



# **Faculty/Staff Network**

## **Brief Biographical Sketches**

### **2017-18**



## **Table of Contents By Name**

Ackerman, Patricia E.	English & Communication	5
Bailey, Chad	Electronic & Computer Engineering Technology	7
Balthazor, Travis	Applied Aviation Research Center	9
Barnhart, R. Kurt	Dean's Office, Assoc. Dean of Research & Engagement	11
Bower, Timothy	Computer Systems Technology	13
Brockway, Kathy J.	Computer Systems Technology	14
Brockway, Troy	Professional Pilot Training	16
Bruner, Timothy	Applied Aviation Research Center	17
Burchfield, David	UAS, geography, geospatial data	29
Calhoun, Cheryl	Social Work	21
Carraway, Kurt J.	Applied Aviation Research Center	23
DeGreeff, Becky L.	Communications	25
Fitzsimmons, Verna	Dean and CEO, Kansas State Polytechnic	27
Gaeddert, Terri	Director of Academic Operations	29
Genereux, William E.	Computer and Digital Media Technology	31
Gross, William R.	Professional Pilot	33
Guzek, Fred	Business, Economics	35
Guzek, Susan A. (Sue)	Project Management, Leadership	37
Harding, Troy	Computer Systems Technology	39
Jackson, Mark J.	Mechanical Engineering Technology	41
Jones, Katherine	Library Science	43
Joseph, Siny	Economics, Agricultural Economics	45
Khan, Saeed	Electronic and Computer Engineering Technology	47
Knopp, Kaleen S.	English & Communication	49
Lawrence, Johnselvakumar	Bulk Solids Innovation Center	51

**Table of Contents By Name (continued)**

Maresch, Nathan	Applied Aviation Research Center	54
Nichols, Randy	Unmanned Aircraft Systems (UAS) - Cybersecurity	56
Oh, Jung R.	Chemistry	58
Papworth, Duke	Applied Aviation Research Center	60
Scott, Merta	Social Work	62
Shappee, Eric	Director of Flight Operations	63
Smith, Andrew	Aviation Maintenance	66
Von Bergen, Don	Graduate Director	68

**Table of Contents By Department/Program**

<u>Administration</u>		
Barnhart, R. Kurt	Assistant Dean and Director of Research, Kansas State Polytechnic	11
Fitzsimmons, Verna	Dean of Technology and Aviation, CEO of Kansas State University Polytechnic	27
Gaeddert, Terri	Director of Academic Operations	29
<u>Unmanned Aviation</u>		
Balthazor, Travis	UAS, UAV, Airworthiness	9
Bruner, Timothy	sUAS, Autopilot Integration	17
Burchfield, David	UAS, Geography, geospatial data	19
Carraway, Kurt J.	UAS, UAV, RPV, Certification	23
Maresch, Nathan	UAS, sense and avoid, WPT	54

**Table of Contents By Department/Program (continued)**

<u>Unmanned Aviation</u>		
Nichols, Randy	UAS Cybersecurity	56
Papworth, Duke	sUAS regulatory environment, flight test	60
<u>Aviation Maintenance</u>		
Locklear, Steven	Aviation Maintenance	53
Smith, Andrew	Aircraft, mechanic, inspector, technician	66
<u>Bulk Solids Innovation Center</u>		
Lawrence, Johnselvakumar	Bulk solids, bulk flow analysis	51
<u>Technology Management and Business</u>		
Brockway, Kathy J.	Financial statement analysis, keynote speaker	14
Guzek, Fred	Strategic planning, operations management	35
Guzek, Susan A. (Sue)	Project management, process mapping	37
Joseph, Siny	Food policy, econometrics, industrial organization	45
Stephens, Greg	Technology Management	64
<u>Communications/Social Sciences/Humanities</u>		
Ackerman, Patricia E.	Critical Thinking, Teaching Exchange	5
Calhoun, Cheryl	Social Work	21
DeGreeff, Becky L.	Interpersonal communication, qualitative research	25
Jones, Katherine	Library Science	43
Knopp, Kaleen S.	Writing pedagogy, writing accuracy, rhetoric	49
Scott, Merta	Social Work	62
Stephens, Greg	Civic and Community Development, Qualitative Research	64

**Table of Contents By Department/Program (continued)**

<u>Computer and Digital Media Technology</u>		
Genereux, William E.	Digital literacy, visual communication	31
<u>Computer Systems Technology</u>		
Bailey, Chad	Classroom technology learning	7
Bower, Timothy	Robotics, Image processing, Unix/Linux	13
Harding, Troy	Classroom technology learning, web assessment	39
<u>Engineering Technology</u>		
Kahn, Saeed	GPS, wireless power and antennae, electromagnetic scattering, microwave polymers	47
<u>Graduate Program</u>		
Von Bergen, Don	Graduate Program	68
<u>Math/Science</u>		
Oh, Jung R.	Cross-curricular innovation, diversity in STEM	58
<u>Mechanical Engineering Technology</u>		
Jackson, Mark J.	Tribology, nuclear manufacturing	41
<u>Professional Pilot</u>		
Brockway, Troy	Aviation safety, flight training, aerodynamics	16
Gross, William R.	Pilot examiner, 141 chief instructor, flight training	33
Shappee, Eric	Director of Flight Operations	63



## Patricia E. Ackerman

**Department:** School of Integrated Studies

**Program:** Communications, Social Science, Humanities

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### Education

Ph.D. 2007 Reading & Language Arts Curriculum & Instruction Kansas State University

M.A. 2001 Liberal Studies Fort Hays State University

– Concentration in Rhetoric & Composition

B.A. 1978 English (Minors in Journalism & French) Marymount College

### Academic/Professional Experience

- Professor of Language Arts, KSU Polytechnic, 2014-Present
- Faculty Development Coordinator, KSU Polytechnic, 2014-2016
- Graduate Program Director, Professional Master of Technology, 2010-2013
- Associate Professor of Language Arts, KSU Polytechnic, 2009-2014
- Assistant Professor of Language Arts, KSU Polytechnic, 2007-2009
- Writing Center Co-Director, KSU Polytechnic, 2006-2012
- English Instructor, KSU Polytechnic, 2000-2007
- Freelance Writer/Grant Writer – nonprofits, short fiction, human interest journalism, 1997-Present

### Keywords Related to Activities

Writing pedagogy, critical thinking, scholarship of teaching and learning, teaching communities, teaching exchange, Marymount College, Kincaid Readability Analysis, reflective think-aloud protocols, writing center discourse, tutor literacies.

### Short description of Educational Interests

- Defining, teaching, and assessing critical thinking in higher education
- Scholarship of teaching & learning in higher education
- Defining and communicating academic integrity in higher education

### Short description of Research Interests

- Pedagogy of writing, discourse over writing, and writing assessment
- Defining, teaching, and assessing critical thinking in higher education
- History of higher education in rural America, particularly related to women's education

### **Academic Awards**

- Coffman Chair for University Distinguished Teaching Scholars 2016
- Women Writing the West – *Willa Award for Scholarly Nonfiction (Marymount College: A History)* 2015
- KSU Polytechnic *Professional Presentation and Outstanding Publication Awards* 2015
- KSU *Women of Achievement Awards* 2012, 2014, 2016
- KSU *Presidential Award for Outstanding Undergraduate Teaching* 2010
- Rex McArthur Family Faculty Fellow Award 2008 & 2012
- BIG XII Faculty Fellowship Award 2008
- KSU at Salina *Professor of the Year Award* 2007
- Marchbanks Memorial Award for Teaching Excellence 2005

### **Three Recent Publications**

- Joseph, Siny, Jung Oh, Patricia E. Ackerman, *Quest: A Virtual Faculty Teaching Community*. Agricultural & Applied Economics Association and Western Agricultural Economics Association (AAEA), Boston, MA. July 2016.
- Siny Joseph, Jung Oh, Patricia E. Ackerman, *Transforming Teaching Culture through an Interdisciplinary Faculty Teaching Exchange*.
- Agricultural & Applied Economics Association and Western Agricultural Economics Association (AAEA) July 26-28, 2015. *San Francisco, CA*.
- Ackerman, Patricia E. *Marymount College: A History*. The History Press. Charlotte, South Carolina. November 18, 2014.



## Chad Bailey

**Department:** School of Integrated Studies

**Program:** Electronic and Computer Engineering

**Phone:** 785-826-2673

**Email:** [cnb4966@ksu.edu](mailto:cnb4966@ksu.edu)

### Education

Kansas State University, Salina, Kansas - Professional Master of Technology, Expected completion - December 2018

Kansas State University, Salina, Kansas - Associate Degree, Electronic and Computer Engineering Technology, December 2006

Kansas State University, Salina, Kansas - Bachelor's Degree, Mechanical Engineering Technology, May 2003

### Work Experience

- Coperion K-Tron – Product Development, Salina, Kansas Mechanical Design Engineer, November 2015- June 2017
- Philips Lighting - Fluorescent Product Development, Salina, Development Engineer, July 2003 – November 2015
- Kansas State University - Mechanical Lab, Salina, Lab Technician - Intern, August 2000 - May 2001

### Teaching Experience

- Grace Baptist Church, Salina, Kansas Middle School / High School Youth Leader, February 2003 – February 2016
- Boy Scouts of America, Salina, Kansas

### Certification

Philips Lighting Company, Lean Six Sigma Green Belt

Identified \$1M cost saving in process improvement Certification, January 2013



## **Software**

- Eagle PCB
- PCB123
- LabVIEW
- Visual Basic
- Arduino, Mission Planner
- Inventor
- AutoCAD
- Minitab,
- MS Office

## **Awards**

2014 – Philips “Kudos for Caring” Award - community involvement

2013 – I Team up to Excel Award - inter-department involvement

2008 – Philips Quality Improvement Competition - winning team for North America and Global Finals participant

2007 – Above and Beyond Award - dedication to project success



## Travis Balthazor

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**Program:** Applied Aviation Research Center

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### Education

P.M.S. In Progress Geography in Remote Sensing Kansas State University, KS

B.S. 2013 Aeronautical Technology Kansas State University, KS

A.S. 2013 Technology Kansas State University, KS

Minor 2013 Aviation Safety Kansas State University, KS

Certificate 2014 UAS Operator Kansas State University, KS

### Academic/Industrial Experience

- UAS Flight Operations Manager, Kansas State University, September 2016-present
- Certified Flight Instructor, Kansas State University, January 2012-present
- UAS Chief Pilot, Kansas State University, October 2014-2016

### Training

- Unmanned Aircraft Systems Pilot (Approx 300 sUAS hours)
- FAA Commercial/Instrument Pilot (330 hours)
- FAA Certified Flight Instructor/Instrument (470 hours)
- FAA Remote Pilot in Command Certificate

### Key Words Related to Activities

Unmanned aircraft systems, unmanned aerial systems, unmanned aircraft vehicles, remotely piloted vehicles, UAS, UAV, drones, RPV, airworthiness, airman, certification Flight Operations, Flight Instruction, Pilot

### **Short Description of Educational Interests**

- Preparing UAS students for success in the unmanned aircraft industry
- Flight Instruction
- Promoting the commercialization of UAS for industry
- Training Commercial UAS Operators

### **Short Description of Research Interests**

- Integrating UAS into National Airspace System
- Small UAS & Larger than small UAS Research
- UAS Airworthiness Certification
- UAS Airman Certification

### **Recent Publications**

Burton B., Otto N., Balthazor T., Ciampitti I., 2016 *Journal of the ASFMRA, Cost of Using Unmanned Aircraft on Crop Farms*

### **Recent Research/Outreach/Extension Projects**

UAS Resource Management Operations” (BLM Funded) Support to Department of Entomology, within KSU

Commercial research for 2 companies in the power utility sector Standards Validation

Compliance Issues Project

Research on Agronomy Projects, both commercial and within KSU

### **Hardware/Equipment Capabilities within Your Research Activities**

Wide variety of fixed wing UAS Wide variety of sensor equipment

Wide variety of multirotor UAS Photogrammetry

Variety of single rotor UAS Real Time Kinematic (RTK)

### **Software/Simulation Capabilities within Your Research Activities**

UAS Simulators



## R. Kurt Barnhart

**Department:** Dean's Office

**Program:** Associate Dean of Research & Engagement

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### Education

A.S. 1989 Aviation Maintenance Technology, Vincennes University, Cum Laude May 1989

B.S. 1991 Aviation Administration Purdue University, May 1991

MBA 1994 Aviation (Resident course) Embry-Riddle Aeronautical University, December 1994

Ph.D. 2002 Educational Administration Indiana State University, December 2002

### Appointments

- Since 2007, Full Professor, Department Head, Kansas State University, Salina KS
- 2005-2007, Associate Professor, Indiana State University, Terre Haute, IN
- 1998-2005, Assistant Professor, Indiana State University, Terre Haute, IN
- 1996-1998, Visiting Assistant Professor, Indiana State University, Terre Haute, IN

### Key Words Related to Activities

Aviation, aircraft, aircraft maintenance, pilot, human factors, unmanned aircraft systems, collegiate aviation leadership

### Five Related Publications

- Barnhart, R. Kurt; Marshall, Doug; Hottman, Steven; Shappee, Eric (2011). *"Introduction to Unmanned Aerial Systems"*. Taylor and Francis.
- Barnhart, R. Kurt. "What Do You Need to Know About UAS?" *General Aviation News*, January 2010.
- Barnhart, R. Kurt. "UAS and the GA Pilot", Editorial, *General Aviation News*, February 2010.
- Barnhart, R. Kurt. "Going Solo, Single Pilot Air Carrier Operations, Boosted by Technology, Could Have Wider Application in the Future". *Aerosafety World*, September 2009.
- Barnhart, R. Kurt. "Adaptation and Innovation in Flight Training – The Benefits of Cognitive Diversity". *Journal of Aviation/Aerospace Engineering Review*, 13. 2004

### **Five Other Significant Publications**

- Barnhart, R. Kurt. *Gleim's Online Inspection Authorization Renewal Course (IARC)*. Gleim Publications, February 25, 2004-May 31, 2005.
- Barnhart, R. Kurt. "What Does it Take to Grow the Next Generation?" *GANews and Flyer*, 2004.
- Barnhart, R. Kurt. "Cold Weather Problems". *Flying Magazine*, December 2005.
- Barnhart, R. Kurt. "Mind-set of Safety". *NAFI Mentor*, 2004.
- Barnhart, R. Kurt. "Adaption-Innovation Theory of Cognitive Style in Aviation". *International Journal of Applied Aviation Studies*, 3, 105-112. 2003.

### **Synergistic Activities**

- Selected as one of "50 Kansans to Know" by *Ingram's Magazine* – Kansas City's Business Magazine, January 2012
- Recipient of Purdue University's College of Technology Distinguished Alumni Award, 2012
- Sorenson Award for Scholarship Contributions to Aviation, University Aviation Association, 2009
- Principal Investigator – AFOSR (2009) Establishment of UAS Integration Facility- Salina, KS- \$2,400,000
- Principal Investigator – Air Force Office of Scientific Research, 2008- Federal Grant to begin Unmanned Aerial Systems Laboratory - \$400,000
- Principal Investigator – SEDIC Grant for Establishing UAS Program Office, Salina, KS, May 2008- \$100,000
- President, University Aviation Association, 2010/2011 – Three year commitment as incoming president, president, and past president
- Kansas UAS Consortium Chair – Panel made up of members from Kansas industry, academia, and the military to promote Unmanned Aerial Systems in Kansas and beyond
- Mission Statement Reformulation Committee Chair, 2010-2011, Kansas State University Salina, College of Technology and Aviation



## Timothy Bower

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**Program:** Computer Systems Technology

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### Education

Ph.D. studies 1998-2003 Computer Science Kansas State University, Manhattan, KS

M.S. 1991 Electrical Engineering Kansas University, Lawrence, KS

B.S. 1987 Electrical Engineering Kansas State University, Manhattan, KS

### Academic/Industrial Experience

- Associate Professor, Kansas State University, Polytechnic Campus, 2004 – present
- Systems Administration Manager, Kansas State University, Manhattan, KS, 1998 – 2003
- Senior Member of the Technical Staff, Sprint, Shawnee Mission, KS, 1989 – 1998

### Academic Interests

Robotics, Image Processing, MATLAB Programming, LabVIEW Programming, Unix / Linux, Python Programming, Systems Administration

### Select Publications

- Bower, T. (2016). Teaching Introductory Robotics Programming: Learning to Program with National Instruments' LabVIEW. *IEEE Robotics & Automation Magazine*, vol. 24, no. 2, pp. 67-73, June 2016.
- Bower, T. (2014). Dumping PowerPoint in Favor of Web Sites. *Proceeding of the 2014 Midwest Section Conference of the American Society for Engineering Education*, Fort Smith, Arkansas. October, 2014.
- Bower, T. (2010). Experiences With Virtualization Technology in Education. *The Journal of Computing Sciences in Colleges*, Parkville, MO, April 9-10, 2010.
- Bower, T. (2006). Using Linux Kernel Modules for Operating Systems Class Projects. *Proceeding of the 2006 ASEE Annual Conference(ASEE'06)*, Chicago, IL, June 2006.



## Kathy J. Brockway

**Department:** School of Integrated Studies

**Program:** Technology Management and Business

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**Phone:** 785-826-2695

### **Education:**

M.S. 1991 Accountancy, Kansas State University

B.S. 1990 Business Administration, Kansas State University

### **Professional Certifications:**

Certified Financial Manager, 2008, certificate #4684

Certified Management Accountant, 2006, certificate #27770

Certified Public Accountant, New Mexico, 1991, certificate #3899 (inactive)

### **Professional Experience:**

2001-current Professor, School of Integrated Studies, Kansas State University

1994-2001 Instructor, Department of Accounting, Kansas State University

1992-1994 Accountant, St. Mary Hospital, Manhattan, Kansas

1991-1992 Staff Accountant, Daymon and Associates, Santa Fe, New Mexico

### **Key Words Related to Activities**

Business acumen workshops, financial literacy, financial statement analysis, first year experience program, keynote speaker, leadership development.

### **Brief Description of Research, Scholarly and Creative Activities and Discovery Interests**

- Emphasis on corporate training and development;
- Develop and deliver impactful programs of interest to corporations and other organizations.

### **Sessions recently delivered:**

- *Financial Statement Analysis for the Non-Accountant*
- *Managerial Finance: Tools for Better Decision Making*
- *Leading with Influence and Persuasion*

- *Leading Change with Brain Science*
- *Observing and Coaching*
- *The Science and Art of Giving Feedback*
- *Self-confidence: The X Factor*
- *The It Factor: Thinking and Communication with Executive Presence*
- *Exploring Emotional Intelligence*
- *Maximizing Team Effectiveness: The Power of Personality*
- *Strategic Thinking Skills*
- *Strategic Execution*
- *Employee Motivation and Engagement*

**Two Recent Conference Presentations and Proceedings:**

- Russell, L., Bourdeaux, R., DeGreeff, B., Brockway, K., Whalen, J., Panel Presentation: *Pedagogies for Relational Well-being*. Presented at 2016 Central States Communication Association, 85th Annual Meeting.
- DeGreeff, B., Brockway, K., Lutgen-Sandvik, P., Bourdeaux, R., Panel Presentation: *Converging Positively in Communication Classrooms, Employment Communication, and Communication Curricula*. Presented at 2015 Central States Communication Association 84th Annual Meeting.





## Troy D. Brockway

**Department:** School of Integrated Studies

**Program:** Aviation

**Email:** tbrockway@ksu.edu

**Phone:** 785-493-5491

### **Education:**

Master of Science, Aviation Safety; Central Missouri State University 2001

Bachelor of Science, Mechanical Engineering; Kansas State University 1990

Flight Safety, Cessna CitationJet CE525; King Air C90A/B Pilot Initial and Recurrent

Flight Safety, Reduced Vertical Separation Minimums Training

Federal Aviation Administration, Recurrent Pilot Examiner Standardization Training

### **FAA Certification:**

ATP, AMEL, CE 525S, ASEL, ASES, RA390 SIC, CFIA, CFII, MEI, AGI, IGI

Assistant Chief Flight Instructor, Private, Instrument, Commercial, Multi-Engine, Flight Instructor

### **Honors:**

- 2003 Coach of the Year, National Intercollegiate Flying Association
- 2003 Faculty of the Week, Kansas State University
- 2002 Professor of the Year Nominee
- 2001 Marchbanks Teaching Award Nominee

### **Committees:**

- Reinstatement Committee
- All-University Campaign for K-State

### **Extra-Curricular Duties:**

- Option Coordinator 2017-Present
- Safety Coordinator 2016- Present
- Assistant Chief Flight Instructor 1998-Present
- Flight Team Advisor 1998 - 2007

### **Professional Experience:**

- Flight Instructor, Kansas State Polytechnic
- Adjunct Instructor, Mechanical Engineering Technology, 1997 - 1998
- Research Technologist, Industrial Engineering Department, 1992 – 1997
- Project Engineer, Merrick & Co. Los Alamos, NM 1990-1992



## Timothy Bruner

**Department:** School of Integrated Studies

**Program:** Applied Aviation Research Center

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**Phone:** 785-826-8562

### Education

B.S. 2015 Unmanned Aircraft Systems Kansas State University Polytechnic Campus

A.S. 2010 Pre-Engineering Butler County Community College

### Three Recent Research Projects

- ASSURE A10 Focus: UAS Flight Operations and Procedures 2016 – 2017
- ASSURE A1 Focus: sUAS Airworthiness and Flight Test 2015 – 2016
- sUAS Standards Validation Project Focus: sUAS Airworthiness Standards 2013 – 2015

### Short Description of Educational Interests

Small unmanned multirotor flight instruction, Small unmanned fixed-wing flight instruction, Autopilot behavior and automated flight operations, sUAS regulatory environment

### Short Description of Research Interests

- sUAS airworthiness
- sUAS flight test
- Development of operational procedures and constraints to suit unique requirements
- Small aircraft performance

### Hardware/Equipment Capabilities within Research Activities

- Various autopilot systems and associated ground stations
- Multiple multirotor and fixed-wing small unmanned aircraft systems

**Affiliated Industry Organizations**

- American Institute of Aeronautics and Astronautics (AIAA)
- Association for Unmanned Vehicle Systems International (AUVSI)

**Keywords Related to Activities**

sUAS, UAS, unmanned aircraft, small unmanned aircraft, UAS airworthiness, UAS flight operations, procedure development, sUAS testing, sUAS multirotor flight training, fixed-wing sUAS flight training, autopilot integration, sensor integration, Part 107



## David R. Burchfield

**Department:** School of Integrated Studies

**Program:** Unmanned Aircraft Systems

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### Education

Ph.D. Wildlife and Wildlands Conservation, Brigham Young University, Provo, Utah, in progress

M.A. Geography, Kansas State University, Manhattan, Kansas, 2014

Graduate Certificate GIScience, Kansas State University, Manhattan, KS, 2012

B.S. Geography, Brigham Young University, Provo, Utah, 2011

### Professional Certifications

Private Pilot – Single Engine Land, 2016

Remote Pilot Certificate – sUAS Rating, 2016

### Professional Experience

- Teaching Assistant Professor, UAS - Flight and Operations, August 2016 – Present  
Employer: Kansas State University Polytechnic Campus, 2310 Centennial Drive, Salina, KS 67401
- Geospatial Data Analyst, March 2014 – August 2016  
Employer: AgPixel LLC, 5530 West Parkway Suite 300, Johnston, IA 50131
- Geographic Information Systems Specialist, January 2013 – February 2014  
Employer: Kansas Forest Service, Kansas State University, 2610 Claflin Road, Manhattan, KS 66502

### **Selected Professional Presentations**

- Burchfield, D. and Petersen, S. “Rapid Assessment of a Subalpine Forest Site Using a Small Unmanned Aircraft System (sUAS).” Oral Presentation at BYU Plant and Wildlife Sciences Annual Conclave, Provo, UT, November 16, 2017.
- Burchfield, D. “Unmanned Aircraft Systems as a Mapping Tool for Community Planning.” Oral Presentation at Kansas Planning Conference, Salina, KS, October 20, 2017.
- Burchfield, D. “Unmanned Aircraft Systems as a Mapping Tool.” Oral Presentation at Kansas Association of Mappers Annual Conference, Lawrence, KS, October 18, 2017.
- Burchfield, D. “Unmanned Aircraft Systems Technology, Applications, and Impacts on County Government.” Oral Presentation at Kansas County Commissioners Association 41st Annual Conference, Junction City, KS, June 1, 2017.
- Burchfield, D. “Unmanned Aircraft Systems as a Geospatial Tool for the Natural Resources.” Keynote Presentation at the Kansas Natural Resources GIS Conference, Salina, KS, April 6, 2017.
- Price, K., Brien, L., Burchfield, D., Bryant, J., Lanning, M., Demuth, K., Melia, D. “Characterization of vegetation biophysical components using ultra-high spatial resolution multispectral imagery acquired by drones and small aircraft” Oral Presentation at the XXV International Congress of Entomology, Orlando, Florida, September 30, 2016.
- Burchfield, D. “Aplicaciones de las Imágenes Aéreas en la Agricultura de Precisión.” Oral Presentation at the 2da Experiencia Forrajera de Bolivia, Montero, Bolivia, February 27, 2015.



## Cheryl Calhoun, LMSW LMAC

**Department:** School of Integrated Studies

**Program:** Social Work

**Phone:** 785-826-2944

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### Education

2008-2010 Master of Social Work, Boston College, Chestnut Hill, MA

2002-2005 Bachelor of General Studies in Political Science and Sociology, University Of Kansas, Lawrence, Ks

### Licensure and Certificates

- 2016-Present Licensed Macro Addictions Counselor
- 2012-Present Certified Person Centered Case Manager
- 2011-2016 Licensed Addictions Counselor
- 2010-2011 Licensed Addiction and Prevention Services Counselor
- 2010-2010 Licensed Addiction and Prevention Services Counselor Assistant
- 2010-Present Licensed Master Social Worker

### Academic Appointments

- 2016-Present Social Work Instructor, Kansas State Polytechnic, Salina, KS
- 2016-2016 Adjunct Social Work Instructor, University of Kansas – Western Campus, Hays, KS

### Professional Employment

- 2005-2016 Director of Development/Substance Use Disorder Counselor, Ashby House Salina, KS
- 2009-2010 Monitoring and Evaluation Internship, Catholic Relief Services Phnom Penh, Cambodia
- 2008-2009 Research and Development Internship, Crittenton Women’s Union, Boston, MA
- 2008 Community Organizing Internship, Massachusetts Immigrant & Refugee Advocacy Coalition, Boston, Ma
- 2005-2007 Peace Corps Volunteer, Peace Corps, Kumanovo, Macedonia
- 2004 Grant Writer Internship, Douglas County Aids Project, Lawrence, KS

### **Department and University Service**

- Teach an average of 3-4 courses per semester
- Serve as a faculty mentor to an average 13 social work and incoming social work students
- Develop social work fundraising campaign materials for University's Dean to use when approaching potential donors
- Plan and participate in Social Work Legislative Day immersion experience for 3<sup>rd</sup> year Social Policy students
- Support 4<sup>th</sup> year Practice III students in developing and implementing a fundraiser project to benefit various local nonprofits as part of the course final
- Served on You Belong New Student Orientation committee
- Attend regular faculty planning and discussion meetings, including monthly Faculty meeting and Social Work Faculty meeting
- Created new Macro Social Work Theory and Practice course combining HBSE II and macro concepts
- Developed new social work recruiting tools targeting nontraditional students.
- Served on multiple Faculty Search Advisory Committees

### **Awards and Grants**

- 2017 K-State Faculty Member of the Year Award Recipient
- 2015-2017 AmeriCorps State Program Grant
- 2014-Present KS Attorney General's Office Child Exchange and Visitation Center Grant
- 2016 Kansas Volunteer Commission Grant
- 2014-2016 DuPont Grant
- 2014 Ribbons of Hope Grant
- 2013-Present Salina Charities League Grant
- 2010-Present USPO Substance Use Disorder Counseling and Drug Testing Contract
- 2012-2016 KS Attorney General's Office Crime Victims Assistance Fund Grant
- 2013-Present County Administrator Special Alcohol Funds Tax Grant
- 2011-Present Greater Salina Community Foundation Grant
- 2011-Present Greater Salina YWCA Legacy Grant
- 2010-Present Salina Area United Way Grant
- 2010-Present Catholic Charities Assistance Fund Grant

### **Service Activities**

- 2017 Volunteer, K-State Office Support Services
- 2016-Present Council On Social Work Committee Member
- 2016-Present Smoky Hill Social Work Steering Committee Member
- 2016-Present Outreach Volunteer, Ashby House, Salina, KS
- 2016-Present Fundraising Volunteer, Salina YMCA, Salina, KS



## **Kurt J. Carraway, Colonel (Retired), USAF**

**Department:** School of Integrated Studies

**Program:** UAS Executive Director, Applied Aviation Research

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### **Education**

University of Missouri--Rolla, MO Mechanical Engineering B.S., 1984

Webster University St. Louis, MO Management M.A., 1995

Air Force Institute of Technology Dayton, OH Systems Engineering M.S., 2004

### **Academic/Professional Appointments**

- 2016-Present UAS Executive Director, KSU Applied Aviation Research Center
- 2014-2016 Flight Operations Manager, KSU Applied Aviation Research Center
- 2013-2014 Division Chief, Current Operations, US Pacific Command, Camp H.M. Smith, Hawaii
- 2012-2013 Director, Joint Operations Center, US Pacific Command, Camp H.M. Smith, Hawaii
- 2010-2012 Chief, Joint Reconnaissance Center, US Pacific Command, Camp H.M. Smith, Hawaii
- 2008-2010 Commander, 12th Reconnaissance Squadron, Beale Air Force Base, California
- 2004-2008 Director of Operations, 1st Reconnaissance Squadron, Beale Air Force Base CA
- 2003-2004 Graduate Student, Air Force Institute of Technology, Wright-Patterson AFB, Ohio
- 2001-2003 Chief, Reconnaissance, Unmanned Aircraft Vehicles, and Tanker Assignments, Headquarters Air Combat Command, Langley Air Force Base, Virginia
- 1998-2001 Chief Training Flight Navigator, Current Operations Flight Commander, Director of Staff of Geographically Separated Units, Senior Wing Executive Officer, 100th Air Refueling Wing, Royal Air Force Mildenhall, United Kingdom
- 1994-1998 KC-135 Combat Crew Training School Instructor/Evaluator, 55th Air Refueling Squadron, Altus Air Force Base, Oklahoma
- 1993-1994 KC-135 Instructor Navigator, 306th and 11th Air Refueling Squadron, Altus Air Force Base, Oklahoma
- 1991-1993 KC-135 Navigator, 305th Air Refueling Squadron, Grissom Air Force Base, Indiana
- 1990-1991 Student Navigator, Mather Air Force Base, California

### **Synergistic Activities**

- Directed commercial unmanned aircraft system (UAS) training program for pilots to prepare aspiring commercial UAS pilots to successfully pass the Federal Aviation



Administration's (FAA) newest set of rules. The current FAA exam pass rate is 98%, significantly higher than the national average.

- Developed strategic collaborations to introduce UAS to various sectors across the university. Provide flight support, consulting and flight training of research agronomists. Worked with KSU History program, Civil Engineering, Journalism and Computer Science Departments. Continued national speaking engagements to promote awareness of ongoing FAA advances supporting continued expansion of the commercialization of UAS.
- Key contributor to new curriculum for Aviation Technology program (UAS emphasis); used USAF aviation experience to add flight operations to make degree relevant to industry demands. Taught three semesters of AVT 270: "Introduction to Unmanned Aircraft Systems" Increased student communication skills with addition of a research paper and presentation. Included personal experience as Global Hawk pilot for USAF to stimulate excitement among students.
- As Division Chief of Current Operations in US Pacific Command, directed 330,000 US military and civilians while conducting operations and exercises in ground, maritime, special operations, aviation, reconnaissance, homeland defense, and civil-military operations (20% of US military strength in an area of 50% of earth's surface). As Chief of the Joint Operations Center in US Pacific Command, oversaw all theater ground, naval, marine, air, reconnaissance and special operations forces in a 24-hour Joint Operations Center. Ensured effective and efficient deployment and execution of tasks with special emphasis on Offensive Combat Operations to promote national security.
- Supervised a team of 60+ experts from all US Services to manage emergency actions, crisis response and sensitive events of the highest level of national attention. Articulated US Pacific Command Commander's guidance to Components and Sub-Unified Commanders to promote the defense and security of this vast region.
- Commanded US Air Force's only operational RQ-4 Global Hawk combat unit. Directed bed down and combat employment of multiple Combatant Command Order of Battle. Supervised, led, and trained 151-member Squadron. Managed \$4.5B in infrastructure requirements for personnel, training and future operations. Provided theater Commanders with near-real time High-Altitude ISR and targeting data to meet Secretary of Defense, Joint Chief of Staff, & Unified Command needs. Managed \$2.2M annual budget while maintaining Combat Mission Readiness as RQ-4 Global Hawk instructor and evaluator pilot certified in 5 unified Command theaters.



## Becky L. DeGreeff

**Department:** School of Integrated Studies

**Program:** Communications, Social Science, Humanities

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### Education

Ph.D. 2010 Communication North Dakota State University

M.S 2006 Communication Studies South Dakota State University

B.S. 1993 Public Relations Southwest Minnesota State University

### Professional Experience:

2012 – Present Assistant Professor, Kansas State University Polytechnic, Salina, KS

2010 – 2012 Assistant Professor, Upper Iowa University, Fayette, IA

### Key Words Related to Activities

Communication, Public Speaking, Interpersonal Communication, Organizational Communication, Intercultural Communication, Business and Professional Communication, Spiritual Communication, Autoethnography, Interpretative Phenomenological Analysis, Qualitative Research

### Short Description of Educational Interests

Develop and teach human communication courses, human beings and their relationships

### Three Recent Publications:

- DeGreeff, B. L., & Burnette, A. (2017). Are You My Grandmother?: Constructing and Maintaining Step-grandparent Identity and Roles. *Communication Quarterly*, 1-21
- DeGreeff, B. L. (2016). The Process of Forgiveness in Stepfamily Relationships: An Exploratory Examination. *Journal of the Communication, Speech, and Theatre Association of North Dakota*, 28, 1-21.
- DeGreeff, B. L., & Platt, C. A. (2016). Green-eyed (step)monsters: Parental figures' perceptions of jealousy in the stepfamily. *Journal of Divorce & Remarriage*, 57, 112-132.

**Recent Research/Outreach/Extension Projects**

- Nonresidential Parent/Adolescent Child Use of Communication Technology For Relationship Maintenance
- Forgiveness in Post-Divorce Relationships
- Illness Narratives Related to Cancer Diagnosis and Identity Negotiation
- Commuter Marriages and the Effects on the Family
- Spiritual Identity
- Community Health and Wellness through Mind, Body, and Spirit
- Saline County Cardinal 4-H Parent Volunteer



## Verna M. Fitzsimmons

**Department:** School of Integrated Studies

**Program:** Dean, College of Technology and Aviation  
CEO, Kansas State University Polytechnic

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### Education

University of Cincinnati, BS Industrial Engineering

University of Cincinnati, MS Industrial Engineering

University of Cincinnati, PhD Industrial Engineering

### Professional Experience

- Kansas State Polytechnic Dean of College of Technology and Aviation /CEO - 2012-present
- Kent State University Interim Dean -2008-2010
- Kent State University- Associate professor in the College of Applied Engineering, Sustainability and Technology
- Milwaukee School of Engineering, Wright State University Lake Campus, Case Western Reserve University, Cleveland State University, General Electric Health Care, Kinetic Insights LLC

### Campus Impacts

Kansas State Polytechnic Facilities Update

- Improve campus appearance to match academic excellence
  - Renovate academic buildings and dorms
  - Improve appearance of landscaping
- Move campus to a legacy of sustainable energy use
  - Replace campus HVAC with high-efficiency systems
  - Add wind and solar power generators
  - Update landscape plan for low-water and energy use

Global Aeronautic Initiative Partnership – City of Salina, Saline County, Kansas State University, State of Kansas working together to increase the national/international character of Kansas State Polytechnic

Kansas State University Bulk Solids Innovation Center established

- \$3.5 million, 13,000-square-foot research facility
- dedicated to understanding the science involved in moving bulk solids
- one of only three such facilities in the world
- a collaboration among Kansas State University, the Salina Area Chamber of Commerce, the city of Salina and a number of companies

Kansas State Polytechnic \$10 million student scholarship donation — the largest private donation the campus has ever received

Kansas State Polytechnic Academic Improvement

- Kansas State Polytechnic attracts and retains talented faculty
- Curriculum belongs to the faculty
- Administration and faculty have a vision of excellence

Kansas State Polytechnic/ ExpressJet Partnership - qualified aviation students receive a conditional offer of employment as airline first officer as early as the beginning of their junior year

Kansas State Polytechnic/Cessna Aircraft Company partnership

- Provides educational opportunities for students pursuing careers in aviation
- Allows students to use flight training Cessna Pilot Center flight schools as credit toward completing a bachelor's degree in technology management

K-State 2025 Leadership

- Developed a campus strategic plan and master plan to guide the academic direction and the physical development of campus
- Institutional structure task force reviewed the campus organizational structure
- Provide appropriate support and oversight to help students, faculty and staff to reach the stated goals

Kansas State Polytechnic Community Acceptance and Integration

- Become an asset to the community and world outside of campus
- Provide support to local community
  - Salina Area Chamber of Commerce Board member
  - Ashby House Board member
- Build relationships with local community leaders, university leaders, state and federal legislators
- Serve as invited speaker for leadership conferences, especially women's leadership

Kent State University - select and install the \$1.5 million Air Traffic Control Simulation Lab

## **Keywords**

Campus Administration – sustainability, partnerships, community, experience matters, K-State a Top 50 public research university by 2025, student-centered,

Research specialization - lean manufacturing, process improvement, coaching organizational change management, industrial engineering, manufacturing, supply management, quality management, process control, project management, quality systems, total resource management, education and program development



## Terri Gaeddert

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### Education

Chadron State College, Chadron, NE (B.S.) Mathematics and Computer Science, 1987  
Friends University, Wichita, KS (M.A.) Master of Arts in Teaching, 2001  
Wichita State University, Wichita, KS, (Ed.D.) Educational Leadership, 2014

### Appointments

- Director of Academic Operations, Kansas State University Polytechnic 2017-present
- Director of Teacher Education, Sterling College 2012-2016
- Associate Dean, Sterling College 2014-2016
- Professor of Education, Sterling College 2015-2016
- Associate Professor of Education, Sterling College 2009-2015
- Assistant Professor of Education, Sterling College 2002-2009
- Technology Specialist, Buhler High School 2000-2002
- Mathematics Teacher, Buhler High School 1997-2002
- Mathematics Teacher, Chapman High School 1987-1993

### Publications

- Patterson, J., Abaya, J., Argabright, M., Gaeddert, T., Powelson, R., Higgins, C., Carter, T., Clark, R., Farrell, S., Williams, A. (2014, April). The Influence of Policy Churn on a School Improvement Program in an Urban District. Paper Presented at Annual Meeting of the American Educational Research Association, Philadelphia, PA.
- Gaeddert, T. (2014). A Case Study of the Integration of Faith and Learning at a Christian College (doctoral dissertation). Shocker Open Access Repository at Wichita State University. Retrieved from <http://soar.wichita.edu/handle/10057/11365> on March 30, 2016.

- Gaeddert, T. (2001). Using Accelerated Math to Enhance Student Achievement in High School Mathematics Courses (master's thesis). Retrieved from ERIC database. (ED463177)

### **Synergistic Activities**

- Experience developing mathematical curriculum
  - Developed two on-line courses for the Kansas State Department of Education Middle Level Math Program
  - Developed supplemental mathematics teaching materials for the state of Kansas
  - Served on the writing team for the Applied Math II curriculum developed by Center of Occupational Research and Development
  - Served on the original design team for developing Kansas Math Standards
- PI for Title II Grant, "Enriching and Integrating 21st Century Science and Technology Knowledge and Skills Into Today's Classroom Through Effective Partnerships", total award \$166,468
- Wrote state problem solving tests for Kansas State Math Competitions grades 4-8
- Experience developing pedagogical curriculum
  - Developed four on-line courses for Sterling College's Teacher Education Program
  - Directed entire teacher training program for Sterling College
  - Developed assessment systems for content programs and trained content faculty in student learning outcomes and assessment related issues

### **Service/Leaderships in STEM related activities**

- Developed scholarships for minority students to encourage math/science teacher training
- Worked with K-12 public school teachers to introduce a variety of technology-enhanced lessons and lab approaches to math
- Lead workshops for teachers and high school students (CBR/CBL Labs / Explorations in Algebra)
- Developed and taught Mathematics in Industry (2 wk. class - ABB Raymond Employees, Enterprise, KS)



## William E. Genereux

**Department:** School of Integrated Studies

**Program:** Computer and Digital Media Technology

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### Education

Ph.D.	2015	Curriculum & Instruction, Kansas State University, Manhattan, KS
MLS	2006	Internetworking & Telecommunication, Fort Hays State University, Hays, KS
BS	1999	Computer Science, Kansas Wesleyan University, Salina, KS
AA	1997	Computer Science, Cloud County Community College, Concordia, KS

### Academic/Industrial Experience

- 2017 – Present, Professor, Kansas State University Polytechnic, Salina, KS
- 2010 – 2017, Associate Professor, Kansas State University Polytechnic, Salina, KS
- 2004 – 2010, Assistant Professor, Kansas State University Polytechnic, Salina, KS
- 2001 – 2004, Instructor, Cloud County Community College, Concordia, KS
- 1998 – 2001, IT Director, Cloud County Community College, Concordia, KS
- 1992 – 1995, Graphic Designer, Golden Sea Graphics, Greenleaf, KS
- 1985 – 1991, Firecontrolman, US Navy, USS Missouri, Long Beach, CA

### Key Words Related to Activities

Digital media, social media, instructional technology, video projects, digital video, digital literacy, media literacy, pumpkin carving, design education, visual communication, motion graphics, Internet culture, Adobe Creative Suite

### Short Description of Educational Interests

- Developing and implementing courses and curricula that combine the arts and STEM
- Transformative learning, active learning, problem-based learning



### **Short Description of Research Interests**

- Exploring the intersection of the arts and technology
- Video as an expanded form of literacy
- Impact of technology on society

### **Three Recent Publications**

- Genreux, W. (2017). Exploring Video Projects and Media Literacy in a Computer Networking Course. *American Society for Engineering Education Conference*. Columbus, OH.
- Genreux, W. & Lewis, K. (2014). Pumpkin Carving as an Exercise in Design Thinking. *IEEE Frontiers in Education Conference*. Madrid, Spain.
- Genreux, W. (2013). Suspended for Blogging: Here We Go Again! In E. Collins (Ed.), *Too Cool for School: A Memoir* (pp. 337–341). Philadelphia, PA: HBH Press.

### **Recent Research/Outreach/Extension Projects**

Impact of Integrating Media Literacy Instruction and Video Projects Into a College Level STEM Course. Kansas State University, Manhattan, KS.

### **Technologies Used**

- Desktop: MS Windows, Mac OSX, Linux
- Networking Environments: Cisco IOS, Linux, Novell Netware
- Programming Languages: R, AS3, C#, Java, PHP
- Web: HTML5, CSS3, PHP, Javascript, Apache, Wordpress
- Databases: MySQL, MS SQL Server, MS Access
- Graphics/Media: Photoshop, Illustrator, Flash, Premiere, After Effects, Audition, Acrobat, Audacity, Camtesia



## William R. Gross

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**Program:** Professional Pilot

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### Education

B.S. Animal Science and Agriculture Education, Kansas State University, 1970.

M.S., Agriculture Education, Kansas State University, 1973.

Type rating CE 525S. 1999

SIC RA 390

### Professional Experience

- 1987 to Present: *Kansas State University – Salina, College of Technology and Aviation, Salina, Kansas.*
  - Professor Flight Section Head, Chief Flight Instructor, Chief Pilot Transportation Professional Flight Department
  - Serving as Section Head, in charge of all flight training and ground school classes
  - Developed course outlines and syllabus, and obtained FAA part 141 Approval for all flight courses
  - Chief Flight Instructor FAA 141 Approved school airplanes and helicopter
  - Flight department has grown from 3 students to 313 students
  - Assisted in developing an International training program with Air Service Training from Scotland
  - Obtained Civil Aviation Authority (CAA) United Kingdom, Commercial Pilot rating including; multi-engine, single-engine, instrument rating and qualified flight instructor licenses, after spending 7 weeks in Perth, Scotland. Training included, passing 2 flight checks with CAA examiners, and passing 11 written exams.
  - Currently a Designated Pilot Examiner (conduct pilot rating flight tests)

- 1970 to Present: Professional Pilot (part time)
  - ATP single and multi-engine rated, CE 525S type rating, SIC RA390
  - ATP helicopter, Flight Instructor instrument airplanes & helicopter
  - Flight Instructor, airplanes single and multiengine and helicopter 29,000 + flight hours
  - Trained more than 1200 students
  - 29,200 hours total flight time including turbo-prop and jet
- *Designated Pilot Examiner* for Private, Instrument, Commercial, Multi-engine
  - Conduct more than 200 flight exams per year

### **Professional Associations**

- Aircraft Owners and Pilots Association
- Kansas Pilots Association
- National Flight Instructors Association
- EAA

### **Accomplishments**

- 2017 March Banks Memorial Teaching Excellence Award Kansas State University
- Master Flight Instructor designated
- 2007 FAA Flight Instructor of the Year, Wichita Flight Standards District Office.
- 1997 Earned Promotion to Full Professor at Kansas State University.
- 1996 Earned Tenure at Kansas State University.
- 1990 CAA Commercial pilot licensing.
- 1987 Don Teare Rookie of the year, Farm Bureau Insurance.
- 1985 Golden Circle award, Farmland Industries.
- 1979 FAA Designated Pilot Examiner.
- 1978 Total Performance recruiter award, Farmland Industries.
- 1977 President's Club, Farmland Industries.
- 1976 Total Performance Specialty award, Farmland Industries



## Fred Guzek

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**Phone:** 785 826-2648

**Website:** <http://polytechnic.k-state.edu/facultystaff/fguzek.html>

### Education

Ph.D. Business Administration (Marketing), University of Kansas, 2003

MPPM Master's in Public and Private Management, Yale University, 1995

B.S. Earth Science, Lake Superior State University, 1977

### Academic Experience

- Professor: Sales and Marketing, Management, Operations Management, Global Logistics, Project Management, Rural Economic Development, Culture in Tourism, Study Abroad. Kansas State Polytechnic, 2003 - Present
- Visiting Faculty: Personal Selling, Marketing Strategy, Management. Groupe Esc, Graduate School of Management, Clermont-Ferrand, France, 2001 - 2013

### Key Words Related to Activities

Professional Selling, Management, Strategic Planning, Operations Management, Project Management, Globalization, International Management, Logistics, Study Abroad, Materials Handling

### Educational Interests

Strategic Planning, Course and Curriculum development, Hybrid delivery, High-Impact Practices, Active Learning, Study Abroad

### **Industry Experience**

- Research Associate, Kansas Electric Utilities Research Program. 1994 to 1999
- Branch Manager/Sales Trainer/Sales Representative, Berry Material Handling. 1983 to 1993
- Senior Major Account Representative, Xerox Corporation Office Products Division. 1980-1982
- Advertising Sales Representative, WSOO-AM/WSUE-FM Radio. 1977 to 1980

### **Leadership**

- Faculty Senate President, Kansas State University. 2015-2016 academic year
- Past Board Chairman, Dover Community Foundation
- Board of Directors, Shawnee County Fire District #4 (20+ years)
- Leadership Seminar Committee, Kansas State University (10+ years)

### **Selected Publications and Proceedings**

- Guzek, F., K. J. Brockway, T. D. Brockway, S. A. Guzek. 2013. Broadening STEM Students' Perspectives, and Recruiting with Blended Learning and Study Abroad. *ASEE Midwest*.
- Guzek, F. 2009. Teaching SPIN® Through Practical Application: The Impact on Students' Lives. *Global Sales Science Institute*.
- Guzek, F. 2003. Understanding the Role and Value of Marketing Communications by a Regulated, Monopoly Firm. *University of Kansas Doctoral Dissertation*.



## Susan A. Guzek

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**Program:** Technology Management and Business

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### Education:

- MSc 2012 ESC Clermont Graduate School of Management (AACSB accredited)  
International Project Management. Graduated with honors.
- 2007 Cornell University, Certificate in Proactive Leadership
- 1982 American Institute of Banking, Basic Banking Certificate, 30 hours
- B.A. 1972 Kansas State University, Modern Language, German & French

### Professional experience:

- 2012 – present, Instructor, Kansas State University Polytechnic Campus
- 2001- 2013, Guest Lecturer, Groupe Esc, Graduate School of Management, Clermont-Ferrand, France
- 2007-2012, International Learning Consultant
- 1994-2010, Instructional Design and Learning Consultant, Bank of America

### Significant Works of Scholarly Activity

- 2017 ASEE Midwest Region Conference Proceedings, forthcoming. Co-authored peer-reviewed paper: *“Moving from STEM to STEAM: Broadening an Interdisciplinary Study Abroad Program.”*
- 2017 ASEE Annual Conference and Exposition Proceedings. Co-authored peer-reviewed paper: *“Reinventing a Computer Technology Curriculum to Meet the Needs of Students and Future Employers.”*
- 2013 ASEE Midwest Region Conference Proceedings: Second Place Outstanding Paper Co-authored and co-presented peer reviewed paper *“Broadening STEM Students’ Perspectives and Recruiting with Blended Learning and Study Abroad.”*

**Educational and Business Interests:**

Leadership, Management, Strategic Planning, Organizational Change, Project Management, International Management, Global Logistics, Cultural Diversity, Study Abroad, Process Mapping Flipped, Student Centered, High Impact, and Active Learning, Team / Project based learning.

**Prior Accomplishments:**

2016 Kansas State University Polytechnic Campus.

Designed and developed 8 week online master's level course in Transformational Leadership.

2001-2013 Groupe Esc, Graduate School of Management. Clermont-Ferrand, France.

Designed, developed, and delivered annual 18-hour interactive seminar for graduate level business students from multiple countries focused on leading change.

1999-2010 Bank of America Vice President, Change Consultant Training and Communications.

- Managed major projects related to organizational change impacting multiple business units.
- Developed merger and acquisition training on organizational structure, culture, and leadership.
- Coordinated design and development of product and systems training for associates serving largest global clients.
- Managed team that designed and produced innovative training program, blending multiple delivery methods for 12,000 customer contact associates.
- Managed training team that designed and developed procedure and system training impacting 2500 customer contact associates.



## Troy Harding

**Department:** School of Integrated Studies

**Program:** Computer Systems Technology

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**Email:** tdh@ksu.edu

### Education

Master degree in Chemistry, January 1989, University of Virginia, Charlottesville, VA

Bachelor degree in Computer Science and Chemistry, May 1986, Bethany College, Lindsborg, KS

### Professional Experience

- Professor (2012-Present), Associate Professor (2005-2012), Assistant Professor (1999-2005), Kansas State University
- Director of Information Systems, Kansas Wesleyan University, 1996-1999
- Programmer/Analyst and Network Coordinator, Associated Colleges of Central Kansas, 1990-1996
- Technical Director, Aquarian Systems, Orange, VA, 1989-1990

### Publications and Presentations

- Troy Harding, Les Kinsler, Pedro Leite, Thomas Mertz "Business and Education Cooperation through Classroom Projects" *Proceedings of the 2004 American Society of Engineering Education Annual Conference and Exposition*, June 2004
- Troy Harding, "Experiences in Developing a Web-based Assessment System" *Proceedings of the Midwest Section of the American Society for Engineering Education Annual Meeting*, September 2004 (Received Honorable Mention and cash award)
- Troy Harding, "Developing a Web-based Assessment System: A Progress Report", *Proceedings of the 2005 K-State at Salina Professional Day*, January 2005
- Raju Dandu, Troy Harding "Kansas State University's Assessment Process", Poster session, *ABET Technical Education Initiative Capstone Conference*, Washington, D.C., February 2006.



- Troy Harding, Paul McDowell (from Notre Dame) “Making a Class a Team”, Presentation, *18th Annual Wakonse Conference for College Teachers*, May 2007
- Troy Harding, “Benefits and Struggles of Using Large Team Projects in Capstone Courses”, *Proceedings of the 2007 American Society of Engineering Education Annual Conference and Exposition*, Honolulu, HI, June 2007.
- Troy Harding, “Utilizing Technology in the Classroom”, Presentation, *19th Annual Wakonse Conference for College Teachers*, May 2007
- Troy Harding, “Are Two Heads Better Than One When Learning Web Programming?”, *2009 K-State at Salina Professional Day*, January 2009
- Bill Genereux, Kathy Brockway, Troy Harding, “Rate My Professor – Wakonse Style”, Presentation, *Seventh-Annual K-State Teaching Retreat sponsored by Faculty Exchange for Teaching Excellence*, January 2010
- Troy Harding, “Utilizing Pair Programming Techniques in a Web Development Course”, *Proceedings of the Midwest Section of the American Society for Engineering Education Annual Meeting*, September 2010
- Troy Harding, Ray Yunk, Barbara Anderson, “Panel Discussion – Assessment as Instruction”, *K-State Assessment Showcase*, November 2010
- Troy Harding, “Experiences of Using a Collaborative Programming Editor in a First-Year Programming Course”, *Proceedings of the 2014 K-State at Salina Professional Day*, January 2014
- Troy Harding, “Experiences of Using a Collaborative Programming Editor in a First-Year Programming Course”, *Proceedings of the 2014 American Society of Engineering Education Annual Conference and Exposition*, Indianapolis, IN, June 2014.
- Troy Harding, Thomas E. Mertz, William E. Genereux, Sue A. Guzek, and Timothy Bower. "Reinventing a Computer Technology Curriculum to Meet the Needs of Students and Future Employers". *2017 ASEE Annual Conference & Exposition*, Columbus, Ohio, June, 2017.



## Mark J. Jackson

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**Program:** Mechanical Engineering Technology

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### Education

DSc 2017 Mechanical Engineering Liverpool John Moores University

Certificate 2015 Naval Architecture Lloyd's Maritime Academy, London, UK

MA Status 1998 Physics University of Cambridge, UK

PhD 1995 Mechanical Engineering Liverpool Polytechnic, UK

MEng 1991 Mechanical Engineering Liverpool Polytechnic, UK

### Academic Experience

- Assistant Lecturer, Liverpool Polytechnic, 1994-1995 (part-time).
- Research Fellow, Cavendish Laboratory, University of Cambridge, 1997-1998 (full-time).
- Lecturer, University of Liverpool, 1998 – 2002 (full-time).
- Associate Professor, Tennessee Technological University, 2002-2004 (full-time).
- Associate Professor and Associate Department Head for Research, Purdue University, 2004-2011 (full-time).
- Professor and Department Chair, Benjamin Franklin Institute of Technology, 2013 (full-time).
- Professor, McCune and Middlekauff Endowed Fellow and University Faculty Fellow, Kansas State University, 2013-Present (full-time).

### Non-academic Experience

- Imperial Chemical Industries (ICI), Apprentice Mechanical Engineer, 1983-1988 (full-time).
- Unilever Industries and Rolls-Royce, Mechanical Engineer, 1987, 1991-1992 (part-time).
- Unicorn Abrasives (Saint-Gobain Corporation), Materials Technologist and Group Technical Manager (Applications Engineering), 1992-1997 (part and full-time).

- Saint-Gobain Corporation (Abrasives), Research Leader and Research Associate, 2011-2013 (full-time).

**Professional Registrations:** Chartered Mechanical Engineer, Chartered Environmentalist, Chartered Scientist.

**Key Words Related to Research Interests**

Condensed Matter Physics, Tribology, Physics and Chemistry of Machining, Nuclear Manufacturing, Naval Architecture, Ship and Submarine Design

**Three Recent Publications**

- P. SCHMIDT, R. G. HANDY, T. ANDERSON, T. REES, J. S. MORRELL, W. WILLIAMS and M. J. JACKSON, *Residual Surface Stress: Comparing Traditional and Modulated Tool Path Machining Processes*, *Materials Science and Technology* (2016), **32** (14), 1471 – 1483.
- M. ZIBEROV, M. B. da SILVA, M. J. JACKSON and W. P. HUNG, *Effect of Cutting Fluid in Micromilling of Ti-6Al-4V Titanium Alloy*, *Procedia Manufacturing*, (2016), **5**, 332 – 347.
- M. J. JACKSON, M. D. WHITFIELD, and J. BURGESS, *Vertical Spindle Surface Grinding of AISI 1020 and A36 Steels Using Duplex Grade Vitrified Abrasive Segments*, *International Journal of Advanced Manufacturing Technology* (2016), **87**, 3459 – 3471.

**Recent Research/Outreach/Extension Projects**

- Machining and Acoustic Emission of Uranium Surrogates (Y12 National Security Complex, Oak Ridge, TN and the US Department of Energy)
- Re-manufacturing of Legacy Parts (US Army Research Office, North Carolina, USA)
- Technical Assistance Program (Industrial Productivity Improvements) – US Department of Labor and State of Indiana
- EcoCar2 – Design and Manufacturing of Electric Vehicles (US Department of Energy, General Motors and Argonne National Laboratory)



## Katherine Lyn Jones

**Department:** School of Undergraduate Studies  
**Program:** Undergraduate Services Librarian  
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### Education

August 2014, Emporia State University, SLIM, Masters of Library Science  
December 2012 Fort Hays State University, Bachelors of Arts Major: English (Writing)  
May 2010 Colby Community College, Associate of Arts Major: Music (Vocal)  
2012 Certification: Certified in grant writing from Fort Hays State University

### Recent Work Experience

- Undergraduate Services Librarian Kansas State University Polytechnic Campus October, 2015-Present
  - Designed and implemented information literacy instruction for undergraduate students
  - Supervised and coordinated the campus peer-tutoring program
  - Chaired and participated in local and global campus committees: Retention and Diversity, Leadership, Honor Council, KSBN (Kansas State Book Network), OURCI (Office of Undergraduate Research & Creative Inquiry) Allocations
- Reference and Instruction Librarian Emporia State University, Emporia, KS Sept. 2014-June, 2015
  - Designed and implemented instruction for graduate-level library students on database use and instructional design
  - Provided one-on-one and small group assistance with research from the reference desk

## Research:

- Jones, K. (2017). Information literacy for the end of the world. *The Teaching Professor Conference*. St. Louis, MO June 3, 2017
- Jones, K. (2017). Transforming information literacy instruction via simulated apocalypse. *Transformative Learning Conference*. Oklahoma City, OK March 3, 2017
- Jones, K. & Otto, K. (2016). Expanding the first year experience. *Kansas Library Association Conference*. Wichita, KS Oct. 20, 2016
- Jones, K. (2016). A living bridge between faculty and students. *Meaningful Living and Learning in a Digital World Conference*. Savannah, GA August 1, 2016
- Jones, K. & Zampieri, M. (2016). Global reading challenge: Creating a digital book club with open borders. *Kansas Library Association College and University Libraries Conference*. Manhattan, KS April, 2016
- Capps, J., Jones, K., Zampieri, M. (2014). STEM-IT: Identifying STEM connections with children's literature. *Kansas Library Association Conference*. Wichita, KS Oct. 29, 2014
- Jones, K. (2017). 20-minute mentor video: Bringing pop to the classroom with pop culture [video file].



## Siny Joseph

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[http://www.ageconomics.k-](http://www.ageconomics.k-state.edu/directory/faculty_directory/joseph/)

[state.edu/directory/faculty\\_directory/joseph/](http://www.ageconomics.k-state.edu/directory/faculty_directory/joseph/)

### Education

Ph.D. 2009 Resource Economics University of Massachusetts Amherst

M.S. 2008 Resource Economics University of Massachusetts Amherst

MBA 2003 Marketing West Bengal University of Technology

B.S. 2000 Instrumentation and Control Engineering Gujarat University

### Academic/Industrial Experience

- Assistant Professor of Economics (2012 – present), *Kansas State University Polytechnic*
- Assistant Professor of Economics (2010 – 2012), Division of Business, *Newman University*  
Instructor (2008), Department of Resource Economics, *University of Massachusetts Amherst*
- Marketing Executive (2003), *CitiFinancial, India*

### Key Words Related to Activities

Food policy, Industrial organization, Econometrics, Country of origin labeling, Shrimp, Bulk solids handling, Sustainable green computing

### Short Description of Educational Interests

- Application of team-based learning and case study approach at introductory economics level courses.
- Design of professional teaching development activities.

### **Three Recent Publications**

- Venkitachalam, V. S., Namboodiri, V., Joseph, S., Dee, E., and Charles A. Burdsal (2015). "What, Why, and How: Surveying what consumers want in new mobile phones." *IEEE Consumer Electronics Magazine*, Vol. 4, Issue 2, pp. 54-59, April.
- Joseph, S., Namboodiri, V., and Vishnu D. Cherusola (2014). "Towards Environmentally Sustainable Mobile Computing through an Economic Framework," *IEEE Transactions on Emerging Topics in Computing*," Vol. 2, No. 2, pp 212-224, June.
- Joseph, S., Lavoie, N., and Julie A. Caswell (2014). "Implementing COOL: Comparative Welfare Effects of Different Labeling Schemes." *Food Policy*, Vol. 44, pp 14-25, February.

### **Recent Research/Outreach/Extension Projects**

Reviewer for:

- USDA NIFA Economics, Markets, and Trade panel.
- NSF Graduate Research Fellowship Program (GRFP).
- Agricultural & Applied Economic Association Annual Meeting (AAEA).
- Food Policy Journal.

### **Software Capabilities within Research Activities**

- SAS
- STATA
- Mathematica
- Microsoft Excel



## Saeed Khan

**Department:** School of Integrated Studies

**Program:** Electronic Computers and Engineering Technology

**Email:** [saeed@ksu.edu](mailto:saeed@ksu.edu)

**Phone:** 785-826-2677

### Education

University of Connecticut - Ph. D. Electrical Engineering

University of Connecticut - M.S. in Electrical Engineering

Bangladesh University of Engineering and Technology - B.S. Electrical and Electronic Engineering

### Academic Experience

- Kansas State University – 2008 to present, Engineering Technology Department Head
- Kansas State University – 1997 to 2008, Engineering Technology Faculty

### Other Experience

- Chair, Master of Science in Technology at Kansas State University Salina Task Force
- Chair, College Diversity Committee
- Kansas State Polytechnic Representative, President's Council of Multicultural Affairs



## **Academic Interests**

- Wireless power transfer systems for unmanned aircraft
- Global positioning systems and commercial wireless antenna
- Electromagnetic Scattering
- Polymer materials for microwave applications

## **Recognition**

- Co-chair for the technical session on “Mobile Antennas, RF and Wireless Communication” at the 2008 Progress in Electromagnetic Research Symposium held in Cambridge, MA
- Awardee for grants and contracts in excess of \$3 million from several sources including the National Science Foundation and the Air Force Office of Scientific Research
- Received a first place and a second place award for papers in the Midwest-Section of the American Association of Engineering Education



## Kaleen S. Knopp

**Department:** School of Integrated Studies

**Program:** Communications, Social Science, Humanities

**Email:** [kknopp@k-state.edu](mailto:kknopp@k-state.edu)

**Phone:** 785-826-2908

### Education

M.A. 1996 English / Composition / Rhetoric / Literature Kansas State University, Manhattan, KS

B.A. 1983 English / Composition / Education Kansas State University, Manhattan, KS

### Academic Experience

- Writing Center Director, Kansas State University Polytechnic Campus, 2003 – Present
- English Instructor, Kansas State University, 1996 – Present

### Key Words Related to Activities

Composition, Rhetoric, College Writing, Writing Center, Peer Tutoring Training, Writing Pedagogy, Curriculum and Instruction, Critical Thinking, Writing Fluency, Writing Accuracy

### Short Description of Educational Interests

- Apply rhetorical strategies purposefully in effective, audience-focused communication for solving problems using critical thinking and fluent writing
- Develop and teach courses in writing and composition
- Train writing center tutors and guide writing center development for cross-curricular writing support

**Short Description of Research Interests**

- Writing Center development and training
- Rhetorical strategies and audience-centered reasoning
- Writing and praxis / problem solving / decision making through writing
- Critical thinking and writing
- Writing pedagogy
- Writing assessment / rubric development
- Strategies for avoiding plagiarism / student instruction

**Professional Organizations**

- NCTE: National Council of Teachers of English
- KATE: Kansas Association of Teachers of English
- CCCC: College Conference on Composition and Communication
- Midwest Writing Center Association

**Land-Grant University Service and Outreach**

- Liaison for high school concurrent credit composition courses
- Adjunct writing faculty liaison / supervisor
- University Climate Committee



## Johnselvakumar (John) Lawrence

**Department:** School of Integrated Studies

**Program:** Bulk Solids Handling Specialist

**Phone:** 785-404-4918

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**Email:** [jlawren@ksu.edu](mailto:jlawren@ksu.edu)

### Education

Post-doctoral research, computer simulation modelling used for grain storage management at University of Arkansas and Kansas State University

Ph.D., Agricultural and Biological Engineering, Purdue University

M.S., Agricultural Processing, Tamil Nadu Agricultural University, Coimbatore, India

B.S., Agricultural Engineering, Tamil Nadu Agricultural University, Coimbatore, India

### Keywords Related to Activities

Bulk solids handling, material flow in hopper, storage, pneumatic conveying, and environmental condition on bulk solids flow, moisture sorption, Discrete Element Method (DEM) and Finite Element Method (FEM) modeling

### Professional Organizations and Affiliations

- Professional Engineer (PE)
- American Institute of Chemical Engineering (AIChE)
- American Society of Agricultural and Biological Engineers (ASABE)

### Areas of Expertise

- Bulk solids handling specialist focusing in the areas of hopper/bin design, material flow properties, material quality and processing, pneumatic conveying and modeling
- Director of KSU Bulk Solids Innovation Center
- Manages research, education, training and testing activities at the center
- Research interests include
  - powders and bulk solids flow in bins, hoppers, chute and feeders
  - pneumatic conveying of powders and bulk solids

- mass flow, funnel flow, segregation, ratholing and arching problems in bulk solids handling and storage
- segregation and non-uniformity problems in blending and mixing
- bulk flow analysis using Discrete Element Method (DEM) and Computational Fluid Dynamics (CFD)
- bulk solid flow problems due to change in weather (temperature and relative humidity) in the factory environment
- moisture sorption characteristics of various powders and bulk solids
- main focus on the process industries of plastics, chemicals, foods and feeds

### **Previous Positions**

- Lead researcher and director at IntelliFarms, a Missouri grain management company
  - established a grain lab
  - determined the equilibrium moisture content characteristics of various grains and oilseeds
  - used findings to manage grain in Bin Manager controllers
  
- Purdue University
  - developed 3D stored grain ecosystem model using the finite element method
  - Post-Harvest Education and Research Center (PHERC) participation in several post-harvest and grain drying projects

### **Leadership**

- Associate editor for the ASABE journals
- Program chair for the PRS 702 group Crop & Feed Processing & Storage of ASABE

### **Three Recent Publications**

- Lawrence, J., G. G. Atungulu, T. Siebenmorgen. 2015. Modeling in-bin rice drying using natural-air and controlled-air drying strategies. *Transactions of ASABE*, 58 (4): 1103-1111.
- Lawrence, J., D. E. Maier and R. Strohine. 2013. Three-dimensional transient heat, mass, momentum and species transfer model using the finite element method. Part I Model Development. *Transactions of ASABE*, 56(1):179-188.
- Lawrence, J., D. E. Maier and R. Strohine. 2013. Three-dimensional transient heat, mass, momentum and species transfer model using the finite element method. Part II Model Validation. *Transactions of ASABE*, 56(1):189-201.



## Steven Locklear

**Department:** School of Integrated Studies

**Program:** Aviation Maintenance

**Phone:** 785-826-2940

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### Education

University of Central Missouri, Master's Degree in Aviation Safety 4.0, 2007

College of the Ozarks, Baccalaureate Degree in Aviation Technology 3.21, 2001

Southern Arkansas University Tech, Associates Degree in Aviation Technology 3.49, 1998

### Experience

- Kansas State University Polytechnic
- Spartan College of Aeronautics and Technology - Lead Instructor, 2008 to 2017
- University Of Central Missouri – Teaching Assistant, 2006 to 2007
- Saline County Career High Center- School 147 teacher, 2004 to 2005
- Henderson State University - Aircraft Mechanic, 2001 to 2004
- College of the Ozarks – Line Crew, 2000 to 2001
- Southeastern Aircraft Rebuilders – Aircraft Mechanic, 1998 (four months)
- SMI Steel - Industrial Maintenance Apprentice in Mechanical and Electrical Shops, 1994 to 1998

### Professional Certifications

- Federal Communications Commission, 2016
  - General Radiotelephone Operator Permit With Radar Endorsement
- Federal Aviation Administration
  - Airframe and Powerplant Certification, 1998
  - Private Pilot Certification, 2000

### Community Service

- Fellowship Committee Memorial Drive United Methodist Church, 2011 to present
- Instructor at Broken Arrow Martial Arts Academy, 2015 - present
- Boy Scouts of America, 2016 - present



## Nathan Maresch

**Department:** Applied Aviation Research Center

**Email:** mareschn@k-state.edu

**Phone:** 785-826-2658

**Website:** <http://polytechnic.k-state.edu/facultystaff/nmaresch.html>

### **Education:**

B.S. 2009 Electronic and Computer Engineering Technology Kansas State University  
Dual Emphasis in Avionics and Controls

### **Academic/Industrial Experience:**

- Senior Engineering Technologist / Flight Instructor, KSU, Sept. 2016 - Present
- Lab Technologist – Research, Kansas State University May 2009 – Sept. 2016
- Lab Instructor, Kansas State University, Aug. 2008 – May 2009
- Student Research Assistant, Kansas State University, Jan. 2008 – May 2008
- Engineering Intern, KASA Industrial Controls, Salina, KS, May 2007 – Aug. 2007

### **Key Words Related to Activities:**

Unmanned aircraft system, UAS, unmanned aerial system, unmanned aerial vehicle, unmanned aircraft vehicle, UAV, remotely piloted vehicle, RPV, drone, sense and avoid, Wireless Power Transmission, WPT

### **Short Description of Educational Interests**

- Unmanned aircraft operations instruction
- Demonstrate UAS system components and function
- Short Description of Research Interests
- UAS Autopilot Control
- UAS Payloads and Integration
- Multi-vehicle operations
- Beyond line-of-sight technology

- Precise Positioning / GPS
- Wireless Power Transmission
- Sense and Avoid Technology
- Counter-UAS

### **Research / Publications**

- UAS Resource Management Operations (BLM)
- Implementation and Simulation of 2D Fuzzy Logic Obstacle Avoidance Controller
- Helical Antenna Wireless Power Transfer. System. (Patent Pending)
- Hardware/Equipment Capabilities within your Research Activities
- Fixed-wing, single and multi-rotor UAS systems
- Electro-Optic, Near-Infrared, Thermal Infrared camera payloads
- Basic complement of electronic test equipment (Multimeters, Oscilloscope, Frequency Generator, etc.)
- Surface-Mount Electronics Re-work
- Basic shop tools
- Software/Simulation Capabilities within your Research Activities
- Electronic circuit simulation, design, and layout
- Antenna design and simulation software
- RF signal propagation software
- Autopilot and Payload Simulators





## Randall K Nichols, DTM

**Department:** School of Integrated Studies

**Program:** UAS Cybersecurity, Computers, Graduate Faculty

**Phone:** 785-826-2681

**Email:** ProfRKNichols@ksu.edu

### Education

B.S.Ch.E Tulane University, Chemical Engineering, 1967

M.B.A. University of Houston, Operations Research, 1970

M.S.Ch.E. Texas A & M, Chemical Engineering, 1991

### Professional Experience

- Associate Professor of Practice, UAS – Cybersecurity, KSU Polytechnic, August 2017 - Present. Part-Time Faculty, Cybersecurity, KSU Polytechnic June 2015 – August 2017
- Professor Emeritus –Cybersecurity, Utica College, Utica, New York, Nominated October 2014, approved on June 19, 2015
- Professor of Practice – Cybersecurity, Utica College, Utica, New York, March 2011 to June 2014
- Associate Professor of Criminal Justice, Utica College, Utica, New York, August 2006 to March 2011

### Books Authored / Published

- Nichols, R.K. & Lekkass, P. (2002) *Wireless Security: Models, Threats, Solutions*. New York: McGraw-Hill
- Nichols, R.K, Ryan, D. & Ryan, J. (2000) *Defending Your Digital Assets Against Hackers, Crackers, Spies and Thieves*. New York: McGraw-Hill
- Nichols, R K. (1998) *the ICSCA Guide to Cryptography*. New York: McGraw-Hill
- Nichols, R.K. (1996) *Classical Cryptography Course Volume II*. Laguna Hills, California: Aegean Park Press
- Nichols, R.K. (1995) *Classical Cryptography Course Volume I*. Laguna Hills, California: Aegean Park Press

- Nichols, R.K. (1991) *the Corporate Aluminum Model*, Texas A & M University- Kingsville Press, Kingsville, TX

### **Subject Matter Expert**

- USDOJ Subject Matter Expert (SME) in both Cryptography and Computer Forensics
- DTRA/ DOD certified Subject Matter Expert (SME) on Counter-Intelligence and Counter-Terrorism with respect to cyber offensive / defensive weapons and SCADA systems

### **Selected Keynote / Invited Speaker Presentations**

- Cybersecurity Forum Event, Invited Speaker for KSUP, 4 October, 2017 Wichita, KS, *Drone Wars: Threats, Vulnerabilities and Hostile use of UAS*
- INFOWAR\* International Conference 2016 Presentations, Invited Speaker for KSUP, 6 April 2016 Nashville, TN <http://infowarcon.com/iwc-16/>; *Threats, Vulnerabilities and Hostile Use of UAS, Unmanned Aircraft Systems Sense and Avoid, Small Unmanned Aircraft Systems in the USA, Drone Attacks by Swarm with Medical Waste Payloads, “Ah-Ha Moments” regarding Racing Drones and Threats Poised in USA* (\*Not associated with Infowars, the Alex Jones Radio Show)

### **Selected Reports /Peer-Reviewed Journal Articles**

- National Critical Intelligence Estimates (NCIEs) Presentations /Reports covering nuclear, chemical, biological, intelligence, military, economic, political, terrorist, and/or social conditions relevant to the National Security of the United States. NCIE: *Syria Civil Revolution and War – (Predicted current Aleppo conditions) 2015; Turkey Conditions ripe for Civil War 2015; Small UAS in NAS – Safety Issues 2015; Egypt Shifting Alliances and chaos 2015.*
- Nichols, R. K. (2006) *Handbook of Information Security*. Hossein Bidgoli, Editor in Chief. Chapter 74: Wireless Information Warfare in Volume II: Information Warfare: Social, Legal and International Issues; and Security Foundations. Hoboken, New Jersey: Wiley.



## Jung R. Oh

**Department:** School of Integrated Studies

**Program:** Mathematics and Science

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**Phone:** 785-826-2915

### Education

PhD Inorganic/Organometallic Chemistry University of CA, Los Angeles

BS Chemistry (with Teaching Credentials), Sogang University, Korea

### Professional Experience and Memberships

- Assistant/Associate/Full Professor, Graduate Faculty, Kansas State University, 1998-present
- American Society for Engineering Education (ASEE) Postdoctoral Research Fellow, Naval Air Warfare Weapons Center, Materials Science Division, China Lake, CA
- Postdoctoral Researcher, Ohio State University
- Member of American Chemical Society and American Society for Engineering Education

### Key Words Related to Activities

cross-curricular innovation, information literacy, creativeness in STEM and chemistry education, applied research skills, scholarship of teaching, diversity in STEM education

### Short Description of Education Interest, Scholarly Endeavor, and Outreach Service

- Foster creativeness development, life-long learning, and experiential teaching in Chemistry Education
- Collaborate for information literacy in discipline specific assignment with Library & Writing Center
- Cultivate peer review of teaching, co-mentorship, and interdisciplinary teaching and learning
- Promote faculty teaching exchanges through F2F, hybrid, and online community of learners building
- Advocate diversity in STEM education with TWIST (Teen Women in Science and Technology) days

- Contribute as Regional Science Olympiad events coordinator and as presenter at local K-12 schools

### Recent Publications/Presentations

(Legend \* denotes primary presenter of collaborative project)

- Oh, J.\* Joseph, S.; Ackerman, P. (2017) “Community Building with F2F and Online Faculty Teaching Exchange” Lilly Conference, Anaheim, CA, February 23-26
- Joseph, S.; Oh, J.\*; Ackerman, P. (2016) “Quest: A Virtual Faculty Teaching and Learning Community” Presentation at Teaching Professor Technology Conf., Atlanta, GA, Sept 30 – Oct 2.
- Oh, J. (2016) “Using Student’s Creative Periodic Table Projects to Spark Interests, Enhance Outreach Activities and Make Connections for Learning Community” Presentation 882, Biennial Conference on Chemistry Education, University of Northern Colorado, Greeley, CO, July 29-August 2
- Oh, J.\*; Mitchell, K.; Dain R.; Van Stipdonk, M. (2010) “Generation and Investigation of Alkali- Metal Halate Clusters with the formula,  $[M(MXO_3)_n]^+$  (M=Na and K; X=Cl, Br, and I) Using Electro-spray Ionization Mass Spectrometry”, INOR-804, 239<sup>th</sup> American Chemical Society national meeting, San Francisco, CA, March 21-25

### Recent Honors, Awards, Experiences

- Review Panel - NSF (IUSE, TUES, CCLI, GRFP), DoD (NDSEG, SMART) Air Force SFFP, AP Chem. Reader
- K-State Awards - Marchbanks Award for Teaching Excellence, Rex & Jean McArthur Family Faculty Award, Coffman Leadership Institute Fellow, Big XII Fellow, Peer Review of Teaching Fellow
- Research at Wichita State University – NSF Research Site for Educators on Chemistry Fellowship
- cCWCS (Chemistry Collaborations, Workshops & Communities of Scholars) invited participation: Forensic Chemistry, Distance Learning & Hybrid Teaching, Arts as Context for General Chemistry, Computational Chemistry, Implementing iPads in Curriculum, Renewable Energy, Chemistry Education-Supporting Student Lab Learning.



## Duke Papworth

**Department:** School of Integrated Studies

**Program:** AARC Technologist/Pilot

**Phone:** 785-826-8568

**Email:** [dpapworth@ksu.edu](mailto:dpapworth@ksu.edu)

### Education

B.S. Degree, Aviation Technology – Maintenance Management Major, Spanish Minor May 2016  
Utah State University, Logan, UT

FAA Pt 107 Remote Pilot in Command Certification March 2017

FAA A&P Mechanic Certification December 2016

### Projects

Aviation Senior Project - Scratch Built Coanda Effect UAS- Summary at <https://goo.gl/99iAAa> -

A&P Troubleshooting - Hydraulic Landing Gear Problems, Electrical System Issues

A&P Projects - Composite Layups and Repair

### Relevant Experience

- Sunwest Aviation Internship, San Luis Obispo, CA - May-August 2014
  - Mechanical troubleshooting on twin aircraft exhaust installation
  - Hydraulic mule - rebuild of system hydraulic lines
  - Regular maintenance performed; oil and filter change, tire changes, safety wiring, etc.
  - 3 semester long UAS Project required weekly reports and documentation of processes, as well as long term prototyping with regular testing and revisions
  
- Cache Makers USU Extension/4H - Logan, UT – 2016-2017
  - Understanding of the nature of technical discussion with customers/employers from employment in Cache Makers makerspace/lab - parts ordering and inventory experience

- Developed content/lesson plans of a technical nature for both Cache Makers and South Cache
  - Middle School and taught courses based on that content
  - Frequently assists with tours to Cache Makers and interfaces with the general public for publicity and marketing purposes
  - Often in direct contact with students in an instructional role at Cache Makers
  - Supplied proper timeline coordination required for upkeep and parts ordering
- Service Volunteer - Ecuador
    - Guided group trainings/discussions in Spanish and English
    - Facilitated communication between service volunteers, service leaders, and outside leaders
    - Finance Secretary for 150-200 volunteers
    - Prepared monthly financial reports for leadership of the service mission



## Merta Dawn Scott, LBSW, MSW

**Department:** School of Integrated Studies

**Program:** Social Work Instructor

**Phone:** 785-826-7183

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### Education

- Ed.D in Educational Leadership with a specialization in curriculum and instruction
  - University of Phoenix
  - Anticipated graduation date: 2018
- Master in Social Work Administration
  - University of Kansas
  - Graduation date: 2001
- Bachelor's degree in Social Work and Family Studies and Human Services
  - Kansas State University
  - Graduation date: 1996

### Professional Experience

- Social Work Instructor – Kansas State University Polytechnic Campus (2016 – Present)
- Adjunct Teacher – Cloud County Community College (2001 – 2016)
- Child Welfare (Foster Care and Adoption Services) (2005 – 2016)

### Awards and Grants

- Excellence in Supervision (2010)
- Oasis – Runaway and Homeless Youth Grant (1997)
- Oasis – Runaway and Homeless Youth Grant (2001)

### Service Activities

- Advisor – Social Work Wildcats
- Smokey Hill Association of Social Workers
- Kansas Council on Social Work Committee Member
- American Cancer Society Volunteer
- Missouri, Iowa, Nebraska, Kansas (MINK) Committee Member for Runaway and Homeless Youth



## Eric Shappee

**Department:** School of Integrated Studies

**Program:** Professional Pilot

**Phone:** 785-826-2630

**Email:** [wjfpmd@ksu.edu](mailto:wjfpmd@ksu.edu)

### Education

A.A. Antelope Valley College, Lancaster, California

B.S. Aeronautical Science, Embry-Riddle Aeronautical University

M.S. Aeronautical Science and Safety from Embry-Riddle Aeronautical University

### Professional Certifications

- Commercial pilot certificate with instrument, multiengine, and glider ratings
- Certified flight instructor with gold seal
- NTSB Academy

### Professional Experience

- Professor of Aviation and the Director of Flight Operation at Kansas State University Polytechnic, Salina. Courses taught include
  - Introduction to Aviation
  - System Safety
  - Safety Management
  - Aviation Accident Investigation
- Acting Department Head and Professional Pilot Program Lead for Aviation

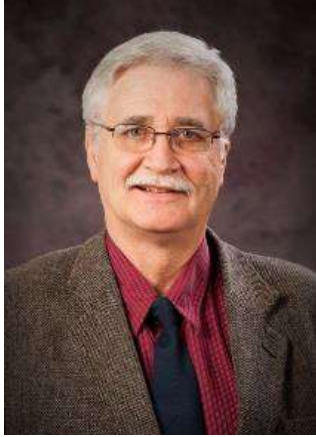
### Keywords Related to Activities

aviation safety, unmanned aerial systems, aviation accident investigation, aviation systems, flight instructor, commercial pilot, risk assessment

### Professional Achievements

- University Aviation Association (UAA) Board of Trustees.
- International Society of Air Safety Investigators
- Developed several risk assessment tools for K-State and other aviation organizations





## Greg Stephens

**Department:** School of Integrated Studies

**Program:** Technology Management and Business

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### Education

M.L.S. 2008 Human Resource Management Fort Hays State University

M.S. 1981 Communication Fort Hays State University

B.S. 1980 Education Fort Hays State University

B.A. 1973 Communication Fort Hays State University

### Academic/Professional Experience

Kansas State Polytechnic, Faculty, 1981-Current

### Training

- Negotiation Training, Pacific Coast Bargaining Conference Monterey, CA.
- Non-Profit Management Training, Kansas Non-Profit Assoc., Topeka, KS.
- Value-Added Business Conference Kansas Center for Cooperative Development.
- Certificate, Entrepreneurship- Your Future in Business, WSU.
- Certificate, Human Relations Training, Performax Systems, KC, Mo.
- Certificate, TV Producer, Editing, Camera, Studio, Digital Editing, Access TV.
- Certificate, Business Marketing and Networking, University of Illinois.
- Certificate, Mediation Training, Bethel College/KIPCOR, Newton, KS.
- Certificate, Employment Law, Rockhurst College. Kansas City.
- Certificate, Leadership –James R. Coffman Leadership Institute, K-State.
- Certificate, Capsim Management Simulation Training, Chicago, Ill.

### Key Words Related to Activities

Training, Supervision, Civic and Community Development, Small Business, Rural and Organizational Development, Qualitative Research

### Presentation and Papers

- Science and Technology Institute Fellowship. National Endowment for Humanities. Iowa State University, Ames, Iowa. Paper: Systemization and Mechanization of the Midwestern Meat Packing Industry between 1870 and 1920.

- Researched and Published Kansas Agricultural Directory.
- Produced Storytelling DVD with storyteller Tim Tingle as part of Tilford grant.
- Paper presented: Using Storytelling to Meet the Technology and Information Literacy Needs of Millennial Students. K-State Salina.
- Paper presented American Society for Engineering Education (ASEE) Midwest Division, Lincoln, NE. Storytelling.

### **Leadership and Awards**

- Certificate of Appreciation, Kansas Center for Sustainable Ag. and Alternative Crops, Kansas State University.
- Faculty Member Award- “Inspire by Example”, Kansas State University faculty award.
- First Place Award- One Minute Film Festival, About Nature, Access TV, Salina, KS.
- John Vogelsberg Sustainable Agriculture, Kansas Organic Producers. Chris Walker Leadership Award, Kansas NFO.

### **Activities and Grants**

- Civic Engagement Grant- Student and community leaders- North Salina Community Development, Inc.
- Kettering Foundation - Organizer of TALK Salina, Center for Public Life and K-State Civic Luncheon Lectures.
- In the Interest of National Security. Associate Producer. Independent Film. Kaul Roberson & Assoc, Joplin, MO.
- Board chairperson Access TV. Also, produce local shows featuring community events.
- Founding board member- Institute for Rural America., Ames, Iowa. Assist with training and grant program.
- Developed supervisor training and organizational consulting: North American Philips Lighting, Geary County Community Hospital, a regional BioMass Working Group, New York dairy farmers, Midwest Honey Bee Producers, Kansas NFO, Great Bend Packing/John Morrell and Smithfood Foods.
- Grants: USDA Risk Management- Leadership, Marketing; Mexican American Farm Information Exchange; Tilford Storytelling; Kansas Humanities Oral History Project; South Asia faculty tour; three K-State Provost Awards.
- Kaufman Scholars. Educational History of Technology event. Yesteryear Museum. Salina, KS.
- Young Farmer Leadership Training, Organizer. Salina, KS. Event and Kansas City event.
- Prairie Writers Circle, Writers group; Cornfield Writers Group. Prod. Dinner Theater Melodrama, Wichita.
- Panelist Moderator. Agriculture and Community Economic Development. Salina, KS.



## Andrew Smith

**Department:** School of Integrated Studies

**Program:** Aviation Maintenance

**Phone:** 785-826-2682

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### Education:

M.S. Aviation Safety University of Central Missouri, Warrensburg, MO

B.S. Aviation Science College of the Ozarks, Point Lookout, MO

### Academic/Industrial Experience

- Associate Professor teaching various technical courses at KSU Polytechnic
- Aviation Mechanic, Inspector, Examiner, Commercial Pilot, Flight Instructor, Consultant
- Aviation Technician Education Council Board Member, Regulatory Committee Chair
- ATEC designated escort to greet and meet with US Congress members and federal staffers
- Aircraft Owner and Pilots Association local representative for Salina Regional Airport
- Unmanned Aircraft Systems fundamentals, specifically airworthiness assessment and reliability
- Owner/operator of Smith Aviation - aircraft services, pilot services, airman testing, consulting
- Farm equipment operator - during wheat harvest, mostly combine operations

### Key Words Related to Activities

Aviation, aircraft, airport, consultant, instructor, mechanic, inspector, pilot, technician

### Short Description of Educational Interests

All things aviation or airport related; sharing aviation with others

### **Three Recent Publications**

- Beyond the Technical – Teaching Professionalism
- Understanding the Sights, Sounds, Feelings, Taste and Smells of Commercial Air Travel
- License or Certificate?

### **Recent Research Grant Applicants**

DOJ Wildlife Air Interdiction (application), Cabin Air Quality and Security, Ag Solid Material Spreader, Unmanned Aircraft Systems Electronic Miniaturization, Air Trailer

### **Military Experience:**

U.S. Navy – 6 years, E1 Airman to E6 First Class Petty Officer

- Marksman
- Sharpshooter
- Good Conduct
- National Defense
- Meritorious Advancement
- Aircrew Wings of Gold
- Lockheed Hercules 1000 & 2000 flight hour pins

U.S. Naval Reserves, 8 years, E6 First Class Petty Officer to E7 Chief Petty Officer

- Good Conduct
- Desert Shield
- Desert Storm

### **Hobbies and Interests:**

- Family
- Church
- Community
- Radio Control Flying Clubs (KS Polytechnic campus & Salina)
- BSA Troop 120 Lindsborg Scoutmaster
- Outdoor activities including camping, hunting and fishing



## Don Von Bergen

**Department:** School of Integrated Studies

**Program:** Graduate Program

**Phone:** 785-826-2696

**Email:** [dvb@k-state.edu](mailto:dvb@k-state.edu)

### Education

- Academic
  - Ph.D. in geology, University of Illinois, Urbana, Illinois, 1988
  - M.S. in geology, University of Illinois, Urbana, Illinois, 1985
  - B.S. in geology, Wheaton College, Wheaton, Illinois, 1977
  
- Professional
  - Private Pilot Ground School (in progress), 2017
  - Management Development Program, Harvard Graduate School of Education, 2016
  - Academy for Student Centered Learning, K-State Office of Assessment, 2013
  - Leadership Salina, Salina Area Chamber of Commerce, 2009

### Professional Experience and Employment

- |                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Kansas State University Polytechnic Campus | Salina, Kansas                         |
| • July, 2016 - Present                     | Director of Graduate Program           |
| • 2001 – 2016                              | Department Head and Geology Instructor |
| • 1994 – 1997                              | Part-time Instructor, Physics, Geology |
| Salina High School South                   | Salina, Kansas                         |
| • 1992 - 2001                              | Physics Instructor                     |
| Chevron U.S.A. Inc.                        | New Orleans/Lafayette, LA.             |
| • 1988 - 1992                              | Geologist/Geophysicist                 |

### **Selected Professional Publications and Presentations**

- Presentation on the Technology Management degree in Topeka at the Capital Building to the Postsecondary Technical Education Authority (KBOR), Spring 2015
- Invitation by Kansas State University Assessment Office to represent the University at a week-long assessment workshop in Chicago. From this, I was a contributing member to the Kansas State University-wide “Academy for Student Centered Learning” offered to faculty during the fall 2013 semester.
- Kansas State University Presidential Lecture Series, 2007 – present: “BP Oil Spill: Exploration, Drilling, and Oil Production in the Gulf of Mexico,” “Earthquakes and Tsunamis,” and “Geology: Its Impact on Society and Its Exciting Careers”
- Received grant from the Center for the Advancement of Teaching and Learning at Kansas State University to attend The Teaching Professor Conference, May 2005. This resulted in a Collaborative project using “personal response systems” in the classroom.
- Von Bergen, D. and M. Johnston, Fall 2006. “Hard Knocks – What You Don’t Know Can Hurt”: The Department Chair, vol. 17, No. 2
- Von Bergen, D. and M. Johnston, February, 2006. “Hard Knocks – What You Don’t Know Can Hurt”: Presentation and Proceedings, 23rd Annual Academic Chairpersons Conference