

KEVIN PAUL PRICE

GEOGRAPHY DEPARTMENT

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KANSAS APPLIED REMOTE SENSING

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BIOGEOGRAPHY - REMOTE SENSING - GEOGRAPHIC INFORMATION SYSTEMS

ACADEMIC TRAINING:

University of Utah, Salt Lake City, Utah. Ph.D. Geography (1987).

Dissertation title - Detection of Soil Erosion With Thematic Mapper (TM) Satellite Data Within Pinyon - Juniper
Woodlands (Advisor - Dr. Merrill K. Ridd)

Ph.D. Language Requirement (Computer programming)

Brigham Young University, Provo, Utah. B.S. (1980), M.S. Range Science (1982).

Thesis title - Habitat and Community Relationships of Cliffrose (*Cowania mexicana* var. *stansburiana*) in Central
Utah. (Advisor: Dr. Jack D. Brotherson)

Ricks College, Rexburg, ID. Associates Degree (1978), Emphasis in biology.

SUMMARY of PROFESSIONAL ACTIVITIES AS OF JANUARY 2006:

Refereed Publications:	66	articles, 3 book chapters, 2 book, 2 articles in press, 7 in review, and 6 in advanced stages of preparation
Published Proceedings:	75	
Oral Paper and Poster Presentations:	236	
Grants, contract, donations	104	(PI or Co-PI on over \$25 million in grants and contracts)
Professional Workshops Taught:	30	
University Courses Taught:	41	

HONORS and AWARDS:

2005 - present	International Editorial Advisory Board , Arab International Journal for GIS and RS
2002 - 2004	National Research Council , Committee on Environmental Satellite Data Utilization (CESDU)
2001 - 2002	National Research Council , Geographical Foundation for Agenda 21 on Sustainable Development in Africa, Committee Member
1999	Nominated for Meredith Docking Young Faculty Scholar Award
1997- 1999	State of Kansas Earth Systems Science Leader
1996 - present	Editorial Committee Member , GeoCarto International Journal
1996 - 1998	Distinguished Lecturer , Kansas Academy of Sciences
1996 - 1998	Chair , Association of American Geographers, Remote Sensing Specialty Group
1993 & 1994	Recipient of the Meritorious Service Award , American Society of Photogrammetry and Remote Sensing
1990	NASA Global Climate Change Fellowship , NASA Summer School for Earth Science: Processes of Global Change
1984 - 1986	Teaching Fellowship , Department of Geography, University of Utah
1987	Academic All-American Collegiate Award
1987	Julia Greenwell Fellowship , Department of Botany and Range Science, Brigham Young University, student population of 29,000.
1980	Phi Kappa Phi National Honor Society , 1980; Academic Scholarships , Ricks College, Brigham Young University, University of Utah,
1973 - 1974	Leadership Scholarship , Ricks College, Rexburg, Idaho.

FULBRIGHT SCHOLARS HOSTED:

Dr. Imasiku Nyambe, University of Zambia, Zambia (Fall 1999)

PROFESSIONAL EMPLOYMENT HISTORY:

2001 - Present **Full Professor**, Department of Geography, University of Kansas (effective as of July 1, 2001)
2001 - Present **Senior Scientist**, Kansas Applied Remote Sensing (KARS) Program, University of Kansas
1995 - Present **Associate Director**, Kansas Applied Remote Sensing (KARS) Program, University of Kansas
1995 - Present **Associate Scientist**, Kansas Applied Remote Sensing (KARS) Program, University of Kansas
1995 - 2001 **Associate Professor**, Department of Geography, University of Kansas
1989 - 1995 **Assistant Professor**, Department of Geography, University of Kansas
1991 - 1995 **Acting Associate Director**, Kansas Applied Remote Sensing (KARS) Program, University of Kansas
1989 - 1995 **Assistant Scientist**, Kansas Applied Remote Sensing (KARS) Program, University of Kansas
1986 - 1989 **Assistant Professor**, Department of Geography, Utah State University.
1986 - 1989 **Adjunct Professor**, Department of Range Science, Department of Forestry, Department of Fisheries and Wildlife and Department of Landscape Architecture.
1982 - 1986 **Remote Sensing Project Scientist**, Center for Remote Sensing and Cartography (CRSC), University of Utah Research Institute (UURI), Salt Lake City, UT.
1981 **Ecologist**, Science Applications Inc. Private subcontractor for Northwest Energy, Salt Lake City, UT, Summer months.
1980 **Rangeland Inventory Crew Leader**, MESA Corporation, Orem, UT. Private contractor for the Bureau of Land Management (BLM), Summer months.
1979 - 1981 **Graduate Research Assistant**, Department of Botany and Range Science, Brigham Young University.
1979 **Wildlife Biologist Assistant**, Bureau of Land Management, Fillmore, UT, Summer months.

PROFESSIONAL AFFILIATIONS:

American Geographical Society
Association of American Geographers Remote Sensing, GIS, & Biogeography Specialty Groups
American Society of Photogrammetry and Remote Sensing
Kansas Academy of Sciences
Phi Kappa Phi National Honor Society
Gamma Theta Upsilon (GTU)

NEARLY ALL OF THE PUBLICATIONS AND PRESENTATIONS THAT FOLLOW ARE CO-AUTHORED WITH MY GRADUATE STUDENTS

C Indicated that the Dr. Price served as the graduate student Advisor or Co-Advisor to the indicated individual.

66 PUBLISHED REFEREED MANUSCRIPTS, INCLUDING 3 BOOK CHAPTERS, AND 1 BOOK:

Murphy, C.A., B.L. Foster, M.E. Ramspott C, and K.P. Price. 2006. Effects of Cultivation History and Current Grassland Management on Soil Quality in Northeastern Kansas. *Journal of Soil and Water Conservation*, Vol. 61(2):75-84.

Kastens, J.H., T.L. Kastens, D.L.A. Kastens C, K.P. Price, E.A. Martinko, and R. Lee C. 2005. Image masking for crop yield forecasting using time series AVHRR NDVI imagery. *Remote Sensing of Environment*, 99(3): 341-356.

Breshears, D. D. N.S. Cobb, P.M. Rich, K. Price, C.D. Allen, R.G. Balice, W.H.. Romme, J. H. Kastens, M. L. Floyd, J. Belnap, J. J. Anderson, O.B. Myers, and C.W. Meyer. 2005. Regional vegetation die-off in response to global change type drought. *Proceedings of the National Academy of Science* 102(42):15144-15148.

Wang C, J. P.M. Rich, K.P. Price and W.D. Kettle. 2005. Relations between NDVI, grassland production, and crop yield in the central Great Plains. *Geocarta International*, Vol. 20(3):5-11.

Brown, J.C., M. Koeppe, B. Coles C, and K.P. Price. 2005. Soybean production and conversion of tropical forest in the Brazilian Amazon: The case of Vilhena, Rondônia. *Ambio*, Vol. 34(6):462-469.

Atwood, J., T. Watts, K. Price, and J. Kastens. 2005. The Big Picture -- satellite remote sensing applications in rangeland assessment and crop insurance. Reviewed and Published Proceedings, Agricultural Outlook Form, 2005. Arlington, Virginia. Speech Booklet 2, 26 pp. (Invited and reviewed paper)

Brown, J.C., W. Jepson, and K.P. Price. 2004. FORUM: Expansion of mechanized agriculture and land-cover change in southern Rondonia, Brazil. *Journal of Latin American Geography*, 3.1:96-102.

- National Research Council of the National Academies. 2004.** UTILIZATION OF OPERATIONAL ENVIRONMENTAL SATELLITE DATA.. *The National Academies Press*. 159 pp. ISBN 0-309-09235-3. Written by the Committee on Environmental Satellite Data Utilization. Allen Huang Hung-Lung (Committee Chair). Kevin P. Price was one of 13 committee members and 5 NRC staff that prepared the publication for The National Research Council.
- Peterson C, D., S. Egbert, E. Martinko, and K. Price. 2004.** Identifying Historical and Recent Land Cover Changes in Kansas Using Post-Classification Change Detection Techniques. *Transactions of the Kansas Academy of Science*, 107 (3/4):105-118.
- Wang C, J. P.M. Rich, K.P. Price and W.D. Kettle. 2004.** Relations between NDVI and Tree Productivity in the Central Great Plains. *International Journal of Remote Sensing*, volume 25, issue 16, pp. 3127-3138.
- Price, K.P. F. Yu C, R. Lee, and J. Ellis. 2004.** Characterizing Ecosystem Variability of Northern China Steppes Using Onset of Green-Up Derived From Time-Series AVHRR NDVI Data. *GIS & Remote Sensing Journal*, 41(1):45-61.
- Yu, F., C K.P. Price, J. Ellis, and D. Kastens C. 2004.** Satellite observations of seasonal vegetation growth in Central Asia: 1982-1990. *Photogrammetric Engineering & Remote Sensing*, Vol. 70(4):461-469.
- Murphy, C. A., B. L. Foster, M. E. Ramspott C and K. P. Price. 2004.** Grassland management effects on soil bulk density. *Transactions of the Kansas Academy of Science* 107(1/2): 45-54.
- Yu C, F., K. Price, J. Ellis, J. Feddema, and P. Shi. 2004.** Inter-annual variations of the Gobi Desert boundary in central Asia, *International Journal of Remote Sensing*, 25(2), 327-346.
- Wang C, J., P.M. Rich, and K.P. Price. 2003.** Temporal responses of NDVI to precipitation and temperature in central Great Plains. *International Journal of Remote Sensing*, 24, 2345-2364.
- Park, S., S.L. Egbert, D. Peterson, D. Stewart, C. Lauver, K.P. Price, E.A. Martinko, C. Blodgett, J. Culley, Jr. and G. Kaufman. 2003.** Kansas Vegetation Mapping Using Multi-Temporal Remote Sensing Data: A Hybrid Approach, *Journal of the Korean Geographical Society*, 38(5):667-685. (Korean, with English abstract)
- Yu C, F., K.P. Price, J. Ellis and P. Shi. 2003.** Response of seasonal vegetation development to climatic variations in eastern central Asia. *Remote Sensing Environment*, 87:42-54.
- Price, K.P. 2003.** Monitoring Grasslands from Outer Space: Is the Pixel Replacing the Quadrat? Grassland Societies of Victoria and New South Wales Joint Conference, Albury, Australia, June 12-13, 2003. pp. 1-6.
- Guo C, X., K.P. Price and J.M. Stiles. 2003.** Grasslands Discriminant Analysis Using Landsat TM Multitemporal Data. *Photogrammetric Engineering & Remote Sensing*, 69(11):1255-1262.
- National Research Council of the National Academies. 2002.** DOWN TO EARTH: GEOGRAPHIC INFORMATION FOR SUSTAINABLE DEVELOPMENT IN AFRICA. *The National Academies Press*. 155 pp. ISBN 0-309-08478-4. Written by the Committee on the Geographic Foundation for Agenda 21. John R. Jensen (Committee Chair). Kevin P. Price was one of 12 committee members and 6 NRC staff that prepared the publication for the Secretary of State (Colin Powell). The publication was prepared for the World Summit meetings in Johannesburg, South Africa that met in August, 2002.
- Griffith C, J.A., E.A. Martinko, J.L. Whistler, and K.P. Price. 2002.** Preliminary Comparison of Landscape Pattern — Normalized Difference Vegetation Index (NDVI) Relationships to Central Plains Stream Conditions. *Journal of Environmental Quality* 31:846-859.
- Griffith C, J. A., E. A. Martinko, J. L. Whistler, and K.P. Price. 2002.** Interrelationships among landscapes, NDVI, and stream water quality in the U.S. Central Plain. *Ecological Applications: Vol. 12, No. 6, pp. 1702 - 1718.*
- Peterson C, D.L., K.P. Price and E.A. Martinko. 2002.** Investigating grazing intensity and range condition of grasslands in northeastern Kansas using Landsat Thematic Mapper data. *GeoCarto International*, Vol. 17(4):13-24.
- Price, K.P., X. Guo C and J.M. Stiles. 2002.** Comparison of Landsat TM and ERS-2 SAR data for discriminating among six grassland types in eastern Kansas. 2nd special issue of *Computers and Electronics in Agriculture*. 37:157-171. (Invited paper).
- Egbert, S.L., Park, S., Price, K.P., Lee C R.Y., Wu, J., and M.D. Nellis. 2002.** Using Conservation Reserve Program Maps Derived from Satellite Imagery to Characterize Landscape Structure. *Computers and Electronics in Agriculture* 37(1-3): 141-156. (Invited paper).
- Price, K. P., X Guo C, and J. M. Stiles. 2002.** Optimal Landsat TM band combinations and vegetation indices for discrimination of six grassland types in eastern Kansas. *International Journal of Remote Sensing*, Vol. 23:5031-5042.
- Peterson C, D.L., K.P. Price, and E.A. Martinko. 2002.** Discriminating between cool season and warm season grassland cover types in northeastern Kansas. *International Journal of Remote Sensing* 23:5015-5030.
- Lee, R. C, F. Yu, K.P. Price, J. Ellis, and P. Shi. 2002.** Linking Inner Mongolian vegetation phenology dynamics to climate variation using time-series analysis of remote sensing data. *International Journal of Remote Sensing*, 23:2505-2512.

- Wang C, J., K.P. Price, and P.M. Rich. 2001. Spatial patterns of NDVI in response to precipitation and temperature in the central Great Plains. *International Journal of Remote Sensing* 22/18:3827-3844 .
- Price, K.P., T. Crooks C, and E.A. Martinko. 2001. Grasslands across time and scale: A remote sensing perspective. April Conference Edition 2001 Highlight Article, *Photogrammetric Engineering & Remote Sensing*, 67(4):414 - 419.
- Ellis, J., K. Price, F. Yu C, L. Christensen and M. Yu. 2000. Dimensions of Desertification in the Drylands of Northern China. In: Global Desertification: Do Human Causes Deserts? (Chapter 10), Edited by J.F. Reynolds and D.M. Stafford Smith, *Dahlem University Press*. (Book chapter).
- Guo C, X., K.P. Price, and J.M. Stiles. 2000. Biophysical and spectral characteristics of cool- and warm-season grasslands under three land management practices in eastern Kansas. *Natural Resources Research*, 9(4):321-331.
- Griffith C, J., K.P. Price, and E.A. Martinko. 2001. A multivariate analysis of biophysical parameters of tallgrass prairie among land management practices and years. *Environmental Monitoring and Assessment*. 68:249-271.
- Stephen A.P. , K.P. Price , S.L. Egbert, and V. Sanchez-Cordero. 2000. Geographic analysis of conservation priority: Endemic birds and mammals in Veracruz, Mexico . *Biological Conservation* 93 (1):85-94.
- Griffith C, J., E.A. Martinko, and K.P. Price. 2000. Landscape structure analysis of Kansas at three scales. *Landscape and Urban Planning*. 52(11):45-61.
- Guo C, X., K.P. Price, and J.M. Stiles. 2000. Modeling biophysical factors for grasslands in Eastern Kansas using Landsat TM data. *Transactions of the Kansas Academy of Science*, 103(3-4):122-138.
- Jakubauskas C, M.E., K. Kindscher, A. Fraser, D.M. Debinski, and K.P. Price. 2000. Close-range remote sensing of aquatic macrophyte vegetation cover. *International Journal of Remote Sensing*, 21(18):3533-3538.
- Ortega-Huerta, M.A., E. Martinez-Meyer C, S.L. Egbert, K.P. Price, and T.A. Peterson. 2000. Mapping the land cover of Mexico using AVHRR time-series data sets. *GeoCarto International*, 15(3):5-17.
- Martinko, E.A., K.P. Price, S.L. Egbert, J.L. Whistler, M.E. Jakubauskas C, and T.J. Crooks C. 2000. Building on three decades of remote sensing and decision support: the NASA Great Plains RESAC and the Kansas Applied Remote Sensing (KARS) Program. October 2000 Highlight Article – *Photogrammetric Engineering & Remote Sensing*, 66(10):1158-1163.
- Peterson, A.T., S.L. Egbert, V. Sanchez-Cordero, and K.P. Price. 2000. Geographic analysis of conservation priority: Endemic birds and mammals in Veracruz, Mexico. *Biological Conservation*, 93:85-94.
- Jakubauskas C, M.E., and K.P. Price. 1999. Regression-based estimation of lodgepole pine forest age from Landsat Thematic Mapper data. *GeoCarto International*, 15(1):19-24.
- Bork, E.W., N.E. West, and K.P. Price. 1999. Calibration of broad- and narrow-band spectral variables for rangeland cover component quantification. *International Journal of Remote Sensing*, 20(18):3641-3662.
- Bork, E., N.E. West, K.P. Price, and J.W. Walker. 1999. Rangeland cover component quantification using broad (TM) and narrow-band (1.4 NM) spectrometry. *Journal of Range Science*, 52:249-257.
- Nellis, M.D., and K.P. Price. 1998. The sustainability of rural land use systems in Western Kansas: Myth or reality? Pp. 115-118 in *Dimensions of Sustainable Rural Systems*. Bowler, Bryant, and Huigen (eds), Nederlandse Geografische Studies 244, Utrecht/Groninge (Book chapter).
- Egbert, S.L., A.T. Peterson, K.P. Price, and V. Sanchez-Cordero. 1998. Modeling conservation priorities in Veracruz, Mexico. Pp. 141- 150 in *GIS Solutions in Natural Resource Management - Balancing the Technical-Political Equation*. S. Morain (ed), High Mountain Press, 364 pp. (Book chapter).
- Bork, E., K.P. Price, and N.E. West. 1998. *In-Situ* narrow-band reflectance characteristics of cover components in sagebrush steppe. *GeoCarto International*, 13(4):5-15.
- Egbert, S.L., R.-Y. Yang, K.P. Price, M.D. Nellis, and R. Boyce C. 1998. Mapping Conservation Reserve Program (CRP) grasslands using multi-seasonal Thematic Mapper imagery. *GeoCarto International*, 13(4):17-24.
- Price, K.P., and M.E. Jakubauskas C. 1998. Spectral retrogression and insect damage in lodgepole pine successional forests. *International Journal of Remote Sensing*, 19(8):1627-1632.
- Egbert, S.L., R.-Y. Lee C, K.P. Price, R. Boyce C, and M.D. Nellis. 1997. Mapping the Kansas grasslands: A multi-temporal approach. *GAP Analysis Bulletin*, 6:12-13.
- Price, K.P., S.L. Egbert, M.D. Nellis, R. Lee, C and R. Boyce C. 1997. Mapping land cover in a High Plains agro-ecosystem using a multirate Landsat thematic mapper modeling approach. *Transactions of the Kansas Academy of Science*, 100(1-2):21-33 (Invited paper) www address: <http://www.emporia.edu/S/www/kas/transact/sympos96/price/price.htm>.
- Wu, J., M.D. Nellis, M.D. Ransom, K.P. Price, and S.L. Egbert. 1997. Evaluating soil properties of CRP land using remote sensing and GIS in Finney County, Kansas. *Journal of Soil and Water Conservation*, 52(5):352-358.
- Jakubauskas C, M.E., and K.P. Price. 1997. Empirical relationships between structural and spectral factors of Yellowstone lodgepole pine forests. *Photogrammetric Engineering & Remote Sensing*, 63(12):1375-1381.

- Nellis, M.D., K.P. Price, S. Egbert, and J. Wu. 1996.** Natural resource capability of CRP lands as grasslands in Southwest Kansas - A remote sensing and GIS perspective. *GeoCarto International*, 11(3):23-28 (Invited paper).
- Dunham C, J.W., and K.P. Price. 1996.** Comparison of nadir and off-nadir multi-spectral response patterns for six tallgrass prairie treatments in Eastern Kansas. *Photogrammetric Engineering & Remote Sensing*, 62(8):961-967.
- Rundquist, B., M.D. Nellis, and K.P. Price. 1996.** Groundwater level declines in Southwestern Kansas. *Geographic Insights*, VI(2):12-14.
- Nellis, M.D., K.P. Price, and R. Lissitschenko. 1995.** An analysis of rural land use in the Kansas High Plains using Landsat imagery. *Geographic Insights*, 1(2):14-17.
- Price, K.P., D. Pyke, and L. Mendes. 1994.** Shrub dieback in a semiarid ecosystem: The integration of remote sensing and geographic information systems for detecting vegetation change. Pp. 55-63 in *Remote Sensing and Geographic Information Systems: An Integration of Technologies for Resource Management: A Compendium*. A.L. MacLean. (ed), American Society of Photogrammetric Engineering and Remote Sensing. (Book Chapter).
- Homer, G.C., T.C. Edwards, R.D. Ramsey, and K.P. Price. 1993.** Use of remote sensing in modelling sage grouse winter habitat. *Journal of Wildlife Management*, 57(1):78-84.
- Price, K.P. 1993.** Detection of soil erosion within pinyon-juniper woodlands using Thematic Mapper (TM) data. *Remote Sensing of Environment*, 45(3):233-248.
- Price, K.P., and M.E. Hodgson. 1992.** Onward and forward: A GIS commentary. *Photogrammetric Engineering & Remote Sensing*, 58(11):1545-1551.
- Price, K.P., D. Pyke, and L. Mendes. 1992.** Shrub dieback in a semiarid ecosystem: The integration of remote sensing and geographic information systems for detecting vegetation change. *Photogrammetric Engineering & Remote Sensing*, 58(4):455-463.
- Dewey, S.A., K.P. Price, and D. Ramsey. 1991.** Satellite remote sensing to predict potential distribution of Dyers Woad (*Isatis tinctoria*). *Weed Technology*, 5:479-484.
- Brotherson, J.D., K.P. Price, and L. Orourke. 1987.** Age in relationship to stem circumference and stem diameter in cliffrose (*Cowania mexicana* var *stansburiana*). *Great Basin Naturalist*, 47(1):132-151.
- Price, K.P., and J.D. Brotherson. 1987.** Habitat and community relationships of cliffrose (*Cowania mexicana* var *stansburiana*) in central Utah. *Great Basin Naturalist*, 47(2):334-338.
- Brotherson, J.D., and K.P. Price. 1984.** Naturalization and habitat relationships of bitter nightshade (*Solanum dulcamara*) in central Utah. *Great Basin Naturalist*, 44(2):317-323.

5 MANUSCRIPTS IN REVIEW :

- Murphy, C. A., B.L. Foster, M.E. Ramspott and K.P. Price.** Effects of Cultivation History and Current Grassland Management on Soil Quality in Northeastern Kansas. (In review - *Journal of Soil and Water Conservation*)
- Egbert, S.L., Peterson, D.L., Stewart, A.M., Lauver, C.L., Blodgett, C.F., Price, K.P., and Martinko, E.A.** The Kansas GAP Land Cover Map: A Hybrid Multi-Temporal Approach to Mapping the Vegetation of Kansas. In review - *Photogrammetric Engineering & Remote Sensing*.
- Wang, J., G. Hoch, P.M. Rich, and K.P. Price.** Modeling ground productivity with NDVI in Central Great Plains. In Review - *International Journal of Remote Sensing*.
- Miller, M. R., K.P. Price, and C.L. Lauver.** Identification of high quality tallgrass prairie in Eastern Kansas using a multitemporal Landsat imagery. In review - *International Journal of Remote Sensing*.

4 MANUSCRIPTS IN PROGRESS (These manuscripts are all in the advanced stages of preparation meaning at least a first draft manuscript has been completed for each paper listed below):

- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy.** Estimating Canopy Greenness and Standing Crop Biomass in Managed Grassland with Spectral Vegetation Indices: Seasonal Effects.
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy.** Using Time-Series Airborne and Satellite Multispectral Imagery to Characterize Grassland Cover and Land Management Practices Influencing Soil Carbon Stocks.
- Yu, F., K. Price, M. Houts, and L. Johnson.** Estimating canopy cover of Red Cedar (*Juniperus Virginiana*) using spectral mixing models and multi-temporal Landsat TM, PE&RS, to be submitted.
- Price, K.P., E.A. Martinko, and J. Griffith.** Multitemporal spectral reflectance patterns of six tallgrass prairie types during two contrasting growing seasons. To be submitted to *Photogrammetric Engineering & Remote Sensing*.
- Yu, F., K.P. Price, X. Guo, and J. Stiles.** Assessing land use change using Landsat a TM multi-temporal analysis approach. To be submitted to *Transactions of the Kansas Academy Science*.

PUBLISHED PROCEEDINGS (76 published proceedings papers) Most are co-authored with my graduate students:

- Thayn, J.B., K.P. Price,, and R.B. Boone. 2005.** Rangeland Biocomplexity and Cattle Stocking Rates in Kansas. Proceedings of the PECORA 16 “Global Priorities in Land Remote Sensing”, Sioux Falls, SD. (Published on CD)
- Ramspott, M.E., K.P. Price, B.L. Foster., and C. Murphy. 2005.** Using Time-Series Airborne Multispectral Imagery To Characterize Grassland Cover And Land Management Practices Influencing Soil Carbon Stocks. Pecora 16 “Global Priorities in Land Remote Sensing.” October 23 – 27, 2005 Sioux Falls, South Dakota
- Ramspott, M. E. K.P. Price, B.L Foster, C. Murphy. 2004.** Using airborne multispectral sensor data to assess land-use impacts on carbon stocks in a managed grassland ecosystem. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing, Denver, Colorado, May 23-28.
- Yu, F., K. P. Price, J. Ellis and J. Feddema. 2002.** Interannual Variations of the Spatial Gobi Desert Area: 1982-2001. SPIE’s Third International Journal Asia-Pacific Environmental Remote Sensing Symposium 2002: Remote Sensing of the Atmosphere, Ocean, Environment, and Space, 23-27, October, HangZhou, China.
- Price, K., F. Yu, and J. Ellis. 2002.** Characterizing ecosystem stability of northern China steppes using onset of green-up derived from time-series AVHRR NDVI data. SPIE’s Third International Journal Asia-Pacific Environmental Remote Sensing Symposium 2002: Remote Sensing of the Atmosphere, Ocean, Environment, and Space, 23-27, October, HangZhou, China.
- Mercier, B.N., Whistler, J.L., Peterson, D.L., Egbert, S.L., Price, K.P., and Martinko, E.A. 2002.** Remote Sensing Tools for Statewide Management: Developing the First Landsat Imagery Database of Kansas. Proceedings, 2002 ASPRS-ACSM Annual Conference and FIG XXII Congress. Washington, DC, April 22-26. (CD-ROM)
- Houts, M.E., K.P. Price, and R.D. Applegate. 2002.** Using AVHRR Satellite Data to Model Pheasant Population Trends in Northwest Kansas. XXII FIG International Congress ACSM-ASPRS Conference and Technology Exhibition 2002 Congress/Conference Proceedings. April 19-26, Washington, DC. 7 pp.
- Yu, F., K. Price, J. Ellis, J. Feddema, and P. Shi. 2002.** Response of temperate grasslands in central Asia to climate change. ACSM-ASPRS, April 19-26, 2002, Washington, D.C.
- Houts, M.E., K.P. Price, R.D. Applegate. 2002.** Ring-Neck Pheasant Modeling Using AVHRR Satellite Data To Model Pheasant Population Trends In Northwest Kansas. Paper accepted for presentation at 2002 ACSM-ASPRS conference in Washington DC.
- Lauver, C.L., Peterson, D.L., Stewart, A.M., Egbert, S.L., Martinko, E.A., and Price, K.P. 2002.** The Challenge of Mapping Grasslands: Assessing the Accuracy of the Kansas Gap Analysis Land Cover Map. Society for Range Management, 2002 Annual Meeting. Kansas City, Missouri, February 13-19.
- Mercier, B.N., J.L. Whistler, D.L. Peterson, S.L. Egbert, K.P. Price, and E.A. Martinko. 2002.** Remote Sensing Tools for Statewide Management: Developing the First Landsat Imagery Database of Kansas. 2002 ASPRS-ACSM Annual Conference and FIG XXII Congress. Washington, DC, April 22-26. (Proceedings article submitted.). (In press).
- Yu, F., K. P. Price, J. Ellis, and J. Feddema. 2001.** Analysis of the eastern Mongolian steppe desertification with remote sensing and water budget data *2001 ASPRS Annual conference*, St. Louis, MO, April 23-27.
- Crooks, T. J., M. E. Jakubauskas, J.L. Whistler, A. Stewart, J. Lomas, E. A. Martinko, K.P. Price. 2001.** Meeting the challenge of outreach and technology transfer at the NASA Great Plains RESAC. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27.
- Price, K.P. and X. Guo. 2001.** Characterization of grassland management practices in a Tallgrass ecosystem using HyMap hyperspectral data. Annual Convention. Proceedings of the American Society of Photogrammetric Engineering and Remote Sensing (ASPRS). St. Louis, MO. April 23-27.
- Egbert, S. L., S. Park, A. Stewart, D. Peterson, C. L. Lauver, K. P. Price, and E. A. Martinko. 2001.** Landscape structure and the U.S. Conservation Reserve Program on the central high plains. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27.
- Houts, M.E., K.P. Price, E.A. Martinko. 2001.** Differences in Onset of Greenness: A Multi-Temporal Analysis of Grass and Wheat in Kansas. Third International Conference for Geospatial Information in Agriculture and Forestry. Denver, Colorado. November 5-7.
- Moskal, L.M., K. Price, M. E. Jakubauskas and E. Martinko. 2001.** Comparison of hyperspectral AVIRIS and Landsat TM imagery for estimating burn site pine seedling regeneration densities in the Central Plateau of Yellowstone National Park . The *3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition*, Denver, November.
- Guo, X. and K.P. Price. 2001.** Characterization of grassland management practices in a tallgrass ecosystem using hymap hyperspectral data. 23rd Canadian Symposium on Remote Sensing. Sainte-Foy, Québec, Canada. August 21-24. Universite LAVAL. 2:787-794.
- Whistler, J.L., X. Guo, M.E. Houts, K.P. Price, E.A. Matinko, and D. DePardo. 2001.** Developing a multispectral data acquisition system for capturing hi-resolution airborne digital imagery. Annual Convention. American Society of Photogrammetric Engineering and Remote Sensing (ASPRS). St. Louis, MO. April 23-27.

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BOOK REVIEWER:

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- Ortega-Huerta, M.A., E. Martinez-Meyer, S.L. Egbert, and K.P. Price. 1999.** Mapping Mexico's vegetation types using NDVI data. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17. (**Awarded First Prize for best poster presented at the meetings.**).
- Guo, X., K.P. Price, and J. Stiles. 1999.** Optimal Landsat TM band combinations for discrimination of six grassland management practices in Eastern Kansas. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (**Awarded second best Ph.D. paper presented at the meetings.**).
- Egbert, S.L., J.L. Whistler, C.F. Blodgett, K.P. Price, E.A. Martinko. 1999.** Mapping Kansas from space: Twenty-five years of mapping Kansas land cover with satellite imagery. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17.
- Lee, R., K.P. Price, D. Kastens, and E.A. Martinko. 1999.** Modeling crop condition and production using multi-date Advanced Very High Resolution Radiometer (AVHRR) and vegetation phenology metrics. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17.
- Park, S., S.L. Egbert, and K.P. Price. 1999.** A quantitative analysis of landscape pattern changes in relation to the Conservation Reserve Program (CRP) in Finney County, Kansas. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17.
- Ellis, E., C. Blodgett, S.L. Egbert, C. Lauver, E.A. Martinko, K.P. Price, A. Stewart, S. Kennedy, J. Riffer, and S. Park. 1999.** A two-stage, multi-temporal approach to mapping Kansas' natural vegetation with satellite imagery. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17.
- Lauver, C.L., C. Blodgett, S. Egbert, E. Martinko, K.P. Price, E. Ellis, J. Riffer, S. Kennedy, A. Stewart, S. Park, and J. Cully. 1999.** Mapping Great Plains vegetation at the alliance level using a supervised approach. *9th Annual National Gap Analysis Program Meeting*, Duluth, MN, August 2-6.
- Price, K.P., X. Guo, and J. Stiles. 1999.** Discrimination of six grassland management practices using merged Landsat TM and ERS-2 SAR data. *84th Annual Meetings of Ecological Society of America*, Spokane, WA, August 8-12.
- Riffer, J., C. Blodgett, S. Egbert, E. Martinko, K. Price, and E. Ellis. 1998.** A multi-seasonal approach to mapping Kansas' natural vegetation with satellite imagery. *Kansas Academy of Science Annual Meeting*, Wichita, KS, April 19-20.
- Wang, J., K.P. Price, and P. Rich. 1998.** Relationship between NDVI and precipitation in Kansas during an eight-year period (1989-1996). *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26.

- Egbert, S.L., J.R. Lander, and K.P. Price. 1998.** Effect of rainfall events on spectral response patterns in Landsat Thematic Mapper imagery. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26.
- Yu, F., K.P. Price, and R. Lee. 1998.** Annual variability of Inner Mongolia grassland phenology as influenced by climate. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers Annual Conference*, Lawrence, KS, September 24-26.
- Lee, R., and K.P. Price. 1998.** Modeling corn yield using multitemporal remotely sensed data. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers Annual Conference*, Lawrence, KS, September 24-26.
- Lauver, C., C. Blodgett, S. Egbert, E. Martinko, K. Price, E. Ellis, J. Riffer, and S. Kennedy. 1998.** Mapping the natural vegetation of Kansas. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers Annual Conference*, Lawrence, KS, September 24-26.
- Kennedy, S.S., K.P. Price, S.L. Egbert, and E.A. Martinko. 1998.** Mapping crop types and irrigation status in Haskell County, Kansas, using multi-seasonal Landsat Thematic Mapper data. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26.
- Blodgett, C.F., J. Riffer, S. Egbert, C.L. Lauver, K.P. Price, E. Martinko, and P. Budde. 1998.** Vegetation mapping of the Tallgrass Prairie National Preserve by exploiting the annual and seasonal variability of Landsat Thematic Mapper data. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers Annual Meeting*, September 24-26, Lawrence, KS.
- Blodgett, C.F., C.L. Lauver, S. Egbert, E. Martinko, K.P. Price, E. Ellis, and J. Riffer. 1998.** A supervised approach to mapping the natural vegetation of Kansas. *8th Annual National GAP Analysis Program Meeting*, Santa Barbara, CA, July 20-24.
- Kastens, D.L., K.P. Price, E.A. Martinko, and T.L. Kastens. 1998.** Assessing wheat conditions in Kansas using biweekly AVHRR datasets and crop phenological indices. *Annual Meetings, Great Plains/Rocky Mountain Regional Division Meetings, Association of American Geographers*, Lawrence, KS, September 24-26.
- Miller, M.R., and K.P. Price. 1998.** The identification of tallgrass prairie in Eastern Kansas using a Landsat multitemporal approach. *Annual Meetings, Great Plains/Rocky Mountain Regional Division Meetings, Association of American Geographers*, Lawrence, KS, September 24-26.
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1998.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *Annual Meetings, Great Plains/Rocky Mountain Regional Division Meetings, Association of American Geographers*, Lawrence, KS, September 24-26.
- Guo, X., K.P. Price, and J. Stiles. 1998.** Effects of management practices on biophysical and spectral features for selected grasslands in Eastern Kansas. *Annual Meetings, Great Plains/Rocky Mountain Regional Division Meetings, Association of American Geographers*, Lawrence, KS, September 24-26.
- Jakubauskas, M.E., K. Kindscher, A. Fraser, D. Debinski, and K.P. Price. 1998.** Hyperspectral remote sensing of spatterdock (*Nuphar polysepalum*) cover in Grand Teton National Park, Wyoming. *Annual Meetings, Great Plains/Rocky Mountain Regional Division Meetings, Association of American Geographers*, Lawrence, KS, September 24-26.
- Kastens, D.L., K.P. Price, E.A. Martinko, and T.L. Kastens. 1998.** Assessing wheat conditions in Kansas using biweekly AVHRR datasets and crop phenological indices. *First International Conference on Geospatial Information in Agriculture and Forestry*, Disney's Coronado Springs Resort, June 1-3.
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1998.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *First International Conference on Geospatial Information in Agriculture and Forestry*, Disney's Coronado Springs Resort, June 1-3.
- Blodgett, C.F., C.L. Lauver, S.L. Egbert, E.A. Martinko, K.P. Price, E.K. Ellis, and J.C. Riffer. 1998.** A supervised approach to mapping the natural vegetation of Kansas. *Annual Meeting, National Gap Analysis Program*, Santa Barbara, CA, July 20-24.
- Blodgett, C.F., M.E. Jakubauskas, C.L. Lauver, K.P. Price, and L. Bian. 1998.** Geostatistical modeling of forest canopy structure, Grand Teton National Park. *94th Annual Meeting, Association of American Geographers (AAG)*, Boston, MA, March 25-28.
- Price, K.P., R. Lee, F. Yu, and J. Ellis. 1998.** Annual variation of Inner Mongolian grassland phenology as influenced by climate. *94th Annual Meeting, Association of American Geographers (AAG)*, Boston, MA, March 25-28.
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1998.** Applied remote sensing and its role in the transfer of technology and products to the commercial sector. *94th Annual Meeting, Association of American Geographers (AAG)*, Boston, MA, March 25-28.
- Lee, R., F. Yu, K.P. Price, and J. Ellis. 1998.** Annual variation of Inner Mongolian grassland phenology as influenced by climate. *2nd LUTEA Conference*, Beijing, China, March 2-5 (Poster paper).

- Martinko, E.A., and K.P. Price. 1998.** The Earth System Science Initiatives on the Great Plains Network. *Kansas Statewide EPSCoR Conference*, Topeka, KS, February 19.
- Blodgett, C.F., S.L. Egbert, E.A. Martinko, K.P. Price, C.L. Lauver, A.M. Stewart, M. Ortega-Huerta, and R. Boyce. 1997.** A multi-seasonal approach to mapping Kansas' natural vegetation. *7th Annual Gap Analysis Principal Investigator's Meeting*, Reston, VA, August 4-8.
- Martinko, E.A., and K.P. Price. 1997.** Direct downlink data needs to support research and commercialization in Kansas. *NASA EOS Direct Broadcast Conference*, Pasadena, CA, December (Invited speaker).
- Price, K.P., and E.A. Martinko. 1997.** Earth system science research activities in Kansas. *Earth System Science Conference, Sponsored by the National Science Foundation and AAAS*, Sioux Falls, SD, November (Invited speaker).
- Price, K.P. 1997.** Mapping Kansas using satellite imagery. *Kansas Association of Mapper*, Lawrence, KS, October 8 (Invited Speaker).
- Egbert, S.L., and K.P. Price. 1997.** Development of a land use mapping and monitoring protocol for the Great Plains. *NASA Land Cover Land Use Change Program, First Science Meeting*, Warrenton, VA, April 8-10 (Invited paper).
- Martinko, E.A., and K.P. Price. 1997.** The development of a statewide land use/land cover digital database for Kansas. *NASA Regional Validation Center Workshop, Mission to Planet Earth Program*, Goddard Space Flight Center, September (Invited speaker).
- Price, K.P. 1997.** Green grow the crops: Predicting crop condition. *Ag-Vision 2000+, Soil and Crop Management Conference and Trade Show*, Lawrence, KS, January 30 (Invited speaker).
- Bork, E.W., K.P. Price, and N.E. West. 1997.** *In situ* narrow-band reflectance characteristics of cover components in a sagebrush-steppe. *Annual Meetings of the Ecological Society of America*, Albuquerque, NM, August.
- Boyce, R.P., K.P. Price, E.A. Martinko, and R. Rodgers. 1997.** Multitemporal analysis of Landsat remotely sensed data to identify Lesser Prairie Chicken habitat in southwest Kansas. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4.
- Boyce, R.P., K.P. Price, E.A. Martinko, and R. Rodgers. 1997.** Multitemporal analysis of Landsat remotely sensed data to identify Lesser Prairie Chicken habitat in southwest Kansas. *Annual Meetings of the ACSM-ASPRS-RT-Auto Carto*, Seattle, WA, April 7-10.
- Egbert, S.L., R.-Y. Lee, K.P. Price, M.D. Nellis, and R. Boyce. 1997.** Mapping Conservation Reserve Program (CRP) lands using multi-seasonal Thematic Mapper imagery. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4.
- Stewart, A.M., K.P. Price, and C.L. Lauver. 1997.** Differentiating land management practices on warm and cool season grasses using multitemporal satellite imagery. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4.
- Stewart, A.M., K.P. Price, and C.L. Lauver. 1997.** Differentiating land management practices using multitemporal satellite imagery. *Annual Meetings of the ACSM-ASPRS-RT-Auto Carto*, Seattle, WA, April 7-10.
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1997.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4.
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1997.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *Kansas Academy of Sciences*, Fort Hays University, April 11-12.
- Dunham, J.W., and K.P. Price. 1997.** Seasonal multispectral responses of tallgrass prairie under different management practices. *93rd Annual Meeting, Association of American Geographers*, Dallas, TX, April 1-4.
- Price, K.P. 1996.** Greenness report. NASA sponsored feature speaker for the *1996 Western Farm Show, American Royal complex*, Kansas City, MO, February 24-26 (Made four presentations at this conference).
- Price, K.P., S.L. Egbert, M.D. Nellis, and R. Lee. 1996.** Developing a land cover modelling procedure for the High Plains using multi-date Thematic Mapper imagery. *128th Annual Meeting of the Kansas Academy of Science*, Emporia State University, Emporia, KS, March 21-22 (Invited paper for the Geospatial Analysis in the Great Plains Special Session.).
- Lauver, C.L., K.P. Price, C.F. Blodgett, and A.M. Stewart. 1996.** Mapping land cover for the Kansas Gap Analysis project. *Proceedings of the 19th Annual Applied Geography Conference*, Kansas City, MO, October 16-19.
- Price, K.P., E.A. Martinko, and D.C. Rundquist. 1996.** Relationships between multitemporal spectroradiometer measurements and biophysical characteristics of prairie treatments. *AAG Annual Convention*, Charlotte, NC, April 9-13.
- Price, K.P. 1995.** The role of remote sensing in geography. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18 (Invited panelist--Other panelists included: John E. Estes, John R. Jensen, Jerome Dobson, M. Duane Nellis, and James R. McDonald.).
- Price, K.P., M.D. Nellis, S.L. Egbert, and R. Lee. 1995.** Modelling High Plains landcover using multirate Thematic Mapper imagery. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.
- Dunham, J.W., and K.P. Price. 1995.** Spectral reflectance response of prairie treatments under different management practices. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.

- Prante, M.C., W. Dort, and K.P. Price. 1995.** An alternative hypothesis for quaternary evolution of the Kansas Landscape. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.
- Jakubauskas, M.E., and K.P. Price. 1995.** The Tasseled Cap revisited: Remote sensing of forest succession in Yellowstone National Park. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.
- Nellis, M.D., J. Wu., M. Ransom, K.P. Price, and S.L. Egbert. 1995.** Evaluating Conservation Reserve Program land in Southwest Kansas using remote sensing and GIS techniques. *Great Plains-Rocky Mountain AAG*, Rapid City, SD.
- Price, K.P., P.M. Rich, and R. O'Neal. 1994.** Development of digital canopy models (DCMs) using digital stereopairs. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Ingram, B.G., and K. P. Price. 1994.** Differentiating pheasant habitat using the semivariance of satellite data. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Dunham, J.W., and K. P. Price. 1994.** Hyperspectral characterization of prairie treatments using multiple-view angle multitemporal measurements. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Jakubauskas, M.E., and K.P. Price. 1994.** Landsat Thematic Mapper characterization of coniferous forest succession. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Miller, D.W., and K.P. Price. 1994.** A model for transferring remote sensing and GIS technologies to small business. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Price, K.P., P.M. Rich, and R. O'Neal. 1994.** Measurement and 3-dimensional modeling of plant canopies using remotely sensed data. *126th Kansas Academy of Science Meeting*, Washburn University, Topeka, KS, April 7-8.
- Ingram, B.G., K.P. Price, and K. Church. 1994.** Differentiating pheasant habitat using the semivariance of satellite data. *126th Kansas Academy of Science Meeting*, Washburn University, Topeka, KS, April 7-8.
- Dunham, J.W., and K.P. Price. 1994.** Spectral characterization of prairie treatments using multiple-view angle multitemporal measurements. *126th Kansas Academy of Science Meeting*, Washburn University, Topeka, KS, April 7-8.
- Jakubauskas, M.E., and K.P. Price. 1993.** Spectral-ecological characterization and mapping of forest cover types in Yellowstone National Park, Wyoming. *Proceedings of the Second Biennial Scientific Conference on the Greater Yellowstone Ecosystem*, Mammoth, WY, September 19-21.
- Rich, P.M., K.P. Price, R.D. Holt, and F.J. Barnes. 1993.** Spatially explicit models of microclimate and ecophysiology within pinyon-juniper woodland canopies: A GIS and remote sensing approach. *Annual Meeting, Ecological Society of America*, Madison, WI, July 31-August 4.
- Dewey, S.L., F. deNoyelles, Jr., K.P. Price, J. Schalles, and A. Clements. 1993.** Predicting stream periphyton biomass from spectral reflectance using a high-resolution, hand-held spectroradiometer. *Annual Meeting, Ecological Society of America*, Madison, WI, July 31-August 4.
- Rich, P.M., F.J. Barnes, and K.P. Price. 1993.** Spatial patterns of canopy architecture in pinyon-juniper woodlands: Inferences from stand allometry and remote sensing. *Eighth Annual US Landscape Ecology Symposium, International Association of Landscape Ecology*, Oak Ridge National Laboratory, Oak Ridge, TN, March 24-27.
- Varner, V.C., K.P. Price, E.A. Martinko, and D.C. Rundquist. 1992.** Analysis of multitemporal measurements of prairie bioproductivity indicators and their influence on hyper-spectral reflectance patterns. *Proceedings of the Great Plains/Rocky Mountain Division, Association of American Geographers*, Manhattan, KS, October 8-10.
- Price, K.P., and S.A. Dewey. 1992.** Integrating remote sensing and GIS to predict potential areas of invasion by dyers woad (*Isatis tinctoria*). *Proceedings of the Great Plains/Rocky Mountain Division, Association of American Geographers*, Manhattan, KS, October 8-10.
- Price, K.P., V.C. Varner, E.A. Martinko, and D.C. Rundquist. 1992.** Analysis of 252 band spectroradiometer data to spectrally characterize selected prairie types in Kansas. *Kansas and Space Symposium, 124th Annual Meetings of Kansas Academy of Science*, Hutchinson, KS, March 26-27, p. 36.
- Price, K.P. 1992.** Earth observations from space provide invaluable information for environmental monitoring and assessment. *Kansas and Space Symposium, 124th Annual Meetings of Kansas Academy of Science*, Hutchinson, KS, March 26-27, p. 37.
- Price, K.P., V.C. Varner, E.A. Martinko and D.C. Rundquist. 1992.** Analysis of multitemporal spectroradiometer measurements for six prairie treatments. *88th Annual Meeting of the Association of American Geographers (AAG)*, San Diego, CA, April 18-22.
- Cohan, D., and K.P. Price. 1990.** Improvement of land cover classifications due to removal of the topographic effects from Landsat data. *86th Annual Meeting of the Association of American Geographers (AAG)*, Toronto, Canada, April 19-22.
- Price, K.P., L.R. Mendes, and D.L. Verbyla. 1989.** The use of satellite remotely-sensed digital data in determining the cause of catastrophic dieoff of shrublands in the Great Basin. *Association of American Geographers Annual Meeting*, Baltimore, MD, March 17-23.
- Price, K.P. 1989.** Detection of soil erosion with Thematic Mapper satellite data within Pinyon-Juniper woodlands. *Geoprocessing and Surveying Conference - A User's Perspective, ASPRS*, Boise, ID, March 8-10.

- Doremus, L., C. Forster, C. Duffy, and K.P. Price. 1989.** Use of remotely sensed Landsat images to study groundwater discharge from a closed desert basin. *American Geophysical Union*, Baltimore, MD, May 8-12.
- Price, K.P. 1989.** Landsat/ancillary data classification of desert rangeland. *Geoprocessing and Surveying Conference - A User's Perspective*, ASPRS, Boise, ID, March 8-10.
- Price, K.P. 1988.** Detection of soil erosion with Thematic Mapper (TM) satellite data within pinyon-juniper woodlands of central Utah. *Association of American Geographers Annual Meeting*, Phoenix, AZ, April 6-10.
- Price, K.P. 1987.** Satellite remote sensing: New wave for national resource inventory (NRI). *Association of American Geographers Annual Meeting*, Portland, OR, April 22-26.

PROFESSIONAL REPORTS (45 published professional reports):

- Ortega-Huerta, M., K.P. Price, and O. Komar. 2001.** Assessment of Multi-date Landsat TM Imagery for Characterization of Vegetation Biodiversity in El Salvador: A Prototype Study. Final Report to – Proyecto Café y Biodiversidad, Fundación PROCAFE, Avenida Manuel Gallardo Frente a Residencial Mpnte Sion, Nueva San Salvador, La Libertad, El Salvador, Central America. 20 pp.
- Goodlin, D., K. P. Price, J. S. Aber, C. Allen, S. J. Harrington. 2000.** Spatial and spectral scale dimensions for modeling Kansas rural resource systems: projections for global change. NASA EPSCoR Program. Progress Report, forth year.
- Price, K.P. E.A. Martinko, S. L. Egbert, D. L. Kastens, J. Lomas, and F.J. deNoyelles. 2000.** Incubating commercial remote sensing products. Progress Report, NASA Headquarters, Earth Science Enterprise, Applications Program. Washington, DC. March, 104 pp.
- Martinko, E. A., K.P. Price S. L. Egbert, D. L. Kastens, J. Lomas, and F.J. deNoyelles. 2000.** Annual Regional Earth Science Applications Center Progress Report, NASA Headquarters, Earth Science Enterprise, Applications Program. Washington, DC.
- Martinko, E.A., K.P. Price, J.M. Lomas, and D.L. Kastens. 1999.** Agricultural applications: GreenReport - vegetation index greenness map. Pp. 8-11 in *Remote Sensing Applications*. Raytheon Publications.
- Nellis, M.D., K.P. Price, J.S. Aber, C. Allen, S.P. Gogineni, J. Briggs, D. Goodlin, J. Harrington, G. Henebry. 1999.** Spatial and spectral scale dimensions for modeling Kansas rural resource systems: Projections for global change. *Progress Report, NASA EPSCoR Program, Third year*.
- Lomas, J.M., E.A. Martinko, K.P. Price, and D.L. Kastens. 1998.** Satellite-derived vegetation maps for the agriculture and forestry: The GreenReport. Pp. 4-5 in *Understanding our Changing Planet, Earth Science Enterprise 1998 Applications Fact Book, Publication No. NP-1998-02-233-HQ*, NASA.
- Lomas, J.M., E.A. Martinko, K.P. Price, and D.L. Kastens. 1998.** Satellite-derived sea surface temperature maps for the sport fishing industry. pp. 22-23 in *Understanding our Changing Planet, Earth Science Enterprise 1998 Applications Fact Book, Pub. No. NP-1998-02-233-HQ*, NASA.
- Houts, M.E., R. Lee, K.P. Price, E.A. Martinko, and R. Baumeister. 1998.** Classification of corn and soybean crops in central Iowa using 10 m multispectral airborne imagery. Resource 21, Englewood, CO, September, 22 pp.
- Price, K.P., E.A. Martinko, and F.J. deNoyelles. 1998.** Incubating commercial remote sensing products. *Progress Report*, NASA Headquarters, Earth Science Enterprise, Applications Program, Washington, DC, December, 30 pp.
- Nellis, M.D., K.P. Price, J.S. Aber, C. Allen, S.P. Gogineni, J. Briggs, D. Goodlin, J. Harrington, G. Henebry. 1998.** Spatial and spectral scale dimensions for modeling Kansas rural resource systems: Projections for global change. *Progress Report, NASA EPSCoR Program, Second year*.
- Nellis, M.D., K.P. Price, J.S. Aber, C. Allen, S.P. Gogineni, J. Briggs, D. Goodlin, J. Harrington, G. Henebry. 1997.** Spatial and spectral scale dimensions for modeling Kansas rural resource systems: Projections for global change. *Progress Report, NASA EPSCoR Program, First year*.
- 1997, 9 Professional Reports, each over 30 pages in length.** Due to a nondisclosure agreement with the funding agency, no title or funding agency can be provided until the agency clears the release of this information. At this time, the content of these reports must remain confidential.
- Martinko, E.A., K.P. Price, and S.L. Egbert. 1997.** Mapping irrigated agriculture in Rawlins County, Kansas and Red Willow County, Nebraska — A pilot study using a multirate landsat image classification approach. *Final Report, Kansas Biological Survey Technical Report 79*.
- Price, K.P., E.A. Martinko, and F.J. deNoyelles. 1997.** Incubating commercial remote sensing products. *Progress Report, NASA Headquarters, Mission to Planet Earth*, Washington, DC, December.
- Nellis, M.D., K.P. Price, J.S. Aber, C. Allen, S.P. Gogineni, J. Briggs, D. Goodlin, J. Harrington, and G. Henebry. 1997.** Spatial and spectral scale dimensions for modeling Kansas rural resource systems: Projections for global change. *Progress Report, NASA EPSCoR Program, First year*.
- Price, K.P., E.A. Martinko, and F.J. deNoyelles. 1996.** Incubating commercial remote sensing products. *Progress Report, NASA Headquarters, Mission to Planet Earth*, Washington, DC, November, 12 pp.

- Nellis, M.D., and K.P. Price. 1996.** Development of a land use mapping and monitoring protocol for High Plains region: A multitemporal remote sensing application. Pp. 5-6 *in Water Research in Kansas 1994-1995*. Kansas Agricultural Experiment Station, January 1996.
- Holt, R.D., P.M. Rich, K.P. Price, R. Pierotti, and D.M. Debinski. 1996.** Progress report for the project titled, *Long-term studies of population and community ecology in an experimentally fragmented landscape*. National Science Foundation. Report period June 1 - September 1.
- Holt, R.D., P.M. Rich, K.P. Price, R. Pierotti, and D.M. Debinski. 1995.** Progress report for the project titled, *Long-term studies of population and community ecology in an experimentally fragmented landscape*. National Science Foundation. Report period June 1 - September 1.
- Price, K.P., and M.D. Nellis. 1995.** Development of a land use mapping and monitoring protocol for the High Plains Region: A multitemporal remote sensing application. *Progress Report, NASA Headquarters, Mission to Planet Earth*. Washington, DC, January, 15 pp.
- Price, K.P., and M.D. Nellis. 1994.** Development of a land use mapping and monitoring protocol for the High Plains Region: A multitemporal remote sensing application. *Progress Report, NASA Headquarters, Mission to Planet Earth*. Washington, DC, December, 36 pp.
- Holt, R.D., P.M. Rich, K.P. Price, R. Pierotti, and D.M. Debinski. 1994.** Progress report for the project titled, *Long-term studies of population and community ecology in an experimentally fragmented landscape*. National Science Foundation. Report period June 1, 1993 - September 1, 1994.
- Ingram, B.G., and K.P. Price. 1994.** Differentiating pheasant habitat using the semi-variance of satellite data. *Kansas Applied Remote Sensing (KARS) final report to Kansas Department of Wildlife and Parks*. Emporia Office, 289 pp.
- Jakubauskas, M.E., and K.P. Price. 1993.** Spectral-ecological characterization and mapping of forest cover types in Yellowstone National Park, Wyoming. *University of Wyoming-National Park Service Research Center, 17th Annual Report*.
- Jakubauskas, M.E., and K.P. Price. 1992.** Spectral-ecological characterization and mapping of forest cover types in Yellowstone National Park, Wyoming. Pp.184-187 *in University of Wyoming-National Park Service Research Center, 16th Annual Report*.
- Martinko, E.A, K.P. Price, and D.C. Rundquist. 1990.** Preliminary study of the spectral response patterns from prairie vegetation types. *USDA Report, Project #85CRSR-2-3193*. Kansas Applied Remote Sensing (KARS), University of Kansas and Center for Advanced Land Management Information Technology (CALMIT), University of Nebraska-Lincoln, 21 pp.
- Martinko, E.A., J. Merchant, and K.P. Price. 1990.** Utilization of remote sensing/GIS technologies for land management. *USDA Report, Project #85CRSR-2-3193*. Kansas Applied Remote Sensing (KARS), University of Kansas, 636 pp.
- Martinko, E.A., K.P. Price, J. Whistler, and G. Robinson. 1990.** Vegetation mapping of prairie environments for use in development of a GIS data base. *USDA Report, Project #85CRSR-2-3193*. Kansas Applied Remote Sensing (KARS), 31 pp.
- Price, K.P. 1989.** Development of a geographic information system (GIS) for Cache National Forest using Thematic Mapper (TM) satellite data and digital elevation models (DEM). *Final Report, Mineral Leasing Project # NG-1180*, Research Office, Utah State University, Logan, UT, 10 pp.
- Wagner, F.H., J. Dobrowolski, J.M. Neuhold, K.P. Price, D. Pyke, and N.E. West. 1988.** Great Basin regional ecology: Major vegetation changes and potential causes. *Final Technical Report to US Environmental Protection Agency, Environmental Assistant Project CR-814317-01-0*. Ecology Center, Utah State University, Logan, UT.
- Price, K.P. 1989.** Detection of soil erosion with Thematic Mapper (TM) satellite data within pinyon-juniper woodlands. *University of Utah Research Institute, Center for Remote Sensing and Cartography, Report 2-88, Final report submitted to the USDA Soil Conservation Service and NASA*.
- Ramsey, R.D., K.P. Price, and M.K. Ridd. 1985.** Riparian habitat on the North Fork of the Humboldt River, Ryndon to Wildhorse, S.W. quadrangle. *Center for Remote Sensing and Cartography, Report 85-1*, 34 pp.
- Ramsey, R.D., K.P. Price, and M.K. Ridd. 1984.** Riparian habitat on Mary's River, Deeth to Mary's River Basin, S.E. quadrangle, Nevada. *Center for Remote Sensing and Cartography, Report 84-10*, 30 pp.
- Ridd, M.K., K.P. Price, and G.E. Douglass. 1984.** Assessment of Landsat for rangeland mapping, Rush Valley, Utah. *Center for Remote Sensing and Cartography, Report 84-9*, 28 pp.
- Price, K.P., and M.K. Ridd. 1983.** Riparian habitat on the Humboldt River, Deeth to Elko, Nevada. *Center for Remote Sensing and Cartography, Report 83-3*, 45 pp.
- Price, K.P., R.D. Willie, and M.K. Ridd. 1983.** Land use inventory of Salt Lake County, Utah, from color infrared aerial photography. *Center for Remote Sensing and Cartography, Report 83-2*. 28 pp.

MISCELLANEOUS PUBLICATIONS (6 papers):

- Martinko, E.A., K.P. Price, J.M. Lomas, and D.L. Kastens. 1999.** Agricultural applications: GreenReport - vegetation index greenness map. Pp.8-11 *in Remote Sensing Applications*. Raytheon Publication.
- Lomas, J.M., E.A. Martinko, K.P. Price, and D.L. Kastens. 1998.** Satellite-derived vegetation maps for the agriculture and forestry industry: The GreenReport. Pp. 4-5 *in Understanding our Changing Planet, Earth Science Enterprise 1998 Applications Fact Book, Publication No. NP-1998-02-233-HQ*. NASA.
- Lomas, J.M., E.A. Martinko, K.P. Price, and D.L. Kastens. 1998.** Satellite-derived sea surface temperature maps for the sport fishing industry. pp. 22-23 *in Understanding our Changing Planet, Earth Science Enterprise 1998 Applications Fact Book, Publication No. NP-1998-02-233-HQ*. NASA.
- Price, K.P. 1993.** *High Resolution Multispectral Stereo Imager (HRMSI), Its Capabilities and Potential Applications*. Prepared for Satellites for the Environmental, Washington, DC, 3 pp.
- Price, K.P. 1992.** *A Discussion of the Impacts of Landsat Commercialization on Kansas Economy, Agriculture, Higher Education and Environment*. Prepared for Senators Dole and Kassebaum of Kansas to petition for their support of the Presslor Senate Bill s2297, Landsat, 4 pp.
- Price, K.P. 1992.** Are Remote Sensing Journals Geography Journals? Pp. 11-14 *in Association of American Geographers Remote Sensing Specialty Group (RSSG) Newsletter*, November Issue.

PAPER AND INTERACTIVE POSTER PRESENTATIONS AT PROFESSIONAL MEETINGS (237 papers presented):

- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2005.** Remote Sensing Methods for Prairie Identification and Inventory in Northeast Kansas. Annual Meeting of the Association of American Geographers, Denver, CO, April 5-9, 2005. (Oral)
- Brown, J.C., W. Jepson, and K.P. Price. 2005.** Modern agriculture on tropical frontiers: Rethinking methods for land-change research. Open meeting of Human Dimensions of Global Change Research Community. Bonn, Germany. October 9-13. (Oral)
- Brown, J.C., W. Jepson, and K.P. Price. 2005.** Modern agriculture on tropical frontiers: Rethinking methods for land-change research. Association of American Geographers Annual Meetings, Denver CO, April 5-9. (Oral)
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2005.** Using time-series airborne multispectral imagery to characterize grassland cover and land management practices influencing soil carbon stocks. PECORA 16 "Global Priorities in Land Remote Sensing", Sioux Falls, SD. (Oral)
- Thayn, J.B., K.P. Price, and R.B. Boone. 2005.** Rangeland Biocomplexity and Cattle Stocking Rates in Kansas. , PECORA 16 "Global Priorities in Land Remote Sensing", Sioux Falls, SD. (Oral)
- Thayn, J.B., K.P. Price, and R.B. Boone. 2005.** Rangeland Fragmentation and Cattle Stocking Rates in Kansas, Association of American Geographers Annual Meetings, Denver CO, April 5-9 (Oral)
- Price, K.P., F. Yu, J. Kastens, M.E. Ramspott, J.B. Thayn, and M. Houts. 2005.** Investigating the Potential of Remotely Sensed Data and Spectral Mixing Models for Mapping Juniper and Estimating its Cover. Oral Presentation, Association of American Geographers Annual Meetings, Denver, CO, April 5-9
- Thayn, J.B., Voisey, D., and Price, K.P. 2005.** Using ArcMap and High Resolution Imagery to Assess the Accuracy of Linear Unmixture Analysis Results. Oral Presentation, University of Kansas GIS Day, Lawrence KS, November 16 (awarded 2nd place)
- Thayn, J.B., K.P. Price, and R.B. Boone. 2005.** Using Land Cover Pattern Metrics to Predict Cattle Stocking Rates in Kansas. Oral Presentation, University of Kansas Geography Department Colloquium Talk, Lawrence KS, March 17
- Thayn, J.B., K.P. Price, and R.B. Boone. 2005.** Examining Relationships between Landscape Biocomplexity and Cattle Stocking Rates on the Rangelands of Kansas. Oral Presentation, Sigma Xi (Chapter 004) Student Research Paper Competition, Lawrence KS, March 8
- Thayn, J.B., K.P. Price, and R.B. Boone. 2005.** The Effects of Ecosystem Fragmentation on Consumer Productivity in Kansas. Oral Presentation, University of Kansas GIS Day, Lawrence KS, November 17
- Breshears, D. D. N.S. Cobb, P.M. Rich, K. Price, C.D. Allen, R.G. Balice, W.H.. Romme, J. H. Kastens, M. L. Floyd, J. Belnap, J. J. Anderson, O.B. Myers, and C.W. Meyer. 2005.** Regional vegetation die-off in response to global change type drought. Ecological Impacts of Past, Present, and Future Climate Variation on Southwestern Forests and Woodland. 8th Biennial Conference of Research on the Colorado Plateau, Flagstaff, Arizona. November 9, 2005
- Price, K.P. 2005.** Pasture, Forage, and Rangeland Insurance Product Design (Overview of Satellite Remote Sensing Technology and Agricultural Application). USDA Risk Management Agency, Kansas City, Missouri. January 18, 2005
- Price, K.P. 2005.** Earth Observation from Space: How "Eyes in the Sky" will Assist Farmers in the Future. Kansas Farmer's Union, McPherson, Kansas. January 7, 2005. (Invited Guest Speaker)

- Price, K.P. 2004.** National Science Teacher's Association, Institute Symposium: Using NASA Resources to Study the Earth: Human Impacts on Land Cover Change, a Professional Development Experience Supported by NASA. October 23, 2004, Kansas City, Missouri. (Invited Workshop presenter (my part was about 3 hours long).
- Ramspott, M.E. and K.P. Price. 2004.** Remote sensing methods for prairie identification and inventory in Eastern Kansas. Paper Presented at the 19th North American Prairie Conference, Madison, WI, August 8-12, 2004,
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2004.** Using airborne multispectral sensor data to assess land-use impacts on carbon stocks in a managed grassland system. *Proceedings, Annual Meeting of the American Society for Photogrammetry and Remote Sensing*, Denver Colorado, May 5-8 2004. (Oral)
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2004.** Characterization of biophysical factors in an experimental cool-season grassland using multivariate, multiscale VNIR remote sensing. Paper presented at the *Annual Meeting of the Association of American Geographers*, Philadelphia, PA, March 14-19, 2004.
- Price, K.P., M.E. Ramspott, B.L. Foster, and C.A. Murphy. 2004.** Using airborne multispectral sensor data to assess land-use impacts on carbon stocks in a managed grassland system. Poster presented at the *Annual Meeting of the Association of American Geographers*, Philadelphia, PA, March 14-19, 2004. (Poster)
- Price, K.P., M.E. Ramspott, B.L. Foster, and C.A. Murphy. 2004.** Using Time-Series Remotely Sensed Data for Characterizing Land Cover and Land Use Practices in the Central Great Plains. NASA Stennis Space Flight Center, Scientists. March 23, 2004.
- Price, K.P. 2004.** Eyes in the Sky – How Kansas Scientists Use NASA Space Technology to Study Planet Earth. Ad Astra Kansas Day, April 24, 2004. (Invited Speaker)
- Price, K.P., M.E. Ramspott, B. L. Foster, and C.A. Murphy. 2004.** Using Time-Series Remotely Sensed Data for Characterizing Land Cover and Land Use Practices in the Central Great Plains. Colloquium, Department of Ecology and Evolutionary Biology, University of Kansas, September 2, 2004. (Invited oral presentation)
- Price, K. P. 2004.** Forecasting Crop Yields through Satellite Imagery. Kansas Farmers Union Family Core Group. Olathe, Kansas, October 1-3. (Invited oral presentation).
- Rich, P.M., D.D. Breshears, K.P. Price, N.S. Cobb, J.H. Kastens, R.G. Balice, and C.D. Allen. 2004.** Drought-induced mortality in semiarid woodlands. New Mexico Geographic Information Council (NMGIC) Fall Meeting, Conservation and Environmental GIS. October 8, 2004. Albuquerque, New Mexico.
- Rich, Paul M., David D. Breshears, and Kevin P. Price. 2004.** Assessing drought-induced mortality in semiarid woodlands with remotely sensed NDVI: from local to regional scales. Ecological Society of America Annual Meeting, August 1-6, 2004, Portland, OR.
- Rich, P.M., D.D. Breshears, K.P. Price, N.S. Cobb, J.H. Kastens, R.G. Balice, and C.D. Allen. 2004.** Drought-induced mortality in semiarid woodlands: assessing regional consequences of climate change. ESRI International User Conference, San Diego. (poster)
- Price, K.P. 2003.** Assessing range and pasture land conditions using a multitemporal remote sensing approach. Workshop for Assessing Risk and Insuring US Pasture and Rangelands, Watts and Associates. Billings, Montana. December 6. (Invited 1.5 hour oral presentation).
- Price, K.P. 2004.** Pasture, Rangeland, and Forage Pilot Program Development Remote Sensing Overview and Trigger Mechanism. Risk Management Agency, USDA, May 04, 2004
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2004.** Using airborne multispectral sensor data to assess land-use impacts on carbon stocks in a managed grassland system. *Annual Meeting of the American Society for Photogrammetry and Remote Sensing*, Denver Colorado, May 2004. (Oral).
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2004.** Characterization of biophysical factors in an experimental cool-season grassland using multivariate, multiscale VNIR remote sensing. *Annual Meeting of the Association of American Geographers*, Philadelphia, PA, March 14-19, 2004. (Oral).
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2004.** Characterization of biophysical factors in an experimental cool-season grassland using multivariate, multiscale VNIR remote sensing. *Annual Meeting of the Association of American Geographers*, Philadelphia, PA, March 14-19, 2004. (Oral).
- Price, K.P., Jude H. Kastens, and Loretta C. Johnson. 2004.** Using 250-m MODIS Composite NDVI Imagery for Analyzing Regional Red Cedar Population. NASA Land Cover Land Use Change (LCLUC) Program Investigator's Meeting, University of Maryland. January 20-22, 2004.
- Price, K.P., M.E. Ramspott, B.L. Foster, C.A. Murphy, S.L. Egbert, B. Wardlow, and E.A. Martinko. 2003.** Remote Sensing as a carbon measurement and monitoring tool. Carbon Measurement and Monitoring Form, hosted by the Consortium for Agricultural Soils Mitigation of Greenhouse Gases (CASMGs), Kansas State University, Manhattan, KS.. October 15-17. (Oral).
- Price, K.P., M.E. Ramspott, B.L. Foster, C.A. Murphy, S.L. Egbert, B. Wardlow, and E.A. Martinko. 2003.** Remote Sensing as a carbon measurement and monitoring tool. Carbon Measurement and Monitoring Form, Kansas State University. October 15-17. (Oral).

- Murphy, C.A., B.L. Foster, M.E. Ramspott, K.P. Price. 2003.** Soil characteristics of Conservation Reserve Program in relation to other privately managed grasslands. Society for Ecological Restoration International Conference. Austin, Texas, November 19-22, 2003. (Oral).
- Karel, I. S. A. L. Brothers, B. L. Foster, V. H. Smith, M. Ramspott, and K. Price. 2003.** Experimental Nutrient Manipulations in the Restoration of a Tallgrass Community. Society for Ecological Restoration International Conference, Austin, Texas.
- Murphy, C. A., B. L. Foster, M. E. Ramspott, K. P. Price, T. Hildebrand and L. Evanhoe. 2003.** Spatial Scaling of Plant Species Richness in Grasslands: Relationships to Productivity, Soils and Management. Ecological Society of America, Annual Meeting, Savannah, GA. (Oral).
- Ramspott, M.E., B.F. Coles, K.P. Price, W.M. Cook, and R.H. Hagen. 2003.** Use of high-resolution multitemporal imagery for characterizing phenology associated with plant community succession in a prairie/deciduous forest ecotone. Illustrated Paper Student Competition, University of Kansas Dept. of Geography GIS Day, November 19, 2003, Lawrence, Kansas. (Oral poster presentation)
- Price, K. P. 2003.** Passing the Skills to a New Generation of Scholars in Remote Sensing Passing the Skills to a New Generation of Scholars in Remote Sensing. Annual Conference, National Council for Geographic Education, Salt Lake City, Utah. October 8-10. (Invited Speaker - Asked to pay tribute to Dr. Merrill K. Ridd, 2003 Recipient of NCGE Distinguished Mentor Award.). (Oral).
- Ramspott, M.E., K.P. Price, B.L. Foster, and C.A. Murphy. 2003.** Linking remotely sensed measurements to biophysical factors of a cool-season grassland in northeast Kansas. Paper presented at the Annual Meeting of the American Society for Photogrammetry and Remote Sensing (ASPRS), Anchorage, AK. May 5-9. (Oral).
- Ramspott, M.E., K.P. Price, and B.L. Foster. 2003.** Multi-scale remote sensing-based measurement of biophysical characteristics in northeast Kansas grasslands. Submitted to the student honors paper competition, Remote Sensing Specialty Group for the annual meeting of the *Association of American Geographers (AAG)*. New Orleans, LA, March 5-8, 2003. 2nd Place Award. (Oral).
- Coles, B.F, M.E. Ramspott, K.P. Price, W.M. Cook, and R.H. Hagen. 2003.** Use of High-Resolution Multitemporal Imagery for Characterizing Biophysical Factors Associated with Plant Community Succession in a Prairie/Deciduous Forest Ecotone. Association of American Geographers, New Orleans, LA, March 5-8, 2003. (Interactive poster).
- Price, K.P. 2003.** Monitoring Grasslands from Outer Space: Is the Pixel Replacing the Quadrat? Grassland Societies of Victoria and New South Wales Joint Conference, Albury, Australia, June 12-13, 2003. (**Invited Keynote Speaker - Gave a second presentation as a result of conference attendee requests.**) (Oral).
- Murphy, C.A., B.L. Foster, M.E. Ramspott, K.P. Price, T. Hildebrand and L. Evanhoe. 2003.** Spatial scaling of plant species richness in grasslands: relationships to productivity, soils and management. Ecological Society of America, Annual Meeting, Savannah, GA.
- Moskal, L.M., Jakubauskas, M. E., Price, K. P., and E. A. Martinko. 2003.** Remote sensing-based geostatistical estimation of leaf area index (LAI) in the Yellowstone coniferous forest. ASPRS Annual Meeting, Anchorage, AK.
- Moskal, L.M., M. J. Jakubauskas, K. P. Price and E. A. Martinko. 2003.** Visualizing coniferous forest biophysical variables. 2003 Association of American Geographers Annual Meeting, New Orleans, LA, February 2003.
- Dunbar, M.D., L.M. Moskal, M.E. Ramspott, M.E. Houts, K.P. Price, M.E. Jakubauskas, and E.A. Martinko. 2002.** High-resolution digital multispectral data acquisition system for forestry and rangeland applications. Kansas Academy of Science meetings, Ft. Hays State University, April 13,. (Interactive poster).
- Dunbar, M.D., L.M. Moskal, M.E. Ramspott, M.E. Houts, K.P. Price, M.E. Jakubauskas, and E.A. Martinko. 2002.** High-resolution digital multispectral data acquisition system for forestry and rangeland applications. Mid-America GIS Symposium, Kansas City, MO, April 14-18.
- Guo, X. and K.P. Price. 2002.** Discriminating grassland management practices using remotely sensed data. The 98th AAG Annual Meeting. Los Angeles, California, USA. March 19 – 23 (Oral).
- Moskal, L.M., M. D. Dunbar, M. E. Jakubauskas, J. E. Dobson, K. P. Price and E. A. Martinko, 2002.** Visualizing the forest: a forest inventory characterization in the Yellowstone National Park based on geostatistical models. EnviroMount Conference on Geographic Information Systems and Remote Sensing in Mountain Environment Research, Zakopane, Poland, September 2002.
- Moskal, L.M., M. D. Dunbar, M. E. Jakubauskas, J. E. Dobson, K. P. Price and E. A. Martinko, 2002.** Geostatistical forest inventory characterization in Yellowstone National Park based on remotely sensed imagery. EnviroMount Conference on Geographic Information Systems and Remote Sensing in Mountain Environment Research, Zakopane, Poland, September 2002.
- Dunbar, M. D., L. M. Moskal, M. E. Jakubauskas, J. E. Dobson, K. P. Price and E. A. Martinko, 2002.** Forest inventory visualization in Yellowstone National Park based on remotely sensed imagery. EnviroMount Conference on Geographic Information Systems and Remote Sensing in Mountain Environment Research, Zakopane, Poland, September 2002.
- Houts, M.E., K.P. Price, and R.D. Applegate. 2002.** Using AVHRR Satellite Data to Model Pheasant Population Trends in Northwest Kansas. XXII FIG International Congress ACSM-ASPRS Conference and Technology Exhibition 2002 Congress/Conference Proceedings. April 19-26, Washington, D.C. (Oral Presentation)

- Houts, M.E., K.P. Price, and R.D. Applegate. 2002.** Using AVHRR Satellite Data to Model Pheasant Population Trends in Northwest Kansas. 17th Annual Symposium of the International Association for Landscape Ecology - United States Regional Association. April 23-27, Lincoln Nebraska. (Interactive Poster).
- Ramspott, M.E., X.Guo, and K.P. Price. 2001.** Spectral Unmixing Analysis in Managed Tallgrass Prairie. 3rd International Conference on Geospatial Information in Agriculture and Forestry, Denver, Colorado. November 5-7. (Interactive poster)..
- Moskal, L.M., M. E. Jakubauskas, K. P. Price and E. A. Martinko. 2001.** Multispectral high-resolution digital photography for forest characterization in the Central Plateau of the Yellowstone National Park. The 3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition, Denver, November. (Interactive Poster)
- Moskal, L.M., M. E. Houts, M. E. Jakubauskas, K. P. Price and E. A. Martinko. 2001.** Multispectral high-resolution digital photography for forest characterization in the Central Plateau of the Yellowstone National Park. The 5th International Airborne Remote Sensing Conference and Exhibition, San Francisco, September. (Interactive Poster).
- Moskal, L.M., M. E. Jakubauskas, K. Price and E. Martinko. 2001.** *Comparing kriging to co-kriging geostatistical methods for estimating forest inventory attributes in the Central Plateau of Yellowstone National Park*. Kansas Academy of Science Annual Meeting, Lawrence, April. 1st place for best Ph.D. Oral Presentation. (Oral).
- Price, K.P. and M. Ramspott. 2001.** Understanding Carbon Sequestration Processing in a Tallgrass Agro-Ecosystem. University of Kansas Field Station and Ecological Reserves Monthly Colloquium. October 12. (Invited Speakers).
- Moskal, L.M., K. Price, M. E. Jakubauskas and E. Martinko. 2001.** Comparison of hyperspectral AVIRIS and Landsat TM imagery for estimating burn site pine seedling regeneration densities in the Central Plateau of Yellowstone National Park. The 3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition, Denver, November.
- Whistler, J.L., X. Guo, M.E. Houts, K.P. Price, E.A. Martinko, and D. DePardo. 2001.** Developing a Multispectral Data Acquisition System for Capturing Hi-resolution Airborne Digital Imagery. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing (ASPRS). St. Louis, MO. April 23 - 27. (Interactive Poster).
- Whistler, J.L., X. Guo, M.E. Houts, K.P. Price, E.A. Martinko, and D. DePardo. 2001.** Developing a Multispectral data Acquisition System for Capturing High Resolution Airborne Digital Imagery. Kansas Academy of Sciences. Lawrence, KS. April 6-7. (Oral).
- Yu, F., K. P. Price, J. Ellis, and J. Feddema. 2001.** Analysis of the eastern Mongolian steppe desertification with remote sensing and water budget data 2001 ASPRS Annual conference, St. Louis, MO, April 23-27, 2001 (Oral).
- Kastens, D.L., K.P. Price, J.H. Kastens and E.A. Martinko. 2001.** Using Crop Masks and Remotely Sensed Data to Develop Pre-harvest Forecasts of Winter Wheat Yields in Kansas. Proceedings, Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27. (Oral).
- Kastens, J.H., K.P. Price, D.L. Kastens and E.A. Martinko. 2001.** Forecasting Pre-harvest Crop Yields Using Time Series Analysis of AVHRR NDVI Composite Imagery. Proceedings, Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27. (Oral).
- Crooks, T. J., M. E. Jakubauskas, J.L. Whistler, A. Stewart, J. Lomas, E. A. Martinko, K.P. Price. 2001.** Meeting the challenge of outreach and technology transfer at the NASA Great Plains RESAC. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27. (Oral).
- Egbert, S. L., S. Park, A. Stewart, D. Peterson, C. L. Lauver, K. P. Price, and E. A. Martinko. 2001.** Landscape structure and the U.S. Conservation Reserve Program on the central high plains. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27. (Oral).
- Houts, M.E., X. Guo, J.L. Whistler, K.P. Price, E.A. Martinko, and D. DePardo. 2001.** Developing a Multispectral Data Acquisition System for Capturing Hi-resolution Airborne Digital Imagery. Annual Meeting. Kansas Academy of Science. Lawrence, Kansas. April 6 -7. (Oral).
- Price, K.P. and X. Guo. 2001.** Characterization of grassland management practices in a tallgrass ecosystem using HyMap hyperspectral data. Annual Meeting. Kansas Academy of Science. Lawrence, Kansas. April 6 - 7. (Oral)
- Houts, M.E., K.P. Price, E.A. Martinko. 2001.** Differences in Onset of Greenness: A Multi-Temporal Analysis of Grass and Wheat in Kansas. Third International Conference for Geospatial Information in Agriculture and Forestry. Denver, Colorado. November 5-7. (Interactive Poster).
- Peterson, D., A. Stewart, S. Egbert, C. Lauver, E. Martinko, K. Price, S. Park, J. Cully, 2001.** Identifying and understanding land use/land cover changes in Kansas. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27. (Oral).
- Price, K.P., X. Guo, M.E. Houts, and E.A. Martinko. 2001.** Developing the methods for mapping land use/land cover and estimating rates of soil carbon sequestration using high-resolution hyperspectral and digital airborne imagery. Kansas NASA EPSCoR Day at the State Capitol, Topeka, Kansas. February 6 (Interactive Poster).
- Price, K.P., F. Yu, J. Ellis, and P. Shi. 2001.** Time Series Analysis of Remotely Sensed Data for Assessing Impacts of Regional Climatic Variation on Vegetation Phenology in Central Asia (1982 to 1990). Global Change Open Science Conference, Amsterdam, Netherlands, July 10-13. (Interactive Poster)

- Martinko, E. A., K. P. price, S. L. Egbert, J. L. Whistler, M.E. Jakubauskas, and T. J. Crooks. 2001.** The NASA Great Plains RESAC: Developing remote sensing applications on a foundation of fundamental research. *The 3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition*, Denver, November 2001. (Interactive Poster).
- Martinko, E.A. K.P. Price, S.L. Egbert, J. L. Whistler, M. E. Jakubauskas, and T.J. Crooks. 2001.** The NASA Great Plains RESAC: Developing remote sensing applications on a foundation of fundamental research. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27. (Oral).
- Jakubauskas, M.E., E.A. Martinko, K. P. Price, and M. Moskal. 2001.** Regional forest inventory by geostatistical integration of satellite imagery and field sampled data. Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing. St. Louis, Missouri, April 23 - 27. (Oral)
- Jakubauskas, M. E., L. M. Moskal, H. McCulley, E. A. Martinko. K. P. Price. 2001.** GeoFusion: Geostatistical fusion of forest inventory and remotely sense data. *The 3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition*, Denver, November 2001. (Interactive Poster).
- Guo, X. and K.P. Price. 2001.** Characterization of grassland management practices in a tallgrass ecosystem using HyMap hyperspectral data. 23rd Canadian Symposium on Remote Sensing. Sainte-Foy, Québec, Canada. August 21-24 (Interactive Poster).
- Guo, X., K.P. Price, M.E. Houts, and E.A. Martinko. 2001.** Developing the methods for mapping land use/land cover and estimating rates of soil carbon sequestration using high-resolution hyperspectral and digital airborne imagery. Annual Meeting. Kansas Academy of Science. Lawrence, Kansas. April 6 -7 (Interactive Poster).
- Price, K.P. X. Guo, M.E. Houts, and E.A. Martinko. 2001.** Developing the methods for mapping land use/land cover and estimating rates of soil carbon sequestration using high-resolution hyperspectral and digital airborne imagery. Kansas NASA EPSCoR Day at the State Capitol, Topeka, Kansas. February 6 (Interactive Poster).
- Moskal, L.M. , K. Price, M. E. Jakubauskas and E. Martinko. 2001.** Comparison of hyperspectral AVIRIS and Landsat TM imagery for estimating burn site pine seedling regeneration densities in the Central Plateau of Yellowstone National Park. *The 3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition*, Denver, November 2001. (Oral)
- Ramspott, M.E., X. Guo, and K.P. Price. 2001.** Spectral Unmixing Analysis in Managed Tallgrass Prairie: Mapping of Community Types and Management Practices from HyMap Imagery. *Third International Conference on Geospatial Information in Agriculture and Forestry*, 5-7 November, Denver, Colorado. (Interactive Poster).
- Price, K. P., F. Yu. and L.C. Johnson. 2001.** Estimating canopy cover of Red Cedar (*Juniperus virginiana*) using linear spectral mixing models and multitemporal Landsat TM and time-series NDVI data. *The 3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition*, Denver, November 2001. (Oral Invited Paper)
- Crooks, T.J., M.E. Jakubauskas, J. L. Whistler, A. Stewart, J. Lomas, E. A. Martinko, K. P. Price. 2001.** Meeting the Challenge Of Outreach and Technology Transfer At The NASA Great Plains RESAC. *The 3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition*, Denver, November 2001. (Invited Panel, Opening Session)
- Yu, F., K.P. Price, X. Guo, and J.M. Stiles. 2000.** Evaluation of the climatic variation on the image classification accuracy. *Kansas Academy of Science Meetings*, Hutchinson, KS, March 31-April 1 (Oral).
- Guo, X., K.P. Price, and J.M. Stiles. 2000.** Biophysical and spectral characteristics of cool and warm season grasslands under three management practices in Eastern Kansas. *Kansas Academy of Science Meetings*, Hutchinson, KS, March 31-April 1. (Oral) (Awarded the Eugene Dehner Presentation Award for best Ph.D. Paper presentation at the conference).
- Price, K.P., X. Guo, F. Yu, and J.M. Stiles. 2000.** Spectral discrimination of six grassland types in Eastern Kansas. *Kansas Academy of Science Meetings*, Hutchinson, KS, March 31-April 1 (Oral).
- Blodgett, C.F., M.E. Jakubauskas, K.P Price, and E.A. Martinko. 2000.** Remote sensing-based geostatistical modeling of forest canopy structure. *Annual Convention, American Society of Photogrammetric Engineering and Remote Sensing (ASPRS)*, Washington, DC, May 22-26 (Oral).
- Price, K.P., X. Guo, and J.M. Stiles. 2000.** Comparison of Landsat TM and ERS-2 SAR data for discriminating among grassland types in Eastern Kansas. *Annual Convention, American Society of Photogrammetric Engineering & Remote Sensing (ASPRS)*, Washington, DC, May 22 - 26 (Oral).
- Price, K.P., E.A. Martinko, S.L. Egbert, M.E. Jakubauskas, J.L. Whistler, J.M. Stiles, and D.L.A. Kastens. 2000.** Multitemporal imagery to assess vegetation condition and trend throughout the Great Plains. *53rd Annual Meeting, Society of Range Management - 2000 Trails to Boise*, Boise, ID, February 13-18 (Invited oral).
- Houts, M.E., R. Lee, K.P. Price, S.L. Egbert, and E.A. Martinko. 2000.** Using 10-meter digital airborne imagery to classify crop types in Iowa. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12, II:453-459.
- Stewart, A.M., K.P. Price, C.L. Lauver, and E.A. Martinko. 2000.** Comparison of a classification tree with a maximum likelihood classifier for differentiating grassland types in Douglas County, Kansas. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12, II:299-306.

- Kastens D.L., T.L. Kastens, R. Taylor and K.P. Price. 2000.** Using geographical techniques and an understanding of combine operation for generating spatially continuous yield maps from yield monitor data. Second International Conference on Geospatial Information in Agriculture and Forestry, Lake Buena Vista, FL, January 10-12 (Interactive Poster).
- Egbert, S.L., R. Lee, S. Park, K.P. Price, J. Wu, and M.D. Nellis. 2000.** Using CRP maps derived from satellite imagery to characterize landscape structure and relationships. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12, I:520-527 (**Best of Session award**). (Interactive Poster)
- Price, K.P., X. Guo, and J.M. Stiles. 2000.** Comparison of Landsat TM and ERS-2 SAR data for discriminating among grassland types in Eastern Kansas. Annual convention. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12 (Invited Plenary Session, Oral).
- Guo, X., K.P. Price and J.M. Stiles. 2000.** Modeling biophysical factors for grasslands using Landsat TM data in Eastern Kansas. Annual meeting. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12 (Invited Plenary Session, Oral).
- Lomas, J.M., K.P. Price, E.A. Martinko, D.L. Kastens, S.L. Egbert and A.J. Tuyahov. 2000.** Development of a value-added remotely sensed product for commercial distribution. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12 (Interactive poster).
- Lee, R., D.L. Kastens, K.P. Price, and E.A. Martinko. 2000.** Forecasting corn yield in Iowa using remotely sensed data and vegetation phenology information. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12 (Interactive poster).
- Peterson, D.L., K.P. Price, and E.A. Martinko. 2000.** Investigating grazing intensity and range condition gradients in native warm season and non-native cool season grasslands using multitemporal Landsat Thematic Mapper data. *Second International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, FL, January 10-12 (Interactive poster).
- Griffith J., D.L. Kastens, E.A. Martinko, and K.P. Price. 1999.** Remote sensing approaches to monitoring agroecosystem health. 3rd International Congress on Ecosystem Health, Sacramento, CA, August 15-20 (Oral).
- Kastens, D.L., K.P. Price, R. Lee, and E.A. Martinko. 1999.** Early assessment of winter wheat conditions in Kansas using remotely sensed data and crop phenological indices. *PECORA 14, Land Satellite Information Regional Conference, American Society of Photogrammetric Engineering & Remote Sensing*, Denver, CO, December 6-10 (Oral).
- Jakubauskas, M.E., C.F. Blodgett, K.P. Price, and E.A. Martinko. 1999.** Remote sensing-based geostatistical modeling for coniferous forest inventory and characterization. *National Remote Sensing Applications Conference And Workshop*, Auburn University Hotel and Conference Center, Auburn, AL, November 15-17 (Interactive poster).
- Martinko, E.A., K.P. Price, S.L. Egbert, M.E. Jakubauskas, and J.L. Whistler. 1999.** Development of the NASA Great Plains regional earth science applications center. *National Remote Sensing Applications Conference and Workshop*, Auburn University Hotel and Conference Center, Auburn, AL, November 15-17 (Interactive poster).
- Lee, R., D.L. Kastens, K.P. Price, and E.A. Martinko. 1999.** Forecasting corn yield in Iowa using remotely sensed data and vegetation phenology information. *PECORA 14 Symposium and Land Satellite Information in the Next Decade III Conference, ASPRS*, Denver, CO, December 6-10 (Oral).
- Peterson, D.L., K.P. Price, and E.A. Martinko. 1999.** Discriminating between native warm season and non-native cool season grazed grasslands in Douglas County, Kansas using multitemporal Landsat Thematic Mapper data. *PECORA 14 Symposium and Land Satellite Information in the Next Decade III Conference*, Denver, CO, December 6-10 (Oral).
- Price, K.P. 1999.** Remote sensing technologies and applications: Present and future. *Conference Proceedings, Zambia 1st National Remote Sensing Conference*, Lusaka, Zambia, November 25-26 1998 (Invited keynote address).
- Yu, F., K.P. Price, R. Lee, J. Ellis, and P. Shi. 1999.** Linking Inner Mongolian plant phenology dynamics to climatic variation using time-series analysis of remotely sensed data. *24th Annual National Association of Environmental Professionals Annual Meetings*, Kansas City, MO, June 20-24 (Oral).
- Price, K.P., E.A. Martinko, S.L. Egbert, M.E. Jakubauskas, J.L. Whistler, and M.T. Seastead. 1999.** Great Plains Regional Earth Science Applications Center (GP RESAC): A consortium to transfer remote sensing products and technology to support the Great Plains agroecosystem. *NASA EOS Investigator Working Group*, Vail, CO, June 15-17 (Interactive poster).
- Yu, F., R. Lee, and K.P. Price. 1999.** Impact of regional climatic variation on grassland steppes in Inner Mongolia, China. *24th Annual National Association of Environmental Professionals Annual Meetings*, Kansas City, MO, June 20-24 (Oral).
- Griffith, J., E.A. Martinko, and K.P. Price. 1999.** Analyzing the underlying structure of landscape pattern in Kansas at three resolutions. *Annual Meetings, '99 American Society of Photogrammetry & Remote Sensing*, Portland, OR, May 17-21, pp. 637-648 (Oral).
- Griffith, J., K.P. Price, and E.A. Martinko. 1999.** Differences in biophysical parameters of tallgrass prairie in eastern Kansas between land management regimes and years. *24th Annual National Association of Environmental Professionals Annual Meetings*, Kansas City, MO, June 20-24, pp. 41-52 (**3rd place Award for Best Student Paper**).

- Yu, F., K.P. Price, R. Lee and J. Ellis. 1999.** Use of time series analysis of AVHRR NDVI composite images to monitor grassland dynamics in Inner Mongolia, China. *Annual Meetings, '99 American Society of Photogrammetry & Remote Sensing*, Portland, OR, May 17-21 (Oral).
- Yu, F., K.P. Price, R. Lee, and J. Ellis. 1999.** Monitoring the interannual variations of the grasslands bordering the eastern edge of the Gobi desert in central Asia with time-series NOAA/AVHRR data. *PECORA14 Symposium and Land Satellite Information in the Next Decade III Conference*, Denver, CO, December 6-10 (Oral).
- Price, K.P., X. Guo, and J.M. Stiles. 1999.** Optimal Landsat TM band combinations and vegetation indices for discrimination of six grassland types in Eastern Kansas. *PECORA 14 Symposium and Land Satellite Information in the Next Decade III Conference*, Denver, CO, December 6-10 (Oral).
- Wang, J., P. Rich, and K.P. Price. 1999.** Climate influences on spatial and temporal patterns of NDVI in the Central Great Plains. *ESRI International GIS Conference*, San Diego, CA, July 26-30. (**Poster was awarded 1st Prize for Most Analytical among over 1,100 International contestants**) (Interactive poster).
- Egbert, S.L., J.L. Whistler, K.P. Price, and E.A. Martinko. 1999.** Development of satellite-derived land use/land cover databases for Kansas. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Colorado Springs, CO, September 23-25 (Oral).
- Griffith, J.A., E.A. Martinko, and K.P. Price. 1999.** Investigating the main components of landscape pattern across Kansas. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (**Awarded First Prize for best Ph.D. student paper presented at the Meetings**) (Oral).
- Ortega-Huerta, M.A., E. Martinez-Meyer, S.L. Egbert, and K.P. Price. 1999.** Mapping Mexico's vegetation types using NDVI data. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (**Awarded First Prize for best poster presented at the Meetings**) (Interactive poster).
- Guo, X., K.P. Price, and J. Stiles. 1999.** Optimal landsat TM band combinations for discrimination of six grassland management practices in Eastern Kansas. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (**Awarded second best Ph.D. paper presented at the meetings**) (Oral).
- Egbert, S.L., J.L. Whistler, C.F. Blodgett, K.P. Price, and E.A. Martinko. 1999.** Mapping Kansas from space: Twenty-five years of mapping Kansas land cover with satellite imagery. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (Oral).
- Lee, R., K.P. Price, D. Kastens, and E.A. Martinko. 1999.** Modeling crop condition and production using multi-date advanced very high resolution radiometer (AVHRR) and vegetation phenology metrics. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (Oral).
- Park, S., S.L. Egbert, and K.P. Price. 1999.** A quantitative analysis of landscape pattern changes in relation to the conservation reserve program (CRP) in Finney County, Kansas. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (Oral).
- Ellis, E., C. Blodgett, S.L. Egbert, C. Lauer, E.A. Martinko, K.P. Price, A. Stewart, S. Kennedy, J. Riffer, and S. Park. 1999.** A two-stage, multi-temporal approach to mapping Kansas' natural vegetation with satellite imagery. *Kansas Academy of Science Annual Meetings*, Manhattan, KS, April 16-17 (Interactive poster).
- Guo, X., K.P. Price, and J.M. Stiles. 1999.** Effects of management practices on biophysical and spectral features for selected grasslands in Eastern Kansas. *Kansas Statewide EPSCoR Conference*, Topeka, KS, April 1 (Interactive poster).
- Lauer, C.L., C. Blodgett, S. Egbert, E.A. Martinko, K.P. Price, E. Ellis, J. Riffer, S. Kennedy, A. Stewart, S. Park, and J. Cully. 1999.** Mapping Great Plains vegetation at the alliance level using a supervised approach. *9th Annual National Gap Analysis Program Meeting*, Duluth, MN, August 2-6 (Oral).
- Stewart, A.M., K.P. Price, C.L. Lauer, and E.A. Martinko. 1999.** Comparison of an expert system classification with a supervised classification for differentiating grassland types in northeastern Kansas. *ASPRS Annual Meetings*, Portland, OR, May 17-21 (Oral).
- Peterson, D.L., K.P. Price, and E.A. Martinko. 1999.** Spectral characteristics of grazed warm and cool season grasslands in Douglas County, Kansas. *Annual Meeting of the National Association of Environmental Professionals*, Kansas City, MO, June 20-24 (Oral).
- Price, K.P., X. Guo, and J. Stiles. 1999.** Discriminant analysis of Landsat TM multi-temporal data for six grassland management practices in Eastern Kansas. *Annual Meetings, American Society of Photogrammetry & Remote Sensing*, Portland, OR, May 17-21 (Oral).
- Guo, X., K.P. Price, and J. Stiles. 1999.** Multitemporal spectral characteristics of three land management practices on cool and warm season grasslands in Eastern Kansas. *National Association of Environmental Professionals Annual Meetings*, Kansas City, June 20-24 (Oral).
- Houts, M.E., E.A. Martinko, and K.P. Price. 1999.** Monitoring gray wolf populations in the Northern Rocky Mountains. *ASPRS Annual Meetings*, Portland, OR, May 17-21 (Oral).
- Kastens, D.L.A., K.P. Price, E.A. Martinko, and T.L. Kastens. 1999.** Estimating pre-harvest wheat yields from time-series analysis of remotely sensed data. *Annual Meetings, American Society of Photogrammetry & Remote Sensing*, Portland, OR, May 17-21 (Oral).

- Price, K.P., X. Guo, and J. Stiles. 1999.** Discrimination of six grassland management practices using merged Landsat TM and ERS-2 SAR data. *84th Annual Meetings of Ecological Society of America*, Spokane, WA, August 8-12 (Oral).
- Blodgett, C.F., M.E. Jakubauskas, C.L. Lauver, K.P. Price, and L. Bian. 1999.** Geostatistical modeling of forest canopy structure, Grand Teton National Park. *Annual Meetings, American Society of Photogrammetry & Remote Sensing*, Portland, OR, May 17-21 (Oral).
- Griffith, J., K.P. Price, and E.A. Martinko. 1999.** Differences in biophysical parameters of tallgrass prairie in Eastern Kansas between land management regimes and years. *Annual Meeting of the National Association of Environmental Professionals*, Kansas City, MO, June 20-24 (Oral).
- Wang, J., K.P. Price, and P. Rich. 1998.** Relationship between NDVI and precipitation in Kansas during an eight-year period (1989-1996). *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26 (Oral).
- Ellis, J., L. Christensen, R. Lee, K. Price, L. Li, X. Zhang, Z. Chen, and P. Shi. 1998.** Integrated assessment of climate and land use on the Mongolian Steppe. *2nd Land Use in Temperate East Asia: Current Status and Future Trends (LUTEA) Conference*, Beijing, China, (Interactive poster).
- Egbert, S.L., J.R. Lander, and K.P. Price. 1998.** Effect of rainfall events on spectral response patterns in Landsat Thematic Mapper imagery. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive poster).
- Yu, F., K.P. Price, and R. Lee. 1998.** Annual variability of Inner Mongolia grassland phenology as influenced by climate. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive poster).
- Lee, R., and K.P. Price. 1998.** Modeling corn yield using multitemporal remotely sensed data. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive poster).
- Lauver, C., C. Blodgett, S. Egbert, E.A. Martinko, K.P. Price, E. Ellis, J. Riffer, and S. Kennedy. 1998.** Mapping the natural vegetation of Kansas. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive poster).
- Kennedy, S.S., K.P. Price, S.L. Egbert, and E.A. Martinko. 1998.** Mapping crop types and irrigation status in Haskell County, Kansas using multi-seasonal Landsat Thematic Mapper data. *Annual Meetings, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive Poster).
- Blodgett, C.F., J. Riffer, S. Egbert, C.L. Lauver, K.P. Price, E.A. Martinko, and P. Budde. 1998.** Vegetation mapping of the Tallgrass Prairie National Preserve by exploiting the annual and seasonal variability of Landsat Thematic Mapper data. *Annual Meeting, Great Plains/Rocky Mountain Division of the Association of American Geographers*, Lawrence, KS, September 24-26 (Oral).
- Kastens, D.L., K.P. Price, E.A. Martinko, and T.L. Kastens. 1998.** Assessing wheat conditions in Kansas using biweekly AVHRR datasets and crop phenological indices. *Annual Meetings, Great Plains/Rocky Mountain Regional Division, Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive poster).
- Miller, M.R., and K.P. Price. 1998.** The identification of tallgrass prairie in Eastern Kansas using a Landsat multitemporal approach. *Annual Meetings, Great Plains/Rocky Mountain Regional Division Meetings, Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive Poster).
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1998.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *Annual Meetings, Great Plains/Rocky Mountain Regional Division, Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive poster).
- Guo, X., K.P. Price, and J. Stiles. 1998.** Effects of management practices on biophysical and spectral features for selected grasslands in Eastern Kansas. *Annual Meetings, Great Plains/Rocky Mountain Regional Division Meetings, Association of American Geographers*, Lawrence, KS, September 24-26 (Interactive poster).
- Jakubauskas, M.E., K. Kindscher, A. Fraser, D. Debinski, and K.P. Price. 1998.** Hyperspectral remote sensing of spatterdock (*Nuphar polysepalum*) cover in Grand Teton National Park, Wyoming. *Annual Meetings, Great Plains/Rocky Mountain Regional Division, Association of American Geographers*, Lawrence, KS, September 24-26 (Oral).
- Kastens, D.L., K. P. Price, E.A. Martinko, and T.L. Kastens. 1998.** Assessing wheat conditions in Kansas using biweekly AVHRR datasets and crop phenological indices. *First International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, Florida. June 1-3 (Interactive poster).
- Price, K.P., E.A. Martinko, and A. J. Tuyahov. 1998.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *First International Conference on Geospatial Information in Agriculture and Forestry*, Lake Buena Vista, Florida. June 1-3 (Interactive poster).
- Blodgett, C.F., C.L. Lauver, S.L. Egbert, E.A. Martinko, K.P. Price, E.K. Ellis, and J.C. Riffer. 1998.** A supervised approach to mapping the natural vegetation of Kansas. *8th Annual Meeting, National Gap Analysis Program*, Santa Barbara, CA, July 20-24 (Interactive Poster).

- Blodgett, C.F., M.E. Jakubauskas, C.L. Lauver, K.P. Price, and L. Bian. 1998.** Geostatistical modeling of forest canopy structure, Grand Teton National Park. *94th Annual Meeting, Association of American Geographers (AAG)*, Boston, MA, March 25-28 (Oral).
- Price, K.P., R. Lee, F. Yu, and J. Ellis. 1998.** Annual variation of Inner Mongolian grassland phenology as influenced by climate. *94th Annual Meeting, Association of American Geographers (AAG)*, Boston, MA, March 25-28 (Interactive poster).
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1998.** Applied remote sensing and its role in the transfer of technology and products to the commercial sector. *94th Annual Meeting, Association of American Geographers (AAG)*, Boston, MA, March 25-28 (Interactive poster).
- Lee, R., F. Yu, K.P. Price, and J. Ellis. 1998.** Annual variation of Inner Mongolian grassland phenology as influenced by climate. *2nd Land Use in Temperate East Asia: Current Status and Future Trends (LUTEA) Conference*, Beijing, China, March 2-5 (Interactive Poster).
- Martinko, E.A., and K.P. Price. 1998.** The Earth System Science Initiatives on the Great Plains network. *Kansas Statewide EPSCoR Conference*, Topeka, KS, February 19 (Interactive poster).
- Blodgett, C.F., S.L. Egbert, E.A. Martinko, K.P. Price, C.L. Lauver, A.M. Stewart, M. Ortega-Huerta, and R. Boyce. 1997.** A multi-seasonal approach to mapping Kansas' natural vegetation. *7th Annual Gap Analysis Principal Investigator's Meeting*, Reston, VA, August 4-8 (interactive poster).
- Egbert, S.L., R. Lee, K.P. Price, M.D. Nellis, and R. Boyce. 1997.** Mapping Conservation Reserve Program (CRP) lands using multi-seasonal Thematic Mapper imagery. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4 (Oral).
- Martinko, E.A., and K.P. Price. 1997.** Direct downlink data needs to support research and commercialization in Kansas. *NASA EOS Direct Broadcast Conference*, Pasadena, CA, December (Invited Speaker).
- Price, K.P., and E.A. Martinko. 1997.** Earth System Science research activities in Kansas. *Earth System Science Conference, Sponsored by the National Science Foundation and AAAS*, Sioux Falls, SD, November (Invited speaker).
- Price, K.P. 1997.** Mapping Kansas using satellite imagery. *Kansas Association of Mapper*, Lawrence, KS, October 8 (Invited speaker).
- Egbert, S.L., and K.P. Price. 1997.** Development of a land use mapping and monitoring protocol for the Great Plains. *NASA Land Cover Land Use Change Program, First Science Meeting*, Warrenton, VA, April 8-10 (Invited paper).
- Martinko, E.A., and K.P. Price. 1997.** The development of a statewide land use/land cover digital database for Kansas. *NASA Regional Validation Center Workshop, Mission to Planet Earth Program*, Goddard Space Flight Center, September (Invited speaker).
- Price, K.P. 1997.** Green grow the crops: Predicting crop condition. *Ag-Vision 2000+. Soil and Crop Management Conference and Trade Show*, Lawrence, KS, January 30 (Invited speaker).
- Bork, E.W., K.P. Price, and N.E. West. 1997.** *In situ* narrow-band reflectance characteristics of cover components in a sagebrush-steppe. *Annual Meetings of the Ecological Society of America*, Albuquerque, NM, August (Poster paper).
- Boyce, R.P., K.P. Price, E.A. Martinko, and R. Rodgers. 1997.** Multitemporal analysis of Landsat remotely sensed data to identify lesser prairie chicken habitat in Southwest Kansas. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4 (Poster paper).
- Boyce, R.P., K.P. Price, E.A. Martinko, and R. Rodgers. 1997.** Multitemporal analysis of Landsat remotely sensed data to identify lesser prairie chicken habitat in Southwest Kansas. *Annual Meetings of the ACSM-ASPRS-RT-Auto Carto*, Seattle, WA, April 7-10 (Poster paper).
- Egbert, S.L., R.Y. Lee, K.P. Price, M.D. Nellis, and R. Boyce. 1997.** Mapping Conservation Reserve Program (CRP) lands using multi-seasonal Thematic Mapper imagery. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4.
- Stewart, A.M., Price, K.P., and C.L. Lauver. 1997.** Differentiating land management practices on warm and cool season grasses using multitemporal satellite imagery. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4 (Poster paper).
- Stewart, A.M., Price, K.P., and C.L. Lauver. 1997.** Differentiating land management practices using multitemporal satellite imagery. *Annual Meetings of the ACSM-ASPRS-RT-Auto Carto*, Seattle, WA, April 7-10 (Poster paper).
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1997.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *93rd Annual Meeting of the Association of American Geographers (AAG)*, Forth Worth, TX, April 1-4.
- Price, K.P., E.A. Martinko, and A.J. Tuyahov. 1997.** A model for developing and transferring remote sensing technologies and products to the commercial sector. *Kansas Academy of Sciences*, Fort Hays University, April 11-12.
- Dunham, J.W., and K.P. Price. 1997.** Seasonal multispectral responses of tallgrass prairie under different management practices. *93rd Annual Meeting, Association of American Geographers (AAG)*, Dallas, TX, April 1-4.
- Price, K.P. 1996.** Greenness report. NASA sponsored feature speaker for the *1996 Western Farm Show, American Royal Complex*, Kansas City, MO, February 24-26 (Made four presentations at this conference).

- Price, K.P., S.L. Egbert, M.D. Nellis, and R.-Y. Lee. 1996.** Developing a land cover modeling procedure for the High Plains using multi-temporal Thematic Mapper imagery. *26th International Symposium on Remote Sensing of Environment, 18th Annual Symposium of the Canadian Remote Sensing Society*, Vancouver, BC, Canada, March 25-29 (Invited speaker for Special Session — NASA EOSDIS, Extensions and Applications).
- Lauver, C.L., K.P. Price, C.F. Blodgett, and A. Stewart. 1996.** Mapping land cover for the Kansas GAP analysis project. *19th Annual Applied Geography Conference*, Kansas City, MO, October 16-19.
- Price, K.P., S.L. Egbert, M.D. Nellis, and R. Lee. 1996.** Developing a land cover modelling procedure for the High Plains using multi-date Thematic Mapper imagery. *19th Annual Applied Geography Conference*. Kansas City, MO, October 16-19.
- Jakubauskas, M.E. and K.P. Price. 1996.** Mapping lodgepole pine successional stages in Yellowstone National Park using Landsat Thematic Mapper data. *19th Annual Applied Geography Conference*, Kansas City, MO, October 16-19.
- Price, K.P., S.L. Egbert, M.D. Nellis, and R. Lee. 1996.** Developing a land cover modelling procedure for the High Plains using multi-date thematic mapper imagery. *128th Annual Meeting of the Kansas Academy of Science*, Emporia State University, Emporia, KS, March 21-22 (Invited paper for the geospatial analysis in the Great Plains special session).
- Wu, J., M. Ransom, M.D. Nellis, and K. Price. 1996.** Analyzing soils and land use relationships, by remote sensing and GIS. *American Society of Agronomy*, Indianapolis, IN, November 1996.
- Nellis, M.D., and K.P. Price. 1996.** The sustainability of rural land use systems in Western Kansas: Myth or reality. *28th International Geographical Congress*, The Hague, The Netherlands, August 1996.
- Price, K.P., E.A. Martinko, and D.C. Rundquist. 1996.** Relationships between multitemporal spectroradiometer measurements and biophysical characteristics of prairie treatments. *ASPRS/ACSM Annual Convention*, Baltimore, MD, April 22-24.
- Price, K.P., E.A. Martinko, and D.C. Rundquist. 1996.** Relationships between multitemporal spectroradiometer measurements and biophysical characteristics of prairie treatments. *AAG Annual Convention*, Charlotte, NC, April 9-13.
- Price, K.P., E.A. Martinko, and D.C. Rundquist. 1996.** Relationships between multitemporal spectroradiometer measurements and biophysical characteristics of a prairie under different land management practices. *PECORA13*, Sioux Falls, SD, August 19-22.
- Nellis, M.D., K.P. Price, J. Wu, and S. Egbert. 1996.** Natural resource capability of CRP lands as grasslands in Southwest Kansas: A remote sensing and GIS perspective. *Society of Range Management National Meeting, GIS/Remote Sensing Symposium*, Wichita, KS, February 1996 (Invited paper).
- Price, K.P. 1995.** The role of remote sensing in geography. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18 (Invited panelist - Other panelists included: John E. Estes, John R. Jensen, Jerome Dobson, M. Duane Nellis, and James R. McDonald.).
- Price, K.P., M.D. Nellis, S.L. Egbert, and R. Lee. 1995.** Modelling high plains land cover using multirate thematic mapper imagery. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.
- Price, K.P., S.L. Egbert, M.D. Nellis, and R. Lee. 1995.** Development of a land use/land cover mapping protocol for a high plains agro-ecosystem using multi-temporal Landsat satellite imagery. *University of Kansas Environmental Research Symposium*, University of Kansas, Lawrence, KS (Sponsored by Center for Environmental Education).
- Nellis, M.D., J. Wu, M. Ransom, K.P. Price, and S.L. Egbert. 1995.** Evaluating conservation reserve program land in Southwest Kansas using remote sensing and GIS techniques. *Great Plains-Rocky Mountain AAG*, Rapid City, SD.
- Nellis, M.D., J. Wu, M. Ransom, K.P. Price, and S.L. Egbert. 1995.** Evaluating conservation reserve program land in Southwest Kansas using remote sensing and GIS techniques. *Agronomy Society of America*, St. Louis, MO.
- Dunham, J.W., and K.P. Price. 1995.** Spectral reflectance response of prairie treatments under different management practices. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.
- Prante, M.C., W. Dort, and K.P. Price. 1995.** An alternative hypothesis for quaternary evolution of the Kansas landscape. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.
- Jakubauskas, M.E., and K.P. Price. 1995.** The tasseled cap revisited: Remote sensing of forest succession in Yellowstone National Park. *91st Annual Meeting of the Association of American Geographers (AAG)*, Chicago, IL, March 14-18.
- Price, K.P., P.M. Rich, and R. O'Neal. 1995.** Deriving high resolution canopy digital elevation models. *ACSM/ASPRS '95 Annual Convention and Exposition*, Charlotte, NC, February 27-March 2.
- Ingram, B.G., K.P. Price, and K.E. Church. 1994.** Differentiating pheasant habitat using the semivariance of satellite data. *56th Midwest Conference*, Indianapolis, IN, December 4-7, p. 115 (Abstract).
- Price, K.P., P.M. Rich, and R. O'Neal. 1994.** Development of digital canopy models (DCMs) using digital stereopairs. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Ingram, B.G. and K.P. Price. 1994.** Differentiating pheasant habitat using the semivariance of satellite data. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Dunham, J.W., and K.P. Price. 1994.** Hyperspectral characterization of prairie treatments using multiple-view angle multitemporal measurements. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.

- Jakubauskas, M.E., and K.P. Price. 1994.** Landsat thematic mapper characterization of coniferous forest succession. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Miller, D.W., and K.P. Price. 1994.** A model for transferring remote sensing and GIS technologies to small business. *90th Annual Meeting of the Association of American Geographers (AAG)*, San Francisco, CA, March 29-April 2.
- Price, K.P., P.M. Rich, and R. O'Neal. 1994.** Measurement and 3-dimensional modeling of plant canopies using remotely sensed data. *126th Kansas Academy of Science Meeting*, Washburn University, Topeka, KS, April 7-8.
- Ingram, B.G., K.P. Price, and K. Church. 1994.** Differentiating pheasant habitat using the semivariance of satellite data. *126th Kansas Academy of Science Meeting*, Washburn University, Topeka, KS, April 7-8.
- Dunham, J.W., and K.P. Price. 1994.** Spectral characterization of prairie treatments using multiple-view angle multitemporal measurements. *126th Kansas Academy of Science Meeting*, Washburn University, Topeka, KS, April 7-8.
- Cwick, G.J., M.P. Bishop, S. Hamidullah, J.L. Ward, J.F. Shultz, and K.P. Price. 1994.** Hyperspectral remote sensing of hydrocarbon microseepage effects on longleaf pine (*Pinus palustris*). *Tenth Thematic Conference Geologic Remote Sensing*, San Antonio, TX, May 9-12 (Invited Plenary Session paper).
- Jakubauskas, M.E., and K.P. Price. 1993.** Spectral-ecological characterization and mapping of forest cover types in Yellowstone National Park, Wyoming. *Proceedings of the Second Biennial Scientific Conference on the Greater Yellowstone Ecosystem*, Mammoth, WY, September 19-21.
- Price, K.P., V.C. Varner, E.A. Martinko, D.C. Rundquist, and J.S. Peake. 1993.** Influences of land management and weather on plant biophysical and hyperspectral response patterns of tallgrass prairies in Northeastern Kansas. *PECORA12*, Sioux Falls, SD, August 24-26.
- Shultz, J.F., M. Bishop, K.P. Price, G. Cwick, and J. Ward. 1993.** Hyperspectral remote sensing of hydrocarbon microseepage effects on sweetgum (*Liquidamber styraciflua*). *PECORA12*, Sioux Falls, SD, August 24-26 (Poster session).
- Ingram, B., and K.P. Price. 1993.** Pheasant habitat differentiation using satellite data and semivariance. *Mid-Continent CRP Conference -- Will There Be a Lasting Conservation Legacy?*
- Rich, P.M., K.P. Price, R.D. Holt, and F.J. Barnes. 1993.** Spatially explicit models of microclimate and ecophysiology within pinyon-juniper woodland canopies: A GIS and remote sensing approach. *Annual Meeting, Ecological Society of America*, Madison, WI, July 31-August 4.
- Dewey, S.L., F. deNoyelles, Jr., K.P. Price, J. Schalles, and A. Clements. 1993.** Predicting stream periphyton biomass from spectral reflectance using a high-resolution, hand-held spectroradiometer. *Annual Meeting, Ecological Society of America*, Madison, WI, July 31-August 4.
- Rich, P.M., F.J. Barnes, and K.P. Price. 1993.** Spatial patterns of canopy architecture in pinyon-juniper woodlands: Inferences from stand allometry and remote sensing. *Eighth Annual U.S. Landscape Ecology Symposium, International Association of Landscape Ecology*, Oak Ridge National Laboratory, Oak Ridge, TN, March 24-27.
- Price, K.P. 1993.** Identifying noxious weed invasion sites with remote sensing. *Fifty-Fifth Annual Weed Conference*, County Weed Directors Association of Kansas, Lawrence, KS, February 22-25 (Invited speaker).
- Price, K.P., V.C. Varner, E.A. Martinko, D.C. Rundquist, and J.S. Peake. 1993.** Analysis of multitemporal narrow-band spectroradiometer measurements from six prairie treatments in Kansas. *ASPRS/ACSM 1993 Annual Convention and Exposition*, New Orleans, LA, February 16-18.
- Dunham, J.W., and K.P. Price. 1993.** Relationships between tallgrass prairie canopy architecture and close range off-nadir hyper-spectral reflectance patterns. *ASPRS/ACSM 1993 Annual Convention and Exposition*, New Orleans, LA, February 16-18.
- Lee, R., and K.P. Price. 1993.** Effects of TM tasseled cap transformations and an edge enhancement of land use/land cover classification accuracy. *ASPRS/ACSM 1993 Annual Convention and Exposition*, New Orleans, LA, February 16-18.
- Baumgartner, D.W., and K.P. Price. 1993.** An integrative change detection approach utilizing remotely sensed data and geographic information systems. *ASPRS/ACSM 1993 Annual Convention and Exposition*, New Orleans, LA, February 16-18.
- Rich, P.M., F.J. Barnes and K. P. Price. 1993.** Spatial patterns of canopy architecture in pinyon-juniper woodlands: Inferences from stand allometry and remote sensing. *Eight Annual U.S. Landscape Ecology Symposium, International Association of Landscape Ecology*, Oak Ridge National Laboratory, Oak Ridge, TN, March 24-27.
- Price, K.P. 1993.** Use of landsat satellite imagery to predict soil erosion from pinyon-juniper woodlands. *Kansas Soil Classifiers Meetings*, Salina, KS, January 29, 1993 (Invited speaker).
- Varner, V.C., K.P. Price, E.A. Martinko, and D.C. Rundquist. 1992.** Analysis of multitemporal measurements of prairie bioproductivity indicators and their influence on hyperspectral reflectance patterns. *Association of American Geographers, Great Plains/Rocky Mountain Division Annual Meeting*. Manhattan, KS, October 8-10.
- Price, K.P. and S.A. Dewey. 1992.** Integrating remote sensing and GIS to predict potential areas of invasion by dyer's woad. *Association of American Geographers, Great Plains/Rocky Mountain Division Annual Meeting*, Manhattan, KS, October 8-10.

- Price, K.P. 1992.** Remote sensing instructional approaches and facilities at the University of Kansas. *27th International Geographical Congress Meetings*, Washington, DC, August 9-14.
- Price, K.P., V.C. Varner, E.A. Martinko and D.C. Rundquist. 1992.** Analysis of 252 band spectroradiometer data to spectrally characterize selected prairie types in Kansas. *Kansas and Space Symposium, 124th Annual Meetings of Kansas Academy of Science*, Hutchinson, KS, March 26-27.
- Price, K.P. 1992.** Environmental monitoring as assessment through an integrated GIS and remote sensing approach. *Mid-America GIS Symposium--Promoting Cooperation in the 1990s*, Overland Park, KS, May 4-7.
- Price, K.P. 1992.** Earth observations from space provide invaluable information for environmental monitoring and assessment. *Kansas and Space Symposium, 124th Annual Meetings of Kansas Academy of Science*, Hutchinson, KS, March 26-27.
- Price, K.P. 1992.** Detection of soil erosion within pinyon-juniper woodlands using Thematic Mapper (TM) satellite data. *Annual Meetings of the Kansas Society of Soil Mappers*, Salina, KS, February 28-29 (Invited speaker).
- Price, K.P., V.C. Varner, E.A. Martinko, and D.C. Rundquist. 1992.** Analysis of multitemporal narrow-band spectroradiometer measurements from six prairie treatments in Kansas. *ASPRS/ACSM '92 Annual Convention and Exposition*, Albuquerque, NM, February 29-March 5, pp. 372-385.
- Price, K.P., and M.K. Ridd. 1991.** Detection of soil erosion within pinyon-juniper woodlands using Thematic Mapper (TM) satellite data. *1991 ACSM/ASPRS/Auto-Carto 10 Annual Convention*, Baltimore, MD, March 25-29.
- Cohan, D., and K.P. Price. 1990.** Improvement of land cover classifications due to removal of the topographic effects from Landsat data. *86th Annual Meeting of the Association of American Geographers (AAG)*, Toronto, Canada, April 19-22.
- Price, K.P., L.R. Mendes, and D.L. Verbyla. 1989.** The use of satellite remotely-sensed digital data in determining the cause of catastrophic dieoff of shrublands in the Great Basin. *Association of American Geographers Annual Meeting*, Baltimore, MD, March 17-23.
- Dewey, S.A., and K.P. Price. 1989.** A satellite remote sensing technique to predict future distribution of dyers woad (*Isatis tinctoria*) on the Cache National Forest. *Western Society of Weed Science Meetings*, Honolulu, HI, March 14-16.
- Price, K.P. 1989.** Detection of soil erosion with Thematic Mapper satellite data within pinyon-juniper woodlands. *Geoprocessing and Surveying Conference - A User's Perspective*, Boise, ID, March 8-10.
- Price, K.P. 1989.** Landsat/ancillary data classification of desert rangeland. *Geoprocessing and Surveying Conference - A User's Perspective*, Boise, ID, March 8-10.
- Doremus, L., C. Forster, C. Duffy, and K.P. Price. 1989.** Use of remotely sensed Landsat images to study groundwater discharge form a closed desert basin. *American Geophysical Union*, Baltimore, MD, May 8-12.
- Price, K.P. 1988.** Utility of satellite remotely sensed data and geographic information systems for research and modeling of wildlands. *Range Research Conference*, Utah State University, Logan, UT, March 24-25 (Invited speaker).
- Price, K.P. 1988.** Detection of soil erosion with Thematic Mapper (TM) satellite data within pinyon-juniper woodlands of central Utah. *Association of American Geographers Annual Meeting*, Phoenix, AZ, April 6-10.
- Price, K.P. 1987.** Potential of satellite remotely sensed data for environmental research. *Fifth Wildland Shrub Symposium, Shrub Research Consortium*, Utah State University, Logan, UT, June 30-July 2 (Invited speaker).
- Price, K.P. 1987.** Satellite remote sensing: New wave for national resource inventory (NRI). *Association of American Geographers Annual Meeting*, Portland, OR, April 22-26.
- Price, K.P., and M.K. Ridd. 1987.** Using TM data to estimate soil erosion in pinyon-juniper woodlands. *4th Aridlands Remote Sensing Workshop*, University of California at Berkeley, CA, March 23-28.
- Price, K.P. 1986.** The capabilities of modern remote sensing technology and its application to soil science. *Utah Society of Soil Scientists Annual Meeting*, Orem, UT (Invited speaker).
- Price, K.P., M.K. Ridd, and J.A. Merola. 1985.** An integrated landsat/ancillary data classification of desert rangelands. *ASP-ACSM Convention, Technical Papers 51st Annual Meeting ASP*, Washington DC, 2:538-545.
- Price, K.P. 1982.** Adaptive strategies of cliffrose (*Cowania mexicana* var. *stansburiana*) in central Utah. *Intermountain Bitterbrush Symposium, USDA Intermountain Forest Service Experiment Station*, Provo, UT.

REFEREED GRANTS:

Since the mid 1980s, Dr. Price is, or has been the PI or CO-PI on over \$25 million dollars in grants, contracts and donations.

Refereed Grants in Review:

- Brown, J.C. and K. P. Price. 2005.** Collaborative research: mechanized agriculture and land-use and land cover change in Amazonia. NSF, Geography and Regional Science. \$220,432. (*Declined*)
- Brown, J.C. and K. P. Price. 2004.** Collaborative research: mechanized agriculture and land-use and land cover change in Amazonia. NSF, Geography and Regional Science. \$599,547 (*Declined*)

Brown, J.C. and K. P. Price. 2004. Collaborative research: mechanized agriculture and land-use and land cover change in Amazonia. NSF, Geography and Regional Science. \$232,225 (*Declined*)

Refereed Grants Awarded: (Total of 74 grants totaling over \$25 million):

- Price, K.P., and E.A. Martinko. 2004.** Developing a national drought insurance program for rangeland, pastureland and dry land hay using a remote sensing time-series analysis approach. TerraMetric, Inc. 8/12/04 - 6/31/07 \$281,000 + Watts & Associates and TMI \$2,845,552.64 = \$3,126,552.64 total grant amount.
- Foster, B.L., R.H. Hagen, R.D. Holt, E.A. Martinko and K.P. Price. LTREB: Long-term studies of population and community ecology in an experimentally fragmented landscape.** NSF - \$300,000 (7/01/03-6/31/08).
- Price, 2003.** Desertification and Regeneration: Modelling the Impact of Market Reforms on Central Asian Rangelands (DARCA), The Macaulay Institute, Craigiebuckler, Aberdeen, AB15 8QH, UK (01/31/03 - 6/31/04) \$60,000.
- Peterson, D., J. Whistler, E. Martinko, T. Crooks, S. Egbert, K. Price. 2002.** Kansas Satellite Image Database (KSID). Kansas GIS Policy Board, \$60,442 Awarded (7/1/03 –6/30/04).
- Martinko, E.A., J. Thorp, M. Jakubauskas, D. Huggins, J. Whistler, F. deNoyelles, J. Dobson, P. Liechti, and K.P. Price. 2002.** Development of watershed classification systems for diagnosis of biological impairment in watersheds and their receiving water bodies. EPA 2002-STAR Program. \$1,149,266 (10/01/02 - 9/30/05).
- Whistler, J.L., S.L. Egbert, K.P. Price, E.A. Martinko, A.M. Stewart, D. Peterson. 2002.** Landsat 7 Satellite Imagery Database. State GIS Policy Board - \$57,5000 (07/01/02-06/30/03).
- Price, K.P., E.A. Martinko, S.L. Egbert, and F.J. deNoyelles, J. Kastens, and J. Lomas. 2002.** Research in the incubation of commercial remote sensing products. NASA Earth Science Enterprise, Applications Program – \$150,000 (1/1/02-12/31/03).
- Ellis, J., N.T. Hobbs, R. Behnke, P. Thornton, R. Boone (PI/Co-PI), M. Stafford Smith, A. Ash, M. Coughenour, K. Galvin, J. Gross, C. Kerven, K. Price, R. Reid, A. Seidl, C. Togtohyn (Scientific Investigators), I. Alimaev, Chen Zhuzong, J. Dodd, J. Ludwig, M. Peel, M. Rainy, J. Reardon-Anderson, D. Sneath (Collaborators). 2001.** Biocomplexity, Spatial Scale and Fragmentation: Implications for Arid and Semi-arid Ecosystems (Scale). NSF Biocomplexity Program. (10/15/01 - 10/14/06) (DEB-0119618) \$1.9 million (KU Subcontract \$125,000).
- Price, K. P., E. A. Martinko, S.L. Egbert, M.E. Jakubauskas, T. Crooks, J.L. Whistler, B. Foster, C. Martin, K. Kindscher, D. Kettle, H. Tian. 2001.** Linking remote sensing, land use, and carbon sequestration: insights from leaf to landscape scales in America's heartland. NASA Carbon Cycle. \$997,800. 6/1/01 - 5/31/03.
- Goodin, D., K. P. Price, J. Aber, J.A. Harrington, F. Pavri, M.E. Jakubauskas. 2001.** HYSPIRE: Hyper-resolution remote sensing of Kansas Rural Environments. \$716,100. KU subcontract for \$392,892.
- Johnson, L.C., K.P. Price, J.M. Blair, R. B. McKane. 2001.** Scaling up the ecosystem consequences of forest expansion in the Great Plains Region: A renewal proposal. NASA Carbon Cycle Science - Land Cover and Land Use Change. \$575,747. KU Subcontract for \$171,471 over 3 years. 9/15/01 - 9/14/04.
- Egbert, S.L. and K.P. Price. 2000.** Mapping and modeling the effects of CRP lands in western Kansas. Kansas Department of Wildlife and Parks - base budget = \$29,918, supplemental budget = \$20,747.
- Price, K.P., E.A. Martinko, S.L. Egbert, and F.J. deNoyelles. 2000.** Research in the incubation of commercial remote sensing products. NASA Earth Science Enterprise, Applications Program – \$100,000 (7/15/00-7/14/01).
- Whistler, J.L., S.L. Egbert, K.P. Price, E.A. Martinko, A.M. Stewart, D. Peterson. 2000.** Landsat 7 Satellite Imagery Database. State GIS Policy Board - \$59,850 (07/01/01-06/30/02).
- Holt, R.D., B.L. Foster, K.P. Price, P.M. Rich, and N.A. Slade. 2000.** Long-term studies of population and community ecology in an experimentally fragmented landscape. NSF - \$308,662 (7/01/00-6/31/04).
- Niebaum, J., K. Bishop, D.M. Grobe, L. Krishtalka, A. Melott, K.P. Price, and R.R. Summerhill.** Supplemental funding request for high-performance network connection in support of meritorious research at the University of Kansas. NSF - \$43,200 (11/1/99 - 10/31/01).
- Egbert, S.L., Price, K.P., and E.A. Martinko. 1999.** An evaluation of ASTER data for mapping irrigated agricultural crops in a Great Plains (USA) agro-ecosystem. ASTER AO Office, Earth Remote Sensing Data Analysis Center (ERSDAC) of Japan -- \$2,375 (12/15/99-12/31/01).
- Price, K.P., and E.A. Martinko. 1999.** Assessment of multi-date Landsat TM imagery for characterization of vegetation biodiversity in El Salvador: A prototype study. ProCafe -- \$17,604 (10/1/00 - 2/28/01).
- Ellis, J.E., M. B. Coughenour, R. Pielke, and K.P. Price. 1999.** Climate – ecosystem interactions on East Asian Steppes: Implications of climate change and land use intensity. NSF Models and Methods for Integrated Assessment – \$480,000 (10/1/99 - 9/30/02).
- Price, KP. 1999** Subcontract for \$120,027 10/1/99 - 9/30/02). ATM-0001478.

- Jakubauskas, M.E., E.A. Martinko, and K.P. Price. 1999.** Remote sensing-based geostatistical modeling for coniferous forest inventory and characterization. NASA NRA 98-OES-09 (Agriculture, Forestry, Rangeland Applications) – \$560,916 (4/01/99 - 3/31/02).
- Price, K.P., E.A. Martinko, S.L. Egbert, and F.J. deNoyelles. 1998.** Research in the incubation of commercial remote sensing products. NASA Earth Science Enterprise, Applications Program – \$150,000 (7/1/99-6/30/00).
- Martinko, E.A., K.P. Price, S.L. Egbert, J.L. Whistler, J.L. Stiles, and M.E. Jakubauskas. 1998.** The Great Plains Earth Science Applications Center (GP-RESAC): A consortium to transfer remote sensing products and technology to support the Great Plains Agroecosystem. NASA Regional Earth Science Applications Center -- \$2,050,000 (\$1,550,055 NASA, \$500,000 private sector) (10/1/98 - 9/30/01).
- Johnson, B.C., S.R. Bozarth, J.J. Feddema, B. Logan, K.P. Price, and D.W. Steeples. 1998.** Playas (“buffalo wallows”): Environmental barometers of the central Great Plains. KU Research Development Fund. \$30,846 – (1/4/99 - 6/30/00).
- Feddema, J.J., D. Bennett, E.A. Martinko, K.P. Price, and T. Slocum. 1998.** Modeling crop yield using water balance model and satellite imagery. University of Kansas Research and Development Fund Grant. \$40,578 -- (1/1/99 - 7/1/00).
- Price, K.P., and E.A. Martinko. 1998.** Modeling wildlife population dynamics using plant phenology metrics derived from multi-temporal AVHRR satellite imagery. Kansas Department of Wildlife and Parks – \$40,000 (8/01/98 - 7/31/2000).
- Price, K.P., and E.A. Martinko. 1998.** Development and testing of corn yield models for Iowa for the 1998 growing season using multitemporal remotely sensed data. Resource21 and Pro Exporter Network – \$19,921 (7/01/98 - 06/30/99).
- Price, K.P., E.A. Martinko, and S.L. Egbert. 1998.** Kansas land cover GIS database update. Kansas Water Office -- \$57,854 (7/1/98-6/30/99).
- Price, K.P., E.A. Martinko, S.L. Egbert, and F.J. deNoyelles. 1997.** Research in the incubation of commercial remote sensing products. NASA Mission to Planet Earth – \$150,000 + \$92,500 in satellite imagery for a total of \$242,500 (5/1/98-4/30/99).
- Price, K.P., and E.A. Martinko. 1997.** Kansas land cover database update. Kansas GIS Policy Board – \$64,210 (7/1/99-6/30/00).
- Niebaum, J., K. Bishop, D.M. Grobe, L. Krishtalka, A. Melott, K.P. Price, and R.R. Summerhill. 1998.** High-performance network connection in support of meritorious research at University of Kansas. NSF – \$550,000 (9/1/98 - 10/31/99).
- Price, K.P., S.L. Egbert, J.L. Whistler, E.A. Martinko, F. deNoyelles, and R.W. McColl. 1997.** An Interdisciplinary Center of Excellence in Environmental Remote Sensing at the University of Kansas. NASA 97-MTPE - \$362,676 (10/1/97 - 9/30/98).
- Price, K.P., E.A. Martinko, S.L. Egbert, and F.J. deNoyelles. 1997.** Research in the incubation of commercial remote sensing products. NASA Mission to Planet Earth -- \$140,431 (5/1/97-4/30/98).
- Price, K.P., and E.A. Martinko. 1997.** Kansas land cover database update. Kansas GIS Policy Board – \$57,854 (7/1/98-6/30/99).
- Peterson, T.A., K.P. Price, V.S. Cordero, J. Soberón, S.L. Egbert, and B.W. Buddemeier. 1997.** Biodiversity consequences of global climate change in Mexico. NSF – \$350,000 (10/1/97-9/30/2000).
- Price, K.P. 1996.** Geography departmental computer laboratory equipment upgrade. College of Liberal Arts and Sciences -- \$25,000.
- Price, K.P., and E.A. Martinko. 1996.** Kansas land cover database update. Kansas GIS Policy Board -- \$55,959 (7/1/96-6/30/97).
- Martinko, E.A., and K.P. Price. 1996.** GAP analysis in Kansas 1996-1999. Kansas Department of Wildlife and Parks -- \$135,000.
- Martinko, E.A., and K.P. Price. 1996.** Land cover classification for the Kansas GAP Analysis Project. U.S. National Biological Service – \$93,020 (10/09/96 - 10/08/99).
- Price, K.P., and E.A. Martinko. 1996.** Development of a land cover map at the vegetation alliance level for the State of Kansas. EPA -- \$90,000 (10/1/96-9/30/98).
- Humphries, J., and L. Krishtalka. 1996.** Acquisition of computer systems for creating analytical interfaces to diverse environmental data. NSF – \$362,003 (10/1/96-9/30/99). (Cooperators: P.M. Rich, A.T. Peterson, J.H. Beach, R.W. Moore, C. Tsatsoulis, K.P. Price, J.M. Gauch, S.E. Gauch, and R.D. Holt)
- Price, K.P., E.A. Martinko, and F.J. deNoyelles. 1996.** Research in the Incubation of commercial remote sensing products. NASA Mission to Planet Earth – \$146,956 (5/1/96-4/30/97).
- Price, K.P. 1996.** Modeling the effects of U.S. Conservation Reserve Program on agricultural nonpoint source pollution. University of Kansas General Research Funds – \$6,195 (7/1/96-6/30/97).
- Holt, R.D., P.M. Rich, K.P. Price, D. Kettle, and H. Alexander. 1996.** Enhancement of facilities for the Kansas Ecological Reserves. NSF Facilities Program – \$112,000 (4/96-3/98).
- Holt, R.D., P.M. Rich, K.P. Price, R. Pierotti, and D.M. Debinski. 1996.** Supplement to long-term studies of population and community ecology in an experimentally fragmented landscape. NSF Research Experience for Undergraduate Students Program – \$5,000 (4/96-3/97).

- Holt, R.D., P.M. Rich, W.D. Kettle, H.M. Alexander, and K.P. Price. 1996.** Enhancement of research facilities at the Kansas Ecological Reserves. NSF -- \$84,000 (2/96 - 2/98).
- Nellis, M.D., K.P. Price, J.S. Aber, C. Allen, S.P. Gogineni, J. Briggs, D. Goodlin, J. Harrington, and G. Henebry. 1996.** Spatial and spectral scale dimensions for modeling Kansas rural resource systems: projections for global change. NASA EPSCoR Program -- (The total award was for \$5,000,000, of which our project received \$590,118, and Price, Gogineni and Allen at KU were granted a subcontract for \$119,415.).
- Ellis, J.E., M.B. Coughenour, K.A. Galvin, C.J. Tucker, and K.P. Price. 1996.** Integrated assessment of the effects of climate and land use change on ecosystem dynamics, stability and resilience on the Mongolian steppe. NSF Global Change Research Program, Funding Opportunity I - Research to Integrate Multiple Components -- \$400,000 (Subcontract to **K.P. Price** this for \$156,470.) (1/96 -12/98). DEB-9523441).
- Lauver, C., and K.P. Price. 1995.** Land cover classification for the Kansas GAP analysis project. National Biological Service -- \$54,046 (10/9/95 - 10/8/96).
- Price, K.P., and M.D. Nellis. 1995.** Continuum of the NASA project titled, Development of a land use mapping and monitoring protocol for the Great Plains Region: A multitemporal remote sensing application. NASA NAGW-3810 -- \$100,000 per year + Landsat TM satellite images valued at over \$50,000 (1/95 - 12/95).
- Price, K.P., and M.D. Nellis. 1994.** Development of a land use mapping and monitoring protocol for the Great Plains Region: A multitemporal remote sensing application. NASA NAGW-3810 -- \$200,000 per year + 10 Landsat satellite images valued at \$48,000 (1/94 - 1/95).
- Price, K.P. 1993.** Three-dimensional canopy architectural modeling and structural characterization of deciduous forest successional stages. University of Kansas, General Research Fund -- \$1,498 (6/93-6/94),
- Holt, R.D., P.M. Rich, K.P. Price, R. Pierotti, and D. M. Debinski. 1993.** Long-term studies of population and community ecology in an experimentally fragmented landscape. National Science Foundation -- \$269,567 (9/93-8/98),
- Rich, P.M., S. Gogineni, S.P. Hamburg, R.D. Holt and K.P. Price. 1993.** Remote sensing and GIS approaches to understanding ecological impacts of global change. University of Kansas Research and Development Fund -- \$60,000 (7/93-7/95).
- deNoylles, F., Jr., D.G. Huggins, M.L. Johnson, P.M. Liechti, and K.P. Price.** Regionalization assessment of the influence of rural nonpoint source pollution on the ecological integrity of stream ecosystems and an evaluation of associated pollution control management. Environmental Protection Agency, Region VII, Kansas City, Kansas -- \$4,450,000 (7/91-7/94).
- Subproposals on the Nonpoint Pollution study by K.P. Price
- Price, K.P. 1993.** Use of remotely sensed multispectral, multitemporal and off-nadir SPOT satellite imagery for predicting nonpoint source pollution. \$79,613 (6/93-6/94).
- Price, K.P. 1992.** Close-range remote sensing using off-nadir spectroradiometer measurements of six prairie types in Kansas. \$42,601 (6/93-6/93).
- Price, K.P. 1992.** Watershed GIS database development and landscape analysis. \$57,805 (6/93-6/93).
- Price, K.P. 1991.** Close-range remote sensing of prairie types in Kansas. \$35,500 (6/91-6/92).
- Price, K.P. 1991.** GIS database development for sixteen watersheds in Iowa, Kansas and Nebraska. \$32,320 (6/91-6/92).
- Price, K.P., T.A. Slocum, R.F. Wiseman, G.F. McCleary, and L. Bian. 1993.** A proposal to enhance the analytical and physical geography courses at the University of Kansas. NSF -- \$90,704 (7/93-7/96).
- Price, K.P., and M.E. Jakubauskas. 1992.** Spectral-ecological characterization and mapping of forest habitat and cover types within Yellowstone National Park, Wyoming. University of Wyoming-National Park Service Research Center -- \$4,000 (7/92-7/93).
- Rich, P.M., K.P. Price, R.D. Holt, and F.J. Barnes. 1992.** Remote sensing and canopy modeling of pinyon-juniper and ponderosa pine woodlands along an elevational gradient: Studies of canopy geometry and solar radiation flux. Los Alamos National Laboratory, Subcontract 9XA1-X3682-1 -- \$84,000 (10/92-9/93).
- Price, K.P. (faculty advisor), and M.E. Jakubauskas. 1991.** Spectral-ecological modeling of forest successional dynamics using Landsat Thematic Mapper data and geographic information systems. NASA Global Climatic Change Graduate Fellowship -- \$66,000 (10/91-10/94).
- Price, K.P. 1991.** Prairie vegetation characterization using spectroradiometer measurements. University of Kansas General Research Fund -- \$6,021 (7/91-7/92).
- Dewey, S.L., E.A. Martinko, W. Matthews, M. Powers, K.P. Price, D. Rundquist, and J. Schalles. 1991.** Cascading trophic interactions in stream benthic communities and the application of close-range remote sensing for quantifying algal trophic level responses. NSF -- \$69,600 (8/91-7/93).
- Price, K.P. 1990.** Analysis of the spectral response patterns from prairie vegetation types. University of Kansas Faculty Research Program. Office of Graduate Studies and Research -- \$5,000 (7/90-7/91).
- Wagner, F., N.E. West, D.A. Pyke, J.P. Dobrowski, and K.P. Price. 1987.** Investigation of catastrophic shrub dieoff in the Great Basin. Environmental Protection Agency -- \$292,426 (6/87-6/89).

Price, K.P., and M.K. Ridd. 1985. Detection of soil erosion with Thematic Mapper (TM) satellite data within pinyon-juniper woodlands. Center for Remote Sensing and Cartography. CO-Funded by USDA Soil Conservation Service (SCS) and the National Aeronautic and Space Administration (NASA) -- \$47,000 (7/85-7/86).

NON-TRADITIONAL AWARDS:

Price, K.P. 1996. Halftime Research Associate Position. University of Kansas Research and Public Service and Support and College of Liberal Arts and Sciences -- \$90,000 (6/1/96-5/31/2000).

CONTRACTS (Total of 25 contracts for \$649,557; PI = \$236,430, CO-PI = \$413,127):

Price, K.P. and E.A. Martinko. 2001-2004. Supporting Kansas Department of Wildlife & Parks natural resource management objectives using geographic information systems (GIS) & remote sensing technologies. Kansas Department of Wildlife and Parks. \$155,000. (7/15/01 - 7/14/04).

Egbert, S.L., E.A. Martinko, and K. P. Price. 2000. Applying enhanced techniques to map irrigated agriculture in southwest Nebraska using multitemporal Landsat Thematic Mapper image classification. Kansas Department of Agriculture, Division of Water Resources, Topeka, KS -- \$10,257 (5/15/00 - 12/31/00) (In review).

Martinko, E.A., K.P. Price, S.L. Egbert, and J.L. Whistler. 1997. Mapping irrigated agriculture in southwest Nebraska using multitemporal Landsat Thematic Mapper image classification. Kansas State Board of Agriculture, Division of Water Resources -- \$251,764 (12/1/96-2/28/98).

Martinko, E.A., and K.P. Price. 1996. Mapping irrigated agriculture in Rawlins County, Kansas and Red Willow County, Nebraska — A pilot study using a multitemporal Landsat image classification approach. Kansas Department of Agriculture, Division of Water Resources -- \$94,814 (12/1/95-8/15/96).

Price, K.P., and E.A. Martinko. 1995. An inventory of Lesser Prairie Chicken habitat in southwestern Kansas -- A satellite remote sensing and GIS approach to rangeland classification. Kansas Department of Wildlife and Parks -- \$9,260 (6/25/95 - 10/1/97).

Price, K.P. 1994. Development of licensed angler survey and GIS data layers. National Biological Survey, Manhattan, Kansas Office -- \$4,000 (7/94-6/95).

Price, K.P. 1994. Analysis of wheat stubble management in western Kansas: A Landsat remote sensing application. \$3,400 (6/94-9/94).

Howick, G.L., and K. P. Price. 1994. Determining the proximity of apple orchards to aquatic habitat in selected counties in Michigan, New York, and Washington, Phase I: Available data and recommendations for making the actual determination. Mile, Inc., Agricultural Division -- \$9,281 (6/94-8/94).

Howick, G.L., and K.P. Price. 1994. A preliminary determination of the proximity of almond orchards to aquatic habitat in Kern, County, California. Mile, Inc., Agricultural Division -- \$8,368 (8/94-10/94).

Kettle, W.D., and K.P. Price. 1993. Monitoring above-ground biomass on the Rockefeller Experimental Tract. Kansas Ecological Reserves. -- \$800 (5/93-7/93).

Rich, P.M., R.D. Holt, W.D. Kettle, and K.P. Price. 1993. GIS, remote sensing, and data management infrastructure to enhance multidisciplinary research at the Kansas Ecological Reserves. Kansas Ecological Reserves -- \$2,600 (5/93-7/93).

Price, K.P. 1992. Estimating soil erosion rates from pinyon-juniper woodlands using the Soil Erosion DIrect measureMENT (SEDIMENT) technique. U.S. Soil Conservation Service (SCS), Salt Lake City, UT -- \$14,000 (6/92-6/93).

Price, K.P. 1992. The relationship between Conservation Reserve Program lands and ring-necked pheasants in Kansas: A semivariance application. -- \$25,000 (6/92-12/93).

Price, K.P. 1990. Mapping and correspondence analysis of irrigated agriculture in the Garden City, Kansas study area: A remote sensing and GIS approach. Simms and Stein, P. A. Attorneys at Law -- \$18,020 (5/90-7/90).

Wiseman, R.F., and K. P. Price. 1990. A proposal to develop a GIS Research Center. University of Kansas, College of Arts and Sciences -- \$10,000 (1/90-1/91).

Price, K.P. 1990. Use of radar to characterize sea ice in the Labrador Sea. Subcontract from Remote Sensing Laboratory, University of Kansas -- \$5,400 (1/90-6/90).

Price, K.P. 1989. Geography department equipment start-up funding. University of Kansas -- \$50,000 (7/89-7/90).

Price, K.P., and R.D. Ramsey. 1989. Comparison between Landsat and traditional forest sampling techniques: A remote sensing/GIS application. U.S. Forest Service, Region 4 -- \$12,450 (7/89-7/90).

Ramsey, R.D., and K.P. Price. 1989. Remote sensing workshop for U.S. Forest Service Personnel -- \$4,000 (April 17-21, 1989).

Price, K.P. 1989. Equipment grant for airborne video camera and recorder. Department of Geography, Utah State University. Funding from Utah Department of Agriculture -- \$6,500 (7/89-7/90).

Price, K.P. 1988. Development of a geographic information system (GIS) Database for Ogden District National Forest using Thematic Mapper (TM) satellite data and digital elevation models (DEM). U.S. Forest Service -- \$24,000 (7/88-7/89).

- Price, K.P. 1988.** Development of a Geographic Information System (GIS) database for Cache National Forest using Thematic Mapper (TM) satellite data and digital elevation models (DEM). Co-funded for \$21,354; Utah State University Faculty Grant -- \$12,054, and U.S. Forest Service -- \$9,300. (7/88-7/89).
- Price, K.P. 1987.** Data base development for Geographic Information Systems (GIS) analysis on the Cache District Forest. Cache District, U.S. Forest Service – \$2,400 (6/87-6/88).
- Price, K.P. 1986.** Equipment grant for image processing and Geographic Information Systems (GIS) analysis. Department of History and Geography, Utah State University. Utah State University Research Office – \$57,000 (7/86-7/87).
- Ridd, M.K., K.P. Price, and R.D. Ramsey. 1985.** Riparian habitat on the North Fork of the Humboldt River, Ryndon to Wildhorse, S.W. quadrangle. Nevada Department of Fish and Wildlife -- \$18,000 (5/85-5/86).
- Ridd, M.K., and K.P. Price. 1984.** Riparian habitat on the Mary's River Deeth to Mary's River Basin, S.E. quadrangle, Nevada. Nevada Department of Fish and Wildlife -- \$13,500 (5/84-5/85).
- Price, K.P., and M.K. Ridd. 1984.** Assessment of Landsat for rangeland mapping, Rush Valley, Utah. Utah Department of Agriculture -- \$5,000 (5/84-5/85).

DONATIONS (Four donations with an estimated value of \$90,500):

- Price, K.P. 1996.** ERDAS Vector Module software donation. Earth Resources Data Analysis Software (ERDAS), Atlanta, Georgia – \$7,500.
- Price, K.P. 1991.** Remote sensing and GIS software donation. 16 ERDAS VGA site licenses. Donated by Earth Resources Data Analysis Software (ERDAS), Atlanta, Georgia to Kevin Price to be used in the teaching GIS Workshops and courses in the Department of Geography. Educational discounted price – \$24,000.
- Price, K.P. 1990.** GIS/Remote Sensing Equipment and Software Private Donation from Norris Packer, President of SENSTAR, Inc., Fresno, CA. Donated to Kevin Price for assistance provided to his company. Donation valued at \$45,000.
- Price, K.P. 1990.** GIS/remote sensing equipment and software grant. College of Arts and Sciences, University of Kansas. Matching funding for the GIS/Remote Sensing Equipment and Software Donation by SENSTAR, Inc. – \$14,000.

CONSULTING:

Shook, Hardy & Bacon, L.L.P. Kansas City,

Shook, Hardy & Bacon is an international law firm currently in its 117th year. With 10 offices strategically located throughout the world, SHB serves a diversified client base with a wide range of practice groups. I have advised SHB lawyers on matters related to the use of satellite and airborne imagery for assessing environmental impacts.

TerraMetrics, Inc. (TMI), Campbell and Becker, Inc., Lawrence, KS.

I am assisting in the development of a new company that specializes in ecosystems monitoring and modeling. I am developing the remote sensing and GIS components of the company. This company represents an innovative approach to technology transfer and is already being used by NASA as a model for transfer of technology to private industry. The concept was proposed and the company developed at the encouragement of Vice Chancellor of Research, Professor Howard Mossberg. The company is partially owned by the University of Kansas, but most funding is from venture capitalists. Assisting in technology transfer of remote sensing and GIS technologies to private company. Developing commercial products for distribution to the agricultural community. Oversee the development of the *GreenReport®* and *Sea Surface Temperature Maps®*. Helping to establish the business distribution plans. Developed most of the funding for the development of the commercial products.

Research and Data Systems Corporation, Greenbelt, MD

Taught a three day workshop on advanced digital image processing techniques to the U.S. Department of Agricultural Foreign Services, in Washington, D.C. November 1997.

Hale and Dorr Associates, Attorney at Law, Boston, MA

I am directing the acquisition and interpretation of historic aerial photography to establish the probable date that over 200 barrels of toxic waste were dumped at a site. Damages due to the dumping are estimated between \$1.5 and \$150 million, depending upon the degree of spread within the ground water system. (This project is in progress.)

Miles, Inc., Agricultural Division, Stilwell, KS

Designed and am directing GIS database development for modeling wetland and water body susceptibility to pesticide contamination from apple and almond orchard spraying. This work is targeting the states of California, Washington, Michigan, and New York.

National Aeronautic and Space Administration (NASA), Washington, DC

Presented workshops throughout the United States on remote sensing applications for natural resources management.

GEONEX, Inc., St. Petersburg, FL

Proposal preparation and presentation for \$9 million grant to map U.S. National Park lands.

Mezzetti and Associates, Attorney at Law, Washington, DC

Assisted in revising sections of the U.S. Senate Bill H.R. 6133 that was approved by the Senate on October 7, 1992. I worked with Kansas Senators and Representatives, and other lobbyist throughout the country to repeal the Landsat Commercialization Act of 1984 and change policies regarding the pricing, acquisition and archiving of Landsat satellite imagery.

Simms and Stein, P. A. Attorney at Law, Santa Fe, NM

Prepared deposition questions for a Supreme Court hearing involving the case of Kansas versus Colorado water rights on the Arkansas River. Also used Landsat satellite imagery and a GIS to map irrigated lands in Kansas along the Arkansas River between the Colorado border and Garden City, Kansas.

Birds of Prey Refuge Area, Bureau of Land Management, Boise, ID

Served on advisory panel. Advised the BLM on how remote sensing can be used to inventory 800,000 acres of critical habitat now in reserve for raptors in the Birds of Prey Refuge Area.

SENSTAR Inc. 3170 North Chestnut, Suite 103, Fresno, CA 93703

Served as a consultant to assist in the use of remotely sensed data to monitor agricultural crops in the San Joaquin Valley. Also provided consultation in the use of the Earth Resource Data Analysis System (ERDAS) for analysis of digital spectral data.

Center for Remote Sensing and Cartography (CRSC), Salt Lake City, UT

University of Utah Research Institute (UURI) and Earth Resources Data Analysis Systems (ERDAS), Remote Sensing Workshop at Univ. Utah; Mr. Melvin B. Satterwhite, Dept, Army, Belvoir, Virginia; Mr. Douglas R. Ramsey, Manager, CRSC at Univ. of Utah.

U.S. Forest Service, Cache National Forest, 860 North 1200 East, Logan, UT 84321

Directing the development of a Geographic Information System data base for resource management planning of the Cache National Forest. Thematic Mapper (TM) satellite data was used to produce a forest vegetation map. Digital Elevation Models will be used to create topographic maps of percent slope, elevation and slope aspect. Configuration of an ERDAS workstation and taught a two day minicourse on how to use ERDAS.

White Horse Associates, Environmental Research, Survey and Assessments, Smithfield, UT 84335

Assisted in the development of a GIS database for riparian habitat on the Humboldt River System in Nevada. The data base will be used to model nonpoint environment impacts to the riparian system. The ARC/INFO GIS software is being used for watershed and soil erosion modeling.

U.S. Forest Service, Regional Office, Region 4, Ogden, UT

Instruction of personnel in the use of the Earth Resources Data Analysis System (ERDAS) for satellite image processing and GIS analysis. A video of my demonstration was produced and distributed to other interested Forest Service offices.

COURSES TAUGHT:

University of Kansas (1989 - present) Semester system

- GEOG 104 *Physical Geography*
- GEOG 304 *Environmental Conservation*
- GEOG 433 *Biogeography Field and Laboratory Methods*
- GEOG 498 *Special Topics in Geography*
- GEOG 531 *Topics in Physical Geography: Terrestrial Ecosystems*
- GEOG 526 *Remote Sensing of Environment I*
- GEOG 726 *Remote Sensing of Environment II*
- GEOG 733 *Advanced Biogeography Field and Laboratory Methods*
- GEOG 758 *Introduction to GIS*
- GEOG 898 *Readings in Geography*
- GEOG 958 *Advanced Readings in GIS*
- GEOG 980 *Seminar in Geography: GIS ARC/INFO Hands-on*
- GEOG 980 *Seminar in Geography: Practicum in GIS and Remote Sensing Research*
- GEOG 980 *Seminar in Geography: Advanced Remote Sensing*
- GEOG 980 *Seminar in Geography: GIS Database Design and Development*
- GEOG 980 *Seminar in Geography: Remote Sensing/GIS Applications*
- GEOG 980 *Seminar in Geog.: Landscape Ecology and Remote Sensing*
- GEOG 980 *Seminar in Geography: Quantitative Methods in Landscape Ecology*

University of Kansas (1989 - present) Semester system (*Continued*)

- GEOG 980 *Seminar in Geography: Applications in Softcopy Photogrammetry*
- GEOG 980 *Seminar in Geography: Quantitative Methods in Landscape Ecology*
- GEOG 980 *Seminar in Geography: Remote Sensing Field Techniques*
- GEOG 980 *Seminar in Geography: Hyperspectral Remote Sensing*
- GEOG 980 *Seminar in Geography: Carbon Sequestration in the Environment*

Utah State University (1986 - 1989) Quarter system

- GEOG 113 *Physical Geography*
- GEOG 185 *Map Interpretation*
- GEOG 390 *Statistics and Spatial Analysis*
- GEOG 571/671 *Aerial Photography Interpretation*
- GEOG 575/675 *Introduction to Remote Sensing*
- GEOG 576/676 *Advanced Remote Sensing and Digital Image Processing*
- GEOG 596/696 *Introduction to GIS*
- GEOG 699 *Readings and Conferences (GIS Database Development).*

University of Utah (1981 - 1986) Quarter system

- GEOG 185 *Map Interpretation*
- GEOG 390 *Statistics and Spatial Analysis*
- GEOG 571/671 *Aerial Photography Interpretation*
- GEOG 575/675 *Introduction to Remote Sensing*
- GEOG 576/676 *Advanced Remote Sensing and Digital Image Processing, GEOG 596/696 Introduction to GIS*
- GEOG 699 *Readings and Conferences (GIS Database Development)*

University of Utah (1981 - 1986) Quarter system

- GEOG 120 *Physical Geography,*
- *GEOG 302 *Spatial Analysis*
- *GEOG 593 *Study-Field Seminar in Resource Management*

Brigham Young University (1980 - 1982) Semester system

- *RANGE 365 *Range Forages,*
- *RANGE 462 *Range Management*
- *RANGE 466 *Range Improvements*
- *RANGE 527 *Wildland Shrubs*
- RANGE 566 *Range Plant Identification Team*

*Courses for which I was the Graduate Teaching Assistant.

SELECTED INVITED SEMINARS and GUEST LECTURE:

Invited Keynote Speaker – Grassland Societies, Australia 2003; Systematics and Ecology, Kansas Association of Mappers, Kansas Society of Soil Classifiers, Hutchinson, KS; Department of Botany, University of Wyoming; NASA Remote Sensing Workshop, University of Wyoming; Los Alamos National Laboratory, Environmental Science Group; University of Kansas, Departments of: Geography, Geology, and Environmental Studies; American Society of Spectroscopy, Region VI; Kansas Biological Survey; Environmental Protection Agency, Region VI; New Mexico State, Department of Earth Sciences; University of Arizona, Office of Aridland Studies and Geography Department; Utah State University Departments of: Agronomy, Soils and Biometeorology, Aerospace Engineering, Agricultural Engineering, Range Science, Fisheries and Wildlife, Forestry, and Landscape Architecture; Utah Soil Conservation Service; Utah Soil Mappers; Battelle Research Laboratories, Tri-City, Washington; and GeoDynamics, Washington, DC.

SELECTED PROFESSIONAL SERVICE:

- National Research Council, Committee on Environmental Satellite Data Utilization (CESDU), 2002-2004
- National Research Council, Geographical Foundation for Agenda 21 on Sustainable Development in Africa, Committee Member, 2001-2002
- University of Kansas, College of Liberal Arts and Sciences, College Committee on Tenure and Promotion, 2003-2005.
- Ex Official Development Committee Member, Zambian National Remote Sensing Center, November 1998 - present.

- Sponsored and partially funded a Fulbright Scholar (October 1998 - March 1999), Dr. Imasiku Nyambi, Department Chair, Department of Geology, University of Zambia, Lusaka, Zambia.
- Editorial Committee Member, *GeoCarto International*, 1996 - present.
- Invited Keynote Address at the Western Farm Show in Kansas City, MO, February 1996 (approx. 33,000 attendees). I was asked by NASA Headquarters Administrators of the Mission to Planet Earth Program to make this presentation in their behalf.
- Elected Chair, Association of American Geographers (AAG), Remote Sensing Specialty Group (RSSG), 1996 - 1998.
- Elected Vice Chair, Association of American Geographers (AAG), Remote Sensing Specialty Group (RSSG), 1994 - 1996 (Will assume the office of President after the Spring, 1996 AAG meetings).
- U.S. National Science Foundation, Review Panel, Instrumentation and Laboratory Improvement Program (ILI), 1994 & 1995.
- Association of American Geographers, Remote Sensing Specialty Group (RSSG) Program Director. 1993, 1994.
- National Remote Sensing and GIS Workshop Co-Director, 1993, American Society of Photogrammetry and Remote Sensing.
- Invited Guest Editor for November 1992 and October 1993 Special GIS Editions, *Photogrammetric Engineering and Remote Sensing (PE&RS)*, American Society of Photogrammetry and Remote Sensing.
- Testified at U.S. Senate Committee Meetings and helped write Landsat U.S. Bill H.R. 6133 that was passed in October, 1992. Results of this bill lowered the price of all Landsat data, older than 1 year, from \$4,400 to the marginal cost of \$425.00 per scene.
- Director and Co-Director Annual Meeting Organizer, Association of American Geographers - Remote Sensing Specialty Group (RSSG) Meeting Organizer (1989 - 1991).
- Planning Committee Member, Mid-America GIS Symposium, 1990, 1992.
- Reviewed for U.S. Environmental Protection Agency and Atmospheric Research and Exposure Assessment Laboratory, *Ecological Indicator Report for the National Environmental Monitoring and Assessment Program (EMAP)*.
- Proposal Reviewer, National Geographical Society and National Science Foundation, Environmental Protection Agency
- Manuscript Reviewer for American Society of Photogrammetry and Remote Sensing, Association of American Geographers, *GeoCarto International*, *Great Basin Naturalist*, and *Great Plains Research*; Reviewer of proposals for National Science Foundation, State of Kansas Technology Enterprise Corporation (KTEC), and University of Kansas General Research Fund.
- Board of Director, Agrographics Software, Inc. Hiawatha, KS
- Faculty Advisory Counsel, University of Kansas, Center for Environmental Education and Training, 1993 -present.
- Faculty Advisor, seven Ph.D. and seven M.A. students.
- Instructor and Organizer, numerous GIS and remote sensing workshops at international, national and local levels;
- Organized and Chairperson of numerous sessions at professional meetings.
- Professional Advisor, U.S. Forest Service, U.S. Bureau of Land Management, U.S. Soil Conservation Service, and National Park Service.
- Technical Advisory Board, State of Kansas GIS Initiative.

INTERNATIONAL, NATIONAL, AND REGIONAL WORKSHOPS AND SHORT COURSES:

The Architects/Engineers/Contractors (A/E/C) and DesCon meetings are advertised as the largest computer applications meetings in the world (. 35,000 attendees and 1500 exhibitors attend this meeting each year). I have been the invited lead organizer and instructor for their introductory GIS workshop since they began offering the course in 1991.

- National Science Teacher's Association, Institute Symposium: Using NASA Resources to Study the Earth: Human Impacts on Land Cover Change, a Professional Development Experience Supported by NASA. October 23, 2004, Kansas City, Missouri.(28 attendees)
- Mid-America GIS Symposium, May 4, 1998. Advanced Spatial Modeling using GIS. Lincoln, Nebraska (65 attendees).
- USDA Foreign Agricultural Services. November 19 - 21, 1997. Taught 3 days of a 5 day workshop on Advanced Digital Image Processing of Remotely Sensed Data and its Applications in Agricultural and Natural Vegetation Monitoring and Modeling. (8 attendees) Workshop sponsored by Research and Data Systems Corporation, Greenbelt, MD.
- A/E/C Systems '97 Meetings, June 16th, Pittsburgh, PA . *Introduction to GIS* (28 attendees) (Invited lead organizer and instructor).
- A/E/C Systems '96 and M/cad Expo '96 Meetings, June 18th, 1996. Anaheim, CA. *Introduction to GIS* (45 attendees) (Invited lead organizer and instructor).
- American Society of Photogrammetry and Remote Sensing (ASPRS) Meetings, April 21, 1996, Baltimore MD (35 participants) (Invited lead organizer and instructor).
- A/E/C Systems '95 Meetings, June 5th, Atlanta Georgia. *Introduction to GIS* (39 attendees) (Invited lead organizer and instructor).

- Mid-America GIS Symposium, April 28 - May 1, 1996. *GIS Modeling and Application Issues* (15 attendees) (Organizer, and team teacher with Dr. Robert Nunley).
- Mid-America GIS Symposium, April 28 - May 1, 1996. *Remote Sensing and GIS: Satellite and Aerial Photography* (12 attendees) (Team teacher with Dr. Elizabeth Cook).
- American Society of Photogrammetry and Remote Sensing (ASPRS) Meetings, February 24, 1995, Charlotte, NC. *A,B,Cs of GIS* (10 participants) (Invited lead organizer and instructor).
- Society of Environmental Toxicology and Chemistry, October 29, 1994. *Introduction to Geographic Information Systems*, 15th Annual Meeting, Colorado Convention Center, Denver, CO (45 attendees).
- A/E/C Systems '94 Meetings, June 27th, Washington, DC. *Introduction to GIS* (65 attendees) (Invited lead organizer and instructor).
- Mid-America GIS Conference, Kansas City, KS, May 1994. *Advanced Spatial Modeling Using GIS* (40 participants) (Invited instructor).
- A/E/C Systems '93 Meetings, June 8th, Anaheim, California. *A,B,C's of GIS* (44 participants) (Invited lead organizer and instructor).
- American Society of Photogrammetry and Remote Sensing (ASPRS) Meetings, February 14, 1993, New Orleans, LA. *A,B,Cs of GIS* (30 participants) (Invited lead organizer and instructor).
- DesCon '92 - A/E/C Systems '92 Meetings, June 9th, Dallas, TX. *A,B,C's of GIS* (150 participants). (Invited lead organizer and instructor).
- Mid-America GIS Conference, Kansas City, KS, May 5, 1992. *Advance Spatial Modeling Using GIS* (40 participants) (Invited instructor).
- American Society of Photogrammetry and Remote Sensing (ASPRS) Meetings, March 4th 1992, Albuquerque, NM. *A,B,Cs of GIS* (23 participants) (Invited organizer and instructor).
- GIS/LIS Meetings, October 28th - November 1st, 1991, Atlanta, GA. *Introduction to GIS*. Taught to course for the Urban and Regional Information Systems Association (URISA) (Two workshops taught to a total of 107 participants) (Invited lead co-instructor).
- University of Kansas, Geography Department, Geographic Research, Applications and Information Laboratory (GRAIL), Lawrence, KS. *Success with GIS*. Spring Workshops - *A B C's of GIS*, May 23, 1991. (23 participants) (Organizer and Instructor).
- U.S. Forest Service Wildlife Management Short Course, May 10th 1991, Utah State University, Logan, UT. Two hour section on GIS. (29 participants) (Invited instructor).
- DesCon '91 - A/E/C Systems '91 Meetings, May 5, 1991, Washington, D.C. *A,B,C's of GIS*. (150 participants) (Invited lead organizer and instructor).
- American Society of Photogrammetry and Remote Sensing (ASPRS) Meetings, March 24th 1991, Baltimore, MD. *Introduction to GIS* (49 participants) (Invited organizer and instructor).
- ARC/INFO Users Group, February 1990, *Map Projections and Coordinate Systems*. 2 hour presentation. (18 participants) (Invited instructor).
- Mid-America GIS Conference, Kansas City, KS, May 1-3, 1990. *Spatial Modeling Using GIS* (90 participants). (Invited instructor).
- U.S. Forest Service Personnel, Remote Sensing Training Workshop, April 17-21, 1989. Department of Geography, Utah State University (Co-director, organizer, instructor) (10 participants).
- U.S. Forest Service, Regional Office, Region Four, Ogden, UT. *Application of Remote Sensing and GIS for Research and Management of U.S. Forest Service Lands*. (25 participants) (Co- organizer and instructor).
- Co-director of International short course. Intensive four week course for agricultural and water managers, agricultural engineers, and government officials of developing nations. Course title: *Applied Remote Sensing and Geographic Information Systems in Agriculture*. The course was co-sponsored by the International Irrigation Center and Institute for International Rural and Community Development and the Department of Geography, Utah State University, Logan, UT. Taught summer from 1987 to 1989 (Co-director, organizer, instructor).
- International Irrigation Center and Institute for International Rural and Community Development (co-sponsors), September 1987. *Applications of Remote Sensing and GIS Technology to Soil and Water Conservation*. One-day workshop for agronomists and engineers from Pakistan, India, and Taiwan (Instructor).
- International Irrigation Center and Institute for International Rural and Community Development, *Applications of Remote Sensing and GIS Technology to Irrigated Agriculture*. Two day workshop for agricultural and irrigation engineers from India, Pakistan, Morocco, Brazil and Argentina (Instructor).
- Remote Sensing of Arid Lands, 2nd Annual Workshop, Salt Lake City, UT, April 1985. Three day workshop on remote sensing of arid/semiarid rangelands. Sponsored by the Center of Remote Sensing and Cartography (CRSC) (Collaborated in workshop organization).

REMOTE SENSING and GIS TRAINING:

- Hyperspectral Imaging and Data Analysis, Center for the Study of Earth from Space, University of Colorado. Instructors: Dr. Alexander Goetz, Dr. Fred Kruse, and Dr. Joe Boardman. June 12-16, 2000.
- ERDAS Imagine 8.1 training workshop, Kansas City, MO, May 5-6, 1994.
- Global Positioning System (GPS) one day workshop. Sponsored by Geographic Research, Application and Information Laboratory (GRAIL), University of Kansas, Lawrence, KS, November 22, 1991.
- ARC/INFO two day training session sponsored by Utah Division of Wildlife, August 1988.
- ERDAS Users Conference and Workshops on the use of ERDAS for remotely sensed digital data analysis and GIS applications and modeling techniques. Calloway Gardens, Atlanta, GA, March 2-6, 1988.
- ERDAS Users Conference and Workshops at ERDAS Headquarters, Atlanta, GA, April 1987. Received training in the use of ERDAS for remote sensing and GIS analysis
- ERDAS demonstration presented by Center for Remote Sensing and Cartography, Presented by Dr. John Jensen, University of South Carolina, December 1986. Training in remote sensing and GIS modeling.
- SPOT and TerraMar presentations at SPOT Symposium, Denver, CO, November 1986.