

08/2015

**Albert J. Meier, Ph.D.**  
**Abbreviated Curriculum Vitae August 2015**

Professor  
Faculty, Western Kentucky University, Fall 1997-Present  
Principal Investigator: WKU Green River Preserve

**Education:**

Doctor of Philosophy; University of Georgia, Athens, Georgia: March 1995.  
Master of Science; Louisiana State University, Baton Rouge, Louisiana: May 1988.  
Bachelor of Science in Forestry, Wildlife Option; Louisiana State University, Baton Rouge, Louisiana: May 1984.

**Ph.D. Dissertation:**

Meier, A.J. 1995. Negligible recovery of cove forest vernal phase herbaceous understories after clearcutting. Dissertation. Univ. of Georgia, Athens.

**M.S. Thesis:**

Meier, A.J. 1988. Wildlife use of a pole-sized natural hardwood stand. M.S. Thesis. La. State Univ., Baton Rouge. 210 pp.

**Important Activities:**

1. Initiated founding of the All Taxa Biodiversity Inventory at Great Smoky Mountains National Park with John Pickering and Keith Langdon.
2. Principal investigator, Co-founder and Co-Director of the WKU Green River Preserve.
3. Founding member of the Kentucky Fire Council
4. Founding member of the Georgia Natural History Survey.
5. Co-founder of the Kentucky Natural History Survey 2011
6. Appointed to the Kentucky Heritage Land Conservation Fund Board 2013
7. Selected member of the Kentucky Climate Change Response Committee 2013
8. Appointed to the WKU Steering Committee for Environmental Research and Education 2013

**Public Service Awards:**

1. Soil and Water Conservation Society: Honor Award presented to Dr. Albert Meier for work on the Conservation Reserve Enhancement Program (CREP). 2006.
2. Inaugural Kentucky Heritage Land Conservation Fund Board Stewardship Award for Best Preserve Management. 2009.
3. 2009, Western Kentucky University, Ogden College of Science and Engineering, Faculty Service Award.
4. 2009, Western Kentucky University, Faculty Service Award.
5. 2012, Western Kentucky University, Ogden College of Science and Engineering, Student Advisement Award.
6. 2012. Commissioned a Kentucky Colonel.
7. 2012. Appointed: Honorary Kentucky Guardsman.
8. 2012. Co-winner with S. Grubbs and O. Meier of the 2012 Kentucky Biological Diversity Protection Award

**Publications:**

**student authors denoted with\***

**papers cited more than 200 times denoted with \*\***

- Hedges, S.B. and A.J. Meier. 2013. *Spondylurus magnacruzae* (Greater Saint Croix Skink). Conservation. Caribbean Herpetology 46:1. 9 (The rediscovery of one of the rarest vertebrates on earth.)
- Jagadeesh Anmala, Ouida Meier, and Albert J. Meier. 2014. A GIS and an Artificial Neural Network Based Water Quality Model for a Stream Network in Upper Green River Basin, Kentucky, USA. Journal of Environmental Engineering.

- Penick, M.D\*, S.A. Grubbs, and A.J. Meier. 2012. Algal biomass accrual in relation to nutrient availability and limitation along a longitudinal gradient of a karst riverine system. *International Aquatic Research* 4:20:1-13.
- Wigginton, S.K\*, J.R. Edwards\*, N.L. Roof\*, H.A. Steinhaus\*, S.D. Milesko\*, J.D. Webb\*, S.A. Bryant\*, J.K. Binion\*, E.L. Smith\*, B. E. Tinsley\*, M.D. Penick\*, S.A. Grubbs, and A.J. Meier. 2011. Testing the influence of *Podostemum ceratophyllum* on nutrient and sestonic algal levels. *Contributed Papers of the 14<sup>th</sup> symposium on the natural history of lower Tennessee and Cumberland Rivers*.
- Hamilton, C\*. T.A. Hulsey\*, and A.J. Meier. 2011. A comparison between avian communities in fescue fields and tall grass plantings within the Green River Conservation Reserve Enhancement Program, KY. *Contributed Papers of the 14<sup>th</sup> symposium on the natural history of lower Tennessee and Cumberland Rivers*.
- Hulsey, T.A\*. and A.J. Meier. 2011. A record of *Cyrtomium fortunei* J. Sm. in Kentucky with comments on the spread of this exotic species in the southeastern United States. *Castanea* 76:427-428.
- Grubbs, S. A., Meier, O. D. W., Meier, A. J. (2010). Assessing the influence of watershed-and reach-scale environmental variables on the speciose darter (Percidae: Etheostoma, Percina) assemblage of a central Kentucky (U.S.A.) landscape.. *Verhandlungen Internationale Vereinigung für theoretische und angewandte Limnologie* 30 (10): 1482–1486., 30(10), 1482–1486.
- Miguel Tejedo, Rafael Márquez, Juan F. Beltrán, Federico Marangoni, Diego Llusia, Mark Cambron, Iván Gómez-Mestre, Albert Meier, Xavier Eekhout, Richard G. Bowker, Maribel Benítez, Catarina N. Moreira\*, Eduardo G. Crespo, José Pedro Sousa do Amaral & Mario C. Penna. 2008. Las Investigaciones Sobre Anfibios En El Parque Natural De La Sierra Norte. pp 3-16 in Menor, A. & Cuenca, I. (Coord.) 2008. Investigación científica y conservación en el Parque Natural Sierra Norte de Sevilla. Junta de Andalucía, Consejería de Medio Ambiente. Sevilla. ISBN: 978-84-96776-50-0
- Grubbs, S. A., O. D. Meier, and A. J. Meier. 2007. Longitudinal patterns of fish assemblages in small unregulated subbasins: evaluating reach- and watershed-scale parameters. *Hydrobiologia* (in press).
- Meier, A. J. and L.B. Moore\*. 2006. Attempts to restore the American chestnut on the Mammoth Cave Plateau (Kentucky). *Ecological restoration* 24:287-288.
- Hewitt, J\*. A.J. Meier, J. Starnes\*, P. Hamilton\*, and C. Rhoades 2005. Effects of Past Landuse and Initial Treatment on *Castanea dentata* Seedlings. *Proceedings: Restoration of American chestnut to Forest Lands*.
- Godt, M.J., J.L. Hamrick and A.J. Meier. 2004. Genetic diversity in *Cymophyllus fraserianus* (Cyperaceae), a rare monotypic genus. *Genetica* 122:207-215.
- Meier, Albert J. 2004: Seeing the Forest Herbs Despite the Trees. *Ecology*: Vol. 85, No. 3, pp. 884–884.
- Rhoades, C.C., A.J. Meier, and A.J. Rebertus. 2004. Soil properties in fire-consumed log burnout openings in a Missouri oak savanna. *Forest ecology and Management* 192: 277-284.
- Pickering, J., R. Kays, A. Meier, S. Andrew, and K. Yatskievych. 2002. Appalachian Mountains. In Brooks et al. *Wilderness: Earth's Last Wild Places*. Conservation International.
- Rebertus, A.J. and A.J. Meier. 2001. Mesoscale gap dynamics in oak-hickory forests of the Missouri Ozarks. *Torrey Bot. Club* 128:362-369.
- Bratton, S.P. and A.J. Meier. 1998. The recent vegetation disturbance history of the Chattooga River Watershed. *Castanea* 63: 372-381.
- Bratton, S.P. and A.J. Meier. 1998. Restoring wildflowers and salamanders in southeastern deciduous forest. *Restoration Notes* 16: 158-165.
- Meier, A.J., S. P. Bratton, and D.C. Duffy. 1996. Biodiversity in the herbaceous layer and salamanders in Appalachian primary forests. In: Davis, M.B., ed. *Eastern Old Growth Forests: Prospects for Rediscovery and Recovery*. Island Press.
- \*\*Meier, A. J., S.P. Bratton, and D.C. Duffy. 1995. Possible ecological mechanisms for loss of vernal herb diversity in logged eastern deciduous forests. *Ecological Applications* 5:935-946.
- Meier, Albert J. 1993. Management considerations for forest floor understories of old growth stands. Pg. 69-72 in G.L. Miller (ed) *Conference proceedings: The value of old growth forest ecosystems of the eastern United States*.
- Meier, A. J., R. E. Noble, S. L. Rathbun. 1993. Population status and notes on the biology and behavior of the St. Croix Ground Lizard on Green Cay. *Caribbean Journal of Science* 29:147-152.
- Hall, P.M. and A.J. Meier. 1993. Reproduction and behavior of western mud snakes (*Farancia abacura reinwardti*) in American alligator nests. *Copeia* 1993(1):219-222.

- \*\*Duffy, D.C. and A.J. Meier. 1992. Do Appalachian herbaceous understories ever recover from clearcutting? Conservation Biology 6:196-201. \*\***This article reprinted in its entirety with comments in Ehrenfeld , D.W.ed., 1995: Plant Conservation Blackwell Press, Boston. and in Ehrenfeld , D.W.ed., 1995: Wildlife and Forests. Blackwell Press.
- Lawson, R., A. J. Meier, P.G. Frank, and P.E. Moler. 1991. Allozyme variation and systematics of the *Nerodia fasciata* - *Nerodia clarkii* complex of water snakes (Serpentes: Colubridae). Copeia 1991(3):638-659.
- Meier, A. J., R. E. Noble, and P. J. Zwank. 1990. Criteria for the introduction of the St. Croix ground lizard. In: Proceedings of the 15th Annual Natural Areas Conference: Ecosystem Management: rare species and significant habitats. New York State Museum Bulletin 471:154-156.
- Meier, A. J., R. E. Noble, and S. L. Rathbun. 1993. Population status and notes on the biology and behavior of the St. Croix Ground Lizard on Green Cay (St. Croix, US Virgin Islands). *Caribb. J. Sci.* 29:147-152.
- Meier, A. J. and R. E. Noble. 1990. A range extension for *Mabuya mabouya* Lacepede (Reptilia: Lacertilia) to Desecheo Island, Puerto Rico. Caribbean Journal of Science 26:66-67.
- Meier, A. J. and R. E. Noble. 1990. Notes on the status and habits of the Desecheo Gecko, *Sphaerodactylus levinsi*. Journal of Herpetology 24:426-428.
- Meier, A. J., R. E. Noble, P. M. McKenzie, and P. J. Zwank. 1989. Observations on the nesting ecology of the White-cheeked Pintail. Caribbean Journal of Science 25:92-93.
- Meier, A. J., R. E. Noble, and P. M. McKenzie. 1989. Observations of autumnal courtship behavior in Peregrine Falcons. J. Raptor Res. 23:121-122.
- Meier, A. J., R. E. Noble, and H. Raffaele. 1989. The birds of Desecheo Island, Puerto Rico. Caribbean Journal of Science 25:24-29.
- Cox, P. B., L. E. Urbatsch, E.M. Harris, and A. J. Meier. 1987. Verification of *Asarum canadense* L. (Aristolochiaceae) in Louisiana. Sida 12:423.
- Urbatsch, L. E. and A. J. Meier. 1986. *Panax quinquefolius* L. (Araliaceae) rediscovered in Louisiana. Sida 11:486.
- Rossman, D. A. and A. J. Meier. 1979. Geographic distribution: *Plethodon dorsalis*. Herp. Review 10:23.

### **Submitted or in Review:**

- Christine A Ricci, Albert J. Meier, Ouida W. Meier, and T. Keith Philips. Submitted. The effects of fire and other habitat characteristics on habitat selection of *Exyra ridingsii*, the Riding's pitcherplant looper moth. Castanea.

### **Major Reports:**

- Ouida W. Meier Albert J. .Meier, and Scott Grubbs (Eds.), 2014. Final Resource Management Plan, WKU Green River Preserve, Extension 1, Lawler Bend (663 pp.).
- Meier, A. J. In Albert J. Meier and Ouida W. Meier (Eds.), 2008. Western Kentucky University, Upper Green River Biological Preserve, Hart County Kentucky, Final Resource Management Plan (1,057 pp.).
- Meier, A. J. In Albert J. Meier, Ouida W. Meier, Cabrina L. Hamilton\*, and Darlene Applegate. (Eds.), 2010. Wild Rivers: Bush Tract, Final Resource Management Plan (173 pp.).
- Meier, A. J. In Ouida W. Meier Albert J. .Meier, and Scott Grubbs (Eds.), 2014. Final Resource Management Plan, WKU Green River Preserve, Extension 1, Lawler Bend (663 pp.).
- Grubbs, S. A., A.J. Meier and O. Meier. 2005..Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.
- Grubbs, S. A., A.J. Meier and O. Meier. 2006..Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.
- Grubbs, S. A., A.J. Meier and O. Meier. 2007..Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.

Grubbs, S. A., A.J. Meier and O. Meier. 2008..Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.

Grubbs, S. A., A.J. Meier and O. Meier. 2009..Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.

Grubbs, S. A., A.J. Meier and O. Meier. 2010. Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.

Grubbs, S. A., A.J. Meier and O. Meier. 2011. Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.

Grubbs, S. A., A.J. Meier and O. Meier. 2012. Assessing changes across spatial and temporal scales due to conservation practices associated with the Kentucky Conservation Reserve Enhancement Program in the Upper Green River Basin. NRCS, Annual Technical Report.

## Grants and Contracts:

### WKU Office of Sponsored Programs: Million Dollar Grant Club as of 2008

#### *PI LIST*

AWARD DATE	AWARDED	STATUS	PROJECT TITLE	SPONSOR
16-Jul-98	5,000.00	Awarded	Fire History of Mammoth Cave National Park	NPC
20-Jul-98	6,300.00	Awarded	Restoration of Vernal Herbaceous Floras	KSNPC
Numerous	Total award 1,116,000.00	Awarded	Upper Green River Biological Preserve, Williams and Hickerson tracts	Kentucky Heritage Land Conservation Fund Board
14-May-03	705.00	Awarded	Sunflower, <i>Helianthus eggertii</i>	ORAU
12-Sep-03	46,689.00	Awarded	Yellow Orchid Project	NPS/Mammoth Cave National Park
19-Feb-04	29,751.00	Awarded	Yellow Orchid Project (Supplement)	NPS/Mammoth Cave National Park
28-Oct-04	3,178.00	Awarded	Yellow Orchid Project (Supplement)	NPS/Mammoth Cave National Park
28-Oct-04	5,100.00	Awarded	Yellow Orchid Project (Supplement)	NPS/Mammoth Cave National Park

28-Oct-04	4,146.00	Awarded	Yellow Orchid Project (Supplement)	NPS/Mammoth Cave National Park
16-Aug-04	70,000.00	Awarded	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Tasks 3 & 5)	USDA/NRCS
08-Sep-06	39,500.00	Awarded	Management of Wild Rivers Property - Goebel Tract, Green River	Kentucky Heritage Land Conservation Fund Board
Nov-08	840,000.00	Awarded	Upper Green River Biological Preserve Extension I	Kentucky Heritage Land Conservation Fund Board
July 2012	1,398,000	Awarded	UGRBP Extension 3 Lawler Bend	Kentucky Heritage Land Conservation Fund Board
Nov. 2013	218,238.00	rejected	Mobilizing collection data to examine how environmental changes affect insect pollination	NSF
May 2014	260,000.00	awarded	GRP Vinegar Ridge	KHLCF &USFWS
<b>Total Awarded</b>		<b>\$4,043,607.00</b>		

*CO PI  
LIST*

CoPI Last Name	LEAD LAST	LEAD FIRST	AWARD DATE	AWARDED	PROJECT TITLE	SPONSOR
Meier	Stokes	M.		0.00	Science/Technology/Natural Resource Management	KY NSF/EPSCoR
Meier	All	J.	Aug-04	218,500.00	East Mammoth Cave Educational Reserve	Kentucky Heritage Land Conservation Fund Board
Meier	All	J.			East Mammoth Cave Educational Reserve-Additional Funding Requested	Kentucky Heritage Land Conservation Fund Board
Meier	All	J.	May-05	103,000.00	East Mammoth Cave Educational Reserve (Supplement)	Kentucky Heritage Land Conservation Fund Board
Meier	Meier	O.	Aug-04	150,000.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 1)	USDA/NRCS
Meier	Kenworthy	S.	Aug-04	125,000.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 2)	USDA/NRCS

Meier	Meier	A.	Aug-04	70,000.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Tasks 3 & 5)	USDA/NRCS
Meier	Grubbs	S.	Aug-04	55,000.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 4, Admin.)	USDA/NRCS
Meier	Meier	O.	Jan-05	97,988.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 1) Supplement	USDA/NRCS
Meier	Kenworthy	S.	Jan-05	83,215.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 2) Supplement	USDA/NRCS
Meier	Meier	A.	Jan-05	126,302.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Tasks 3 & 5) Supplement	USDA/NRCS
Meier	Grubbs	S.	Jan-05	89,295.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 4, Admin.)	USDA/NRCS
Meier	Kenworthy	S.	Mar-06	80,000.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 2) Supplement	USDA/NRCS
Meier	Meier	A.	Mar-06	67,000.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Tasks 3 & 5) Supplement	USDA/NRCS
Meier	Grubbs	S.	Mar-06	131,040.00	Conservation Practices Associated with the KY Conservation Reserve Enhancement Program (Task 4, Admin.) Supplement	USDA/NRCS
Meier	Meier	O.	Mar-06	24,790.00	Development of a Master Plan for the	NSF

					Upper Green River Biological Preserve	
Meier	Alice	L.			Collection Enhancement of the Western Kentucky University Herbarium	NSF
Meier	Groves	C.	May-08	150,000.00	Cave Springs	Kentucky Heritage Land Conservation Fund Board
Meier	All	J.		103,000.00	East Mammoth Cave Educational Reserve	Kentucky Heritage Land Conservation Fund Board
Meier			In review	41,000	Durham Knob Tract	KY Division of water

**Total      1,455,630.00**

## Presentations:

### Presentations and Abstracts at professional meetings, over half including student authors\*.

- Barren, G., S.A. Grubbs, A.J. Meier, and O.W. Meier. November 2014. Epiphytic diatom community structure in a karst riverine system. Kentucky Academy of Science, Lexington, KY
- Barren, G., S.A. Grubbs, A.J. Meier, and O.W. Meier. May 2015. Epiphytic diatom community structure in a karst riverine system. Society for Freshwater Science, Milwaukee, WI
- Grandinetti, M., D. Rockrohr, S.A. Grubbs, and A.J. Meier. May 2015. Decay of leaves and macroalgae and their relation to detrital food webs. Society for Freshwater Science, Milwaukee, WI
- Grandinetti, M., S.A. Grubbs, A.J. Meier, and D. Rockrohr. November 2014. Comparative decay rates of allochthonous macroproducers and riverine *Cladophora*. Kentucky Academy of Science, Lexington, KY.
- Malloy, E., S.A. Grubbs, and A.J. Meier. 2014. Trophic dynamic interactions in a temperate river: A comparison between high and lower karst flow reaches. Ecological Society of America.
- Peters, Victoria, Albert J. Meier, M. May. And T. Brackman. 2014. Influences of a filled valley and deep soil water saturation on tree growth in the Green River floodplain. Kentucky Academy of Science, Lexington, KY.
- Peters, Victoria, Albert J. Meier, M. May. And T. Brackman. 2015. Influences of a filled valley and deep soil water saturation on tree growth in the Green River floodplain. Association of Southeastern Biologists.
- Ricci, Christine A., Albert Meier, Ouida Meier, T. Keith Philips 2015. The Effects of Fire and Other Habitat Characteristics on Habitat Selection of *Exyra ridingsii*, the Riding Pitcher Plant Looper Moth. Association of Southeastern Biologists.
- Smith, A., S.A. Grubbs, and A.J. Meier. May 2015. *Corbicula fluminea* food web ecology: an experimental transplant approach in a karst riverine system. Society for Freshwater Science, Milwaukee, WI.
- Malloy, E.M. \*, S.A. Grubbs, and A.J. Meier, Western Kentucky University Student Research Conference, Bowling Green, KY. March 2014
- Malloy, E.M. \*, S.A. Grubbs, and A.J. Meier, Kentucky Academy of Science, Morehead, KY. November 2013
- Grandinetti, M. E. \*, D.L. Rockrohr, \*S.A. Grubbs, and A.J. Meier, Kentucky Academy of Science, Morehead, KY. November 2013
- D.M. Racke\* and A.J. Meier. Experimental evidence for dispersal-limitation of multiple vernal herbaceous species in mesic hardwood forests. ESA 2013.
- Malloy, E.M.\*, Scott A. Grubbs, Albert J. Meier. Trophic dynamic interactions in a temperate river: a comparison between high and lower karst flow reaches.
- Elizabeth Malloy\*, Scott A. Grubbs, Albert J. Meier. .2013. Trophic dynamic interactions in a temperate river: a comparison between high and lower karst flow reaches. Kentucky Academy of Science
- Kentucky Academy of Science.2013. Decay rates, macroinvertebrate colonization patterns, and stable isotopic signatures of riverine *Cladophora*. 2 Megan E. Grandinetti\*, Delaney L. Rockrohr\*, Scott A Grubbs and Albert J. Meier.
- Malloy, EM\*, AJ Meier, VA Gilkison\*, S Grubbs and JM Yates\*. 2012. *Stableisotopic analysis of the Upper Green River in Hart County, Kentucky*. ESA 2012.
- Meier, AJ, DR Kem\* and MM Wilder\*, Western Kentucky University. *The effects of fire on the vernal herbs of an eastern mesic forest*. ESA 2012
- Alaina Mikulcik\* and Albert Meier 2012. Effects of Fire on Late Summer Herbaceous Plants in Mesic Deciduous Forests: Two Years Later. Alaina Mikulcik\* and Albert Meier KAS 2012,
- Albert J. Meier University and John Pickering -. 2012. Kentucky Natural History Survey: A Proposal to the Kentucky Academy of Science. University of Georgia. KAS 2012.
- Elizabeth Malloy\*, Victoria Gilkison\*, Jennifer Yates\*, Albert Meier and Scott Grubbs. 2012. Food Web Analysis of an Autumn Riverine Macroinvertebrate Community. 2 KAS 2012.
- Racke, D. M. \* (Presenter & Author), and Meier, A. J. 2011, "Environmental factors that differentially affect the life stages of small forest herbaceous populations.", (Author Only), Academic, International, peer-reviewed/refereed, Accepted. (Submitted: 2010, Accepted: 2010, Presented: 2011). Ecological Society of America, Austin, TX,



- Missik, J.E. \* (Presenter & Author), and Meier, A. J. (Author Only), B. Kessler, SR Borrett, and M. Bartley\* Influences of microbial loops on connectivity of foodweb networks."., Academic, International, peer-reviewed/refereed, Accepted. (Submitted: 2011, Accepted: 2011, Presented: 2011). ESA 2011, Ecological Society of America, Austin, TX
- Eldridge, J.\* (Presenter & Author, first place in Zoology session), Pedro do Amaral, Albert S Meier, Richard Bowker, Rafael Marquez. 2011. Measuring anuran population dynamics using a combination of automatic call recognition software and conventional field survey methods."., Kentucky Academy of Science, Murray, KY,
- Yates, J.\* (Presenter & Author, first place in Ecology session), Scott A. Grubbs, Albert J. Meier. Influences of a Cladophora bloom on the diets of *Eliptio dilatata* and *Amblyma plicata* in the Upper Green River, Kentucky."., Kentucky Academy of Science, Murray, KY, 2011.
- Tinsley, B.E\*., (Presenter & Author, second in session), Scott A. Grubbs., Albert J. Meier. The role of *Podostemum ceratophyllum* in providing habitat for net-spinning caddisflies."., Kentucky Academy of Science, Murray, KY, "An analysis of call frequencies based on time of day and habitat for seven species of anurans."., Newton, M.\* (Presenter & Author, session),. A.J. Meier, O. Meier, J. Eldridge\*. 2011
- Wigginton, S.K\*., J.R. Edwards\*, N.L. Roof\*, H.A. Steinhaus\*, S.D. Milesko\*, J.D. Webb\*, S.A. Bryant\*, J.K. Binion\*, E.L. Smith\*, B. E. Tinsley\*, M.D. Penick\*, S.A. Grubbs, and A.J. Meier. Submitted May 2011. Testing the influence of *Podostemum ceratophyllum* on nutrient and sestonic algal levels. Contributed Papers of the 14<sup>th</sup> symposium on the natural history of lower Tennessee and Cumberland Rivers.
- Hamilton, C\*. T.A. Hulsey\*, and A.J. Meier. Submitted May 2011. A comparison between avian communities in fescue fields and tall grass plantings within the Green River Conservation Reserve Enhancement Program, KY. Contributed Papers of the 14<sup>th</sup> symposium on the natural history of lower Tennessee and Cumberland Rivers.
- Tinsley, B.E\*., J. M. Shearer\*, M. D. Penick\*, S. A. Grubbs and A. J. Meier. 2010. Influence of filamentous algae on nutrient and sestonic algal levels in the Green River, Kentucky. Kentucky Academy of Science.
- Tinsley, B.E\*., J.D. Eldridge\*, J.P. do Amaral, A.J. Meier, V.E. Nelin\*, M. Wilder\*, C.C. Onwu\*, A.M., Mefford\*, T.R. Bryant\*, Kara L. McCarthy\*, Mary C. Newton\*. 2010. Abitotic Influences on the Calling Activity of Four Anuran Species. Kentucky Academy of Science. First place Undergraduate Zoology.
- Eldridge, J.E\*., A.J. Meier, José Pedro Sousa do Amaral. 2010. Computer and Human Species Identification Error in Anuran Bioacoustic Monitoring Methods. Kentucky Academy of Science. First place Graduate Zoology.
- Missik, J\*. and A.J. Meier. 2010. Applications of linear algebra in elucidating the role of microbial loops through food web network analysis. Kentucky Academy of Science. Third place Undergraduate Mathematics.
- Wilder, M\* and A.J. Meier. 2011. Prescribed Fire Effects on Summer and Fall Herbs in Eastern Mesic Forests. WKU Research Conference. Best Undergraduate Paper in the Natural Sciences, Session 3.
- Posters at the Capitol, Frankfort, KY, "Ensuring economic sustainability of American ginseng through ecological principles.", Meier, A. J. (Author Only), Gilkison, V. A\*. (Presenter & Author), Wigginton, S. K\*. (Author Only), Racke, D. M\*. (Author Only), Johnson, L. (Author Only), Academic, State, published elsewhere, Accepted. (Submitted: 2009, Accepted: 2009, Presented: 2010).
- Meier, A. J. (Author Only), Wigginton, S. K\*. (Presenter & Author), Racke, D. M\*. (Author Only), Gilkison, V. A\*. (Author Only), Johnson, L. (Author Only), Western Kentucky University Research Conference, WKU, WKU, "Ecology of American ginseng at Mammoth Cave National Park.", Academic, Local, Accepted. (Submitted: 2010, Accepted: 2010, Presented: 2010).
- Penick, M. D\*. (Presenter & Author), Meier, A. J. (Author Only), Grubbs, S. A. (Author Only), WHY IS THE GREEN RIVER STILL GREEN? ALGAL BIOMASS ACCRUAL IN RELATION TO NUTRIENT AVAILABILITY IN THE UPPER GREEN RIVER, KENTUCKY", Academic, International, peer-reviewed/refereed, Accepted NABS 2010, NABS and ASLO, Santa Fe, New Mexico,
- Meier, A. J. (Author Only), Racke, D. M\*. 2010, Ecological Society of America, Pittsburgh, PA, "Investigating establishment and dispersal limitations of vernal herbs in secondary forests: a transplant study.", (Presenter & Author), Academic, International, peer-reviewed/refereed, Accepted. (Submitted: 2010, Accepted: 2010, Presented: 2010). ESA 2010
- Meier, A. J. (Author Only), Missik, Justine\*. (Presenter & Author), Katie, Ayers\*. (Author Only), Jonathan, Bowers. L\*. (Author Only), Meridith, Bartley\*. (Author Only), Kessler, W. B. 2010, Ecological Society of America, Pittsburgh, PA, "Influences of Microbial Networks on food Webs", (Author Only), Stuart, Borrett.

- (Author Only), Academic, International, peer-reviewed/refereed, Accepted. (Submitted: 2010, Accepted: 2010, Presented: 2010). ESA 2010
- Meier, A. J. (Author Only), Penick, M. D\*. (Presenter Only), Grubbs, S. A. (Author Only), 2010, Ecological Society of America, Pittsburg, PA, "Algal Biomass Accrual in Relation to Nutrient Availability in the Upper Green River, Kentucky", Academic, International, peer-reviewed/refereed, Accepted. (Submitted: 2010, Accepted: 2010, Presented: 2010).
- Meier, A. J., Meier, O. (Author Only), Grubbs, S. A. (Author Only), Hamilton, C. L\*. (Author Only Ecological Society of America, 2009 Ecological Society of America, New Mexico, "Influences of the Conservation Reserve Enhancement Program on the upper Green River watershed in Kentucky",), Academic, National, Accepted.
- Meier, A. J. (Author Only), Justine, Missik\*. (Presenter & Author), Kati, Coates\*. (Author Only), Bowers, J\*. (Author Only), Borrett, S. (Author Only KAS 2009, Kentucky Academy of Science, ECU, "Influences of Microbial Networks on Food Webs.",), Academic, State, Invited. (Submitted: 2009, Accepted: 2009, Presented: 2009).
- Skaggs, Mathew\*, J. L. Bowers\*, Albert J. Meier, Cabrina L. Hamilton\*, T. Aaron Hulsey\* and Ouida Meier. 2008. Influences of land use, habitat scale, and weather on bird calling activity. Society for Conservation Biology.
- Hulsey, T. Aaron\*, Cabrina L. Hamilton\*, Wayne Mason, Albert J. Meier. 2008. Avian community composition within pastures and tall grass plantings in the upper Green river watershed, Kentucky.
- Meier, Albert J. and Jason Taylor\*. 2008. Environmental factors influencing restoration of American chestnut to the forests of Mammoth Cave National Park.
- Meier, Ouida, Albert J. Meier, Scott Grubbs and Steve Kenworthy. 2008. Landuse changes and stream conditions in the Green River watershed: overview and impacts of the Conservation Reserve Enhancement Program. Society for Conservation Biology. Society for Conservation Biology.
- Bowers, Jonathan L\*., S.. Borrett and Albert J. Meier. 2008. Use of eigenvector analysis in the quantification of keystone species.
- Meier, Albert J., Jonathan L. Bowers\*, Cabrina L. Hamilton\*, Aaron Hulsey\*, Rafael Márquez, Matthew Skaggs\*, and Ouida Meier. 2008. Use of SongScope sound recognition software in the identification of breeding bird communities along the Upper Green River Watershed, Kentucky. Ecological Society of America.
- Hulsey, Aaron\*, Wayne Mason, Cabrina L. Hamilton\*, and Albert J. Meier. 2008. Avian community composition within tallgrass plantings and pastures in the Upper Green River watershed, Kentucky. Ecological Society of America.
- Bowers, Jonathan L\*., Albert J. Meier, and Stuart R. Borrett. 2008. Eigenvector analysis of connectivity in food webs. Ecological Society of America.
- Hulsey, Aaron\*, Cabrina L. Hamilton\*, Wayne Mason, Albert J. Meier. 2008. Pastures and tall grass plantings influence avian community composition within the Upper Green River Watershed, Kentucky. The 2008 Annual meeting of the Kentucky Chapter of the Wildlife Society.
- Bowers, Jonathan L\*., Meier, Albert J., Cabrina L. Hamilton\*, Aaron Hulsey\*, Rafael Márquez, Matthew Skaggs\*, and Ouida Meier. Influence of land use, habitat scale, and weather on bird-calling activity, an update. The 2008 Annual meeting of the Kentucky Chapter of the Wildlife Society. First Place in the student competition.
- Hamilton, Cabrina\*, Albert J. Meier; Adam DaTillo; Patrick Lawless. 2008. Community influences of tall grass restoration in the Upper Green River Watershed. The 2008 Annual meeting of the Kentucky Chapter of the Wildlife Society. Finished second.
- Meier, Albert J. 2008. Conservation research in Kentucky. Kentucky Conservation Association. Invited Speaker.
- Kovarik, J.L\*., Baichtal, J.F, Groves, C.G., Meier, A., Prussian, K., Kenworthy, S. 2007. Storm Response and water balance of two temperate rainforest karst watersheds, Tongass National Forest, Alaska. Presented at the 2007 International Conference on Karst Hydrogeology and Ecosystems in Bowling Green, Kentucky.
- Kovarik, J.L., Baichtal, J.F, Groves, C.G., Meier, A., Prussian, K., and Kenworthy, S. 2007. Storm response and water balance of two temperate rainforest karst watersheds. Poster presented at the 2007 National Cave and Karst Management Symposium in St Louis, Missouri.
- Ouida W. Meier, Albert J Meier, Scott Grubbs, and Stephen Kenworthy. 2007. Restoration of agricultural land to riparian buffer in the upper Green River watershed of Kentucky. Ecological Society of America.
- Cabrina L. Hamilton\* 1, Albert J. Meier 1, and Patrick Lawless. 2007. Tall grass restorations influence communities in the Upper Green River watershed. Ecological Society of America.

- Cabrina Hamilton\*; Albert J. Meier; Wayne Mason. 2007. Influences of Pastures and CREP Tall Grass Plantings on Avian Community Composition . Kentucky Academy of Science.
- Cabrina Hamilton\*; Albert J. Meier; Adam DaTillo; Patrick Lawless. 2007. A Comparison of the Vegetation Communities of Hayfields, Barrens, and Restored Grasslands in the Upper Green River Watershed . Kentucky Academy of Science.
- Matthew G. Skaggs\*; Cabrina Hamilton\*; Jonathan Bowers\*; Aaron Hulsey\*; Albert Meier; Ouida Meier 2007. Influences on Landscape Effects on Birds Calling. Kentucky Academy of Science.
- Meier, O. Meier, J. Bowers\*, C. Hamilton\*, M. Skaggs\*, R. Marquez and R. Bowker. 2007. Acoustic Monitoring of Bird Species in a Riparian Zone in Kentucky Using an Automated Recording System. International Bioacoustic Council (IBAC) Annual Conference.
- M. Cambron, R. Marquez, J. Bowers\*, A. Meier, R. G. Bowker. 2007. An Automated Digital Sound Recording System: The Amphibulator. International Bioacoustic Council (IBAC) Annual Conference.
- Cabrina Hamilton\*; Albert J. Meier; Adam DaTillo; Patrick Lawless. 2007. Similarities between the vegetation of CREP tall grass plantings and native barrens . NRCS Field Day Poster.
- Cabrina Hamilton\*; Jonathan Bowers\*; Aaron Hulsey\*; Albert Meier; Ouida Meier 2007. Bioacoustic analysis of CREP landscape effects on avian communities.. NRCS Field Day Poster.
- Scott A. Grubbs, Ouida D. Meier, and Albert. J. Meier, 2007. Stream fishes in Kentucky's Upper Green River Basin: an assessment of the influence of watershed and reach-scale environmental variables. Southern Fishes Council, November 2007, Chattanooga, TN.
- Scott A. Grubbs, Ouida D. Meier, and Albert. J. Meier . 2007. Influence of watershed- and reach-scale environmental variables on the speciose darter assemblage of a central Kentucky (U.S.A.) landscape, International Society of Limnology, August 2007, Montreal, PQ, CANADA.
- Scott A. Grubbs, Ouida D. Meier, and Albert. J. Meier 2007. Lotic fish assemblages in Kentucky's Upper Green River Basin: implications of watershed size and land-use patterns. , North American Benthological Society, June 2007, Columbia, SC.
- Scott A. Grubbs, Ouida D. Meier, and Albert. J. Meier 2007. Lotic fish assemblages in Kentucky's Upper Green River Basin: implications of watershed size and land-use patterns. , The Nature Conservancy- Upper Green River Conference, April 2007, Campbellsville, KY.
- Bowers, Jonathan\*, 1, Meier, Albert 1, Mirian, Benjamin\* 1, 1 Western Kentucky University, Bowling Green, Kentucky. 2006. Connectance modification of foodwebs. Ecological Society of America.
- Meier, Albert, 1, 1 Western Kentucky University, Bowling Green, KY 2006. Restoration of American Chestnuts to the forests of Mammoth Cave National Park. Ecological Society of America.
- Meier, Ouida, 1, Meier, Albert 1, Grubbs, Scott 1, 1 Western Kentucky University, Bowling Green, KY 2006. Landuse and stream conditions in the upper Green River watershed of Kentucky. Ecological Society of America.
- Grubbs, Scott, 1, Meier, Ouida 1, Meier, Albert 1, 1 Western Kentucky University, Bowling Green, KY. 2006. Longitudinal patterns of fish assemblages in small unregulated sub-basins: evaluating reach- and watershed-scale parameters. Ecological Society of America.
- Bowers, Jonathan\* and Albert J. Meier. 2006. Predator/Prey Alteration and Connectance Modification in Food Webs. KAS 2nd place in student competition.
- Hamilton, Cabrina\*, Jonathan Bowers\*, and Albert J. Meier. 2006. Monitoring riparian bird community composition using acoustic autosampling: Significance of adjacent land use? KAS, 3rd place in student competition.
- Grubbs, Scott, Albert J. Meier, and Ouida Meier. 2006. Lotic fish assemblages in Kentucky Green River Basin: implications of watershed size and land-use patterns
- Meier, A.J.. 2006 Phytophthora and restoration of the American Chestnut. American Chestnut Foundation Annual Meeting
- Meier, A.J. 2006. Restoring the American Chestnut to Kentucky. State Arbor Day invited Speaker on the Capitol Grounds.
- Meier, A.J. 2005. Restoration of the American chestnut in the Green River Watershed. KAS
- Meier, A.J. 2006 Phytophthora and restoration of the American Chestnut. American Chestnut Foundation Annual Meeting
- Meier, A.J., J. Hewitt\*, J. Starnes\*, and P. Baker\*. 2005. Effects of past land use and initial treatment on American chestnut restoration.
- Meier, A.J. 2006. Restoring the American Chestnut to Kentucky. State Arbor Day invited Speaker on the Capitol Grounds.

- Butler, J\* and Albert J. Meier 2005 Natural fragmentation of salamander populations at Mammoth Cave National Park. American Society of Ichthyologists and Herpetologists.
- Meier, Albert J., J. Hewitt\*, J. Starnes\*, and P. Baker\*. 2005. Environmental influences on chestnut restoration at Mammoth Cave National Park. Ecological Society of America.
- Meier, Albert J. 2005. Development of Environmental monitoring networks on the Upper Green River. SAPOZEON
- Meier, A.J. 2005. Restoration of the American Chestnut in the Green River Watershed. Kentucky Academy of Sciences.
- J.Michael Butler\*, Albert J. Meier and Ben Hughes. 2005. Bank Characteristics and the Occurrence of Erosion Slumps in the Green River. Kentucky Academy of Sciences.
- Jonathan L. Bowers\* and Albert J. Meier. 2005. Connectance and Food Webs. Kentucky Academy of Sciences.
- Scott Grubbs, Albert Meier and Ouida Meier. 2005. Factors Influencing Lotic Fish Assemblages in the Upper Green River - Kentucky CREP Region. Kentucky Academy of Sciences.
- Meier, Albert and M. DePoy. 2005. Trials and tribulations of restoring the American Chestnut. The American Chestnut Foundation 22nd Annual Meeting.
- Hewitt, J\*. A.J. Meier, J. Starnes\*, P. Hamilton\*, and C. Rhoades 2005. Effects of Past Landuse and Initial Treatment on *Castanea dentata* Seedlings. Proceedings: Restoration of American chestnut to Forest Lands.
- Meier, Albert J. and A.J. Rebertus. 2004. Ecological effects of an upland ground fire in northern hardwood-hemlock forests in Upper Michigan.
- S.A. Grubbs, O.W. Meier and A.J. Meier. 2003 Lotic fish assemblages in the Upper Green River Basin, Kentucky: patterns across local and regional scales. 5th Annual Western Kentucky University Center for Biodiversity Studies/10th Annual Mammoth Cave Science Conference.
- Meier, O.W., S. A. Grubbs, A.J. Meier, and J. Annala. 2003. Relationships between land use and water quality in the Upper Green River Basin and CREP region. 5th Annual Western Kentucky University Center for Biodiversity Studies/10th Annual Mammoth Cave Science Conference.
- Harbaugh, J.M., O.W. Meier, A. Oruganti, A.J. Meier, and S.A. Grubbs. 2003. GIS Analysis of the Upper Green River Conservation Reserve Enhancement Program in South Central Kentucky. 5th Annual Western Kentucky University Center for Biodiversity Studies/10th Annual Mammoth Cave Science Conference.
- Starnes, J.H\*. J.E. Hewitt\*, M.M. Webber\*, A.J. Meier, and M.B. Cruzan. Response of Eggert's sunflower (*Helianthus eggertii*) to disturbance at Mammoth Cave and Coffee County. Ecological Society of America 2003 Annual Meeting.
- Hewitt, Jennifer\*, Michele Weber\* and Albert Meier. 2003. Society for Conservation Biology. Response of Eggert's Sunflower (*Helianthus eggertii*) to Relocation and Fire at Mammoth Cave National Park.
- Meier, A.J. and A.J. Rebertus. 2002. Coarse woody debris in fire suppressed and frequently burned old-growth oak stands. The Ecological Society of America 87th annual Meeting. 2002.
- Meier, A.J. and S.P. Bratton 2002. Salamander absence in forest fragments. 4th annual WKU Kentucky Biodiversity Conference
- Meier, O. M., A.J. Meier, and S. Johnson. 2002. Water quality monitoring by Watershed Watch: patterns and processes in the Green River Basin. 4th annual WKU Kentucky Biodiversity Conference.

### **Recent Noteworthy Student Award Winners from my lab: (national awards in red, university wide in blue)**

- 2015 Outstanding Biology Undergraduate of the Year (Laffoon).
- 2014 Goldwater Scholarship (Laffoon) ( co-advised with Chris Groves)
- 2013 Outstanding Biology Teaching assistant ( I was her teaching supervisor.) (Felton)
- 2013 Gleason Award for the best research work by a biology undergrad.( Gilkison) (co-advised with Jarrett Johnson)
- 2012 Outstanding Biodiversity Student (Gilkison)
- 2011 Gleason Award for the best research work by a biology undergrad.( Hulsey)
- 2011 Outstanding Geography undergraduate of the year.( I was her thesis advisor.) (Wilder)
- 2011 Outstanding Female Scholar Athlete of the Year. (Wilder)

2010 Outstanding Biology Graduate Student of the Year (Racke)  
2010 Outstanding Ogden College Graduate Student of the Year (Racke)  
[2010 Minton Award \(Racke\)](#)  
2010 Outstanding Biodiversity Student (Hulsey)  
2010 Outstanding Biology Teaching assistant ( I was her teaching supervisor.) (Penick)  
2009 Outstanding Biology Undergraduate of the Year (Hamilton)  
2008 Gleason Award for the best research work by a biology undergrad.(Hamilton)  
[2008 Goldwater Scholarship \(Wigginton\)](#)  
2007 Outstanding Biodiversity Student (Hamilton)

#### **Student successes summarized**

Two of my students earned national Goldwater Scholarships  
One student won the Minton Award for outstanding graduate student at WKU.  
Thirteen of my students have earned department or college awards. Several won multiple awards.  
18 students published papers with me  
>35 students authored or co-authored abstracts for conferences outside of WKU, several of these authored over 5 abstracts.  
13 Honors and MS Theses. Four with distinction