunn, P. R. Koppula, and I.E. Wachs
46. "Interactions between Surface Vanadate and Surface Sulfate Species on Metal Oxide Catalysts", Journal of Physical Chemistry, (1998) 102(32) 6212-6218, H.G. Stenger, Jr, J.P. Dunn, I.E. Wachs
47. "Oxidation of Sulfur Dioxide over Supported Vanadia Catalysts: Molecular Structure - Reactivity Relationships and Reaction Kinetics", Catalysis Today, 51, 1999 p 301-318, H.G. Stenger, Jr, J.P. Dunn and I. E. Wachs
48. "Molecular Structure-Reactivity Relationships for the Oxidation of Sulfur Dioxide over Supported Metal Oxide Catalysts" Catalysis Today (1999), 53(4), 543-556, H.G. Stenger, Jr, J. P. Dunn and I. E. Wachs
49. "Oxidation of SO₂ over Supported Metal Oxide Catalysts." J. Catalysis (1999), 181(2), 233-243, H.G. Stenger, Jr, J. P. Dunn, and I. E. Wachs
50. "Testing Zeolite SCR Catalysts Under Protocol Conditions for NO_x Abatement from Stationary Emission Sources." Catalysis Today (2000), 55(3), 281-290, H.G. Stenger, Jr, B. Ramachandran, R.G. Herman, S. Choi, C. E. Lyman, and J. W. Sale
51. "Analysis of Alloy Nanoparticles", Mikrochim Acta, (2000), 132(2-4), 301-308, H.G. Stenger, Jr, C. E. Lyman, R. E. Lakis, B. Totdal, and T. Prestvik
52. "Monitoring Aging and Deactivation of Emission Abatement Catalysts for Selective Catalytic Reduction of NO_x", Topics in Catalysis, (2002), 18(3-4), 251-257, H.G. Stenger, Jr, R. G. Herman, J. W. Sale, C. E. Lyman, J. E. Agogliatti, Y. Cai, B. Ramachandran, S. Choi

53. "Fuel Cell Grade Hydrogen from Methanol on a Commercial Cu/ZnO/Al₂O₃ Catalyst" Applied Catalysis, B: Environmental, (2002), 38(4), 259-269, , H.G. Stenger, Jr and Y. Choi
54. "Kinetics of Methanol Decomposition and Water Gas Shift Reaction on a Commercial Cu-ZnO/Al₂O₃ Catalyst", American Chemical Society, Division of Fuel Chemistry, (2002), 47(2), 723-724, H.G. Stenger, Jr and Y. Choi
55. "Water Gas Shift Reaction Kinetics and Reactor Modeling for Fuel Cell Grade Hydrogen", Journal of Power Sources, (2003) 124, 432-439, H.G. Stenger, Jr and Y. Choi
56. "Kinetics, Simulation and Insights for CO Selective Oxidation in Fuel Cell Applications", Journal of Power Sources, (2004) 129 246-254, H.G. Stenger, Jr and Y. Choi
57. "Kinetics, Simulation and Optimization of Methanol Steam Reformer for Fuel Cell Applications", Journal of Power Sources (2005), 142, 81-91, H.G. Stenger, Jr and Y. Choi
58. "Computational Fluid Dynamics Modeling of Polymer Electrolyte Membrane Fuel Cells", Journal of Power Sources, (2005), 147, 95-106, H.G. Stenger, Jr and G. Guvelioglu
59. "Mercury Oxidation in Selective Catalytic Reduction Reactors", Energy and Fuels, (2005), 19(6) 2328-2334, H.G. Stenger, Jr and S. Eswaran
60. "Main and Interaction Effects of PEM Fuel Cell Design Parameters", Journal of Power Sources, (2006), 156(2) 424-433, H.G. Stenger, Jr and G. Guvelioglu
61. "The Effects of H₂O, SO₂, and NO on the Homogeneous Oxidation of Mercury by Cl₂" Energy and Fuels, (2006) 20(3) 1068-1075, H.G. Stenger, Jr, H. Agarwal, S. Wu, and Z. Fan
62. "Development of a Predictive Kinetic Model for Homogeneous Hg Oxidation Data", Mathematical and Computer Modeling, (2007), 45(1-2) 109-125, H.G. Stenger, Jr and H. Agarwal
63. "Gas-Phase Mercury Adsorption Rate Studies", Energy and Fuels (2007), 21(2), 852-857, H.G. Stenger, Jr, S. Eswaran and Z. Fan
64. "Comparing and Interpreting Laboratory Results of Hg Oxidation by a Chlorine Species", Fuel Processing Technology, (2007) 88(7) 723-730, H.G. Stenger, Jr, H. Agarwal and C. Romero
65. "Effect of Halogens on Mercury Conversion in SCR Catalysts", Fuel Processing Technology, (2008), 89; 1153-1159, H.G. Stenger, Jr and S. Eswaran

Patent

A Process for Removing Sulfur Oxides from a Gas Stream, Dale Simpson and Harvey Stenger, June 1993 #5,223,237.

Books

“An Interactive Introduction to C++, Excel, Matlab, and Basic Engineering Numerical Methods v 1.1”, H.G. Stenger Jr. and Chuck Smith, ISBN-10: 0136120245, Pearson 2009.

“Chapter 18 Academic Careers and Graduate School”, Ready for Take Off, Dean C. Millar, ISBN-10: 0136081274, Pearson, 2010.