

**Cumulative Curriculum Vita Accompanying
Faculty Activity Report/Self Evaluation**

I. Professional Background

Name: Laird Burns

Rank and Year Appointed to that Rank: Associate Professor, 2016

Year of Appointment to Graduate Faculty if applicable: 2010

Department: Management Science

Office Address: BAB 343

Academic Specialty (ies): Management Science, Supply Chain Management, Complex Systems

Degrees (include all degrees: bachelors, masters, and doctorate), (include title of degree, year awarded, institution, major, minor, and dissertation title):

Ph.D., Michigan State University, (2010), Major in operations and supply chain management, minor in complex systems. Dissertation title: "Does Supply Chain Design Matter? A Multi-Method Study of Supply Chain Architecture, Firm Performance, and Resilience under Conditions of Supply Disruption".

Graduate coursework in computational and mathematical modeling of complex and nonlinear systems (2003-2008), University of Michigan, Center for the Study of Complex Systems.

Master of Business Administration (1987), University of Michigan.

Bachelor of Business Administration (1983), Grand Valley State University.

Professional certification: (If none, delete this entry): (Include certificate name, year, source):

Responsible Conduct of Research training, UAH, 2012-2017. 8 hours per year.

Responsible Conduct of Research Certificate, 2005, Michigan State University Graduate School. This was a 40-hour NIH compliant research training in advocacy in research, ethical challenges, objectivity, fairness, human subjects research, and integrity in research.

Prior national and international automotive quality certifications through Automotive Industry action Group (AIAG) as Lead Assessor in TS-16949, QS-9000, TE-9000 and ISO-

9000; Measurement Systems Analysis (MSA), Statistical Process Control (SPC); Failure Modes and Effects Analysis (FMEA); Production Part Approval Process (PPAP); Advanced Product Quality Process and Control Plans (APQP), and Reliability and Maintainability (R&M).

Nonacademic professional experience: (List years, position, organization)

2002 - Chief Operating Officer, Conveyor Maintenance and Supply, Incorporated (Affiliated company with Amprotech Inc.).

1997-2001 - Chief Operating Officer, Food Products Division, Frost Incorporated, (Affiliated company with Amprotech Inc.)

1996–1997 - President and CEO, Burns Industries Incorporated (Design engineering and manufacturing company),.

1997–2002, 1987–1996 - Management Consultant, Amprotech Incorporated.

1986 - Financial Analyst, Unisys Corporation, summer internship (MBA program).

1983–1985 - Human Resource Coordinator, Bil-Mar Foods.

Academic experience: (List years, rank, university)

2016-present, Associate Professor, University of Alabama in Huntsville

2009-2016, Assistant Professor, University of Alabama in Huntsville

April 2011 to April 2013 - Faculty member in the UA/UAH EMBA program, co-teaching supply chain management

2009 (Spring & Summer) – Doctoral student teacher, Michigan State University, Teaching MSC 372 - Manufacturing Planning and Control, MSC 373 - Logistics & Transportation Management, and MSC 470 Supply Chain Strategy to undergraduate students.

2002 to 2008 – Program coordinator, faculty lecturer, curriculum advisor, and faculty advisor to participants in the Masco Leadership Program in Operations and Supply Chain Management at Michigan State University Executive Development Programs.

Taught supply chain management, operations management, quality tools, independent and dependent demand, information systems, introduction to six sigma/statistics, and case studies.

2007 to 2008 - Faculty committee member and faculty advisor to participants, in the Masco Leadership Program in Innovation Management at Michigan State University Executive Development Programs.

This leading-edge collaborative program involves academic and professional experts from three universities and two companies, including Michigan State University, Rensselaer Polytechnic Institute, Babson College, Masco Corporation and Strategyn.

2006, 2007, 2008, Program faculty, Purchasing Management Association of Canada - Annual Supply Chain Management Leadership In-Residence Program.

Taught Supply Chain Management Future Trends and Issues, Strategic Problem Solving and Decision Making, Building the Right Relationships - Parts I and II, Strategic Communication and Relationship Skills, Tactical versus Strategic Supply Chain Management, Developments in Strategic Supply Chain Management: Technological Advances - Parts I and II, Performance Measurement and Supply Chain Management, and the Barilla. Loren and Knox Electronics Case Studies in this professional development program that leads to professional certification.

1990-1991- Adjunct faculty, Davenport University Department of Management.

Taught Entrepreneurship/Small Business Management courses.

II. Teaching Activities: Summary list of courses taught, theses advised

MGT 611 – Supply chain management

MGT 693 – Supply chain strategy

MSC 570 – Senior Logistics Advance Course (Special Projects), U.S. Army

MSC 605 – Operations management

MGT 411 – Supply chain management

MSC 385 – Operations Analysis

2017 – Ph.D. Committee Member, Carole McLemore

- **July 2017 to May 2018 – taught 27 credit hours of courses, including 4 graduate level MSC 570 courses for the U.S. Army**
- **June 2017 – September 2018 – taught 6 cohorts of the Army G-3 (Pentagon) sponsored Senior Logistician Advanced Course, which could be taken for course credit**

III. Research, Creative, and Scholarly Activity:

(List publications chronologically, by category, including authors, title, journal, volume, page, year published)

- Refereed Journal Articles: **full citations at the end of this report**
 - (Graham, Burns and Hennelly, 2018) (Tseng *et al.*, 2017) (Burns, 2017) (Burns, Mok and Colley, 2014a) (Wilhite *et al.*, 2014) (Melnyk *et al.*, 2012) (Melnyk *et al.*, 2009) (Zsidisin *et al.*, 2008) (Melnyk *et al.*, 2005)
- Abstracts and Papers Delivered at Professional Meetings:
 - (Hennelly *et al.*, 2017) (Burns and Tseng, 2016a) (Watson *et al.*, 2014) (Burns, Mok and Colley, 2014b) (Burns, Colley and Morgan, 2014) (Burns and Tseng, 2012) (Burns, Tseng and Berkowitz, 2010) (Burns and Melnyk, 2009a) (Burns and Melnyk, 2009b) (Melnyk *et al.*, 2004) (Burns, Zsidisin and Ellram, 2004)
- Other Publications:

- (Watson *et al.*, 2016) (Burns, 2014a) (Burns, 2014b) (Burns, 2014c) (Burns and Tseng, 2013) (Burns, 2013) (Berkowitz *et al.*, 2012) (Lummus *et al.*, 2007)
- Working Papers:
 - (Seyedghorban, Graham and Burns, 2019)
 - (Seyedghorban *et al.*, 2018)
 - (Burns and Tseng, 2016b)
 - (Burns and Nicholls, 2013)
 - (Burns, Tseng and Berkowitz, 2011)
 - (Burns, 2010)
- Invited Colloquia, Seminars and Presentations:
- **Research grants and Contracts Received:** (include agency or foundation, title, dollar amount, time period)
 - \$986,100 (estimated, awaiting dollar confirmation from PCS) since July 2017 as Program Facilitator for the U.S. Army Senior Logistician Advanced Course, which includes some students taking the course for COB graduate credit.
 - July 2017- \$164,350
 - September 2017- \$164,350
 - February 2018 - \$164,350
 - April 2018 - \$164,350
 - June 2018 - \$164,350
 - September 2018 - \$164,350
 - \$3,249,799 as POI or Co-PI on funded research projects, as follows:

Sep 2015	Sep 2016	NASA	awarded	\$	237,000	
Aug 2015	Apr 2016	AMCOM	awarded	\$	17,762	
Jan 2015	Dec 2015	NASA	awarded	\$	600,000	Co-PI
Jan 2014	Dec 2014	NASA	awarded	\$	600,000	Co-PI
Jan 2014	Dec 2015	NASA	awarded	\$	150,000	Co-PI
Oct 2013	Sep 2014	USASAC	awarded	\$	640,000	Co-PI
Sep 2013	May 2014	AMRDEC	awarded	\$	69,656	PI
Feb 2013	Dec 2013	AMRDEC	awarded	\$	99,381	PI
Jan 2013	Dec 2013	NASA	awarded	\$	654,000	Co-PI
Jan 2013	Dec 2013	NASA	awarded	\$	182,000	Co-PI
 - 36 student-semesters of funded student research at the graduate and undergraduate level, supporting these contracts

IV. Service activities (Include service to institution, discipline, and public), and consultation and other activities (Include personal consulting activities, extramural activities, business activities, and conflict of interest reporting, etc.)

Army Materiel Command – Army Preventive Maintenance (APM) project proposal

- Burns Research – 2018-2019 – Invited to personally participate in the Siemens proposal, participated in the proposal preparation and architecture, as unpaid advisor to Siemens
- UAH – 2018-2019 – lobbied successfully to add UAH as another subcontractor in the proposal, to include UAH CBM (condition-based maintenance) algorithms, and exploratory machine learning - \$300,000 proposed in total for UAH

Army G-3 (Pentagon) – Spring 2019 – worked in collaboration with UAH PCS, we proposed the next generation of the Senior Logistician Advanced Course

Faculty Senate 2018-2019, President-Elect

Faculty senate 2016-2018, Chair – Finance and Resource Committee

Faculty Senate – elected April 2018 to Faculty Senate President-Elect for 2018-2019 (then President)

POMS 2018 Track Chair, Public Sector Supply Chains, Panel Session Chair

Panel Organizer, 21st Annual Cambridge Annual International Manufacturing Symposium, 2017

Decision Sciences - Programs & Meeting Committee 2016-2018

Decision Sciences – 2017 Annual Meeting Track Chair – Logistics

Nominated for University Teaching Award, 2017-2018

Faculty Advisor, UAH Supply Chain Management Association club (2013-present).

Committee Member, UAH Student Conduct Board. (August 22, 2013 - Present).

Committee Member, U.S. Army version of graduate Supply Chain Management Certificate program (2014-2015).

Committee Member, developing new Master's degree in Supply Chain and Logistics Management (2014-2015).

Committee Member, developing new Master's degree in Business Analytics (2014-2015).

Committee Member, developing new Master's degree in Management – Human Resources Management (2014-2015).

Committee Member, DBA Program Committee for joint DBA program with Grenoble. (January 2013 - 2014).

Committee Member, Curriculum committee to review flexible specialization MS degree. (December 2013 - Present).

Committee Member, Curriculum committee for Management major. (September 2013 - Present).

Committee Member, Curriculum committee for Supply Chain Management concentration. (September 2013 - 2014).

Faculty member welcoming current students back to CBA, Student welcome events - several throughout year. (August 2013 - Present).

Committee Member, Faculty search committee for SCM/OM candidate. (May 2013 - January 2014).

Faculty Member, UA/UAH EMBA: April 2011 – April 2013. Co-taught supply chain management as part of the UAH commitment to this program.

Faculty Advisor, SCMA cleanup day for back brick foyer to CBA. (October 2013).

Faculty Advisor, SCMA tour of Brown's Ferry Nuclear Plant. (April 9, 2013).

Faculty Advisor, SCMA tour of Navistar. (March 13, 2013).

External

04-05 February 2019 – Worked with Siemens Government Technologies (SGT) division and Siemens partner companies (subcontractors on the proposal) in Crystal City, VA on the Burns Research and UAH proposal elements for the AMC APM project

October 2018 – April 2019 – Army Preventive Maintenance project proposal development - worked with Siemens and several subcontractor organizations

22 August 2018 – LOGSA, Redstone Arsenal - Briefing to Ms. Amber DuFour, Kevin Cox, and Brian Brown, discussed prior work for Lt. Gen Pillsbury on the ESACLE project, issues of readiness in what would become Gen. Perna's new APM initiative, advised LOGSA on detailed specifics they should incorporate into any future SOW for this project.

12 February 2018 – briefed General Perna, AMC Commanding General, on prior research supporting USAMC and path forward for future research

Research collaboration with the Center for International Manufacturing (CIM) at the University of Cambridge, Cambridge, UK.

26 December 2015 –advising AMC Deputy Chief of Staff for Operations and Logistics (G-3/4), MG LeMasters.

Advising the Commanding General (CG) of AMCOM, MG Richardson, as a supply chain management subject matter expert (2015).

Advising the upcoming Commanding Officer (CO) of Corpus Christi Army Depot (CCAD), as a supply chain management subject matter expert (2015).

Advisor, Alabama State Representative Michael Ball on issues regarding economics, education, economic development, tax policy, supporting Medicare and funding for the poor, and the roles of government versus the private sector.

Supply chain subject matter expert to several companies, including Carina Technologies, Sanmina, Redstone Energy, and their key customers, including TVA and TVA distributors, and Redstone Arsenal.

Founding member and active participant, Center for Complex Adaptive Supply Networks (CaSN) at Arizona State University, which has grown to 64 members from 45 academic institutions in 12 countries.

Numerous College of Business Fall and Spring recruiting and student social events, such as hot dog days at UAH and recruiting at Calhoun Community College (for the last 5 years).

Reviewer, Organic Process Research & Development (paper on reconfiguring pharmaceutical supply chains), 2015.

Session Chair, 14th, 15th, 16th, 18th, and 19th Annual Cambridge Annual International Manufacturing Symposium, 2009, 2010, 2012, 2014, 2015.

Facilitator, Workshop on the Design of the National Network for Manufacturing Innovation (NNMI), a White House initiative to develop a national strategy for advanced manufacturing technology innovation. Workshop jointly sponsored by Department of Defense, NASA and UAH. NNMI Strategy jointly developed by the U.S. Department of Defense, NASA, Department of Energy, National Science Foundation, Department of Commerce, and Department of Education. January, 2013. Huntsville, AL.

Session Chair, Decision Sciences Annual Conference, 2013.

V. Honors, Awards, and Special Recognitions:

Outstanding Undergraduate Faculty Award, UAH College of Business 2018-2019

Outstanding Graduate Faculty Award, UAH College of Business 2016-2017 (year?)

College of Business SGA Faculty Appreciation Award, awarded by UAH Student Government Association (University level award), 2014.

Outstanding Undergraduate Teaching Award, College of Business, University of Alabama in Huntsville, 2012- 2013 (also nominated in 2010 and 2011).

My dissertation research was supported by the 2007 Institute for Supply Management Doctoral Dissertation Grant in Supply Management, the Michigan State University Graduate School, and the Department of Marketing & Supply Chain Management at the Broad Graduate School of Business at Michigan State University.

Best Academic Paper Award, *Performance Measurement Association 2004 Conference*, Edinburgh, Scotland, co-author with Steven Melnyk, Roger Calantone, Joan Luft, George Zsidisin, and Douglas Stewart.

Responsible Conduct of Research training, UAHuntsville, 2012-2017.

Responsible Conduct of Research Certificate, 2005, Michigan State University Graduate School. This is NIH compliant research training in advocacy in research, ethical challenges, objectivity, fairness, human subjects research, and integrity in research.

Prior national and international automotive quality certifications as Lead Assessor in TS-16949, QS-9000, TE-9000 and ISO-9000; Measurement Systems Analysis (MSA), Statistical Process Control (SPC); Failure Modes and Effects Analysis (FMEA); Production Part Approval Process (PPAP); Advanced Product Quality Process and Control Plans (APQP), and Reliability and Maintainability (R&M).

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Burns, L. A., Zsidisin, G. A. & Ellram, L. M. Year. The Moderating Role of Purchasing Integration in Managing Cost. *In: Decision Sciences Institute 2004 Conference, 2004* Boston, MA. Decision Sciences Institute.

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