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EDUCATION: Ph.D. May, 1994 (Washington State University); M.S. Geology 1987 (Sul Ross State University); B.S. Geology 1984 (Sul Ross State University)

PROFESSIONAL EXPERIENCE: Sul Ross State University, 1991 to present;

Appointments: Director, Rio Grande Research Center, Sul Ross State University (2008); Professor, Sul Ross State University (2005); Associate Professor, Sul Ross State University, 1997; Assistant Professor, Sul Ross State University (1994), Instructor, Sul Ross State University, 1991

TEACHING AND RESEARCH INTERESTS: My teaching and research interests are focused on the hydrology and geology of the Big Bend region. I teach a variety of classes including GIS, Igneous Petrology, Hydrogeology, Field Skills, and Aqueous Geochemistry. These are all components of my local research, which includes field-based studies of the hydrology and geochemistry of the Rio Grande and springs that flow into it in the Lower Canyons area. I also utilize modern techniques (LiDAR and UAVs) for mapping geomorphology along the Rio Grande and its tributaries, and for creating classification maps of riparian areas of the river. These projects are designed to assess the environmental condition of specific areas, and to detect changes in these conditions over time. My other research interests include the geochemistry and field relations of the igneous rocks of the Big Bend region.

I am currently involved in a detailed study of base flow contributions from the Edwards-Trinity Plateau aquifer to the Rio Grande in the Lower Canyons area below Big Bend National Park. This work involves multiple gain/loss studies designed to measure discharge in order to quantify flow increases. For this, I use Acoustic Doppler Current Profile (ADCP) equipment and have designed a portable cable-way for deployment of the instrument.

TRAINING AND CERTIFICATION:

- Modern X-Ray Fluorescence Spectrometry Short Course, Gold Certificate, June, 2019, London X-Ray Consulting group, 40 hours
- Swift Water Rescue Technician (SRT-I), Swift Water Safety Institute, June, 2019, 24 hours
- SW1321: Streamflow Measurements using ADCP's, 6/24/2016, United States Geological Survey, 40 hours
- Wilderness Advanced First Aid (WAFA), 1/2020, National Outdoor Leadership School (this certification has been maintained since 2002), 16 hours
- Campus GIS database and Local Government data model training, 2012, Environmental Systems Research Institute and Dallas Community College
- Geomorphic Change Detection / Stream Restoration workshop, 2011, Utah State University
- Estimating Groundwater Recharge, Geological Society of America, 11/7/2012
- ESRI Authorized Instructor, 1/17/2006, Environmental Systems Research Institute
- MODFLOW: Introduction to Numerical Modeling, 10/15/2005, Colorado School of Mines
- Applications of Environmental Isotopes to Watershed Hydrology and Biogeochemistry, 11/4/2001, Geological Society of America

SPECIFIC SKILLS:

- GIS: I have taught GIS at Sul Ross for over 20 years and am a former ESRI Authorized Training Partner; I use GIS on a daily basis for teaching and research
- Stream Monitoring: I am highly skilled in the use of ADCP and ADV technology for measuring stream flow. I use Teledyne Stream Pro and River Ray instruments combined with WinRiver II software and QREV (USGS software). I also frequently use a Sontek FlowTracker ADV. My typical field application is in remote Rio Grande river canyons. For this, I have developed a custom, portable cable-way system for deployment of the ADCP platforms. My skills also extend to field water chemistry and water chemistry sampling. I currently use a YSI-556 multi-probe and am skilled in completing field titrations for alkalinity and in obtaining field water samples for various types of analysis.
- UAV mapping: I use a UAV for field mapping applications that require either high resolution multi-spectral imagery or high resolution elevation models; AgiSoft Metashape software is used for the data processing.
- TLS LiDAR mapping: I use a Riegl TLS laser scanner for ground applications that require high resolution elevation models (e.g. geomorphic change detection on the Rio Grande).
- RTK GPS / Total station data collection: I am skilled in the use of both of these instruments. This is mostly used to georeferenced data collected with a UAV or with LiDAR

- Trimble eCognition Object Based Image Analysis: This software is used to extract ground cover class information using multi-spectral imagery and elevation point cloud data.
- Analytical Chemistry: I am highly skilled in the use of a Scanning Electron Microscope, an X-Ray Fluorescence Spectrometer and an X-Ray Diffraction Spectrometer. These are used for the analysis of various geologic and biologic samples.
- Field safety: I am trained in both Wilderness Advanced First Aid and Swift Water Rescue. Much of my field research occurs in remote back country environments, frequently in a river setting. I am a skilled boatman with > 40 years of river experience.
- Various geologic and geochemical software Rockware, Surfer, PHREEQC
- Basic field geology and environmental applications: Brunton compass, Jacob's staff, groundwater level sounder, pressure transducers, portable core drilling device,

PROFESSIONAL ASSOCIATIONS:

- Geological Society of America, 2 time Chair of South Central Section (annual appointments in 2002 and 2012)
- American Geophysical Union

COURSES TAUGHT:

GEOL1401 – Introductory Geology
 GEOL 2301 – Lithology
 GEOL 2401 – Mineralogy
 GEOL 2404 – Environmental Geology
 GEOL 2408 – Geological Field Skills
 GEOL 3301 – Geology of west Texas
 GEOL 3401 – Interdisciplinary Geographical Information Systems
 GEOL 3410 - Geochemistry
 GEOL 3601 – Geology Field camp
 GEOL 4101 – Field Methods
 PHYSICI 4401 – Analytical Instrumentation
 GEOL 4402/5404 – Hydrogeology
 GEOL 4403 – Igneous and Metamorphic Petrology
 GEOL 5101 – Graduate Seminar
 GEOL 5304 – Advanced GIS
 GEOL 5308 – Advanced Igneous Petrology
 GEOL 5316 – Trace elements in magmatic systems
 GEOL 5317 – Aqueous Geochemistry
 GEOL 5402 - Interdisciplinary Geographical Information Systems

Current Graduate Students:

Burch, Sam: Geomorphic Change Detection on the Rio Grande in Boquillas Canyon
Boudreaux, Chris: Geologic Controls on Groundwater Flowpaths in the Edwards-Trinity (Plateau) Aquifer and Influence on Spring Flow in the Lower Canyons reach of the Rio Grande Wild and Scenic River

M.S. Theses completed under my supervision:

Roberson, Jake (2021): A Characterization of Clay Minerals in Rio Grande Sediments, and Relation to Source Material
Zhang, Xinyu (2020): A Groundwater Flow Model for a section of the Igneous Aquifer in the Sunny Glen Area, Brewster County, Texas
Helesic, Jacob (2020): Paleomagnetic Analysis of Vertical Axis rotation Along the Tascotal Mesa Fault Zone in Far West Texas
Hallam, David (2020): Application of New Technology for Geologic and Biologic Studies: A LiDAR Assessment of Geomorphology and a Photogrammetric Assessment of Vegetation Distribution
Weathers, Zach (2019): Inventory and Geochemistry of Springs in the Big Bend Ranch State Park
Carsrud, Corbin (2019): Patterns of Conglomerate Deposition Associated with the Unroofing of the Solitario Dome, Presidio and Brewster Counties, Texas
Farmer, Kris (2017): Petrogenesis of the Wax Factory Laccolith in Big Bend Ranch State Park
Ball, Jonas (2016): An Assessment of Long Term and Seasonal Changes in the Hydrology of the Rio Grande and Related Springs in the Big Bend to Amistad Reach
Sonnier, Seth (2015): Field Mapping and Petrology of Dikes in the Lost Mine Trail Area, Big Bend National Park
Royter, Lauren (2014): Mechanism of Emplacement for the Christmas Mountains Dome, Trans-Pecos Texas
Woodburn, Rusty (2014): The Influence of the Edwards-Trinity Aquifer on the Pecos River: A Reconnaissance Study of Discharge and Geochemistry
Brauch, Billie (2012): Hydrogeologic Study of Springs in the Lower canyons of the Rio Grande, Rio Grande Wild and Scenic River, Texas
Brown, Amy (2010): A Geochemical Study of the Igneous Aquifers of West Texas
Dyess, Jonathan (2010): Zeolite Field Mapping and Remote Sensing in Trans-Pecos Texas
Beall, Adelina (2009): Surface Water Distribution and Ground Water Recharge Estimates for a Portion of the Sunny Glen Watershed, Alpine, Texas
Corrick, Don (2009): Field Relations and Interpretation of the Boot Rock Member of the South Rim Formation in the Chisos Mountains, Big Bend National Park, Texas
Giles, Tony (2006): Geochemical Evolution of the Chinati Mountains Caldera, Presidio County, West Texas
Trevizo, Laura (2004): An Evaluation of the effects of Hot Spring Discharge on the Rio Grande in Big Bend National Park, Brewster County, Texas

- Ward, James (2004): A Water Budget and Analysis of Water Chemistry for the Pine Canyon Watershed, Big Bend National Park, Brewster County, Texas
- White, John (1997): The Petrology of the Leyva Canyon Member of the Rawles Formation, Big Bend Ranch State Park, Texas
- Curry, Mark (1996): An Evaluation of X-Ray Fluorescence Spectroscopy for the Determination of Selected Metals in Mine Wastes

PUBLICATIONS:

Books and Book Chapters:

- Urbanczyk, Kevin, 2020, Case Study 7.8: Assessing Channel Geomorphic Change Along the Big Bend Reach of the Rio Grande/Rio Bravo Using Survey Data Collected from Different Time Periods, Using Different Equipment and Techniques, in Briggs, Mark K. and Osterkamp, W.R., *Renewing Our Rivers Stream Corridor Restoration in Dryland Regions*, The University of Arizona Press, ISBN-13:978-0-8165-4148-5.
- Urbanczyk, Kevin, 2016, Chapter 2: Monitoring and Diagnosis, in Chen, Daniel, *Sustainable Water Management and Technologies, Volume I: Sustainable Water Management*, CRC Press, ISBN 9781482215236.
- Urbanczyk, Kevin 2016, Chapter 4: GIS, GPS, and Satellite Data, in Chen, Daniel, *Sustainable Water Management and Technologies, Volume II: Sustainable Water Technologies*, CRC Press, ISBN 9781482215236.
- Erdlach, R.E. and Urbanczyk, K.M., 2013, *Field Trip Guidebook to the Solitario*, West Texas Geological Society, 79 pp.
- Upper Rio Grande Basin and Bay Expert Science Team, 2012. *Environmental Flows Recommendations Report*. Final Submission to the Environmental Flows Advisory Group, Rio Grande Basin and Bay Area Stakeholders Committee and Texas Commission on Environmental Quality.
- Beach, James A., Ashworth, J. B., Finch, S. T., Jr., Chastain-Howley, Andrew, Calhoun, K., Urbanczyk, K.M., Sharp, J.M., and Olsen, J., 2004, *Groundwater Availability Model for the Igneous and parts of the West Texas Bolsons (Wild Horse Flat, Michigan Flat, Ryan flat and Lobo Flat) Aquifers*, prepared for the Texas Water Development Board
- Urbanczyk, K.M., 2003, *Contemporaneous Water Supply in the Northern Chihuahuan Desert*, in Garrett, G.P., and Allan N.L., eds., *Special Publication of the Museum of Texas Tech University, Number 46, Contributed Papers from a special Session with the Thirty-Third Annual Symposium of the Desert Fishes Council*
- Urbanczyk, K.M. and White, J.C., 1997, *Guidebook to the Geology of the Bofecillos Volcano, Big Bend Ranch State Park*, prepared for the Spring, 1997, Field Trip of the Southwestern Association of Student Geological Societies.

Refereed Journal Articles:

- Urbanczyk, K., Burch, S., Macfarlane, W., Riverscape Landcover Classification to Guide Conservation and Restoration of the Lower White River, Utah. *Remote Sensing*, in review.
- White, John C., Benker, S, Ren, M, Urbanczyk, K, and Corrick, D., 2006, Petrogenesis of peralkaline quartz trachyte, rhyolite, and high-silica rhyolite via fractional crystallization, assimilation, crustal melting, and volatile enrichment and implications for tectonics: the Pine Canyon caldera, Trans-Pecos Texas, USA, *Lithos*, Vol. 91, pp. 74-94.
- White, J.C., and Urbanczyk, K.M., 2001, Geochemical Evolution of the Leyva Canyon Member of the Rawls Formation, a trachytic shield volcano in Big Bend Ranch State Park, Trans-Pecos Magmatic Province, Texas, *JVGR*, 111, 155-182.
- Urbanczyk, K.M., White, J.C., Rohr, D.R., 2001, Geologic History of West Texas, in Mace, R.E., Mullican, W.F., and Angle, E.S., eds. *Aquifers of West Texas*, Texas Water Development Board Report 356, pp. 17-25.
- Hooper, P.R., Steele, W., Conrey, R.M., Bailey, D.G., Smith, G.A., Tolan, T., and Urbanczyk, K.M., The Prineville Basalt, North-Central Oregon, *Oregon Geology*, vol. 55, no. 1, p. 3-12, 1993.
- Davis, L.E., Eves, L.E., Corner, H.M., and Urbanczyk, K.M., 1991, Student Abstract Writing and Holistic Grading as a Tool for Writing Across the Geology Curriculum: *Journal of Geological Education*, v. 39, Number 3, pp. 178-180.

Recent Research Reports:

- Urbanczyk, Kevin, 2021, Trip Report, Gain/loss study, Solis through the Lower Canyons, submitted to National Park Service
- Urbanczyk, Kevin, 2021, Annual Progress Report, Boquillas Canyon Surveys and Ecohydrology Monitoring in the Rio Grande Wild and Scenic River, submitted to the National Park Service.
- Urbanczyk, K.M., Burch, S. and Macfarlane, W.W., 2020. 2018 Riparian Land Cover Classification for the Lower White River, Utah. Prepared for US Bureau of Land Management, Rio Grande Research Center, Sul Ross State University, Alpine, TX and Ecogeomorphology and Topographic Analysis Laboratory, Utah State University Logan, UT. 34 Pages.
- Urbanczyk, Kevin, 2014, Spring Inventory for Source Area Analysis, Final Project Report, National Park Service.
- Urbanczyk, Kevin 2014, Hydrogeologic investigation of springs providing base flow to streams of the Rio Grande Basin – Geochemical Tracers, Final Project Report, National Park Service.
- Urbanczyk, Kevin and Bruecher, Taylor, 2014, Hydrogeologic investigation of springs providing base flow to streams of the Rio Grande Basin in West Texas, Final Project Report, National Park Service.
- Urbanczyk, Kevin and Ball, Jonas, 2014, Compilation of hydrogeologic Investigation of the Edwards-Trinity Plateau Aquifer in connection with the Big Bend Rach of the Rio Grande, the Lower Pecos river and the Devils River, Final Project Report,

National Park Service.

Other:

Participated in the filming of the movie “Bravo y Grande” about the Lower Canyons region of the Rio Grande (2019, <https://vimeo.com/333388010>)

Participated in the Bullock Museum *Journey Into Big Bend* exhibition (2016). This included the recording of a verbal interview and my submission of objects for the museum display

Participated in the videodocumentary “Treading West Texas Waters” (<http://video.basinpbs.org/video/2365700295/>)

Participated in the videodocumentary “Confluence”, directed by Chris Hillen (<https://vimeo.com/67777246>).

RESEARCH AND PROFESSIONAL PRESENTATIONS AND ABSTRACTS:

Aquifer contributions to the Rio Grande in the Lower Canyons, Rio Grande Wild and Scenic River, invited presentation at the West Texas Water Symposium, Big Bend Conservation Alliance, Marfa, Texas, July, 2019

Groundwater contributions to the Lower Canyons, Rio Grande Wild and Scenic River, invited presentation to the Desert Fishes Council meeting, Alpine, Texas, November, 2019

West Texas Groundwater, invited presentation, Big Bend group, Lone Star Chapter, Sierra Club, 2018

Urbanczyk, Kevin, and Bennett, Jeffery, 2016, Environmental Assessment of the Rio Grande in Big Bend National Park and the Rio Grande Wild and Scenic River, Geological Society of America, *Abstracts with Programs*, Fall 2016.

Urbanczyk, Kevin, 2016, Environmental Assessment of the Rio Grande in the Big Bend region of Texas, Texas State University Christmas Mountains Research Symposium.

Urbanczyk, 2016, Photogrammetry and geomorphic change detection, Texas State University Christmas Mountains Research Symposium.

Greene, James and Urbanczyk, Kevin, 2015, A Topographic Model of Upper Terlingua Creek in western Texas, USA, Developed Using Photogrammetric Techniques, Geological Society of America, *Abstracts with Programs*, Fall 2015.

Urbanczyk, Kevin, Bennett, Jeffery, and Smith, Lydia, 2015, Collection of Flow Dependent Biological and Habitat Data to Inform Instream Flow Requirements for the Big Bend Reach of the Rio Grande, Texas State University Christmas Mountains Research Symposium.

Urbanczyk, Kevin, Bennett, Jeffery, and Smith, Lydia, 2015, Geomorphic Change Detection to Assess the Impact of Removal of Invasive Species, Boquillas Canyon, Big Bend National Park, Texas State University Christmas Mountains Research Symposium.

- Urbanczyk, Kevin and Bennett, Jeffery, 2015, Topographic Change Related to Changing Flow Conditions in the Rio Grande, Big Bend National Park, Texas, USA, Geological Society of America, *Abstracts with Programs*, Fall 2015.
- Bennett, Jeffery, and Urbanczyk, Kevin, 2014 Evaluating Water Quality Standards, Shifting Baselines, and What the Data Say: A Case Study from the Rio Grande Wild and Scenic River, Geological Society of America, *Abstracts with Programs*, Fall 2014.
- Bruecher, Taylor, Urbanczyk, Kevin and Bennett, Jeffery, 2014, Baseflow Contributions to the Devils River, Texas, USA, Geological Society of America, *Abstracts with Programs*, Fall 2014.
- Caylor, Sofia, and Urbanczyk, Kevin, 2014, Mineralogy of the Luna Vista Sill, Brewster County, Texas, Geological Society of America, *Abstracts with Programs*, Fall 2014.
- Graves, Shawna Marie, and Urbanczyk, Kevin, 2014, Using Scanning Electron Microscopy to catalog Minerals from the Trans-Pecos Magmatic Province, Geological Society of America, *Abstracts with Programs*, Fall 2014.
- Hermosillo, Jesus and Urbanczyk, Kevin, 2014, Exploiting Repeat Real Time Kinematic GPS Topographic Surveys as a Means to Evaluate Space-Time Changes in Sediment Storage in the Headwaters of the Terlingua Subbasin, Texas, Geological Society of America, *Abstracts with Programs*, Fall 2014.
- Sonnier, Seth, and Urbanczyk, Kevin, 2014, Detailed Mapping in the Lost Mine Trail Area, Big Bend National Park, Geological Society of America, *Abstracts with Programs*, Fall 2014.
- Woodburn, James, Urbanczyk, Kevin, and Bennett, Jeffery, 2014, The Influence of the Edwards-Trinity Aquifer on the Pecos River: A study of Discharge and Geochemistry, Geological Society of America, *Abstracts with Programs*, Fall 2014.
- Urbanczyk, Kevin, Bennett, Jeffery, and Woodburn, James, 2013, Hydrogeologic Investigation of Springs along the Lower Pecos River in West Texas, Geological Society of America *Abstracts with Programs*, spring 2013, Vol. 45, No. 1
- Bennett, Jeffery, Brauch, Billie, and Urbanczyk, Kevin, 2012, Estimating Ground Water Contribution from the Edwards-Trinity Plateau Aquifer to the Big Bend Reach of the Rio Grande; Geological Society of America *Abstracts with Programs*, March 2012, Vol. 44, No. 1, p. 34.
- Brauch, Billie, Bennett, Jeffery, and Urbanczyk, Kevin, 2012, Hydrogeologic Framework of Springs in the Lower Canyons of the Rio Grande, Rio Grande Wild and Scenic River, Texas, Geological Society of America *Abstracts with Programs*, March 2012, Vol. 44, No. 1, p. 34.
- Farmer, Kristopher B., Hopper, Leslie, and Urbanczyk, Kevin 2012 Hydrology and policy in the upper Rio Grande: the Basin to Bay Expert Science Team, Geological Society of America *Abstracts with Programs*, November 2012, Vol. 44, No. 7, p. 12.
- Hopper, Leslie and Urbanczyk, Kevin, 2012, Promoting STEM (science, technology, engineering and math) success at Hispanic serving institutions, Geological Society of America *Abstracts with Programs*, November 2012, Vol. 44, No. 7, p. 36.

- Sonnier, Seth, and Urbanczyk, Kevin, 2012, Detailed Field Mapping of the Lost Mine Trail and Case Grande area including petrological analysis of the Casa Grande Lava Dome and localized dikes, Chisos Mountains, Big Bend National Park, Texas, Geological Society of America *Abstracts with Programs*, March 2012, Vol. 44, No. 1, p. 34.
- Urbanczyk, Kevin, Bennett, Jeffery, Bryant, Gary, Dean, David, Sheng, Zhuping, and Smith, Ryan, 2012, Instream Flow Recommendations for the Rio Grande, Pecos and Devils Rivers, Texas, USA, Geological Society of America *Abstracts with Programs*, 2012, Vol. 44, No. 7, p.336
- Urbanczyk, Kevin, 2012, Can Small Geology Departments Survive the Texas Higher Education Coordinating Board's Policies on Low Producing Programs? Geological Society of America *Abstracts with Programs*, March 2012, Vol. 44, No. 1, p. 36.
- Urbanczyk, Kevin, and Jeffery Bennett, 2012, Geomorphology of Sand Bars in Boquillas Canyon, Big Bend National Park, Geological Society of America *Abstracts with Programs*, March 2012, Vol. 44, No. 1, p. 2.
- Urbanczyk, Kevin and Chris Burnett, 2012, Fear and Learning in Big Bend: Is It Safe to Take a Field Trip Down There? Geological Society of America *Abstracts with Programs*, March 2012, Vol. 44, No. 1, p. 34.
- Urbanczyk, Kevin, Jeffery Bennett, Gary Bryant, David J. Dean, Zhuping Sheng, and Ryan Smith, Instream Flow Recommendations for the Rio Grande, Pecos and Devils Rivers, Texas, USA, Geological Society of America *Abstracts with Programs*, November 2012, Vol. 44, No. 7, p. 36.
- Activities of the Upper Rio Grande BBEST, presented at the US Army Corps of Engineers Rio Grande meeting in Austin, TX Fall, 2011.
- Urbanczyk, Kevin, "Activities of the Upper Rio Grande BBEST", presented at the US Army Corps of Engineers Rio Grande meeting in Austin, TX Fall, 2011.
- Woodburn, James and Urbanczyk, Kevin, 2011, The Influence of the Edwards-Trinity Aquifer on the Pecos River: A Reconnaissance Study of Discharge and Geochemistry, Geological Society of America *Abstracts with Programs*, March, 2011, Vol. 43 Issue 3, pp.6.
- Participated in Shooting West Texas Photography Workshop, presented information about Satellite Imagery and Google Earth, Fall 2010.
- Developed workshop and field trip for McDonald observatory 2 day science teacher workshop, summer, 2010.
- May, 2010: Rio Grande Basin Initiative / SAWC meeting Alpine (see agenda at <http://riogrande-conference.tamu.edu/wrapup/2010/docs/agenda.pdf>) – chaired one session and presented SAWC project overview.
- Urbanczyk, Kevin M. And Bennett, Jeffery; 2010, "Adopt A Sandbar" – A Student Project To Monitor Changes In Channel Morphology In Boquillas Canyon, Big Bend National Park, Texas, Geological Society of America, *Abstracts with Programs*, April, 2010, Vol. 42 Issue 2, pp.76.
- Brauch, Billie, Bennett, Jeffery, Urbanczyk, Kevin, And Schwartz, Benjamin; 2010, Spring Studies In The Lower Canyons Of The Rio Grande, Rio Grande Wild And Scenic

- River, Texas, Geological Society Of America, *Abstracts with Programs*, April, 2010, Vol. 42 Issue 2, pp.108.
- Brown, Amy L. And Urbanczyk, Kevin; 2010, A Geochemical Study Of The Igneous Aquifers Of West Texas Brown; Geological Society of America, *Abstracts with Programs*, April, 2010, Vol. 42 Issue 2, pp.104.
- I presented an invited lecture on Springs in the Lower Canyons at the Texas State University – San Marcos Biology department (3/29/10).
- Summary of the Rio Grande Basin at the IHLET Liferwater Concept forum in Debrecen, Hungary in July, 2010.
- Feb. 2010: Urbanczyk, K.M., Sansom, A., and Rast, W., 2010, A Transboundary Diagnostic Analysis for the Rio Grande Basin; presented at USDA-CSREES / NIFA National Water Conference.
- Urbanczyk, Kevin, Bennett, Jeffery, Brauch, Billie, Dyess, Jonathan and Schwartz, Benjamin, 2009, Structural geologic features of the Lower Canyons, Rio Grande weld and scenic river, Texas, Geological Society Of America, *Abstracts with Programs*, October, 2009, Vol. 41 Issue 7, pp.366.
- Shiller, Thomas, Urbanczyk, Kevin and Beall, Adelina, 2009, Introducing water science to middle school students through the Texas Prefreshman Engineering Program (TexPREP), Geological Society Of America, *Abstracts with Programs*, October, 2009, Vol. 41 Issue 7, pp.319.
- Bennett, Jeffery, Urbanczyk, Kevin, Brauch, Billie, Shanks, W.C., 2009, The Influence of springs on discharge and river water chemistry in the Lower Canyons, Rio Grande Wild and Scenic river, Texas; Geological Society Of America, *Abstracts with Programs*, October, 2009, Vol. 41 Issue 7, pp.246.
- Dyess, Jonathan, Urbanczyk, Kevin, and Blount, Grady Price, 2009, Field mapping and regional remote sensing analysis of structures in the Buck Hill volcanic group, Trans-Pecos Texas (Brewster County), Geological Society Of America, *Abstracts with Programs*, October, 2009, Vol. 41 Issue 7, pp.136.
- SAWC Progress Report*, presented to the Rio Grande Basin Initiatives annual meeting, Las Cruces, New Mexico, July, 2008.
- Rio Grande Biophysical Assessment; and Aquifer Characterization in the Sunny Glen Area near Alpine, Texas*, both presented at the USDA-CSREES National Water Conference in Reno, NV, spring, 2008.
- Giles, Antony, Wolff, John, Larson, Peter, and Urbanczyk, Kevin, 2008, Two Petrologic Types of High-Grade Ignimbrite? A Comparison between Rhyolites of the Trans-Pecos Texas and Central Snake River Plain Volcanic Fields, Geological Society of America, *Abstracts with Programs*, March, 2008, Vol. 40 Issue 3, pp.11-12.
- Texas PreFreshman Engineering Collaboration Project*, USDA Project Directors meeting, Washington, D.C., Fall 2007.
- SAWC Project Overview; and Groundwater and Aquifer Characterization, Trans Pecos Texas*, presented to the combined Rio Grande Basin Initiatives meeting in South Padre Island, Texas, spring 2007.

- Corrick, D., and Urbanczyk, K., 2007, Pine Canyon Caldera Complex, Big Bend National Park, Geological Society of America, 2007 Annual meeting, Abstracts with Programs, Vol. 39. No. 6, pp. 635.
- The Mighty Rio Grande*, presentation made to the SAWC United Nations Global Environment fund planning meeting in Juarez, Mexico, Fall 2006.
- Urbanczyk, Kevin and Hopper, Leslie, Sustainable Agricultural Water Conservation in the Rio Grande Basin, 2006, GSA Managing Drought and Water Scarcity in Vulnerable Environments meeting.
- Ervin, Christopher, White, John, and Urbanczyk, Kevin, 2006, Hydrogeochemistry of an Igneous Aquifer in the Southern Davis Mountains, Trans-Pecos, Texas, Geological Society of America, *Abstracts with Programs*, March, 2006, Vol. 38 Issue 3, pp.14.
- Robinson, Paul, and Urbanczyk, Kevin, 2006, Early Tertiary Volcanism in the Pacific Northwest; Implications for Continental Margin Evolution, GSA Annual meeting.
- Benker, S., White, John, Ren, Minghua, Urbanczyk, Kevin, and Corrick, Donald, 2005, The Petrography and Geochemistry of the South Rim Formation, Big Bend National Park, Texas, Geological Society of America, *Abstracts with Programs*, February, 2005, Vol. 37 Issue 2, pp.35.
- Culver, W., Maxson, H., Brauch, B., and Urbanczyk, K., 2005, Stratigraphic relations in the Chisos Group in the Hayes Ridge area of Big Bend National Park, Texas, USA; Geological Society of America, Geological Society of America, *Abstracts with Programs*, April, 2005, Vol. 37 Issue 3, pp.33-34.
- Corrick, D., Urbanczyk, K., Brauch, B., White, J., and Benker, C., 2004, The geology of the Pine Canyon caldera system, Big Bend National Park, Texas; Geological Society of America, 2004 Annual meeting, Abstracts with Programs, Vol. 36, Issue 5, pp. 127.
- Panneerselvam, K., and Urbanczyk, Kevin, 2003, Geochemical Characteristics and the Origin of Alkali Basalts of the Trans-Pecos Magmatic Province, West Texas, Geological Society of America, *Abstracts with Programs*, February, 2003, Vol. 35 Issue 2, pp.47.
- Trevizo, L., and Urbanczyk, K.M., 2002, Impacts of hot spring discharge on the Rio Grande in Big Bend National Park, Geological Society of America, *Abstracts with Programs*, October, 2002, Vol. 34 Issue 6, pp.497.
- Urbanczyk, Kevin M., 2002, Interpretive Guide to the Lost Mine Trail and the Pine Canyon Caldera, Big Bend National Park, 2002 GSA Annual Meeting.
- Bell, Gordon, Lund, Kirsten, and Urbanczyk, Kevin, 2002, Baseline Paleontological Inventory as a Management Tool: Permian Reef Geology Trail, Guadalupe Mountains National Park, Geological Society of America, *Abstracts with Programs*, October, 2002, Vol. 34 Issue 6, pp. 520.
- Urbanczyk, Kevin, White, John, Trevizo, Laurie, Bogle, Leverett, and Lund, Kirsten, 2002, Big Bend Ranch State Park a Classroom for an Introductory Petrology Course, Geological Society of America, *Abstracts with Programs*, March, 2002, Vol. 34 Issue 3, pp. 36.

- Urbanczyk, Kevin, and White, John C., 2002, Spatial Variations in water Chemistry at Selected Springs in Big Bend National Park, Geological Society of America, *Abstracts with Programs*, March, 2002, Vol. 34 Issue 3, pp. 6.
- Puckett-Palczynsky, Cheryl, and Urbanczyk, Kevin, 2002, Stratigraphic analysis of the water-bearing units of the sunny Glen drainage basin near Alpine, Texas, Geological Society of America, *Abstracts with Programs*, Vol. 34, Number 3.
- Zak, John, Hernandez, Cecilia, Sobek, Edward, Urbanczyk, Kevin, Bickle, Michael, and Grizzle, Heath, 2002, The Pine Canyon Watershed Program: Understanding Global Change Impacts on Soil Microbial Dynamics, Geological Society of America, *Abstracts with Programs*, Vol. 34, Number 3, Geological Society of America, *Abstracts with Programs*, Vol. 32, Number 7.
- Hernandez, Cecilia, Zak, John, Urbanczyk, Kevin, Sobek, Edward, Bickle, Michael and Grizzle, Heath, 2002, The Pine Canyon Watershed Program” Soil Nitrogen Dynamics and Patterns of Anthropogenic Inputs, Geological Society of America, *Abstracts with Programs*, Vol. 32, Number 7.
- White, Charles and Urbanczyk, Kevin, 2002, The Pine Canyon Rhyolite: A newly recognized occurrence of Pantellerite in Big Bend National Park, Texas, Geological Society of America, *Abstracts with Programs*, Vol. 32, Number 7.
- Sobek, Edward, Zak, John, Urbanczyk, Kevin, Grizzle, Heath, Bickle, Michael, and Hernandez, Cecilia, 2002, The Pine Canyon Watershed Program: Understanding Impacts of Global Change on Soil Fungal Biodiversity in an Arid Environment, Geological Society of America, *Abstracts with Programs*, Vol. 32, Number 7.
- Tissue, David, Roberts, Erin, Robertson, Traesha, Zak, John, and Urbanczyk, Kevin, 2002, The Pine Canyon Watershed Program: Impacts of Changes in Timing and Magnitude of Precipitation on Plant Physiology and Growth, Geological Society of America, *Abstracts with Programs*, Vol. 32, Number 7.
- Urbanczyk, Kevin M., and White, J.C., 2000, Identifying Controls on Groundwater Chemistry in Arid, Tertiary Volcanic Terranes, Big Bend National Park and Big Bend Ranch State Park, Texas, Geological Society of America, *Abstracts with Programs*, Vol. 32, Number 7.
- Urbanczyk, Kevin, and Whitford-Stark, J.L., 1998, Use of Colorado Canyon and the Rio Grande as a natural laboratory for introductory geology field trips, Geological Society Of America, *Abstracts with Programs*, March, 1998, Vol. 30 Issue 3, pp.34.
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RECENT GRANTS AND CONTRACTS

Ecohydrology and Geomorphology studies along the Big Bend Reach of the Rio Grande within Big Bend National Park and the Rio Grande Wild and Scenic River, 8/2020, \$45,670

Riparian Vegetation Mapping for the Lower White River, Utah, 7/2020, \$33,000

Quantifying Channel Morphologic Change along the Rio Grande in Boquillas canyon within Big Bend National Park, World Wildlife Fund, 9/2/2015, \$28,000

Alamito Creek Assessment, Dixon Water Foundation, 3/2015, \$30,800.

Ecohydrology Studies Along the Big Bend Reach of the Rio Grande within Big Bend National Park and the Rio Grande Wild and Scenic River, National Park Service, 6/11/2015, \$41,771

Ecohydrology Studies Along the Big Bend Reach of the Rio Grande, National Park Service, 8/25/2014, \$26,000

Project Director for USDA Sustainable Agricultural Water Conservation in the Rio Grande Basin. Award numbers:

2004-38899-02181 \$1,674,860

2004-38899-02181 \$1,689,891

2006-38899-03586 \$1,714,284

2008-38869-19174 \$1,429,491

2009-38899-20017 \$1,342,224

2010-38899-21534 \$1,342,224

OTHER AFFILIATIONS AND INVOLVEMENT:

I maintain the GIS laboratory in the Warnock Science Building and am the point of contact for our ESRI GIS site license. I am also directly involved in training and use of the Sul Ross Analytical Laboratory and am highly skilled in the use of the laboratory equipment (SEM, XRF, XRD).

Former Member, Board of Directors, Brewster County Groundwater Conservation District. The mission is to manage, protect, and conserve the groundwater resources of Brewster county. Currently plan to serve as the District's technical advisor / consultant

Board Member of Friends of Big Bend Ranch State Park, a friends group for Big Bend Ranch State Park

I am a founding Board member of Big Bend Trails Alliance, an advocacy group to maintain publicly accessible trails in the Big Bend region. My involvement includes board meetings, planning, annual trail maintenance work and the following publication:

Urbanczyk, Kevin, 2015, Rincon Loop Geology Tour, Texas Parks and Wildlife publication, PWD BR P4501-0152U (6/15)