

PHILLIP S. COLES

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Google Scholar: <http://scholar.google.com/citations?user=WGhrVVkAAAAJ&hl=en>

LinkedIn: <https://www.linkedin.com/in/philip-s-coles-b3451532/>

ACADEMIC/TEACHING POSITIONS

Lehigh University, College of Business, Bethlehem, PA January 2018-present

- [Teaching Associate Professor](#) in Supply Chain Management
- Supply Chain Management Program Director August 2021-August 2022
- Executive Education - Lean - Six Sigma & Effective Planning and Forecasting

The Pennsylvania State University, Berks College, Reading, PA January 2017- May 2019

- Instructor in Agricultural Business and Economics

Syracuse University, Syracuse, NY, August 2015-May 2016

- Adjunct Faculty, Whitman School of Management - Strategic Management

Cornell University, Ithaca, NY, September 2011-September 2013 & August 2015-August 2016

- Trainer and Consultant - Northeastern IPM Center

Cornell University, Ithaca, NY

- Lead Teaching Assistant - Summer College, July 2014-August 2016
 - AEM 1200 - Introduction to Business Management
- Teaching Assistant - Dyson School of Applied Economics and Management, Aug 2013-Aug 2015
 - AEM 4660 - Market Dynamics, Computer Simulation and Modeling, AEM 3249 - Entrepreneurial Marketing and Strategy, AEM 3250 - Business Planning for New Ventures
- [Research Assistant](#)

Alvernia University, Reading, PA, November 2012-August 2013

- Adjunct Faculty - School of Graduate and Continuing Studies - International Business

Reading Area Community College, Reading, PA, September 2006-August 2013

- Adjunct Faculty - Science and Mathematics Division - Environmental Science

Invited Lecturer:

- China Agricultural University, Beijing
- Shanxi University, Taigu
- Cornell University, Johnson School, Ithaca, NY
- The Pennsylvania State University, University Park, PA
-Smeal College of Business
-College of Agricultural Sciences

Invited Seminar:

- Columbia University, New York, NY
- Cornell University, Dyson School of Applied Economics and Management, Ithaca, NY

EDUCATION and PROFESSIONAL DEVELOPMENT

Cornell University, Ithaca, NY, *February 1, 2016*

- Master of Science, Applied Economics and Management

Lehigh University, Bethlehem, PA, *May 2011*

- Master of Business Administration: *Dean's Scholar, Martindale Fellow*
- Graduate Certificate in Supply Chain Management

Nottingham University Business School, Nottingham, United Kingdom: *March 2011*

- Martindale MBA Fellowship: global business and Corporate Social Responsibility strategies

University of Pennsylvania, Philadelphia, PA: *attended 1993*

- Wharton Business School: *Marketing, Management*

The Pennsylvania State University, University Park, PA

- Undergraduate Certificate in Business Management, May 1994
- College of Agricultural Sciences B.S., Entomology, May 1981

PROGRAMMING CAPABILITIES and COMPUTER SKILLS

- Stata, R, Qualtrics, EViews Microsoft Office: Word, Excel, PowerPoint

LANGUAGE SKILLS

Fluent in Spanish-Traveled throughout Spanish speaking world: Spain, Mexico, Bolivia, Puerto Rico

PROFESSIONAL EXPERIENCE

Giorgio Fresh/ Mushroom division, Temple, PA: 1981-2018

- International, grower/packer of fresh mushrooms (Subsidiary of \$3 billion Giorgi Global Holdings, Inc.)

Vice President of Regulatory Compliance and Strategic Planning

- Responsible for managing environmental compliance and overall Strategic Management of Giorgi Holdings, Inc.

Kaizen Facilitator - Reported directly to company president

- Contributed to Giorgi Global Holdings strategies and continuous improvement program as a member of the Corporate Steering Committee ([Giorgio Fresh, Giorgio Foods, Can Corporation](#))
- Major driver in execution of worldwide procurement strategy
- Implemented Kaizen, continuous improvement Program: Quality Circles, Suggestion and 5S systems, TPS, Lean Manufacturing, as part of overall waste reduction strategy

Project Manager (concurrent) - Implement product enhancement and cost reduction strategies:

- Created cost calculator and developed alternative raw materials, **reduced costs ≈20%**.
- Developed Hazard Analysis, Critical Control Point (HACCP) and Good Agricultural Practices (GAP) and obtained certification; Certifiers: **USDA, U.S. Army, Silliker, Primus GFSI**. All six facilities received **100% score** on most recent USDA audits
- Reduced Pesticide costs and usage ≈ **90% with better outcomes**
- Created organic market strategy and transformed Giorgi from zero production to **largest organic mushroom producer**
- Developed & managed environmental compliance. No environmental citations or fines

Preparation Manager - Managed compost facility, Phase II, spawning, pest control, workforce 40. Increased spawning crew **efficiency » 400%**

Compost Facility Manager - Managed composting facility with \$7.2 million budget (1990 dollars). Worked with vendors to **reduce inventories by » 75%. Tripled output with » 20% increase in operating space and » 50% more labor. Also responsible for equipment maintenance personnel**

Spawning Department Supervisor - Responsible for Phase II to Casing, pest and environmental controls. Supervised 11. Implemented **visual controls & process control charts, reduced shrink**

Technical Director

CONSULTING & EXPERT WITNESS (select clients)

Confectionery company with \$1 million in sales, 2014: Created plan for growth through outsourcing

Biofuels company, 2014: Developed waste material to byproduct strategies

Provision company with \$2 million in sales, PA, 2009: Created Hispanic marketing plan & cost accounting template

Gibbel Kraybill & Hess LLP, Lancaster, PA, 2009: Testified against feasibility of proposed mushroom facility. Lead to a **dismissal of their petition** for zoning change

Monte Blanco Mushrooms, Saltillo, Mexico, 2004 to 2013: Advised and Trained personnel in IPM, growing & HACCP. **Passed required inspections first attempt.**

Campbell's Fresh, Mushroom Farms, Evansville, PA 1998: Assisted in improving composting management systems US wide

Lehigh Agricultural & Biological Laboratory Services, Hamburg, PA 1996 - 1998: Designed experimental mushroom growing facility under Good Laboratory Practices (GLP) guidelines

Ciba-Geigy (Now Syngenta), Greensboro, NC 1994 - 1996: Performed fate analysis work for pesticide registration.

Ponds Ltd. India (Unilever), Ootacomund, Tamil Nadu, India 1989 – 1996: Lead consultant for startup growing and processing facility, pilot through full production

SCHOLARSHIP OF RESEARCH AND CREATIVE ACTIVITY

Centers for Research, Scholarship and Creative Activities

[Eastern Broccoli Project](#), Funded by USDA-NIFA Specialty Crops Research Initiative

[Miguel Gomez Research Group](#), Cornell University

Master's Thesis Research

Coles, P. S., 2016, [Produce Buyer Quality Requirements to Form an Eastern Broccoli Industry](#), Charles H. Dyson School of Applied Economics and Management MS Thesis

Refereed Publications

Arauco, I., Ramos, E., Mesia, R., Coles, P.S. (2022) "A Framework to Design a Lean Supply Chain: A Case Study in a Peruvian Concrete Company" [Journal of Value Chain Management](#).

Edgar Ramos, B. Reyes, Rajiv Sánchez, Phillip S Coles (2021) Supplier relationship management process assessment in food supply chains: an empirical study in coffee supply chains from Peru, [International Journal of Process Management and Benchmarking](#).

Flores, R, Lazaro, E, Ramos, E., Coles, P (2021) 'Demand Management Process Assessment in Agri-food Supply Chain: An empirical study in Coffee Supply Chains from Peru', [International Journal of Process Management and Benchmarking](#).

Ramos, E., Coles, P.S., Chavez, M. and Hazen, B. (2021), "Measuring agri-food supply chain performance: insights from the Peruvian kiwicha industry", [Benchmarking: An International Journal](#), Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/BIJ-10-2020-0544>

Coles, P, Mazin, M, Nogin, G., (2021). The Association Between Mushroom Sciarid Flies, Cultural Techniques and Green Mold Disease Incidence on Commercial Mushroom Farms. *Journal of Economic Entomology*, <https://doi.org/10.1093/jee/toaa322>

Phillip S. Coles, Galina Nogin, Michael Fidanza & Greg Roth (2020) [Evaluation of Fresh Mushroom Compost in a Field Corn Production System](#), Compost Science & Utilization, DOI: [10.1080/1065657X.2020.1749184](https://doi.org/10.1080/1065657X.2020.1749184).

Fan, X., Gómez, M., & Coles, P. 2019. [Willingness to Pay, Quality Perception, and Local Foods: The Case of Broccoli](#). *Agricultural and Resource Economics Review*, 1-19. doi:10.1017/age.2019.21

Coles, P.S., Dong, J., Gomez, M., Björkman, T., 2019. [Produce Buyer Quality Requirements to Form an Eastern Broccoli Industry](#). *Journal of Food Distribution Research* 50 (1):63-83

Royse, D.J., K. Boomer, Y. Du, M. Handcock, P.S. Coles, and C.P. Romaine. 1999. [Spatial distribution of green mold foci in thirty commercial mushroom crops](#). *Plant Disease* 83:71-76

Weber, L., P. Coles, M. Hautau, and C. Oshins. 1997. Comparison of spent mushroom substrate and inorganic fertilizer as a nutrient source for corn. *Mushroom News, Science & Technology* 45(5):6-10

Work in Progress

Dongsheng Li, Phillip S. Coles, Saurabh Bansal, Karthik Natarajan. "Optimizing harvesting regimes to improve working conditions: models and application to agribusiness."

Phillip S Coles, Milton McGiffen Jr. "The Association between Compost Filling Technologies and Labor Practices, and Green Mold Disease Incidence on a Commercial Mushroom Farm."

Phillip S Coles, Ujjal Chatterjee, Sudip Gosh. "Inventory Levels and Economic Growth"

Coles, P.S., Bansal, S., Gavirneni, N., "Managing Quality-Quantity Tradeoff at a Pennsylvania Mushroom Farm."

Bansal, S., Coles, P.S., Gavirneni, N., "Harvesting Optimization Models for Working-Condition Improvement: Models and Application to Agribusiness."

Non-Refereed Publications

Coles, P.S. (2022). [Tradeoffs: What Happens When Economic Assumptions Don't Reflect the Real World](#) Column, Discourse Magazine

Coles, P.S. (2022). [The Plan, Do, Check, Act \(PDCA\) Cycle](#) Jay, Barry and Chuck's OM Blog, A Blog for Operations Management Educators

Coles, P.S. (2022). [Could the End of Lockdowns in China Lead to Reduced Inflation in the United States?](#) Editorial, Discourse Magazine

Coles, P.S. (2022). [The Government Is Not Going to Fix Our Supply Chains](#). Editorial, Discourse Magazine

Coles, P.S. (2022). [Risk Management and the Baby-Formula Shortage](#). Editorial, Wall Street Journal

Coles, P.S. (2022). [Hoarding Is a Bad Idea During Times of Supply-Chain Uncertainty](#). Editorial, Wall Street Journal

Coles, P.S. (2021). [Don't Blame Lean Production Methods for Shortages - Inventory is not necessarily good or bad. It depends.](#) Supply Chain Management Review

Phil Coles, Maria Mazin, Galina Nogin (2021) The Relationship Between Mushroom Sciarid Flies, Cultural Techniques, and Green Mold Disease Incidence on Commercial Mushroom Farms, Mushroom News

Phil Coles, Galina Nogin, Michael Fidanza, Greg Roth (2020) Evaluation of Fresh Compost in a Field Corn Production System, Mushroom News

Coles, P.S. (2018) [Examining China's Challenge to Democracy](#) Letter to the Editor, Wall Street Journal

Coles, P.S., (2015) Reveal Experts within Your Organization Using a Simple Tool, disseminating expertise already inside your organization greatly improves performance. Philanthropy Journal News.

http://pj.news.chass.ncsu.edu/?p=12980&category_name=pj-resources

Roth, Greg, M. Fidanza, P. Coles. 2014. Evaluation of Stover Removal and Fresh Mushroom Compost on Corn Yield and Soil Quality. Mushroom News 61(11):6-11

Coles, P.S. 2012. Integrated Pest Management and Resistance Management. Mushroom News 60(10):16-20

Coles, P.S. 2012. Make Sure Your Pesticide Applications Are Legal Applications. Mushroom News 60(9):6-13

Coles, P.S. 2012. Pest Monitoring Pays Big Dividends at McMinnville Housing Authority.

<http://www.stoppests.org/stoppests/assets/File/Pest%20Monitoring%20Pays%20Big%20Dividends.pdf>

Coles, P.S. 1998. Pest exclusion and its role in integrated pest management. Mushroom News 46(11):26-29

Coles, P. S. 1994. Integrated pest management and its role in mushroom production. Mushroom News 42(4):7-11

Coles, P. S. 1994. Using leaves as a substitute for corncobs. (Reprint of Biocycle article) Mushroom News 42(11):7-8

Coles, P. S. 1994. Using leaves as an ingredient in mushroom compost. *Biocycle* 35(9):79-82

Invited Presentations at Professional Conferences and Meetings

Phillip S Coles, 2022. "[Does Local Procurement Affect Produce Buyers' Perception of Broccoli Quality?](#)" New York Produce Show

Dongsheng Li, Phillip S. Coles, Saurabh Bansal, Karthik Natarajan 2022. "Optimizing harvesting regimes to improve working conditions: models and application to agribusiness." Penn State Mushroom Short Course

Phillip S Coles, John D'Amico, Vince Losito 2022. "Mushroom Disease: Integrated Pest Management" Penn State Mushroom Short Course

Phillip S Coles, Milton McGiffen Jr, 2022. "The Association between Compost Filling Technologies and Labor Practices, and Green Mold Disease Incidence on a Commercial Mushroom Farm." American Society of Horticultural Science 2022 Annual Conference

Phillip S Coles, 2022. "Inventory and Risk Management Strategies during Times of Agricultural Supply Chain Uncertainty" American Society of Horticultural Science 2022 Annual Conference

Phillip S Coles, 2022. "Lean Manufacturing" Institute for Supply Management

Phillip S Coles, 2021. "Global Supply Chains and U.S. National Security" Foreign Policy Association

Coles, P.S., M., Mazin, G. Nogin, 2021 "The Association Between Mushroom Sciarid Flies, Cultural Techniques and Green Mold Disease Incidence on Commercial Mushroom Farms." Entomological Society of America Eastern Branch Annual Conference

Coles, P.S., Amerling, N., Gomez, M., Björkman, T., 2020. "Are Produce Buyers Willing to Embrace Newly Developed Varieties of East Coast, Locally/Regionally Grown Broccoli to the Point That They Will Overlook Typical Quality Requirements?" ASHS Virtual Annual Conference

P Coles, G Nogin, MA Fidanza, G Roth 2020. "[Evaluation of Stover Removal & Fresh Mushroom Compost on Corn Yield and Soil Quality](#)" ASHS Virtual Annual Conference HORTSCIENCE 54 (9), S275-S275

Coles, P.S., Amerling, N., Gomez, M., Björkman, T., 2020. Are Produce Buyers Willing to Embrace Newly Developed Varieties of East Coast, Locally/Regionally Grown Broccoli to the Point That They Will Overlook Typical Quality Requirements? NAREA Virtual Annual Conference

Coles, P.S., Dong, J., Gomez, M., Björkman, T., 2019. Produce Buyer Quality Requirements to Form an Eastern Broccoli Industry. FDRS 2019 Annual Conference, Seattle, WA

Coles, P.S., G. Nogin, M. Fidanza and G. Roth., 2019. Evaluation of Fresh Mushroom Compost in a Field Corn Production System. ASHS 2019 Annual Conference, Las Vegas, NV

Coles, P.S., Dong, J., Gomez, M., Björkman, T., 2019. Produce Buyer Quality Requirements to Form an Eastern Broccoli Industry. ASHS 2019 Annual Conference, Las Vegas, NV

Coles, P.S., 2017 Hispanic Breakout for Growers- IPM for Mushrooms. Penn State Mushroom Industry Conference, The Pennsylvania State University, Mendenhall, PA

Fan, X., M. Gomez, P. Coles. 2015, Are Consumers Willing to Pay Price Premiums for Newly Developed East Coast Broccoli Varieties? An Experimental Study. NAREA & CAES Joint Annual Meeting, Newport, RI

Coles, P.S. 2011, Using Integrated Pest Management in Light of Diminishing Pesticide Availability for Mushroom Production. Penn State Mushroom Industry Conference, The Pennsylvania State University, Mendenhall, PA

Coles, P.S. 2010. Beneficial Environmental Impacts of Composting Waste Materials. Hershey Foods Sustainable Packaging Workshop, Hershey, PA

Coles, P.S. 2008. Integrated Pest Management and the North American Mushroom Industry. Beijing Mushroom Association, Beijing Academy of Agricultural and Forestry Sciences, Institute of Plant

Protection, China Agricultural University, Beijing; Shanxi University, Taigu, Shanxi Province, Peoples Republic of China

Coles, P.S. 2006. Integrated Pest Management, practical implementation at the farm level
Amycel/Spawn Mate Growers Conference, Kennett Square, PA

Coles, P.S. 2004. Details for a successful IPM program. 12th Mushroom Review Program, The Dynamics of Cultural Details. The Pennsylvania State University, University Park, PA

Coles, P.S. 2003. Integrated pest management in mushrooms. Cooperative Extension, Pennsylvania State University, University Park, PA

Coles, P.S. 1999. The use of Standard Operating Procedures in the Cultivation of Mushrooms. 41st Annual Mushroom Short Course, Pennsylvania State University, University Park, PA

Coles, P.S. 1998. Combating Insect Threats. 40th Annual Mushroom Short Course, The Pennsylvania State University, University Park, PA

Coles, P.S. 1998. Optimal Phase I Composting for Increased Mushroom Production. Campbell's Soup Grower's Conference, Napoleon, OH

Coles, P.S. 1997. Green mold panel discussion. 39th Annual Mushroom Short Course, The Pennsylvania State University, University Park, PA

Coles, P.S. 1995. Pesticide registrations and re-registrations under FIFRA. 37th Annual Mushroom Short Course, The Pennsylvania State University, University Park, PA

Coles, P.S. 1994. Mushroom Integrated Pest Management. 36th Annual Mushroom Short Course, The Pennsylvania State University, University Park, PA

Coles, P.S. 1993. Using Leaves as a Carbohydrate Source in Mushroom Compost. Environmental Workshop, Cooperative Extension Meeting, The Pennsylvania State University, Mendenhall, PA

Media Related to Scholarship

FACT FOCUS: [Food plant fires fuel conspiracy theory](#) Associated Press, 2022

[Banning books, growing mushrooms: Lehigh professors featured in esteemed publications](#) Brown and White, 2022

[Phillip Coles on the effects of the of Disruptions to the Supply Chain in the Supply Chain on the Holidays](#)" *Lehigh ILLUminate Podcast*, 2021

"[Local professor explains how ship stuck in Suez Canal causing problems for global supply chains all over the world](#)" WFMZ, Allentown, 2021

Some grocery stores limiting how much meat you can buy due to supply shortages, [WFMZ Allentown](#), May 2020

Kitchen Table Talks: [How COVID-19 is Affecting Agriculture Supply Chains](#). April 2020

Eastern Broccoli Project on track to meet \$100M goal, [Cornell Chronicle](#). October 2019

Is there a market for locally grown broccoli on the East Coast? [Farm & Dairy](#) June 2019

Locally Grown Produce: Are Buyers Willing to Forgo Quality? [Lehigh News](#) April 2019

Economic prosperity is more closely tied to economic freedom than to political freedom. [Wall Street Journal](#) April 2018

Books

Coles, P.S., et.al. 2002. Mushroom Integrated Pest Management Handbook. College of Agricultural Sciences, Pennsylvania State University, University Park, PA. 91 p. Spanish version, 2007
<http://extension.psu.edu/publications/agrs-083/view>

Member PA Department of Environmental Protection workgroup. 1997. Best Practices for Mushroom Production. Pennsylvania Department of Environmental Resources, Harrisburg, PA. 63 p.

Student Research Supervision

Doctoral Supervision - Dongsheng Li (The Pennsylvania State University: Committee Member. 2020 – present)

Reviewing Activities

Ad hoc reviewer for [Sustainability](#)

AWARDS and RECOGNITION

- Mentor Appreciation Award, 2022
- Department Faculty Service Award, 2022
- Lehigh University Mentorship Excellence Award, 2021
- Invited to London Produce Show, 2015
- International IPMAwards of Recognition, 2015
- Krallinger Friend of the Industry Award, American Mushroom Institute, 2014
- Heslop Scholarship, Cornell University, 2014
- MARTINDALE MBA FELLOWSHIP, Martindale Center for the Study of Private Enterprise, Lehigh University, 2011
- DEAN'S SCHOLARSHIP, Lehigh University, 2010
- VOLUNTEER OF THE YEAR, Big Brothers & Sisters of Berks County, 2000 & 2007
- WASTEWATCHER'S AWARD, presented to Giorgio Foods; Pennsylvania Department of Environmental Protection, for developing and coordinating use of leaves as a composting ingredient in mushroom production, 1999
- PRODUCTION AWARD, Giorgi Mushroom Co., for contributions to first 10 lb/ft² crop, 1994
- PRODUCTION AWARD, Giorgio Foods, for contributions to first 6 lb/ft² crop, 1986
- EFFICIENCY Award, Giorgi Mushroom Co., for development of mobile boiler platform, 1985

MEMBERSHIP and PARTICIPATION in PROFESSIONAL ORGANIZATIONS

- Decision Sciences Institute
Research Track Co-chair – [Decision Sciences in Practice](#) 2021
- Entomological Society of America since 2021
- Council of Supply Chain Member Professionals since 2018
- American Society for Horticultural Science since 2019:
Partnership Development Committee since 2020
- Food Distribution Research Society, 2015 - present
- Northeastern Agricultural and Resource Economics Association, 2015 - present
- Agricultural and Applied Economics Association, 2014 - present
- Pennsylvania Certified Organic: President of Advisory Board, member 2011 - June 2014
- American Mushroom Institute:
Integrated Pest Management Committee, Chairman, 1993-present. Environmental Committee, 1994-present. Food Safety Committee, 2007-present
- Berks County Cooperative Extension, The Pennsylvania State University:
Board of Directors, President, 2000; Vice-President, 1997-1998; member 1996-2000
- Pennsylvania Department of Agriculture: Pennsylvania **Pesticide Advisory Board**, 1993-2013

UNIVERSITY SERVICE

- The Center for Supply Chain Research at Lehigh member 2018 to present (Department level)
- College Republicans Advisor, August 2022 to present (University level)

- LEAD Scholars presenter, 2022, 2021 (College level)
- Candidates' Day - Spoke with students about Supply Chain Major, 2022 (College level)
- Member of MBA applicant decision committee, 2021 to present (College level)
- Supply Chain Management Program Director, August 2021-August 2022 (Department level)
- Inquiry to Impact projects judge, 2021 (University level)
- Lehigh Sustainability Council member, 2020 to present (University level)
- Lehigh Creative Inquiry Statistics Workshop, 2020 (University level)
- Lehigh Consulting Group Summit, "Transformation from Tech" panel, 2019 (College level)
- Candidates' Day - Spoke with students about Supply Chain Major, 2019 (College level)
- SCM 186 Course Manager, 2018 to 2021 (Department level)
- Consultant to Creative Inquiry Sierra Leone Mushroom Project, 2019 through 2020 (University level)
- Student tour of Giorgio Farm and Fresh Pack, 2019 (College level)
- Student tour of Boscov's Distribution Center, 2019 (College level)
- SCM Tenure Track Faculty Search Committee Member 2018 (Department level)

COMMUNITY SERVICE

- Big Brothers/Big Sisters of Berks County: board member since 1996, except 2013 to 2016, President 1999 & 2000, Vice-President 1998, Secretary 1997, Club Of Unmatched Littles Volunteer 1998-2008, Big Brother one to one Volunteer 1991-1994
- Penn State University, Berks College, Engineering Industrial Advisory Council 2011 - 2013
- The Pennsylvania Community Development & Finance Corporation: 2011 - 2013
- Reading School District, Tax Study Commission: 2006
- City of Reading Redevelopment Authority: Vice-chair 2007, Secretary 2004-2006, member 2003-2013
- Reading/Muhlenberg Vocational Technical Education Authority: 2003 - 2013