

Eric A. Bernard, RLA, ASLA

Curriculum Vitae

September 2009

Department of Landscape Architecture
Regional and Community Planning
Kansas State University
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Licensure

Kansas Landscape Architect License No. 696, May 5, 2005.

Education

Bachelor of Landscape Architecture, Texas Tech University, 1996.

Capstone: All Saints Episcopal School Master Plan & Storm Water Management Plan

Master's of Landscape Architecture, Texas Tech University, 2000.

Thesis: McKenney Enterprises: A Case Study on Sustaining the Family Ranch Applying Geospatial Technologies to Landscape Resource Inventory, Analysis and Management

Professional Appointments

Associate Professor, Kansas State University, Manhattan, Kansas, 2000-Present.

Prepare and teach courses on environmental landscape planning and design, landscape architecture technology/visualization, advise students on academic study, serve on department, college (chair) and university technology committees, the Provost's GIS Steering Committee and K-State delegate to the University Consortium for Geographic Information Science, research foci include teaching-learning, and large scale water and ecosystem dependent landscapes, co-founder of the Consortium for Global Research on Water-Based Economies-GRoWE funded by NSF, USDA and K-State Targeted Excellence.

Landscape Architect, Landworks Design, Inc., Denver, Colorado, 2003.

Landscape architect and technology consultant for firm whose market is large scale resort and mountain resort development projects.

GST Consulting, Manhattan, Kansas, 2001-Present.

Owner of geospatial technology consulting firm focused on implementation and development of geospatial resources and land planning.

Project Manager/Landscape Architect, Design Workshop, Inc., Aspen, Colorado, 1999-2000.

Manager and team designer of landscape architecture and planning projects ranging from large scale land planning, to brownfield remediation, to high-end residential in the United States, Mexico and Canada.

Synergistic Activities

Co-Founder in the Consortium for Research on Groundwater Based Economies (GROWE) 2001.

Kansas GIS Policy Board, Appointed by Governor Parkinson 2009-2012.

Kansas State University Chair GIScience Commons Steering Committee 2008-2010.

Kansas State University Provost's GIS Steering Committee 2004-Present.

Kansas State University Delegate to University Consortium for GIScience 2004-Present.

Kansas State University LEA/RN Program 2002-2005.

Kansas State University Peer Assessment Program 2004-2005.

Kansas State University Provost's Advisory Group on Engagement 2006-Present.

Council of Educators in Landscape Architecture (CELA) Region IV Director 2001-2003, 2004-2006 and Chair IT Infrastructure Committee and Web development Leader 2004-2005.

Achievements and Awards

Kansas GIS Policy Board, Appointed by Governor Mark Parkinson, May 2009-2012.
K-State Special Achievement in GIS Award presented at ESRI International User Conference, 2005.
Who's Who Among America's Teachers, 2004, 2006.
Teacher of the Year in Landscape Architecture 2003-2004.
Elected Region IV Director, CELA 2001-2006 (2 Consecutive Terms).
Water consortium taps a liquid asset, K-Statement, July 6, 2006, 29(1).
K-State consortium identifies, evaluates water management strategies, KSU Media Relations, June 6, 2006.
GRoWE Targeted Excellence Award, announced in Inview, 26(22), June 3, 2004.
Second place award in NSF EPSCoR poster presentation announced in Inview, 25(22), June 5, 2003.
Second place award in NSF EPSCoR poster presentation announced in Focus, 4(1), Spring 2003.
Designed NSF EPSCoR Second Place Poster 2003.
Design Workshop, Inc., Design Team Member on ASLA Honor Award Winning Project Titled: Canyon Forest Village, 2000.
Dallas-Fort Worth National Cemetery Veterans Memorial Design Competition Winner, Texas National Cemetery Foundation, 1998.

Advisors and Collaborators

Advisors

John C. Billing	Texas Tech University
Thomas A. Musiak	Texas Tech University
Dr. Ernest B. Fish	Texas Tech University

Research Collaborators

Daniel A. Andreson	KSU Computing & Information Science
Joseph A. Aistrup	KSU Political Science
Lucia Barbato	Texas Tech University
John M. Blair	KSU Biology
Robert W. Buddemeier	KU/Kansas Geological Survey
Richard M. Chubb Jr.	KSU OME-Geodatabase Manager
Gary A. Clark	KSU Biological & Agricultural Engineering
Walter K. Dodds	KSU Biology
Larry A. Erickson	KSU Chemical Engineering, HSRC, ITAM
John A. Harrington	KSU Geography
William H. Hsu	KSU Computing & Information Science
J.M. Shawn Hutchinson	KSU Geography
John W. Keller	KSU LARCP
James K. Koelicker	KSU Biological & Agricultural Engineering
Laszlo J. Kulcsar	KSU Sociology
P. Allen MacFarlane	Kansas Geological Survey
Edward A. Martinko	KU/Kansas Biological Survey
Kevin Mulligan	Texas Tech University
Charles G. Oviatt	KSU Geology
Jeffrey M. Peterson	KSU Agricultural Economics
Scott A. Staggenborg	KSU Agronomy
David R. Steward	KSU Civil Engineering
Linda P. Thurston	KSU Education
Elizabeth A. Unger	KSU Vice Provost
Steve M. Welch	KSU Agronomy
Brownie Wilson	Kansas Geological Survey

Teaching, Advising, and Student Awards

Teaching Philosophy

Considering research on how people learn, humans:

- Brains seek meaning.
- Construction of meaning involves inductive and deductive reasoning to apply conceptual frameworks.
- Engage prior learning and experiences when approaching new challenges.
- Treated as though they are intelligent grow intelligence.
- Learn when they take responsibility for their learning.
- Intelligence grows through effort and stimulation of the brain.
- Posed questions challenge their intellect.
- More dominantly rely on visual imaging for information processing.
- Have Five Memory Pathways for permanent storage of information
 1. Semantic Memory- information learned from words (hippocampus)
 2. Episodic Memory- deals with contextual and spatial location when memory occurred (hippocampus)
 3. Procedural Memory- is the muscle memory or physical process or routine memory (cerebellum)
 4. Automatic Memory- also called conditioned response memory concerning decoding skills and recognition skills-not comprehension (cerebellum)
 5. Emotional Memory- most powerful memory, can defy logic, takes precedence over all other types, causes release of stress hormones that change mind (amygdala)
- Rely on both implicit and explicit memories in each pathway.
- Have two additional memory processes:
 1. Short-term memory- last seconds and begins memory processing and storage
 2. Working Memory- last minutes and sorts through existing and new information to find connections (prefrontal cortex)
- Triggering multiple memory lanes improve depth of learning and long-term memory.
- Emotional memory is the most powerful and takes precedence over all memory lanes.
- Emotional memory can defy logic.
- Emotional memory is linked to the release of stress hormones that change one's mind.
- Richness of memories is added to by sights, sounds, smells, tastes and movements.
- Most powerful learning takes place in multiple memory lanes.
- Engaging in a learning community stimulate their brains more and more deeply.
- Engaging in metacognition stimulate their brains more and more deeply.

The architect of the landscape who finds meaning collaboratively draws on semantic, episodic, procedural, automatic and emotional memory¹ to understand patterns, relationships, trends in natural and social phenomena through spatial-temporal scales. Ultimately, an architect is responsible to communicate this appreciation via abstract and symbolic frameworks. The goal of instruction therefore lies in realization and actualization of the process by which landscape meaning is developed and communicated.

To develop memory for meaning related to landscape and creative problem solving, future landscape architects should be immersed in a learning community where they responsibly engage others, their senses and emotions through question triggering multiple memory lanes which enrich capacity to create and communicate conceptual frameworks.

Instruction should provide cues for the learning community to realize and internalize Habits of Mind¹ critical to deriving and communicating landscape meaning including the action to: persist, manage impulsivity, listen with understanding and empathy, think flexibly, think about thinking-metacognition, strive for accuracy, question and pose problems, apply past knowledge to new situations, think and communicate with clarity and precision, gather data through all senses, create, imagine and innovate, respond with wonderment and awe, take responsible risks, find humor, think interdependently, remain open to continuous learning.

As a landscape architect's mentor, I must be mindful of the language of learning, create thoughtful learning environments where students are pressed to raise questions, accept challenges, find solutions, explain concepts, justify reasoning and seek information for the purpose of developing meaning through multiple memory lanes.

¹Costa, A.L., Kallick, B., Discovering and Exploring Habits of Mind, Association for Supervision and Curriculum Development, Alexandria, VA, 2000.

Teaching Honors

Teacher of the Year in Landscape Architecture 2003-2004.

Student nominated and voted on award for "Enthusiasm for Teaching and Dedication to Students".

Who's Who Among America's Teachers, 2005, 2007.

Nominated by students who are cited for academic excellence.

Nominee for Outstanding Faculty Award, Texas Tech College of Agricultural Sciences and Natural Resources, 1998.

One of three nominees submitted and voted on by students in the college for excellence in teaching and mentoring students.

Advising

<i>Category</i>	<i>Description</i>	<i>Advisee(s)</i>	<i>Advisor Role</i>	<i>Progress/Outcome</i>
<i>PhD., Master's Thesis, Master's Project, Capstone Project</i>	MLA	Lara Barnes	Committee Member	Graduated May 2008
	MRCP	Jeremy Frazzell	Committee Member	Graduated May 2006
	MLA	Eric Castle*	Major Professor	Graduated May 2007
	MARCH	Subhrendu Das	Co-Major Professor	Graduated August 2006
	CIS	Charani Gayathri	Committee Member	Graduated December 2006
	MLA	Nathaniel Kersey	Major Professor	Graduated December 2008
	MLA	Brett Tagtmeyer	Committee Member	In Progress May 2010
	MARCH	Subhojit Sinha	Committee Member	Graduated December 2008
	PhD	Christopher Sass	Committee Member	Graduated December 2008
	BLA Capstone	Timothy Merklein	Project Mentor	Graduated May 2008
	BLA Capstone	Greg Phau	Project Mentor	Graduated May 2008
	BLA Capstone	Monica Miller	Project Mentor	Graduated May 2007
	BLA Capstone	4-6 Students Per Year**	Project Mentor	All Graduated 2000-2005
<i>Research Assistants</i>	GRA	Eric Castle	USDA-ARS OAP	2003-2005
	GRA	Aarhi Padmanabhan	USDA-ARS OAP	2005-2006
	RA	Tor Janson	NSF EPSCoR-Ecoforecasting	2006-2007
	GRA	Jesse Benedick	NSF EPSCoR-Ecoforecasting	2006-2008
	GRA	D. Nathaniel Kersey	NSF EPSCoR-Ecoforecasting	2006-2008
	GRA	Weston Esmiller	USDA-ARS OAP	2008-2009
	GRA	Andrew Schaap	USDA-ARS OAP	2009
	GRA	John Perry	USDA-ARS OAP	2009
	GRA	Jeremy Merrill	USDA-ARS OAP	2009
	GRA	Kevin Kroen	USDA-ARS OAP	2009
	GRA	Scott Capps	USDA-ARS OAP	2009
<i>Developing Scholars</i>	MS Biology	Cisco Velasquez	Assistant on Project	2008-2009
	MLA	Christopher Sanders	Assistant on Project	2009-2010
<i>Academic</i>	BLA Students	7-10 Students Per Year	Academic Advisor	All Seniors Graduated
	Multidisciplinary	5 Students	Academic Advisor	ULI Competition Submittal 2002
	BLA	Wyatt Thompson	Faculty Mentor	ASLA Research Submittal 2004
	BLA	Mark Ruzicka	Faculty Mentor/Sponsor	Udall Honorable Mention '05 & '06
	BLA and MLA	All Students	Computer & Hardware Purchases + Technical Support across 46 Applications	Students save over \$1000 on computer purchases and program ranked in top 5 Nationally for Technology
<i>Student Organization</i>	Student Chapter of the American Society of Landscape Architects	All Student Members	Faculty Advisor	Increased Professional Connections and Community Service via SCASLA Charrettes resulting in Student National recognition (2000-2006)

*First Recipient of the Dangermond Fellowship (Sponsored by LAF, ASLA, ESRI presented at ASLA and ESRI UC)

**Cody Pilger (BLA 2004) Co-Presenter at 2003 ASLA National Meeting in New Orleans, LA

Invited Lecturer/Critic

Critic DSN 202 Environmental Design Studio 2, Professor Wigfall, 2000, 2004.
Lecturer LAR 758 Land Resource Information Systems, Professor Brooks 2002, 2003.
Lecturer Architectural Research Methods, Professor Hoag 2002.
Critic Arch 706-Architectural Design Studio VII, Professor Condia 2002, 2003.
Critic Design Studio VI, Professor Hoag 2003.
Lecturer DSN 203 Survey of the Design Professions, Professor Ewanow 2001-2005.
Critic DSN 202 Environmental Design Studio 2, Professor Thompson.
Critic LAR 703 and 744, Professors Rolley & Klein 2004.
Lecturer ADS2 Site Analysis/Site Design, Professors Condia & Hoag 2003.
Lecturer ADS2 Site Analysis/Site Design, Professors Condia, Hoag, Pekar, & Simon, Spring 2004.
Critic Research Methods, Landscape Architecture, Texas Tech University, Professor S. Hamed, Dec. 2004.
Lecturer NRES Capstone-GIS in Decision Making, Robert Wilson & Professor Keane, February 2005.
Lecturer ARCH 720, Environment/Behavior Seminar, GIS in Environmental Studies, Professor Hoag, April 2005.
Lecturer DSN 203 Survey of the Design Professions, Professor Ewanow, April 2005.
Critic LAR 704, Design VIII/Capstone, Professors Barnes and Rolley 2005.
Lecturer ARCH 720, Research Methods, GRoWE Research and Community Decision Making Methods for Design Studies, Professor Hoag, December 2005.
Lecturer DSN 203 Survey of the Design Professions, Professor Ewanow, December 1, 2005.
Lecturer Career Opportunities Day, Susan Haug and Professor Ewanow, January 14, 2006.
Lecturer DSN 203 Survey of the Design Professions, Professor Ewanow, April 2006.
Lecturer Career Opportunities Day, Susan Haug and Professor Ewanow, January 13, 2007.
Lecturer LAR Materials and Methods, Surveying Methods and Applications Lectures, Professor Winslow, January 23 & 25, 2007.
Lecturer ADS 2 Site Planning Considerations in the Flint Hills, Professors Condia, Eck, Watts, February 28, 2007.
Lecturer Research Methods, Professor Hoag, March 2007.
Bernard, E.A., The Globe and the World, Bluemont Elementary School, September 17, 2007.
Lecturer DSN 203 Survey of the Design Professions, Professor Ewanow, September 27, 2007.
Lecturer Project Programming LAR 700 on Digital Site Inventory and Analysis, October 2007.
Lecturer Research Methods, Professors Hoag and Smith, November 7, 2007.
Bernard, E.A., GIS Day: Where's Bob?, Bluemont Elementary School, Manhattan, KS, November 14, 2007.
Critic LAR 220 Site Design Studio, Marlatt Park Final Project, December 11, 2007.
Lecturer Bernard, E.A., GEOG 509 Geography of Ecoregions, Professor Kendra McGlauchlin, March 7, 2008.
Lecturer Research Methods, Professors Hoag and Smith, March, 2008.
Lecturer Research Methods, Professors Hoag, Skabelund and Smith, September, 2008.
Lecturer Research Methods, Professors Hoag, Skabelund and Brody, October 28, 2009.

Student Awards

Cody Pilger, BLA, Co-Presenter, 2003 ASLA National Meeting and Expo.
Nathan Dunham, Kim Olson, Jeff Stoecklein, Lisa Treese, Fourth Place National Low Impact Development Competition, 2004.
Mark Ruzicka, BLA, Udall Scholarship Honorable Mention, 2005.
Eric Castle, MLA, Dangermond Fellowship, 2005.

Scholarly Work

Publications

- Yang, X., Steward, D. R., de Lange, W. J., Lauwo, S. Y., Chubb, R. M. and Bernard, E. A., Data Model for System Conceptualization in Groundwater Studies, *International Journal of GIS*, To Be Published Winter 2009.
- Kulcsár, L.J., Bernard, E.A., Globalization through the backdoor: Uneven development in rural Kansas, *Journal of Rural Sociology*, Under Review.
- Steward, D. R., Blair, J. M., Koelliker, J. K., Bernard, E. A., Dodds, W. K., Ham, J. M., Harrington, J. A., Kilutenberg, G. J., Leather, J. C., Monaco, G., Oviatt, C. G., Peterson, J. M., Reddi, L. N. and Welch, S. M., *Strategically Positioning K-State to Benefit from NSF's CUAHSI and NEON Programs*, TE report, January 16, 2007.
- Steward, D. R., Welch, S. M., Aistrup, J. A., Bernard, E. A., Clark, G. A., Dodds, W. K., Harrington, J. A., Hsu, W. H., Keller, J. W., Oviatt, C. G., Peterson, J. M., Staggenborg, S. A. and Thurston, L. P. *Scientific Discovery of Socio-Economic and Natural Processes Associated with Water*, TE report, January 16, 2007.
- Steward, D. R. and Bernard, E. A., Integrated engineering and landscape architecture approaches to address groundwater declines in the High Plains Aquifer, chap. 8 in *Case Studies in Environmental Engineering and Science*, eds. Bhandari, A. and Butkus, M.A., *AEEESP*, pp.121-134, 2007.
- Kulcsár, L.J., Bernard, E.A., Globalization through the backdoor: Uneven development in rural Kansas, 69th Annual Meeting of the Rural Sociological Society proceedings, Louisville, KY, August 10-13, 2006.
- Bernard, E.A., Andresen, D.A., Erickson, L.A., Linking EKAT Chemical Information to Geodatabase Features via Web Services, ESRI International User Conference Proceedings, San Diego, CA, ESRI Press, August 7-11, 2006.
- Steward, D. R. and E. A. Bernard, The synergistic powers of AEM and GIS geodatabase models in water resources studies, *Ground Water*, 44(1), 56-61, 2006.
- Steward, D.R. and E.A. Bernard, Case Studies in Water Resources: Integrated Engineering and Architecture Approaches To Address Groundwater Declines in the High Plains Aquifer, *AEEESP (The Association of Environmental Engineering & Science Professors) Environmental Case Studies*, June 2006.
- Bernard, E. A., Steward, D. R., and Le Grand, P., A Geodatabase for Groundwater Modeling in MLAEM and MODFLOW, ESRI International User Conference Proceedings, San Diego, CA, ESRI Press, July 22-29, 2005.
- Steward, D. R., Le Grand, P., and Bernard, E., The Analytic Element Method and supporting GIS geodatabase model, *Boundary Elements 27: Proceedings from the 27th World Conference on BEM/MRM 27*, Orlando, FL, pp.187-196, WIT Press, March 15-17, 2005.
- Bernard, E. A., Peterson, J.M., and Steward, D.R., A Coupled Hydrologic-Economic Modeling Tool to Support Groundwater Management Decisions, 2004 High Plains Groundwater Resources: Challenges and Opportunities, Lubbock, TX, Proceedings, p. 82, December 7-9, 2004.
- Steward, D. R., Allison, L., Bernard, E. A., Bloomquist, L. E., Ham, J. M., Kluitenberg, G. J., Oviatt, C. G., Peterson, J. M., Reddi, L. N. and Welch, S. M., High Plains Aquifer Hydrologic Observatory: Prospectus, Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (online at www.cuahsi.org), July 29, 2004
- Steward, D. R., Bernard, E. A., Bloomquist, L. E., Oviatt, C. G., Peterson, J. M. and Welch, S. M., Consortium for Global Research on Water-Based Economies (GRoWE), Congressional Action Summary, at the request of Kansas State University Administration and Congressional Delegation for submission to United States Congress, January 28, 2004.
- Steward, D. R. and Bernard, E. A., Understanding integrated processes through groundwater models and GIS technology, MODFLOW and More 2003: Understanding through Modeling, Conference Proceedings, volume 2, p. 466, Golden, CO, September 16-19, 2003.
- Steward, D. R., Bernard, E. A., Bloomquist, L. E., Oviatt, C. G., Peterson, J. M. and Welch, S. M., Research on Groundwater Based Economies, 20th Annual Water and the Future of Kansas Conference, Manhattan, KS, March 11, 2003, page 41-42.
- Steward, D. R., Bernard, E. A., Oviatt, C. G., and Peterson, J. M., The hydrologic and socioeconomic impacts of groundwater management strategies addressing sustained groundwater decline in the High Plains Aquifer, 19th Annual Water and the Future of Kansas Conference, Lawrence, KS, March 5, 2002, pages 39-40.
- Bernard, E. A., The National CAD Standard, *Landscape Architect and Specifier News*, March 2001.

Peer Reviewed Presentations

- Kersey, D.N., Bernard, E.A., Improving Landscape Architectural Problem Solving: Integrating GIScience and Technology Educational Objectives in Landscape Architecture Curricula, CELA, Tucson, AZ, January 14-19, 2009.
- Bernard, E.A., Uniting Disciplines for Water Resources Management, Mid-America GIS Consortium MAGIC 2008 Conference, Kansas City, Missouri, April 24, 2008.
- Kulcsár, L.J., Bernard, E.A., Hyperextraction, Path Dependence and Community: Social Transformation and Land Use Change in Western Kansas, 13th International Symposium on Society and Resource Management (ISSRM), International Association for Society and Natural Resources, Park City, UT, June 17-21, 2007.
- Steward, D. R., Bernard, E.A., Science to aid policy makers, communities and land owners-managers, NSF EPSCoR Annual Meeting, Washington, D. C., March 5-7, 2007.
- Bulatewicz, T., Peterson, J. M., Steward, D. R., Bernard, E. A., Andresen, D. and Welch, S. M., Exploring ecological change in a virtual landscape, KS NSF EPSCoR Annual Meeting, Manhattan, KS, April 21, 2007.
- Kulcsár, L.J., Bernard, E.A., Globalization through the backdoor: Uneven development in rural Kansas, 69th Annual Meeting of the Rural Sociological Society, Louisville, KY, August 10-13, 2006.
- Bernard, E.A., Andresen, D.A., Erickson, L.A., Linking EKAT Chemical Information to Geodatabase Features via Web Services, 26th Annual ESRI International User Conference, San Diego, CA, August 7-11, 2006.
- Bernard, E.A., The Future of AEM: GIScience Connections, Closing Panelist, International Conference on the Analytic Element Method (ICAEM), Manhattan, KS, May 17, 2006
- Bernard, E.A., Kulcsar, L.J., Rogers, D.H., Where Did All the Irrigators Go?, Central Plains Irrigation Association Conference Presentation and Paper in Proceedings, Colby, KS, February 21-22, 2006.
- Steward, D.R., Andreson, D.A., Bernard, E.A., Peterson, J.M., Welch, S.M., Global Research on Water-Based Economies: Positioning Kansas For Non-EPSCoR Funding, NSF EPSCoR, June 2005.
- Bernard, E. A., Steward, D. R., and Le Grand, P., A Geodatabase for Groundwater Modeling in MLAEM and MODFLOW, 25th Annual ESRI International User Conference, San Diego, CA, ESRI Press, July 22-29, 2005.
- Bernard, E.A., Harrington, J.A., Hutchinson, J.M., Kastner, C.L., Vanier, M., Stack, J.M., DeGroot, B.D., Reese, J.C., Protecting Public Health and Food Supplies: GIScience Research for Understanding Plant, Animal, and Biohazard Interactions, University Consortium for Geographic Information Science Congressional Breakfast hosted by Senator Clinton (NY) and Representatives Maloney (NJ) and Shays (CT), Washington, D.C., February 10, 2005.
- Bernard, E. A., Peterson, J.M., and Steward, D.R., A Coupled Hydrologic-Economic Modeling Tool to Support Groundwater Management Decisions, 2004 High Plains Groundwater Resources: Challenges and Opportunities, Lubbock, TX, December 7-9, 2004.
- Bernard, E. A. and Pilger, C., Fusion: Immersive Visualization Environments and Your Office, ASLA Annual Meeting and Expo, New Orleans, LA, October 31-November 2, 2003.
- Bernard, E. A., Imprints and Footprints: The Landscape of the High Plains Aquifer Region of Kansas, Council of Educators in Landscape Architecture (CELA), September 2003.
- Steward, D. R. and Bernard, E. A., Understanding Integrated Processes through Groundwater Models and GIS Technology, MODFLOW and MORE 2003: Understanding through Modeling, September 17-19, 2003.
- Steward, D. R. and Bernard, E. A., Research on Groundwater Based Economies, Kansas Statewide EPSCoR Conference, University of Kansas, Lawrence, KS, April 8, 2003.
- Steward, D. R., Bernard, E. A., Bloomquist, L. E., Oviatt, C. G., Peterson, J. M. and Welch, S. M., Research on Groundwater Based Economies, 20th Annual Water and the Future of Kansas Conference, Manhattan, KS, March 11, 2003.
- Steward, D. R., Bernard, E. A., Oviatt, J. and Peterson, J. M., The hydrologic and socioeconomic impacts of groundwater management strategies addressing sustained groundwater decline in the High Plains Aquifer, 19th Annual Water and the Future of Kansas Conference, Lawrence, KS, March 5, 2002.
- Bernard, E. A., The Millennials' Studio: A Charette for Those Who Teach and Value the Pencil as Much as Technology, Council of Educators in Landscape Architecture, August 2001.
- Bernard, E. A., Sustaining the Family Farm/Ranch Landscape: A Geospatial Technology (GST) Approach, Council of Educators in Landscape Architecture (CELA), August 2001.
- Bernard, E. A., The Studio, the Process of Landscape Architecture, and Technology, Council of Educators in Landscape Architecture (CELA), August 2000.

Funded Research and Professional Proposals

Bernard, E. A., 3D Geodatabase Development, Prairie Band Potawatomi Nation, Mayetta, KS, 2002, \$12,000.	\$	12,000
Bernard, E. A., Day, D. J., Manhattan Church of Christ Master Plan and Construction Documents, Manhattan, KS, 2003, \$2500.	\$	2,500
Bernard, E. A., Hutchinson, J. M., Developing Maps Depicting Health Plans Offered to Union Pacific Non-agreement Employees, PI, Union Pacific Railroad, 2001, \$1500.	\$	1,500
Bernard, E. A., McKenney Enterprises: Implementing Case Study Results on Sustaining the Family Farm and Ranch Applying Geospatial Technologies, PI, 2000-2001, \$1000.	\$	1,000
Borchures, V., Bernard, E.A., KSU CAPD Visualization and Immersion Lab, Elumens Corporation, 2001, \$500,000.	\$	500,000
Steward, D. R. and Bernard, E. A., Data model and implementation in ArcGIS for MLAEM (Multi-Layer Analytic Element Model), CoPI, RIZA (Institute for Inland Water Management and Waste Water Treatment), The Netherlands, October 15, 2004-August 30, 2005, \$25,497.	\$	25,497
Steward, D. R. and Bernard, E. A., Prototyping connectivity of data and models in Sheridan County Study Region, Northwestern Kansas to address groundwater declines, CoPI, NSF EPSCoR, June 1, 2002 through August 31, 2002, \$19,887.	\$	19,887
Steward, D. R. and Bernard, E. A., Second Place Poster Prize, PI & Graphic Designer, NSF EPSCoR, April 8, 2003, \$500.	\$	500
Steward, D. R., Bernard, E. A., Stone, L. R., Unger, E. A. and Welch, S. M., Ogallala Aquifer Initiative: Hydrology/Climatology GIS Database Assembly, Management and Serving, CoPI, USDA/ARS, October 1, 2003 through September 30, 2005, \$37,980.	\$	37,980
Steward, D. R., Bernard, E. A., Stone, L. R., Unger, E. and Welch, S. M., Ogallala Aquifer Initiative: Hydrology/climatology, CoPI, USDA/ARS, October 1, 2003-September 30, 2008, \$108,409.	\$	108,409
Steward, D. R., Bernard, E. A., Bloomquist, L. E., Oviatt, C. G., Peterson, J. M. and Welch, S. M., Planning Grant: Establishing A Center for Research on Groundwater Based Economies, CoPI, NSF EPSCoR, March 1, 2003 through February 28, 2005, \$83,125.	\$	83,125
Steward, D. R., Bloomquist, L. E., Welch, S. M., Aistrup, J. A., Bernard, E. A., Clark, G. A., Dodds, W. K., Harrington, J. A., Hsu, W. H., Keller, J. W., Oviatt, C. G., Peterson, J. M., Staggenborg, S. A. and Thurston, L. P. Consortium for Global Research on Water-Based Economies (GRoWE) "Scientific Discovery of Socio-Economic and Natural Processes Associated with Water", Co-Author/Team Member, K-State Targeted Excellence Phase I, July 1, 2004-June 30, 2007, \$300,000.	\$	300,000
Unger, E.A., Hutchinson, J.M., Harrington, J.A., Bloomquist, L.E., Bernard, E.A., Brooks, K.B., Erickson, L.A., Gould, R.A., Hubbard, M.S., Koelliker, J.K., Knapp, M.C., Ransom, M.D., Reese, J.C., Townsend, H.C., Starrett, S.K., von Bergen, D., GIScience Infrastructure Enhancement Project, Key Collaborator, K-State Targeted Excellence Phase I, 2004, \$330,000.	\$	330,000
Steward, D.R., Blair, J.M., Koelliker, J.K., Bernard, E.A., Dodds, W.K., Ham, J.M., Harrington, J.A., Kluitenberg, G.J., Leatherman, J.C., Monaco, G., Oviatt, C.G., Peterson, J.M., Reddi, L.N., Welch, S.M., Strategically Positioning K-State to Benefit from NSF's CUAHSI and NEON Programs, Team Member, K-State Targeted Excellence Phase II, 2005, \$381,790.	\$	381,790
Steward, D.R., Bernard, E.A., Chubb, R.M., Stone, L.R., Welch, S.M., Ogallala Initiative, Hydrology/Climatology Data Integration, Organization, Integrity and Web Serving, CoPI, USDA ARS Proposal, 2006-2008, \$146,383.	\$	146,383
Hutchinson, J.M.S., J.A. Harrington, Jr., Geospatial Technology Infrastructure Enhancement Program – Phase II, Key Collaborator, K-State Targeted Excellence Phase II, 2005, \$550,000.	\$	550,000
Hutchinson, J.M.S., E. Bernard, and D. Andresen. 2005. GIS Functionality for the Environmental Knowledge and Assessment Tool (EKAT), CoPI, Center for Hazardous Substance Research (Urban Operations Environmental Laboratory) and M2 Technologies, \$99,203.	\$	99,203
Dodds, W. K., Blair, J. M., Harrington, J. A., Steward, D. R., Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains, co-PI, NSF EPSCoR, May 1, 2006-March 31, 2009, \$3,498,914 (\$915,279 under GRoWE subcontract Co-PI).	\$	915,279
Bernard, E.A., Mayberry, J., Bluemont Elementary Playground: Waste Tire Derived Products, Kansas Department of Health and Environment, August 2007-August 2008, \$44,012.	\$	44,012
Aistrup, J., Peterson, J. M., Kulcsar, L., Bernard, E. A., and Steward, D. R., Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer, Co-PI, NSF CNH, October 1, 2009-May 31, 2011, \$1,499,999.	\$	1,499,999
Mulligan, K., Bernard, E.A., Barbato, L., Development of a Unified Map Service and Creation of Updated Geodatabase Layers and Maps of the Ogallala Aquifer, USDA-ARS Ogallala Aquifer Program, Co-PI, October 1, 2009-September 30, 2010, \$85,367.	\$	85,367
Total Funding by Category	\$5,084,919	\$ 59,512
Total Research and Professional Project Funding		\$5,144,431

Research and Professional Proposals

Borchers, V., Bernard, E.A., KSU CAPD Visualization and Immersion Lab, Elumens Corporation, 2001, \$750,000.	\$ 750,000
Darling, D., Lu, M., Brooks, K. B., Bernard, E. A., What Organizational Infrastructures are Working in Rural Kansas, CoPI, Kansas Agriculture Experiment Station Social Science Research Grant, 2001, \$19,770.	\$ 19,770
Bernard, E. A., Hutchinson, J. M., Developing a GeoDatabase Capable of Evaluating Existing Workforce Assets and Modeling Future Workforce Assets by Geographic Location, PI, Union Pacific Railroad, 2001, \$84,825.	\$ 84,825
Bernard, E. A., Hutchinson, J. M., Developing Maps Depicting Health Plans Offered to Union Pacific Non-agreement Employees, PI, Union Pacific Railroad, 2001, \$1500.	\$ 1,500
Bernard, E. A., Developing a 3D Geodatabase, PI, Prairie Band Potawatomi Nation, Mayetta, KS, 2001-2002, \$12,000.	\$ 12,000
Steward, D.R., Bernard, E.A., Peterson, J.M., Sustained Groundwater Decline in the High Plains Aquifer, CoPI, AWWA, 2002, \$149,883.	\$ 149,883
Steward, D.R., Bernard, E.A., Bloomquist, L.E., Peterson, J. M. and Welch, S. M., BE/CNH: Integrated Impacts of Water-Use Practices on Dynamic Natural-Human Systems, CoPI, NSF (Favorably Reviewed), 2002, \$1,999,679.	\$ 1,999,679
Steward, D.R., Bernard, E., A., Bloomquist, L.E., Oviatt, C. G., Peterson, J. M. and Welch, S. M., Thurston, L.M., IGERT: Integrated Traineeship in Managing Water Resources within Dynamic Natural-Human Systems, CoPI, NSF (Favorably Reviewed), 2002, \$3,396,710.	\$ 3,396,710
Steward, D.R., Bloomquist, L.E., Peterson, J.M., Thurston, L.M., Welch, S.M., Aistrup, J.A., Bernard, E.A., Clark, G.A., Dodds, W.K., Harrington, J.A., Hsu, W.H., Mahoney, J., and Oviatt, C.G., IGERT: Global Research on Water-Based Economies: A Cooperative Learning Immersion Experiment, CoPI, NSF (Favorably Reviewed), 2004, \$3,399,998.	\$ 3,399,998
Bohring, G.C., Buddemeier, R.W., Hsu, W.M., Wilson, B.B., Bernard, E.A., Steward, D.R., STARWARD: Analytical Tools for Validation and Visualization of Water Resource Databases, Senior Personnel, NSF, 2002.	
Bohring, G.C., Buddemeier, R.W., Hsu, W.M., Wilson, B.B., Bernard, E.A., Steward, D.R., STARWARD: Software Tools for Assessment of Resources using Well and Aquifer Regional Databases, Senior Personnel, NSF, 2004, \$390,406.	\$ 390,406
Steward, D. R. and Bernard, E. A., Prototyping connectivity of data and models in Sheridan County Study Region, Northwestern Kansas to address groundwater declines, CoPI, NSF EPSCoR, June 1, 2002 through August 31, 2002, \$83,116.	\$ 83,116
Steward, D. R., Bernard, E., A., Bloomquist, L. E., Oviatt, C. G., Peterson, J. M. and Welch, S. M., Establishing A Center for Research on Groundwater Based Economies, CoPI, NSF EPSCoR, March 1, 2002 through February 28, 2005, \$894,886.	\$ 894,886
Steward, D. R., Bernard, E. A., Stone, L. R., Unger, E. A. and Welch, S. M., Ogallala Aquifer Initiative: Hydrology/Climatology GIS Database Assembly, Management and Serving, PI, USDA/ARS, October 1, 2003 through September 30, 2005, \$108,409.	\$ 108,409
Bernard, E. A., Day, D. J., Manhattan Church of Christ Master Plan and Construction Documents, PI, Manhattan, KS, 2003, \$2500.	\$ 2,500
Steward, D.R., Bernard, E.A., Bloomquist, L.E., Oviatt, C. G., Peterson, J. M. and Welch, S.M., CoAuthor/Team Member, K-State Provost's Targeted Excellence Phase I, Consortium for Global Research on Water-Based Economies, February 17, 2004, \$2,003,591.	\$ 2,003,591
Petersen, J. M., Bloomquist, L. E., Aistrup, J. E., Bernard, E. A., Steward, D. R., Use and Nonuse Values of Water: Implications for Rural Development in the Great Plains, CoPI, USDA/NRI, November 2004-October 2006, \$359,544.	\$ 359,544
Steward, D.R., Blair, J.M., Koelliker, J.K., Bernard, E.A., Dodds, W.K., Ham, J.M., Harrington, J.A., Kluitenberg, G.J., Leatherman, J.C., Monaco, G., Oviatt, C.G., Peterson, J.M., Reddi, L.N., Welch, S.M., Strategically Positioning K-State to Benefit from NSF's CUAHSI and NEON Programs, Team Member, K-State Provost's Targeted Excellence Phase II, 2005, \$381,790.	\$ 381,790
Leatherman, J.C., Mankin, K.R., Peterson, J.M., Barden, C.J., Bernard, E.A., Bernardo, D.J., Cable, T.T., Devlin, D.L., Hutchinson, J.M., Keane, T.D., Langemeier, M.R., Middendorf, G.D., Nelson, R.G., Warner, T.D., Williams, J.R., Watershed Assistance & Technical Education Resource (WATER) Collaborative, Collaborator, K-State Provost's Targeted Excellence Phase II, 2005, \$2,657,884.	\$ 2,657,884

Steward, D.R., Bernard, E.A., Chubb, R.M., Stone, L.R., Welch, S.M., Ogallala Initiative, Hydrology/Climatology Data Integration, Organization, Integrity and Web Serving, CoPI, USDA ARS Proposal, 2006-2008, \$146,383.	\$ 146,383
Steward, D.R., Andreson, D.A., Bernard, E.A., Peterson, J.M., Welch, S.M., Global Research on Water-Based Economies: Positioning Kansas For Non-EPSCoR Funding, CoPI, NSF EPSCoR, 2005, \$3,910,247.	\$ 3,910,247
Bloomquist, L.E., Aistrup, Bernard, E.A., Peterson, Steward, D.R., Prospects for Diminished Groundwater Use in the Kansas Ogallala Region: Assessing Current Attitudes and Exploring Future Possibilities, CoPI, KWRI, 2004, \$35,000.	\$ 35,000
Unger, E.A., Hutchinson, J.M., Harrington, J.A., Bloomquist, L.E., Bernard, E.A., Brooks, K.B., Erickson, L.A., Gould, R.A., Hubbard, M.S., Koelliker, J.K., Knapp, M.C., Ransom, M.D., Reese, J.C., Townsend, H.C., Starrett, S.K., von Bergen, D., GIScience Infrastructure Enhancement Project, Key Collaborator, K-State Targeted Excellence Phase I, 2004, \$2,165,233.	\$ 2,165,233
Hutchinson, J.M.S., E. Bernard, and D. Andresen. 2005. GIS Functionality for the Environmental Knowledge and Assessment Tool (EKAT), CoPI, Center for Hazardous Substance Research (Urban Operations Environmental Laboratory) and M2 Technologies, \$99,203.	\$ 99,203
Bernard, E.A., Hutchinson, J.M.S., Gould, R.A., GIScience Commons Portal Proposal, K-State VPAST, November 2005, Principal Author, \$2,450,000.	\$ 2,450,000
Hutchinson, J.M.S., J.A. Harrington, Jr., Geospatial Technology Infrastructure Enhancement Program – Phase II, Key Collaborator, K-State Targeted Excellence Phase II, 2005, \$550,000.	\$ 550,000
Dodds, W. K., Blair, J. M., Harrington, J. A., Steward, D. R., Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains, co-PI, NSF EPSCoR, May 1, 2006-March 31, 2009, \$3,498,914 (coordinating \$915,279 under GRoWE).	\$ 3,498,914
Steward, D. R., Chandler, D. G., Kelly, E., Macpherson, G., Martinko, E., Mid-continental Critical Zone Observatory (McCZO), PI, NSF CZO, letter of intent, October 2, 2006.	
Welch, S. M., Bernard, E. A., Kulcsar, L, Peterson, J. M. and Steward, D. R., Changing Paths of Land-,Water-, and Resource-Use in the Central Plains, co-PI, NSF CNH, June 1, 2007 –May 30, 2010, \$1,500,000.	\$ 1,500,000
Steward, D. R., Chandler, D. G., Kelly, E., Macpherson, G., Martinko, E., Mid-continental Critical Zone Observatory (McCZO), PI, NSF CZO, June 1, 2007 – May 31, 2012, \$4,250,000.	\$ 4,250,000
Kulcsar, L., Aistrup, J., Bernard, E. A., Peterson, J. M., and Steward, D. R., Hyper-extraction, carrying capacity and community sustainability: Social transformation and resource dependence in Western Kansas, co-PI, NSF HSD, \$750,000.	\$ 750,000
Steward, D. R., Kulcsar, L., Martinko, E., Thurston, L. P., and Welch, S. M., Scientific Responses to Water Scientific Responses to Water Resources Issues in Information Resources Issues in Information- Rich Environments , NSF IGERT, June 1, 2008 – May 31, 2013, \$3,000,000.	\$ 3,000,000
Bernard, E.A., Mayberry, J., Bluemont Elementary Playground: Waste Tire Derived Products, Kansas Department of Health and Environment, August 2007-August 2008, \$44,012.	\$ 44,072
Aistrup, J., Peterson, J. M., Kulcsar, L., Bernard, E. A., and Steward, D. R., Hyper-extractive Economies and Sustainability: Policy Scenarios for Sustainable Water Use in the High Plains Aquifer, Co-PI, NSF CNH, June 1, 2009-May 31, 2011, \$1,499,999.	\$ 1,499,999
Mulligan, K., Bernard, E.A., Barbato, L., Development of a Unified Map Service and Creation of Updated Geodatabase Layers and Maps of the Ogallala Aquifer, USDA-ARS Ogallala Aquifer Program, Co-PI, October 1, 2009-September 30, 2010, \$85,367.	\$ 85,367
Total Amount of Research and Professional Proposals	\$ 40,680,909

Invited Research and Professional Presentations

- Bernard, E.A., Climate Change and Water Resource Systems in Kansas: Desired Future?, Water Issues Forum: Water and Climate, Kansas Water Office, Sedwick County Extension Education Center, Wichita, KS, December 9, 2009.
- Bernard, E.A., Research and Information Needs in Addressing Sedimentation and Eutrophication of Reservoirs in the Context of Climate Change, From Dust Bowl to Mud Bowl: Sedimentation, Conservation Measures and the Future of Reservoirs, September 16, 2009.
- Bernard, E.A., Kansas Climate Changes Desired Future?, 2009 REAP Regional Water Conference, Hutchinson, KS, May 28, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Zeandale, KS, April 14, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Ogden, KS, April 16, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Ashland, KS, April 20, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Riley, KS, April 21, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Randolph, KS, April 23, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Leonardville, KS, April 28, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Manhattan, KS, April 30, 2009.
- Wedel, M., Proctor, D., Kahl, D., McCants, T., Bernard, E.A., Riley County Vision 2025 Public Meeting, Keats, KS, May 5, 2009.
- Bernard, E.A., Kansas Climate Changes Desired Future?, 26th Water and Future of Kansas Conference, Topeka, KS, March 26, 2009.
- Bernard, E.A., Charrette Team Leader, EPA Brownfields Charrette, Manhattan, KS, September 10, 2008.
- Bernard, E.A., Information, Cyberinfrastructure and Databasing to Support Ecological Modeling, Ecoforecasting Annual Meeting, Lawrence, KS, April 18-19, 2008.
- Bernard, E.A., Keynote Address-Water Management: Teamwork & Resources, Kansas Association of Floodplain Managers, Salina, KS, September 2-3, 2008.
- Bernard, E.A., Professional Development Lecture- LiDAR: What is it? What is its Potential? How does one get started?, Kansas Water Office with KDHE and KS DWR, June 10, 2008.
- Bernard, E.A., Steward, D.R., Chubb, R.M., Staggenborg, S.A., Welch, S.M., Research Update: Ogallala Initiative, Hydrology/Climatology Data Integration, Organization, Integrity and Web Serving for Modeling, USDA ARS Ogallala Initiative Conference, Amarillo, Texas, March 11-13 2008.
- Ecoforecasting Modeling Symposium II, February 27, 2008.
- Ecoforecasting Modeling Symposium I, December 17, 2007.
- Bernard, E.A., GIS Day: Where's Bob?, Bluemont Elementary School, Manhattan, KS, November 14, 2007.
- Bernard, E.A., Kersey, D. Nathaniel, LiDAR Potential in Kansas, LiDAR Working Group, Eisenhower Office Building, Topeka, KS, November 3, 2007.
- Bernard, E.A., Kersey, D. Nathaniel, LiDAR Potential and GIScience Future in Kansas, Kansas GIS Policy Board, November 2007.
- Bernard, E.A., CAPD Information Technology Plan Update, CAPD EXCOM, October 25, 2007.
- Bernard, E.A., GIScience and LiDAR Overview, Meeting with State GIS Director Ivan Weikert, October 18, 2007.
- GRoWE Consortium, Research Overview, GMD #1/#3 (David Brenn and Mark Rude), Manhattan, June 15, 2007.
- GRoWE Consortium, Research Overview, DWR (Kelly Warren), Manhattan, June 15, 2007.
- Harrington, J., Bernard, E.A., Hutchinson, J.M.S., GIScience and IT Infrastructure for K-State, Provost, VPAST, Associate VPAST, Kstate IT Heads, June 13, 2007.
- LAR 758 Environmental Landscape Planning and Design with PLAN 836 Community Plan Preparation, Dickinson County Comprehensive Plan Final Presentation, May 1, 2007.
- Ecoforecasting Symposium, April 21, 2007.
- Bernard, E.A., GRoWE Overview, Jack Dangermond ESRI, President, Kansas State University, March 8, 2007.
- LAR 758 Environmental Landscape Planning and Design with PLAN 836 Community Plan Preparation, Dickinson County Comprehensive Plan Community Focus Group, Chapman, KS, February 21, 2007.
- LAR 758 Environmental Landscape Planning and Design with PLAN 836 Community Plan Preparation, Dickinson County Comprehensive Plan Community Focus Group, Herrington, KS, February 6, 2007.

Bernard, E.A., The Future of AEM: GIS, Closing Panelist, International Conference on the Analytic Element Method (ICAEM), Manhattan, KS, May 17, 2006

Bernard, E.A., Hutchinson, J.M.S., GIScience in Ag-Bio and Water Security, MidAmerica GIS Symposium, Kansas City, Missouri, April 23-27, 2006.

Bernard, E.A., Kulcsar, Kansas Water Office, March 10, 2006.

Bernard, E.A., Andresen, D.A., Hutchinson, J.M.S., Erickson, L., Vanjaku, B., Keserwani, A., Whitely, C., Poster: Linking EKAT Chemical Information to Geodatabase Features via Web Services, U.S. Marine Corps IPR, January, 25, 2006.

Bernard, E.A., Landscape Architecture, Planning and GIScience in Community Decision Making, Phillips County and Phillipsburg Re-Development Delegation, Kansas State University, January 17, 2006.

Bernard, E.A., Landscape Architecture and Planning, CAPD Career Exploration Day, January 14, 2006.

Bernard, E.A., Landscape Architecture and Planning, Survey of the Design Professions, December 1, 2005.

Bernard, E.A., K-State GIScience Commons, Kansas GIS Policy Board, Kansas State University, November 18, 2005.

GROWE Consortium, Bernard, E.A., Steward, D.R., Peterson, J.M., Welch, S.A., GROWE Overview, Governor Jim Gehringer-Past Wyoming and Director of Policy and Governmental Relations ESRI, November 17, 2005.

Bernard, E.A., K-State GIScience Commons, GIScience Commons Dedication Ceremony, Kansas State University, November 17, 2005.

Bernard, E.A., The Consortium for Global Research on Water-Based Economies (GRoWE), 4th Annual KU GIS Day Symposium, University of Kansas, November 16, 2005.

GROWE Consortium, Bernard, E.A., Steward, D.R., Peterson, J.M., Welch, S.A., GROWE Collaboration Options, Kansas Farm Bureau Executives, October, 2005.

Bernard, E.A., The GRoWE Approach to High Plains Aquifer Research, Farm Bureau Seven State High Plains Aquifer Summit, Selected to present for Kansas by the Kansas Farm Bureau, Kansas City, MO, September 6-7, 2005.

Bernard, E.A., GRoWE: GIS Integration and Development, Kansas GIS Policy Board, May 13, 2005.

Bernard, E.A., GIScience in Community Environmental Decision Making, EPA Funded Community Environmental Decision Making Institute, Rock Springs 4-H Camp, Junction City, Kansas, May 5-7, 2005.

Bernard, E.A., Steward, D.R., USDA ARS Hydrology/Climatology Working Group, 4 hour work session, Lubbock, Texas, July 13, 2005.

Bernard, E.A., Steward, D.R., GRoWE Consortium, Groundwater Management District #1, 1.5 hour presentation to Manager & Senior staff, Garden City, Kansas, July 12, 2005.

Bernard, E.A., Steward, D.R., GRoWE Consortium, Groundwater Management District #3 and #4, 2 hour presentation to Managers, Colby, Kansas, June 28, 2005.

Bernard, E.A., Steward, D.R., GRoWE: GIS Integration and Development, Kansas Water Office, Topeka, Kansas, May, 2005.

GROWE Consortium, Bernard, E.A., Steward, D.R., Peterson, J.M., Welch, S.A., GROWE Overview, Keith C. Clarke, UCSB and San Diego Super Computing, Kansas State University, April 14, 2005.

Bernard, E.A., Steward, D.R., Chubb, R.M., Research Update: Ogallala Initiative, Hydrology/Climatology Data Integration, Organization, Integrity and Web Serving, USDA ARS Ogallala Initiative Conference, Garden City, Kansas, March 2005.

GROWE Consortium, (Bernard, E.A., Steward, D.R., Peterson, J.M., Welch, S.A.), GROWE Overview, Kansas Farm Bureau Executives, November 27, 2004.

Bernard, E.A., GROWE Research, KCRI Board, November 5, 2004.

Bernard, E.A., GROWE Symposium Organizer and Master of Ceremonies, November 5, 2004.

Bernard, E. A., GROWE Research to Frank and Deborah Popper, February 11, 2004.

Bernard, E. A., PGASLA Links Luncheon, GIS Technology, Kansas City, MO, October 9, 2003.

GRoWE Consortium, Kansas Geological Survey, 2 hour discussion with State Geologist Lee Allison and Vice Provost Elizabeth Unger to coordinate sharing GIS data across institutions, September 2003.

Bernard, E. A., Kansas Streamlink, presentation to regional high school participants concerning professions that impact water and watershed planning, Wamego, KS, April 9, 2003.

Bernard, E. A., Manhattan Church of Christ, 3 meetings to discuss expansion plans, April 2003-January 2004.

GRoWE Consortium, Kansas Water Office, 1 hour discussion with new Directory (Joe Harkins) Topeka, KS, May 7, 2003.

Steward, D. R., Bernard, E. A., Hoxie Citizen's Group, 3 hour presentation, Hoxie, KS, December 17, 2002.

GRoWE Consortium, Kansas Biological Survey, 1.5 hour discussion, Lawrence, KS, October 16, 2002.

GRoWE Consortium, Kansas Geological Survey and Kansas Biological Survey, 2 hour discussion, Lawrence, KS, August 22, 2002.

GRoWE Consortium, Great Plains Foundation, 2 hour discussion with Founders, Dodge City, KS, August 14, 2002.

GRoWE Consortium, Ogallala Aquifer Institute, 2 hour presentation to Advisory Committee, Garden City, KS, August 14, 2002.

GRoWE Consortium, Groundwater Management District #3, 1 hour presentation to Board of Directors, Garden City, August 14, 2002.

GRoWE Consortium, Kansas Geological Survey and Kansas Biological Survey, 2 hour presentation, Lawrence, KS, July 16, 2002.

Division of Water Resources, Dept. of Agriculture, 2 hour presentation, Topeka, KS, July 15, 2002.

GRoWE, Kansas Water Office, 1 hour presentation, Topeka, KS, July 15, 2002.

GRoWE Consortium, Groundwater Management District #4, 2 hour presentation to Board of Directors (discussion with KSU on Modeling Proposal), Colby, KS, June 13, 2002.

GRoWE Consortium, Kansas Geological Survey and Kansas Biological Survey, 2 hour presentation, Lawrence, KS, May 15, 2002.

GRoWE Consortium, Kansas NSF EPSCoR, Major Initiative presentation, Topeka, KS, April 6, 2002.

GRoWE Consortium, Kansas Geological Survey, 4 hour discussion to coordinate proposals, Lawrence, KS, January 14, 2002

GRoWE Consortium, Kansas Geological Survey, 5 hour meeting including 1 hour presentation to discuss collaborative research, Lawrence, KS, December 7, 2001.

GRoWE Consortium, Teleconference presentation of data needs for research proposal to Groundwater Management District #4 Board of Directors, November 8, 2001.

GRoWE Consortium, Proposal for development of a coupled hydrologic-economic model with GIS support, presented to the Ogallala Management Committee, Garden City, KS, September 20, 2001.

GRoWE Consortium, Kansas Water Office, 4 hour meeting to discuss research, August 24, 2001.

GRoWE Consortium, Strategy for development of a coupled hydrologic-economic model with GIS support, presented to the Ogallala Management Committee, Colby, KS, July 26, 2001.

GRoWE Consortium, Presentation of research proposal to Board of Directors, Groundwater Management District #3, Garden City, KS, July 11, 2001.

GRoWE Consortium, Groundwater Management District #5, 3 hour meeting to discuss research opportunities, Stafford, KS, July 10, 2001.

GRoWE Consortium, Groundwater Management District #3, 2 hour meeting to discuss research opportunities, Garden City, KS, June 28, 2001.

GRoWE Consortium, Groundwater Management District #1, 2 hour meeting to discuss research opportunities, Scott City, KS, June 27, 2001.

GRoWE Consortium, Groundwater Management District #4, 2 hour meeting to discuss research opportunities, Colby, KS, June 27, 2001.

GRoWE Consortium, Kansas Water Office, 30 minute presentation on research, Topeka, KS, June 11, 2001.

Bernard, E. A., Prairie Band Potawatomi Nation, 8 meetings to discuss reservation geodatabase and tribal development imagery, Mayetta, KS, June 2001-January 2002.

Bernard, E. A., Hutchinson, J. M., GeoSpatial Technology (GST) Applications and Possibilities for the UPRR presentation to mid-level directors and managers assigned to the Work Force Asset Planning and Management Teams, and Communications Team, Union Pacific Railroad, Omaha, NE, 2001.

Conference Participant

Water Issues Forum: Water and Climate, Kansas Water Office, Sedwick County Extension Education Center, Wichita, KS, December 9, 2009.

From Dust Bowl to Mud Bowl: Sedimentation, Conserveration Measures and the Future of Reservoirs, September 14-16, 2009.

2009 REAP Regional Water Conference, Hutchinson, KS, May 28, 2009.

USDA Ogallala Aquifer Initiative Annual Meeting, USDA-ARS, Garden City, KS, March 11-13, 2009.

UCGIS Winter Meeting, Washington, DC, February 5-9, 2009.

CELA, Tucson, AZ, January 14-19, 2009.

Autodesk University, Las Vegas, NV, December 1-6,2008.

Assessment Showcase, K-State, Manhattan, KS, October 24, 2008.

EPA Brownfields Charrette, Manhattan, KS, September 10, 2008.

Kansas Association of Floodplain Mappers and Managers, Salina, KS, September 2-3, 2008.

UCGIS Summer Assembly, Minneapolis, MN, June 23-25, 2008.

Professional Development Series, Kansas Water Office with KDHE and KS DWR, June 10, 2008.

Rainwater, Republican Watersheds LiDAR Acquisition Meeting, Lincoln, NE, May 6, 2008.

MAGIC 2008, Kansas City, MO, April 21-24, 2008

Ecoforecasting Annual Meeting, Lawrence, KS, April 18-19, 2008.

Center for Engagement and Community Development Board Meeting, Manhattan, KS, April 14, 2008.

Targeted Excellence Review Panel, Manhattan, KS, April 11, 2008.

Flint Hills Ecology Retreat, Pawnee, OK and Manhattan, KS, April 2-3, 2008.

Ecoforecasting Meeting, Lawrence, KS, February 27, 2008.

USDA Ogallala Aquifer Initiative Annual Meeting, USDA-ARS, Amarillo, TX, March 11-13, 2008.

UCGIS Winter Meeting, Washington, DC, February 8-9,2008.

Saguache Comprehensive Plan Development, Saguache, CO, January 10, 2008.

Community Viz and Chip Game Training, Lyons and Saguache, CO, January 7-11, 2008.

GRoWE Symposium: Water Policy and Management in Kansas, David L. Pope(Ex.Director Missouri River Association of States and Tribes and former Chief Engineer Kansas Division of Water Resources), November 9, 2007.

GRoWE Symposium: Biofuels and Water: Will the two mix?, Ray Hammarlund (Director Kansas Energy Office) Susan Stover (Planning Manager Kansas Water Office), October 26, 2007.

CECD Engagement Symposium, October 11, 2007.

GRoWE Symposium: Water and Ethanol: Two Simple Molecules at the Core of a Very Complex Biofuels Revolution, Mary Rezac (Professor and Head Department of Chemical Engineering K-State), October 5, 2007.

GRoWE Symposium: Ecological Forecasting: Building Infrastructure for the Great Plains, Walter K. Dodds (Professor of Biology K-State), September 21, 2007.

CESAS Sustainability Workshop, Manhattan, KS, July 19-20, 2007.

LiDAR Explorer Web Training, July 26, 2007.

USGBC Webcast on Zero Carbon, Internet, June 28, 2007.

CAPD Building Charette, Manhattan, KS, June 14, 2007.

2010 Imperative: Global Climate Change, Webinar, USGBC, K-State, February 20, 2007.

LiDAR Workshop, US Army Corps of Engineers and USGS, Lawrence, Kansas, January 17, 2007.

Community Viz Training, Host, Kansas State University, September 6-8, 2006.

ESRI International User Conference, August 7-11, 2006.

ICAEM, Manhattan, Kansas, May 15-17, 2006.

Mid-America GIS Symposium, Kansas City, KS, April 23-27, 2006.

Water and the Future of Kansas, Topeka, KS, March 16, 2006.

Central Plains Irrigation Association Conference, Colby, KS, February 21-22, 2006.

GRoWE Symposium II, Kansas State University, January 24, 2006.

ESRI International User Conference, July 22-29, 2005.

AUGI CAD Camp, Omaha, Nebraska, May 10, 2005.

Ogallala Aquifer Initiative, USDA ARS, Garden City, Kansas, March 2005.

High Plains Groundwater Resources: Challenges and Opportunities, Lubbock, TX, December 2004.
Water and the Future of Kansas, Lawrence, KS, March 2004.
UCGIS Winter Meeting, Washington, DC, February, 2004.
ASLA Annual Meeting and Expo, New Orleans, LA, October 2003.
CELA, Clemson University, Charleston, SC, September 2003.
Water and the Future of Kansas, Manhattan, KS, March 2003.
Mid-West CAD Expo, Lee Summit, MO, November 2002.
Water and the Future of Kansas, Lawrence, KS, March 2002.
Kansas Center for Rural Initiatives, Rural Leadership Conference, Manhattan, KS, January 2001.
CELA, University of California San Luis Obispo, CA, August 2001.
ASLA Annual Meeting and Expo, Saint Louis, MO, October, 2000.
CELA, University of Guelph, Ontario, Canada, August 2000.

Selected Creative Works of Landscape Architecture

Landscape Architecture Projects

Location

All Saints Episcopal School Campus & Stormwater Plan	Lubbock, Texas
Bargainer Residence	Austin, Texas
*Bluemont Elementary School Playground	Manhattan, Kansas
Canyon Forest Village	Tusayan, Arizona
*Copper Mountain- The Cirque	Copper Mountain, Colorado
Dallas-Fort Worth National Cemetery Veterans Memorial	Dallas, Texas
Eagle Pines Ranch	Inveremere, British Columbia, Canada
Edwards' Estate	Lubbock, Texas
Farm at Arapahoe County	Arapahoe County, Colorado
High Prairie Farms	Parker, Colorado
*Jensen Residence	Pottawatomie County, Kansas
*Kansas Statewide Soils Project	Manhattan, Kansas
*Lewis Ranch	Copper Mountain, Colorado
*Manhattan Church of Christ Master Plan	Manhattan, Kansas
Marriott Canyons	Park City, Utah
**Mariposa Ranch	Albuquerque, New Mexico
Onion Creek Golf Course Clubhouse	Austin, Texas
*Peace Lutheran Church Master Plan	Manhattan, Kansas
*Peace Lutheran Church Flint Hill Prairie Restoration	Manhattan, Kansas
*Prairie Band Potawatomi Nation Geodatabase	Mayetta, Kansas
Town of Snowmass Village Comprehensive Plan	Snowmass, Colorado
Trinity Ranch	Lubbock, Texas
*Snowmass Village	Snowmass, Colorado
St. Stephen's Episcopal Church Cloister Garden	Lubbock, Texas
Stafford Residence	Aspen, Colorado
Sugar Creek Refinery	Sugar Creek (KC Metro), Missouri
West Side Park and Pool Complex	Austin, Texas
Ziff Residence	Aspen, Colorado
* Indicates Projects from 2000-Present while at K-State	
**Indicates ASLA Honor Award	

Service

University

K-State Provost and Senior Vice President Search Committee, 2009
K-State College of Architecture Planning and Design Dean Search Committee, 2008-2009.
State of Kansas GIS Policy Board, K-State Representative 2009-Present.
K-State University Consortium for Geographic Information Science (UCGIS) Delegate, 2005-Present.
K-State UCOWR (Universities Council on Water Resources) Delegate, 2005-Present.
K-State Center For Engagement and Community Development (CECD) On Campus Advisory Board, Spring 2006-Present.
K-State GIScience Steering Committee, Chair 2008-2011 (2005-Present).
K-State Faculty/Staff Changing Lives Campaign, CAPD Coordinator, Fall 2006.
K-STATE Provost Advisory Group on Engagement (PAGE), April 2005-Fall 2006.
K-STATE Search Committee-GIScience TE Faculty Line, October 2005-February 2006
K-STATE GIScience Commons SWAT-Co-Chair and Proposal Author, VPAST Appointed, May 2005-November 2006.
K-STATE GIS Geodatabase Manager/Application Developer Search Committee, 2004-2005.
SCASLA Ecological Design and Stormwater Management Charette for the K-STATE Campus Creek Corridor, October 10-11, 2003.
K-STATE Oracle Spatial/SDE Geodatabase Implementation, Collaborated with VPAST Unger, Harvard Townsend, James Olson, James Morill, Vance Baker and David Steward to implement first enterprise research geodatabase.
K-STATE GIS Week Committee- coordinated overall events and speaker Steve Mullen from Community VIZ to represent LARCP in the first large scale GIS week event at K-State.
K-State GIS Advisory Committee- attend semester meetings formal and informal on coordination and strategy for GIS implementation on the campus.
CITAC- Computer Information Technology Advisory Council, OEC (Organizational Efficiency and Communication Sub-Committee-Chair (nominated by Marc Johnson Dean of Agriculture) Authored annual report and presented to VPAST office (2000-2001), E-Business Sub-Committee (2001-2002), Appointed by Dean Law.

College

CAPD Computing/Technology Committee, 2000-Present, Chair 2007-20010.
CAPD Building Vision Group, Summer 2007.
CAPD Telefund, 2006,2007,2008.
K-State Faculty/Staff Changing Lives Campaign, CAPD Coordinator, Fall 2006.
CAPD Web Committee, 2004-2006.
CAPD Open House Committee
CAPD Extreme Makeover Home Edition, October 17, 2005.
CAPD Web Site-developed database schemas and concepts for CAPD linked websites and worked with CAPD team and outside consultant to develop CAPD and new departmental site 2003-2006.
Collaborated with Harvard Townsend and Don Crawford for new CAPD Lab Computers 2001-2002.
Initiated and maintain the Premier Program for CAPD student computer purchases with Dell- research and establish system requirements and recommendations for necessary computer hardware for student purchase 2000-Present.
CAPD Open House Committee-LARCP Representative-Led assembly and attended LA space, designed and produced new signage for CAPD event, created news and media materials in support of LARCP and CAPD displays, 2000-2006.

Department

Design Week Committee Member, 2009.
LARCP Coordinator of LA Tech Module Sequence, 2005-Present.
LARCP Coordinator of Student Computer Purchases and Dell Premier Site, 2000-Present.
LARCP Technology, 2000-Present.
LARCP Strategic Planning Committee- Sub-committee on Web Design, 2006-2007.
LARE Review Session for Alumni, Spring 2004.
LARCP Web, 2000-2003.
LARCP Search Committee 2005
LARCP MLA Curriculum Committee, Fall 2005-Spring 2006
LARCP MLA Curriculum Committee
LARCP Departmental Database and Curriculum Management System Winter Intersession 2005-2006
LARCP BLA Curriculum Committee
[2005- Roll out new www.thecela.org database content managed web site](#)
2004- Re-elected Region IV Representative and continue development of IT Structure
2003- Presenter and Attendee- Served as Region IV Representative- Attended CELA Board Meeting, developed CELA IT Structure & K-STATE Proposal to Host CELA IT Structure
2002- Served as Region IV Representative
2001- Presenter and Attendee- Elected Region IV Representative & Innovations Committee
2000- First CELA Exposure- Presenter and Attendee
CELA
LARCP Faculty Technology Workshop- Prepared technology short courses on key technologies related to both teaching and landscape architecture including server and file management, imaging, CAD, GIS and KSOL.
SCASLA Ecological Design and Stormwater Management Charette for the K-STATE Campus Creek Corridor, October 10-11, 2003.
Student Chapter of ASLA Advisor/Co-Advisor (BLA and MLA)- mentor student officers in leadership, team building and management, facilitate brainstorming sessions, aid representation of the organization throughout the university and community, initiate discussions on current trends in landscape architecture and inform organization on ASLA and PGASLA functions.
Researched and advise department on various technology purchases including the plotters, server, projectors, printers, scanners, as well as review software packages and new releases of software.
Initiated the Premier Program for LARCP student computer purchases with Dell- researched and established system requirements and recommendations for necessary computer hardware for student purchase.
LAR Mission committee member.
LAR BLA Curriculum committee member.
Designed LARCP Web Site- Researched university web publishing policies and strategies for accessibility, attended 35 online seminars on web development and accessibility, attended 3 on-campus web accessibility events to design a new web site for department.
Designed, estimated, and implemented design for 105 computer desks for students in the department

Community

First United Methodist Church, Manhattan, Kansas, Trustees, Led Energy Audit (2008-2009) 2007-2010
Friends of Anapra, Mexico and Susana Wesley School, 2007-Present.
Manhattan Department of Parks and Recreation, Tee Ball Coach, Summer 2008,2009.
First United Methodist Church, Manhattan, Kansas, Building Committee-Harris Activity Center Accessibility, 2007-2008.
Tornado Recovery Assistance in Manhattan and Chapman Kansas, June-July 2008
Bluemont Elementary School PTO Member and Grounds committee, 2007-2009

Bluemont Elementary School GIS Day Where's Bob? Presentation November 2007.
Bluemont Elementary School Playground Safety Surface Grant Author (Funded in full), Summer 2007.
St. George Recreation League, Tee Ball Coach, Summer 2006 & 2007.
Bluemont Elementary School Playground Design and Implementation, Summer 2007.
Peace Lutheran Church Action Team, January 2005-September 2005.
SCASLA Downtown Redevelopment Charette for Manhattan, KS, October 16-17, 2004.
SCASLA Ecological Design and Stormwater Management Charette for the K-STATE Campus Creek Corridor, October 10-11, 2003.
Fund raising participant with Habitat for Humanity, 2002.
Active Member of Peace Lutheran Church- Serve on Long Range Planning Team, Property & Grounds Planning Team, Stewardship committee, and Sponsor of Youth At Peace youth group (2000-2002)
Goodnow Neighborhood Association- Attendance at Water Plant expansion hearings and presentations on behalf of the Goodnow neighborhood and Goodnow park, and Traditional Neighborhood Overlay Proposal Advocate.

Professional Service

Licensed Landscape Architect, Kansas #696, May 5, 2005-Present.
American Society of Landscape Architects (ASLA), 1991-Present.
Prairie Gateway Chapter of ASLA (PGASLA), 2000-Present.
Kansas GIS Policy Board, Appointed by Governor Parkinson, May 2009-2011
Kansas GIS Policy Board Technical Advisory Committee, 2006-Present.
University Consortium for Geographic Information Science (UCGIS), 2004-Present.
Universities Council on Water Resources (UCOWR), 2005-Present.
Council of Educators in Landscape Architecture (CELA), 2000-Present.
CELA Database Schema Developer, 2004-2006.
CELA IT Infrastructure Chair, 2005-2006.
CELA Region IV Representative, 2001-2006.
Nature Conservancy, 1998-Present.
National Arbor Day Foundation, 2000-Present.

Professional Memberships

ASLA, PGASLA, CELA, UCGIS, UCOWR, Nature Conservancy, National Arbor Day Foundation