

## CURRICULUM VITAE OF CHARLES M. RUFFNER

### I. PROFESSIONAL AFFILIATION

Professor of Forestry, School of Forestry & Horticulture, Southern Illinois University

### II. EDUCATION

The Pennsylvania State University

Ph.D. Forest Resources Aug 1999

\*M.S. Forest Resources May 1995

\*B.S. Forest Science with Honors May 1995

\*Simultaneous degrees via University Scholars Integrated Undergraduate/Graduate (IUG) Program

Ph.D. Dissertation: Anthropogenic and Physiographic Influences on the Composition and Structure of Historical Pennsylvania Forests. Supported by NASA Space Grant Fellowship

Honors/M.S. Thesis: Early Plant Succession Following Wildfire in Pennsylvania's Mixed-Oak Forests.

### III. PROFESSIONAL EMPLOYMENT

Professor of Forestry

August 2011- Present

Department of Forestry

(50% Teaching, 35% Research, 15% Service)

Southern Illinois University, Carbondale, IL

International Agriculture Adviser/Trainer

Aug 2011-2018

Agricultural Development for Armed Forces Pre-deployment Training (ADAPT)

Jordan College of Agriculture, Fresno State University

Reforestation Specialist

July 2013-Aug 2013

Farmer to Farmer Program, Partners of the Americas

USAID program in Dominican Republic

Agribusiness Specialist in Afghanistan

August 2012- May 2013

Civilian Expeditionary Workforce, US Department of Defense

Zabul Agribusiness Development Team-Mississippi National Guard

GS-15, Ag Team Hydrologist

International Development Adviser

August 2009- August 2012

Watershed Assessment and Rehabilitation Missions with:

Provincial Reconstruction Teams and Agribusiness Development Teams in

Paktia, Paktika, and Khost Provinces, Islamic Republic of Afghanistan

Associate Professor

August 2005- May 2011

Department of Forestry

Southern Illinois University, Carbondale, IL

Assistant Professor

Fall 1999-July 2005

Department of Forestry

Southern Illinois University, Carbondale, IL

Research Associate and Instructor

Fall 1998-Summer 1999

Department of Forestry and Wildlife Management

University of Massachusetts-Amherst, MA



#### IV. RESEARCH AND CREATIVE ACTIVITY

##### A. Technical Specialties

Dendrochronology and Fire Scar Analysis, Fire Ecology and Prescribed Burn Training & Policy-primitive fire skills, Remote sensing, GPS and topographic surveying, Forest Watershed and Agricultural Assessments, Land-use History and Land Tenure Issues, Irrigation Rehabilitation

##### B. Professional interests

Art history, international forestry and agricultural development, mapping, cartography, surveying and land tenure relations, erosion control and ground truthing remotely sensed data, ecological restoration, prescribed burning applications, climate-vegetation interactions, stream improvement and water delivery systems, wildland fire applications & training, pyrogeography

##### C. Research and Creative Projects

Total Funding received- \$4,250,000+

<u>Project</u>	<u>Investigators</u>	<u>Sponsor</u>	<u>Amount</u>
Art Exhibit: <u>Pyrogeography: A study of Fire through Human Creations</u>	Ruffner w/ UHON 351 w/ students using University Collection of +75k artifacts	Sharp Museum-SIUC University Honors Program-SIUC Spring 2024	Free!
Co-Creating and Sustaining Interest in Environmental and Natural Resources Careers: Fostering Autonomy, Competence, and Relatedness in rural communities	Eicholz, Bancroft, et al., & Ruffner	NSF-pending	\$1.75 M
Developing a Land Management Plan for the Touch of Nature Environmental Center	Ruffner and Holzmueeller	SIUC Green Fund	\$45,000
Erasmus Forestry Exchange-Vytautas Magnus Univ. Kaunas, LT	Carver, Brazaitas, Ruffner	European Union-Ministry of Agric.	\$250,000
Development of Forest Biology and Silviculture Science Cluster	Brazaitas Ruffner, et al. Co-PIs	European Union	1.5 M Euro
Gambel oak treatments in the WUI of southern UTAH	C. Ruffner	USDA-Forest Service	\$14,000
Effects of wildfire on regeneration of black oak sand savannas	C. Ruffner	McIntire Stennis Coop Forestry-USDA	\$135,000
Qualifying Old-Growth characteristics in Central Hardwoods	C. Ruffner	McIntire Stennis Coop Forestry-USDA	\$115,000
Afghan Water and Agricultural Tech Transfer (AWATT) – multiple TDYs	Groninger, Ruffner, Walters, Winters	US Agency for International Development	\$836,390
Agricultural Development for Afghanistan Pre-Deployment Training (ADAPT)	Groninger, Ruffner, Walters	USDA Foreign Ag Service	\$314,000
Prescribed Fire Needs Assessment for Illinois	C.M. Ruffner	IDNR-State Wildlife Grant	\$12,000
Jackson County Hazardous Fuels Reduction	C.M. Ruffner	USFS State & Private Forestry	\$66,852
TSI/Burn Planning	C.M. Ruffner	Various Donors	\$16,922
3 <sup>rd</sup> Fire in the Eastern Oak Forest Conference	C.M. Ruffner, J.W. Groninger, T. Hutchison	USFS State and Private Forestry	\$45,000
Ft. Knox Soil Erosion and Forest Hydrology Project	K. Williard, J. Schoonover, J. Groninger, J. Zaczek, C. Ruffner	US Department of the Army-Environmental Programs	\$409,724
Developing Restoration Guidelines for Black Oak Sand Savannas	C.D. Considine, J.W. Groninger, C. Ruffner	The Nature Conservancy-IL Wildlife Preservation Fund	\$6,000

SE Illinois Prescribed Burn Association	D. Allen, R. Johnson, C. Ruffner	IDNR-C2000 Ecosystem Management	\$158,926
Shawnee NF Timber Stand Survey	C. M. Ruffner, J.W. Groninger	USFS-Shawnee NF	\$21,000
Integrated Weed Management Plan for Giant City SP	J.W. Groninger, M. Davenport, C.M. Ruffner	IDNR-Natural Heritage	\$22,700
Oak Ecosystem Maintenance	C.M. Ruffner J.W. Groninger	IDNR-C2000 Ecosystem Management	\$29,235
Kaskaskia Watershed Management and Outreach	K. W. Williard S. Baer, J. Zaczek, J. Mangun, C. Ruffner	IDNR-C2000 Ecosystem Management	\$156,105
Prescribed Fire Educational Materials for Foresters and Landowners	J.W. Groninger C.M. Ruffner	IDNR-Forestland Enhancement Project (FLEP)	\$5950
Fire Equipment Purchase	C.M. Ruffner	Various Donors	\$13,858
Fire Pumper-Unit Purchase	C.M. Ruffner	Bureau of Indian Affairs	\$4500
Timber Stand Improvement-Prescribed Burning	C.M. Ruffner J.W. Groninger	Wild Turkey Federation	\$5700
Sampling for the Sudden Oak Death Pathogen in So. Illinois	C.M. Ruffner	USFS-APHIS	\$15,000
Post Tornado Monitoring at Mermet Lake Conservation Area	J.W. Groninger C.M. Ruffner	IDNR- Division of Forest Resources	\$15,000
Demonstrating the Effects of Fuel Reduction Treatments	C.M. Ruffner	USFS-National Fire Plan	\$5000
Mapping the Fire Regimes of Southern Illinois	C.M. Ruffner A. Carver	USFS-Fire Regime Condition Class	\$41,359
Fire Management Plan for the Seneca Nation of Indians	C.M. Ruffner	Bureau of Indian Affairs	\$22,000
Fire Training Initiative	C.M. Ruffner	Shawnee RC&D	\$55,450
Fire and Vegetation Management Plan for Marseilles Training Area	C.M. Ruffner J.W. Groninger	IL National Guard Bureau-Environmental Program	\$70,468
Vegetation Inventory of Trail of Tears State Forest, Union County	C.M. Ruffner J.W. Groninger	IDNR- Division of Forest Resources	\$48,000
Ecological Analysis of Shawnee Hills	C.M. Ruffner	US Forest Service	\$20,000
Relationship of Changes in northeastern forest composition to pre-historic land-use.	A. Sluyter C.M. Ruffner W.A. Patterson <sup>III</sup>	National Geographic Society	\$13,348
Land-use History of Southern Illinois Forests	C.M. Ruffner	USDA-McIntire-Stennis	\$32,000
Monitoring the Effects of Prescribed Burning	C.M. Ruffner	IDNR-Wildlife Preservation Program	\$1000
Prescribed Burn Equipment Grant	C.M. Ruffner	IDNR- Division of Forest Resources	<del>\$3000</del>
TOTAL SIUC FUNDING			\$4,237,925

#### D. Professional Honors and Awards:

- Gary D Minish Outstanding Adviser and Mentor, CALPS Award (2025)
- Donald M Elkins Outstanding Teacher of the Year, CALPS Award (2023 & 2002)
- Governor appointed Nature Preserves Commissioner (Jan 2014-Nov 2022)
- Il Prescribed Fire Council, Board of Director's (2012-present)
- Midwest Oak Woodland and Forest Fire Consortium (2012-2018)
- Fire in the Eastern Oak Forest Conference Steering Committee 2008 & 2012; keynote speaker, 2019 at Penn State University, my alma mater

- Penn State Alumnus of the Year along with my colleague John Groninger for our collective work in Afghanistan (2016)
- Global War on Terror Medal for Civilians (2013)
- NATO Medal w ISAF (International Security and Assistance Forces) bar (2013)
- Mississippi Distinguished Civilian Service Medal (2013)
- OEF Combat Patches: 2<sup>nd</sup> & 3<sup>rd</sup> Infantry Divisions, 155<sup>th</sup> Infantry BDE (2012-2013)
- Dept of Defense-Seven Seals Award- nominated by the Illinois National Guard Bureau  
*For Meritorious leadership and initiative in the training and readiness of the men and women of the Guard and Reserve Forces of the United States. Dec 11, 2011.*
- Excellence Through Commitment Award, COAS Teacher of the Year (2010)

## E. Papers at Professional Meetings and Career Development

### 1) Invited Talks

- Nov 2024 C. Ruffner and M. Manton, Trophic Cascades following Disturbance. EU Blended Intensive Program (BIP) in Managing Wildlife Habitat in Anthropogenic Landscapes. VDU Kaunas, Lithuania
- Nov 2024 C. Ruffner, Prescribed Burning for Wildlife Values in North America, EU BIP in Managing Wildlife Habitat in Anthropogenic Landscapes, VDU Kaunas, Lithuania
- Coordinator and MC, Aug 2024 Illinois Prescribed Fire Council Annual Symposium, Newsletter Highlight of the Oak Woodland and Forest Fire Consortium Fall Issue. Pere Marquette SP
- December 2023 Fire Regimes of Lithuania: evidence from recent fire history studies. 10<sup>th</sup> Annual Fire Congress, Assoc Fire Ecologists mtg, Monterrey, CA
- November 2023 *Oak and Fire in the Eastern US* Very First UW-Stevens Point Webinar Series keynote speaker!
- January 2022 UN Talk at Carbondale Civic Center; Salukis Working in Afghanistan
- February 2022 MNRC talks w Megan Alkazoff, Kankakee Sands Successional Patterns and Manton et al. Cultural fire patterns in Lithuanian forests from dendrochronology and historic sources
- April 2022 VDU Lithuania presentations on Fire Ecology of North America
  - Effects of fire on Japanese Chaff-flower populations of southern Illinois
  - Cultural burning practices of the world
  - Human fire patterns in the Midwest from historical records
- May 2022 Starved Rock SP, II Prescribed Fire Council
  - Ruffner, Manton, & VanWinkle. Cultural fire patterns in Lithuanian forests from dendrochronology and historic sources
  - McClain et al. Human fire patterns in the Midwest from historical records
- August 2022 Walnut Council Hosted Meeting as MC and led field tour visits
  - Let the Sunshine In
  - Developing a Land Management Plan for Touch of Nature
- Sept 2022 Natural Areas Mtg Duluth, MN
  - Ruffner, Manton, & VanWinkle. *Cultural fire patterns in Lithuanian forests from dendrochronology and historic sources*
- Spring 2023 *Reestablishing landscape level fire in a fragmented landscape*. Great Rivers Prescribed Burn Association Annual Mtg, Alton, IL
- Spring 2021 *Prescribed Burning Across North America*. 1<sup>st</sup> Baltic Fire Conference, keynote speaker
- Summer 2019 *The Changing Public Acceptance of Prescribed Fire Use in the Eastern US* presented at 6<sup>th</sup> Fire in the Eastern Oak Forest Conference, Penn State University
- Spring 2019 *Fire History Project and Prescribed Fire Workshops* at Dzūkija National Park, Lithuania
- Spring 2019 *Disturbance Ecology Methods* at VMU-Kaunas, Lithuanian Forestry Faculty

- Spring 2019 *Developing a Land Management Plan for the Touch of Nature Environmental Center* at Illinois Native Plant Society Annual Meeting, John A Logan College, Marion, Illinois
- Spring 2017 *Fire Management Programs across North America* at ASU- Kaunas, Lithuanian Forestry Faculty
- Spring 2017 *Practical Considerations for Managing Oak Forest Ecosystems* at ASU-Kaunas, Lithuania
- *Use of fire in Wildland Management* at IFA Annual Meeting “Restoring Oak Forests of Illinois,” September 30th, 2016.
- *Fresh from Ireland Celtic Connections Radio Show* co-hosted with Bryan Kelso Crow, Assoc. Professor, WSIU Broadcasting Service Aired September, 2016
- *Watershed Restoration and Erosion Control Measures*, Agricultural Development for Armed Forces Pre-deployment Training (ADAPT) Instructor for 351<sup>st</sup> Civil Affairs Command, US Army Reserve, San Diego, CA April 27-29, 2016
- *Foresters in Afghanistan*. Groninger and Ruffner, Pennsylvania State University, School of Forest Resources Annual Banquet, April 2016, State College, PA.
- *Watershed Restoration and Erosion Control Measures*, Agricultural Development for Armed Forces Pre-deployment Training (ADAPT) Instructor for 351<sup>st</sup> Civil Affairs Command, US Army Reserve, San Diego, CA May 11-13, 2016
- *Watershed Restoration and Erosion Control Measures*, Agricultural Development for Armed Forces Pre-deployment Training (ADAPT) Instructor for 351<sup>st</sup> Civil Affairs Command, US Army Reserve, San Diego, CA Dec 6-8, 2016
- *History of Fire in Southern Illinois*, Friends of Giant City State Park fall meeting to kick-off IDNR’s launch of their Rx fire program, 15 October, 2015
- *A Call to Action: Strategies for Managing and Restoring Oak Forests*, 1<sup>st</sup> Annual Oaktober Meeting, Illinois Forestry Association fall meeting, Trail of Fears SF, 16 October, 2015
- *Watershed Restoration and Erosion Control Measures*, Agricultural Development for Armed Forces Pre-deployment Training (ADAPT) Instructor for 351<sup>st</sup> Civil Affairs Command, US Army Reserve, San Jose, CA, July 9-11<sup>th</sup>, 2015.
- *Political Stability and Agricultural Development: Opportunities for Moroccan Agriculture Experts*. Presented in Scientific Cooperation Session at Second International American-Moroccan Agricultural Sciences Conference, Merrakech. Oct 20-22, 2014.
- *Oak Woodlands across the east: New ideas for managing old systems*. Upland Deciduous Forest Session. Presented at Fire Ecology of the Northeast: Restoring Native and Cultural Ecosystems. Yale University, New Haven, CT Feb 20-22, 2014.
- *Building a Prescribed Fire Program in Southern Illinois*. Presented at the Carbondale Science Center, *Science Café*, March 27, 2014.
- *Conducting the Illinois Fire Needs Assessment*. Presented at the 6<sup>th</sup> Annual Ill Prescribed Fire Council meeting at McHenry County College, Feb 12<sup>th</sup>, 2014.
- *Site Prep and layout of an Improved Agroforestry system in the Highlands of El Cercado, Dominican Republic*. 23 July, 2013. Planted on 24 July, 2014.
- *Developing a watershed management plan for the Dahla Dam*, US Army Corps of Engineers, Regional Command-South, 1 May 2013
- *Simple Watershed Projects for southern Afghanistan*, Incoming Special Operations Command briefings, Kandahar Airfield, 27 April, 2013
- *Karez Improvement and Irrigation rehabilitation*, Zabul Farmer's Association Training, Qalat District Center, 2 Mar 2013
- *Soil Structure and Conservation*, Zabul Farmer's Association Training, Qalat District Center, 28 Feb 2013
- *Affecting Sound Watershed Management in southern Afghanistan*. Regional Command South, US Embassy Supreme Water Council, Camp Nathan Smith, Kandahar Afghanistan, February 11, 2013

- *Designing Stable Watersheds in southern Afghanistan*. SIKA-Stability in Key Areas, Kandahar Airfield, February 10, 2013
- *Fixing a Broken Land: An historical perspective of Afghanistan's ecological conditions*. The Natural Areas Conference, Chicago, IL 2 Oct 2013.
- *When Opportunity Knocks*, My Personal Career Perspective. For the “Keys to Conservation Careers” Program, The Natural Areas Conference, Chicago, IL 2 Oct 2013.
- *Attempts to rehabilitate the Afghan Agricultural Landscape*, Center for Afghan Studies, University of Nebraska-Omaha, 4 Oct 2013.
- *Forest history of Trail of Tears State Forest, Ozark Hills, Southern Illinois*. Giant City State Park Planning Meeting, 10 Oct 2013.
- *Restoring Oak Woodlands in the Midwest*, Society of American Foresters, Annual Mtg, Charleston, SC 26 Oct 2013.
- *Fixing a Broken Land: Agricultural attempts to Rehabilitate Afghanistan's ecological conditions*. Society of American Foresters, Annual Mtg, Charleston, SC 26 Oct 2013.
- *Farmer Associations and Developing Agroforestry Systems in the Highlands of the Dominican Republic*. Social Influences of Forestry Guest Lecturer, 4 Nov, 2013. SIUC.
- *Designing Stable Watersheds in southern Afghanistan*. Regional Command South, Kentucky ADT Training Shura, Kandahar Airfield, December 12-13, 2012.
- *Watershed Issues across Afghanistan*. Regional Command South Water Shura, Kandahar Airfield, October 11-12, 2012.
- *Land Tenure Policy in Afghanistan*. IL ADT Training conducted by SIU-COAS, Carbondale, IL December 8-10<sup>th</sup>, 2010.
- *Watershed Management with PRT and ADT teams in eastern Afghanistan*. IL ADT Training conducted by SIU-COAS, Carbondale, IL 8-10<sup>th</sup>, 2010.
- *Watershed Management issues across Afghanistan*. “Governance 101” cadre for IL Army National Guard troops deploying to Afghanistan provided by U of I Global Studies Program and National Guard Bureau, Camp Lincoln Castle, Springfield, IL. Dec 12<sup>th</sup> 2010.
- C.M. Ruffner and J.W. Groninger. *Practical considerations for ecological rehabilitation and re-creation in natural areas management*. Fire Symposium, Natural Areas Association Annual Meeting, Lake of the Ozarks Conference Center, 26 October 2010.
- *Watershed Management and Agricultural Development: Strategies for Afghanistan*. 1-14<sup>th</sup> Illinois Agricultural Development Team Strategic Planning Session. Camp Lincoln, IL. 28 June 2010.
- *Fire Regimes of the Central Hardwoods*. @ A Symposium on Fire: The Illinois Prescribed Fire Council Annual Meeting. Starved Rock SP, Utica, IL. 10 February, 2010.
- *Seasonality of Prescribed Fire in southern Illinois*. Southeastern Illinois Prescribed Burn Association Annual Meeting. Equality, IL. 10 January 2010.
- *Hearts Minds & Trees: American Forestry Activities in Afghanistan* SIUC Center for Ecology-Fall Seminar Series on International Ecology and Management. 28 October 2009.
- C.M. Ruffner and J.W. Groninger. *Oak history, ecology, management, and wildlife benefits*. Oak Ecosystem Course and Field Day by American Forest Foundation, Dixon Springs Ag Center, 23 October 2009.
- *Traces of Ireland's Past: An Historical Ecology Approach*. Midwest Regional American Conference for Irish Studies. Southern Illinois University, 15-17 October, 2009.
- *The Legacy of the Civilian Conservation Corps in Natural Resource Management* Delivered to US Ambassador Eikenberry's Agriculture Working Group, US Embassy, Kabul Afghanistan, 11 August 2009
- *SIU Department of Forestry: Career Development and Professional Opportunities for our Students*. College of Agricultural Sciences Leadership Board Meeting, 17 April 2008
- *Justifying the Reapplication of Fire in Central Hardwood Forests*, Shawnee Sierra Club Spring Meeting, 21 January 2008, Carbondale, Illinois.

- *A Brief History of The Civilian Conservation Corps*. Presentation authored by myself and Bob Pasquill, (USFS Southeastern Regional Historian) delivered to the Afghan Conservation Corps leadership in Kabul, Afghanistan, August 2008.
- *Natural Resource Issues Across Afghanistan*. Department of Forestry Graduate Seminar, SIUC Campus, Carbondale, Illinois. 9 September 2008.
- *Developing Interagency Wildland Fire Management across Southern Illinois*. Managing Tree and Shrub Cover for Healthy Woodlands Workshop, Morton Arboretum, Lisle, Illinois. 31 October 2008
- *Fire Regimes across Cultural Boundaries*, Fire Working Group Symposium, Society of American Foresters Annual Convention, Reno, NV. 8 November 2008
- *My Transcendentalist Life*, sermon presented at Carbondale Unitarian Fellowship morning service, 16 November 2008, linking my Stewardship Ethic of Forestland Management to my spiritually “Transcendentalist” persuasion.
- *Natural Resource Conservation in Afghanistan*. Presentation to the SIUC AWATT Workshop for Afghan Merit Scholars (AMS) Fellows, 29-30 December 2008
- *Use of Fire in the Central Hardwoods Ecosystem*. Shawnee NF public meeting, Vienna, IL. 8 January 2007
- *Lessons in Conservation Biology from Killarney National Park, Ireland*. SIUC Center for Ecology Seminar Series. 21 February 2007
- *Justifying the Reintroduction of Fire in Central Hardwood Forests*, Illinois Forest Development Council, Springfield, IL. 28 March 2007
- *Justifying the reapplication of fire in Central Hardwood Forests*. 27<sup>th</sup> Annual Central States Forest Soils Workshop. Carbondale, IL. 9 October 2007
- *Understanding the Evidence for Fire Across the Eastern Oak Forests*. University of Dublin-Trinity College, Department of Botany Lecture Series, 7 April 2006.
- *Fire in the Eastern Deciduous Biome*. Region 9 USFS Fire Leadership Workshop, John A. Logan College, 25 September 2006.
- *Justifying the re-establishment of fire in mixed oak forests of southern Illinois*. Illinois Forestry Assoc. Reg. 4 Workshop. USDA Service Center, Marion, IL. 13 November 2006.
- *Understanding the Evidence for Historical Fire Across Eastern Forests*. 2nd Fire in the Eastern Oak Forests: Delivering Science to Land Managers Conference. 15-17 November 2005. Ohio State University, Columbus, OH.
- *Oak Ecosystem Restoration and Maintenance*. Illinois Chapter of the Wildlife Society. 2 March 2004. Collinsville, IL.
- *Implementing a Prescribed Burning Program*. Pennsylvania Department of Conservation of Natural Resources Annual Silviculture Meeting. 28 January 2004. State College, PA.
- C.M. Ruffner and J.W. Groninger. 2003. *Oak Ecosystem Restoration in Southern Illinois*. Illinois Chapter, Society of American Foresters Annual Meeting. 13 November 2003. Dixon Springs, IL.
- *The history of land management in Ireland*. Shawnee RC & D Annual Meeting, 2 May 2002. Dixon Springs, IL.
- *The Management of Ireland's Natural Resources*. SIUC-Irish Festival. 28 April 2002. Carbondale, IL.
- *Stand dynamics and fire management in forests of southern Illinois*. Dept. of Forestry and Natural Resources Seminar Series, Purdue University, 29 January 2002. Lafayette, IN.
- C.M. Ruffner and W.A. Patterson III. *The Fire History of Upper Cape Cod, Massachusetts: From Native American Settlement to the Present*. 50<sup>th</sup> Annual SAF Convention: Philosophy and History Working Group Session: Environmental and Forest History: Bridging the Divide Between Past and Future. 11 September 2001. Denver, CO.
- *Stand dynamics and fire history in mixed oak forests of eastern North America*. SIUC Ecology Consortium. 14 November 2001.



- *Trail of Tears State Forest Inventory Analysis*. IL Forestry Development Council Annual Meeting, 29 October 2001. Makanda, IL.
- C.M. Ruffner. and M.B. Davis. 2001. *Assessing the effects of prescribed burning on understory diversity and competing vegetation in forests of Southern Illinois*. Presented at Illinois Natural Resources Conference, Peoria, IL.
- *A Cultural-Ecological Model of Native American Landscape Transformation in Eastern North America*. Spring 1999 Darwin Fellow Seminar Series, UMASS-Amherst.
- *Assessing Native American Disturbances in Mixed Oak Forests of the Allegheny Plateau*. Harvard Forest Seminar Series. 7 April 1997. Petersham, MA.
- C.M. Ruffner. 1997. Species-Site Relationships Across the Allegheny Plateau: Information From Historical Sources. USFS Northeast Forest Experiment Station Seminar Series. 17 February, Warren, PA.

2) Oral Presentations (Presenter's name in **boldtype** unless single author)

Fixing a Broken Land: An historical perspective of Afghanistan's ecological conditions. The Natural Areas Conference, Chicago, IL 2 Oct 2013.

When Opportunity Knocks, My Personal Career Perspective. For the "Keys to Conservation Careers" Program, The Natural Areas Conference, Chicago, IL 2 Oct 2013.

Attempts to rehabilitate the Afghan Agricultural Landscape, Center for Afghan Studies, University of Nebraska-Omaha, 4 Oct 2013.

Forest history of Trail of Tears State Forest, Ozark Hills, Southern Illinois. Giant City State Park Planning Meeting, 10 Oct 2013.

Restoring Oak Woodlands in the Midwest, Society of American Foresters, Annual Mtg, Charleston, SC 26 Oct 2013.

**Groninger, J.W.** and C.M. Ruffner. 2011. Watershed Management Issues in Afghanistan. Agricultural Development for Afghanistan Pre-Deployment Training (ADAPT) workshop at California State University, Fresno, scheduled for September 12 – 16.

**Groninger, J.W.** and C.M. Ruffner. 2010. Reforestation and watershed rehabilitation with the U.S. Military in Afghanistan. Society of American Foresters National Convention, October 30, Albuquerque, NM.

**K.W.J. Williard**, J.E. Schoonover, J.F. Crim, J.G. Groninger, J.J. Zaczek, and C.M. Ruffner. 2010. Evaluation of erosion and sedimentation associated with tracked vehicle training. Proc. 17th Central Hardwood Forest Conference, April 5-7, 2010. Lexington, KY.

**Crim, J.**, J.E. Schoonover, K.W.J. Williard, J.W. Groninger, J.J. Zaczek, and C.M. Ruffner. 2010. Evaluation and management of surface hydrology, erosion, and sedimentation associated with tracked vehicle training. Proc. 17th Central Hardwood Forest Conference, April 5-7, 2010. Lexington, KY.

**Groninger, J.W.** and C.M. Ruffner. 2009. Agriculture and Watersheds in Paktya. Pre-deployment Training for Oklahoma Army National Guard Agribusiness Development Team to be stationed in Gardez, Afghanistan, Nov. 12, Camp Atterbury, IN.

**Groninger, J.W.** and C.M. Ruffner. 2009. American Forestry in Afghanistan. Illinois Society of American Foresters Fall Meeting. Oct. 29, Carbondale, IL.

**Considine, C.D.**, C.M. Ruffner, J.W. Groninger. 2009. Fire History of the Kankakee Sands Savannas. Illinois Prescribed Fire Council Symposium on Fire: Its history and future role in shaping ecosystems. 7-8 May, Chicago, IL.

**Holzmueller, E.J.**, J.W. Groninger, C.M. Ruffner, and T.B. Ozier. 2009. Implications of uneven-aged management in oak-dominated forests in southern Illinois. Illinois Chapter of the Wildlife Society and Society of American Foresters Joint Meeting. March 31-April 2, 2009. Sparta, IL.

Ruffner, C.M. 2009. Developing a prescribed burn program in southern Illinois. Illinois Chapter of the Wildlife Society and Society of American Foresters Joint Meeting. March 31-April 2, 2009. Sparta, IL.

- Carril, D.** and C.M. Ruffner. 2009. Understory dynamics following mechanical and prescribed fire treatments. Illinois Chapter of the Wildlife Society and Society of American Foresters Joint Meeting. March 31-April 2, 2009. Sparta, IL.
- Considine, C.D.**, J.W. Groninger, C.M. Ruffner, S.G. Baer, and M.D. Therrell. 2009. Integrating fire history and stand structure: Implications for black oak sand savanna management and restoration. Prairie and savanna restoration: State of the art and science, March 27, Normal, IL
- Considine, C.D.**, J.W. Groninger, C.M. Ruffner, S.G. Baer, and M.D. Therrell. 2008. Integrating fire history and stand structure: Implications for black oak sand savannas. 35<sup>th</sup> Annual Natural Areas Conference. 14-17 October, Nashville, TN.
- Considine, C.D.**, J.W. Groninger, C.M. Ruffner, S.G. Baer, and M.D. Therrell. 2008. Integrating fire history and stand structure: Implications for black oak sand savanna management and restoration. Ecological Society of America Annual Meeting, 8 August, Milwaukee, WI.
- Nelson, J. L.**, J. W. Groninger, and C. M. Ruffner. 2007. Regeneration response to tornado and salvage harvesting in a bottomland hardwood forest. Proc. Fourteenth Biennial Southern Silviculture Research Conference, February 26-March 1, Athens, GA
- Nelson, J. L.**, C. M. Ruffner, and J. W. Groninger. 2006. Fire history of a southern Illinois bottomland forest. Proc. 15th Central Hardwood Forest Conference, February 27-March 1, Knoxville, TN. U.S.D.A. For. Ser. Gen. Tech. Rep SRS-101, P. 758.
- Groninger, J. W.** and C. M. Ruffner. 2006. Tree regeneration status of upland forests in the Illinois Ozark Hills, April 1-2, 2005, Land Between the Lakes, TN, Proc. 11<sup>th</sup> Symposium on the Natural History of the Lower Tennessee and Cumberland River Valleys, The Center of Excellence for Field Biology, Austin Peay State University, TN. P. 58.
- Ruffner, C. M.** and J. W. Groninger. 2006. Justification for re-establishing fire in oak ecosystems of the central hardwoods, April 1-2, 2005, Land Between the Lakes, TN, Proc. 11<sup>th</sup> Symposium on the Natural History of the Lower Tennessee and Cumberland River Valleys, The Center of Excellence for Field Biology, Austin Peay State University, TN. P. 58.
- Van De Gevel, S.L.** and C.M. Ruffner. 2006. Land-use History and Resulting Forest Succession in the Illinois Ozark Hills. Proc. 15th Central Hardwood Forest Conference, February 27-March 1, Knoxville, TN. U.S.D.A. For. Ser. Gen. Tech. Rep SRS-101, P. 758.
- Thurau, R. G.**, A. Carver, J. Fralish, J.C. Randolph, C.M. Ruffner, R. C. Anderson. 2006. Modeling Landscape Metrics with GIS: Large-Scale Mapping of Ecological Land Types in the Shawnee National Forest. 15<sup>th</sup> Central Hardwoods Conference, Feb 27-Mar 1, 2006. Knoxville, TN.
- Van de Gevel, S.L.** and C.M. Ruffner. 2003. The Influence of Land-use history on the forest development of the Illinois Ozark Hills. Association of American Geographers. 99<sup>th</sup> Annual Meeting, March 5-8, New Orleans, LA. (published abstract)
- C.M. Ruffner** and J.W. Groninger. 2002. Oak Ecosystem Restoration and Maintenance in southern Illinois. Upland Oak Ecology Symposium, October 7-10, Fayetteville, AR.
- C.M. Ruffner**, A. Trieu, S. Chandy, M.B. Davis, D. Fishel, G. Gipson, J. Lhotka, K. Lynch, P. Perkins, S. van de Gevel, W. Watson, and E. White. 2002. From Savanna to Campus Woodlot: The Historical Ecology of an old-growth woodlot. 13<sup>th</sup> Central Hardwood Forest Conference, April 1-3, Urbana-Champaign, IL. (published proceeding article)
- Groninger, J.W., **T. B. Ozier**, and C.M. Ruffner. 2002. Stand Compositional Dynamics in a Mature Illinois Ozarks Forest: Implications for Management. 13<sup>th</sup> Central Hardwood Forest Conference, April 1-3, Urbana-Champaign, IL. (published proceeding article)
- C.M. Ruffner** and M.E. Davis. 2002. Assessing the effects of prescribed burning on understory vegetation in forests of southern Illinois. Association of Southeastern Biologists Annual Meeting, April 10-12, Boone, NC. (published abstract)
- Carver, A., **R. Thurau**, J. Fralish, R. Anderson, E. White, D. Close, C.M. Ruffner, and T. McArdle. 2002. Mapping the presettlement, present, and projected future forest community types in the Illinois Ozark Hills using a Geographic Information System. Association of Southeastern Biologists Annual Meeting, April 10-12, Boone, NC. (published abstract)

- Fralish, J.**, R.C. Anderson, T. McArdle, A.D. Carver, D. Close, C.M. Ruffner, E. White, and R. Thureau. 2002. Presettlement, present, and projected future forest community types in the Illinois Ozark Hills. Association of Southeastern Biologists Annual Meeting, April 10-12, Boone, NC.
- Van de Gevel, S.L.** and C.M. Ruffner. 2002. The Influence of Land-use history on the forest development of the Illinois Ozark Hills. Association of Southeastern Biologists Annual Meeting, April 10-12, Boone, NC. (published abstract)
- Perkins, P.A.** and C.M. Ruffner. 2002. Effects of time on hill prairie biomass and species composition. Association of Southeastern Biologists Annual Meeting, April 10-12, Boone, NC. (published abstract)
- C.M. Ruffner** and M.D. Abrams. 2000. Disturbance history and stand dynamics along a topographic gradient in old-growth hemlock-northern hardwood forests of the Allegheny Plateau. 85<sup>th</sup> Annual Meeting of the Ecological Society of America, August 6-10, Snowbird, UT. (published abstract)
- D. Shumway**, M.D. Abrams, and C.M. Ruffner. 1999. Fire History and Dendroecology of two Old-Growth forest stands in western Maryland, USA. Fifth Eastern US Old-Growth Conference, June 10-12, Duluth, MN. (published abstract)
- A. Sluyter**, C.M. Ruffner, J. M. Adovasio. 1998. A Cultural-Ecological Model of Long-Term Landscape Transformation for the Allegheny National Forest. Society for Pennsylvania Archaeology 69th Annual Meeting, April 24-26, Harrisburg, PA. (published proceeding article)
- D. Shumway**, M.D. Abrams, and C.M. Ruffner. 1998. Fire History and Dendroecological Analysis of two Old-Growth forest stands in western Maryland, USA. Ecological Society of America Annual Meeting, August 2-6, Baltimore, MD. (published abstract)
- M.D. Abrams, **C.M. Ruffner**, and T.A. Morgan. 1997. Tree-Ring Responses Across Contrasting Species and Sites in the Ridge And Valley of Central Pennsylvania. Ecological Society of America Annual Meeting, August 11-14, Albuquerque, NM. (published abstract)
- C.M. Ruffner** and M.D. Abrams. 1997. Relating Land-Use History and Climate to the Dendroecology of a 326 Year Old *Quercus prinus* Talus Slope Forest. Natural Areas Association Ancient Eastern U.S. Old-Growth Forests Conference. June 5-8, Clarion, PA.
- C.M. Ruffner**, M.D. Abrams and A. Sluyter. 1996. Anthropogenic Disturbance in Mixed-Oak Forests of the Allegheny Plateau, Pennsylvania. The Pennsylvania Space Grant Consortium's Space & Astronomy Day. November 16, University Park, PA.
- C.M. Ruffner. 1995. Early Plant Succession Following Wildfire in Pennsylvania's Mixed-Oak Forests. International Association of Wildland Fire Conference on: Fire effects on threatened and endangered species and habitats. November 12-16, Coeur d' Alene, ID. (published proceedings article)
- C.M. Ruffner. 1995. Succession Following Wildfire in Pennsylvania's Mixed-Oak Forests. National Conference on Undergraduate Research. April 20-22, Union College, Schenectady, NY. (published abstract)
- M.D. Abrams** and C.M. Ruffner. 1995. Physiographic Analysis of Witness Tree Distribution (1765-1798) and Present Forest Cover Through North Central Pennsylvania. Penn State School of Forest Resources Issues Conference. March 15 -16, State College, PA. (published proceedings article)

### 3) Poster Presentations (Presenter's name in **boldtype** unless single author)

- Margaret Anderson**, Eric J. Holzmüller, Charles Ruffner, and John Groninger. 2010. Evaluation of TSI and prescribed burning on residual tree growth in oak dominated forests. SAF Society of American Foresters National Convention, October 30, Albuquerque, NM. (published abstract).
- Considine, C.D.**, J.W. Groninger, C.M. Ruffner, S.G. Baer, and M.D. Therrell. 2008. Integrating fire history and stand structure: Implications for black oak sand savannas. 35<sup>th</sup> Annual Natural Areas Conference. October 14-17, Nashville, TN.

- Holzmueller, E.J.**, T.B. Ozier, J.W. Groninger, and C.M. Ruffner. 2008. Stand dynamics of a xeric oak-hickory forest in southern Illinois, U.S.A. after selective harvesting. Society of American Foresters National Convention. November 5-9, Reno, NV.
- Schoonover, J.E.**, K.W.J. Williard, J.F. Crim, C.L. Goldstein, J.J. Zaczek, J.W. Groninger, and C.M. Ruffner. April 1, 2008. Evaluation and management of surface hydrology, erosion, and sedimentation at Ft. Knox Military Installation, Kentucky. SIUC Research Town Meeting. Carbondale, IL.
- C. Ruffner** and Brendan O' Shea. 2006. Lessons in Conservation Biology from Killarney National Park, Co. Kerry, Ireland. SAF Annual Conference, Oct 26-29, Pittsburgh, PA.
- Nelson, J.L.**, C. M. Ruffner and J. W. Groninger. 2006. Drainage and agriculture impacts on fire frequency in a forested wetland. Illinois Cache River Conference, August 10-12, Carterville, IL. 1<sup>st</sup> Place award in student poster competition
- Van De Gevel, S. L. T. B.** Ozier, C. M. Ruffner and J. W. Groninger. 2003. Relating past land use, topography, and forest dynamics in the Illinois Ozark Hills..Proc. 13th Central Hardwood Forest Conference, Urbana, IL. U.S.D.A. For. Ser. Gen. Tech. Rep. NC-234. p. 246.
- Ruffner, C.M.**, B. Black, and M.D. Abrams. 2003. Native American influences on species composition of the Allegheny Plateau from witness tree distributions. Association of American Geographers. 99<sup>th</sup> Annual Meeting, March 5-8, New Orleans, LA. (w/ published abstract)
- Ruffner, C.M.**, B. Black, and M.D. Abrams. 2003. Native American influences on species composition of the Allegheny Plateau from witness tree distributions. SIUC Ecology Consortium Fall Poster Session.
- Davis, M.E. and **C.M. Ruffner**. 2003. Fire History and successional dynamics in shortleaf pine-mixed oak forests at LaRue Pine Hills Research Natural Area in southern Illinois. 13<sup>th</sup> Central Hardwood Forest Conference, April 1-3, Urbana-Champaign, IL.
- Perkins, P.A.** and C.M. Ruffner. 2002. Woody plant invasion on three Ozark Hill Prairies as a result of Fire Suppression. 13<sup>th</sup> Central Hardwood Forest Conference, April 1-3, Urbana-Champaign, IL.
- Davis, M.E. and **C.M. Ruffner**. 2002. Investigating the fire history and successional dynamics in shortleaf pine-mixed oak forests at LaRue Pine Hills Research Natural Area, southern Illinois. Association of Southeastern Biologists Annual Meeting, April 10-12, Boone, NC. (published abstract)
- van de Gevel, S.**, and C.M. Ruffner, and C. Rokosh. 2002. Prescribed fire in Southern Illinois. Society of American Foresters Annual Meeting, September 10-13, Winston Salem, NC. (published abstract)
- Davis, M.B.** and C.M. Ruffner. 2001. Fire history and successional dynamics in shortleaf pine- mixed oak forests of LaRue Pine Hills, southern Illinois. SIU University Women's Professional Advancement and Women's Studies Conference. April 25, Carbondale, IL.
- van de Gevel, S.** and C.M. Ruffner. 2001. The Influence of land-use history on the forest development of the Illinois Ozark Hills. SIU University Women's Professional Advancement and Women's Studies Conference. April 25, Carbondale, IL.
- C.M. Ruffner** and M.D. Abrams. 1998. Native American influences on pre-European settlement forests of the Allegheny Plateau from witness tree analysis. Ecological Society of America Annual Meeting, August 2-6, Baltimore, MD. (published abstract)

#### 4) Professional Leadership/ Development Positions and Training Opportunities

- Member, Il Prescribed Fire Council, 2009-Present
  - President 2016-2018
  - Annual Mtg Coordinator 2014, 2019, 2022, 2024
- Certified Prescribed Burn Manager, IDNR Nov 2010
  - Planned and implemented over 300 prescribed burns for state, private, and NGO landowners
  - Trained and certified at least 1000 prescribed burn practitioners

- Illinois Society of American Foresters
  - Chair, 2010, Vice-Chair, 2009
  - Leadership of Fall 2009, Spring 2010, and Fall 2010 meetings
- 3<sup>rd</sup> Fire in Eastern Oak Forests Conference
  - Co-Chair, Local Arrangements, 2006-2008 SIUC Campus and environs
  - Steering Committee, 2006-2010
- Professional Development Trainings
  - 2023-25 Polish Fire Camp Crewboss trainee
  - 2022-25 NRA Range Safety Officer Trained Instructor
  - 2019-22 USDA Forest Service Details-Fishlake and Dixie NF, Utah
  - 2012-13 DOD Civilian Expeditionary Workforce Deployed to Afghanistan
  - 2010 1 AWATT TDY to Afghanistan
  - 2009 2 AWATT TDYs to India & Afghanistan
  - 2008 1 AWATT TDY to India & Afghanistan
  - 2006-10 S-212 Chainsaw Safety Course Instructor
  - 2006 Irish National Park Conservation Ranger Volunteer, Killarney National Park, Co. Kerry
  - 2005 Fire Regime Condition Class Fuel Model Development Team, Delaware OH, USFS
  - 2004 Certified Prescribed Burn Boss -Mississippi State University, Division of Continuing Education, Professional Development Programs. April 19-24, Starkville, MS.
  - 2003 S-290 Intermediate Wildland Fire Behavior, National Wildfire Coordinating Group Course, Mississippi State University, Division of Continuing Education, Professional Development Programs. November 15, Starkville, MS.
  - 1998 Fossil Pollen Analysis semester course w/ Dr. W.A. Patterson III, University of Massachusetts- Amherst, MA.
  - 1996 North American Dendroecological Fieldweek, Bartlett Experimental Forest, White Mountain National Forest, New Hampshire. Dendrochronology training provided by International Tree-Ring Lab, University of Arizona and Lamont-Doherty Observatory, Columbia University.
  - 1995 Basic Wildland Fire Fighter Training, The Nature Conservancy, Long Island Chapter

## V. PUBLICATIONS

### A. Publications in Progress

Ruffner, Manton, and Kukcinavičius. Old Growth Characteristics in Central Hardwoods for presentation at this Fall's EuroDendro Conference, Riga, Latvia

### B. Peer-Reviewed Publications

B. Hanberry, C. Ruffner, R. Tatina. 2025. Contextualizing estimated tree densities and expert-classified ecosystems in the historical midwestern United States, a region with exposure to frequent fire. *Forests* Accepted and In Press

Michael Manton, Raimundas Petrokas; Per Angelstam; Šarūnas Kukcinavičius; Silvija Šaudytė-Manton; Charles Ruffner (Submitted Nov 2024, Accepted Mar 2025) Coping with five mismatches between policy and practice in forest stands and landscape. *Scientific Reports* Accepted & In Press

Fahad Rasheed, Charles Ruffner & Asif Iqbal (2024) Particulate matter retention and removal efficiency in ten tree species of semi-arid environment. *International Journal of Phytoremediation*. 27:3, 362-371, DOI: 10.1080/15226514.2024.2420326

Inglis, E.N.; Holzmüller, E.J.; Ruffner, C.M.; Groninger, J.W. 2023. Regeneration and Growth following Silvicultural Treatments in a Productive Central Hardwood Forest. *Forests* **2023**, 14, 1222. <https://doi.org/10.3390/f14061222>

- Abrams, M.D., B.B. Hanberry, C.M. Ruffner. 2022. A comparison of witness tree and contemporary compositions for old-growth forests at Savage Mountain, Maryland, and secondary forests of the northern Allegheny Mountains. *J. Torrey Botanical Society* 149(2):151-158.
- Manton, M., C. Ruffner, G. Kibirkstis, G. Brazaitas, V. Morozas, R. Pukiene, E. Makrickiene, P. Angelstam. 2022. Fire Occurrence in Hemi-boreal forests: Exploring natural and cultural Scots pine fire regimes using dendrochronology in Lithuania. *LAND* 11:260  
<https://doi.org/10.3390/land11020260>
- John T Lovseth, J.W. Groninger, C.M. Ruffner, B. Bookout, T. Keller, K. Silcox, and D. Schnaltman. 2021. Using floristic analysis and dendrochronology to plan ecological restoration within a forest-prairie ecotone. *Natural Areas Journal* 41(4): 238-248.
- William E. McClain, C.M. Ruffner, J.E. Ebinger, and G. Spyreas. 2021. Patterns of Anthropogenic fire within the Midwestern tallgrass prairie 1673-1905: Evidence from written accounts. *Natural Areas Journal* 41(4): 283-300.
- Zafar Hussain, Fahad Rasheed, Muhammad Ayyoub Tanvir, Zikria Zafar, Muhammad Rafay, Muhammad Mohsin, Pertti Pulkkinen & Charles Ruffner. (2020). Increased antioxidative enzyme activity mediates the phytoaccumulation potential of Pb in four agroforestry tree species: a case study under municipal and industrial wastewater irrigation. *International Journal of Phytoremediation*, DOI: [10.1080/15226514.2020.1849016](https://doi.org/10.1080/15226514.2020.1849016)
- Zikria Zafar, Fahad Rasheed, Sylvain Delagrang, Muhammad Abdullah & Charles Ruffner. 2019. Acclimatization of *Terminalia Arjuna* saplings to salt stress: characterization of growth, biomass and photosynthetic parameters. *Journal of Sustainable Forestry*, DOI: [10.1080/10549811.2019.1614067](https://doi.org/10.1080/10549811.2019.1614067)
- Mohammad Nasir Shalizi, Safiullah Khurram, John W. Groninger, Charles M. Ruffner, Owen T. Burney. 2018. Indigenous Knowledge and Stand Characteristics of a Threatened Tree Species in a Highly Insecure Area: Chilgoza Pine in Afghanistan. *Forest Ecology and Management*. 413: 1–8.  
<http://dx.doi.org/10.1016/j.foreco.2018.01.053>.
- Gurbir Singh, Jon E. Schoonover, Kyle S. Monroe, Karl W.J. Williard, and Charles M. Ruffner. 2017. Prescribed Burning and Erosion Potential in Mixed Hardwood Forests of Southern Illinois. *Forests* 8 (4): 112
- Jonathan W.F. Remo, Julia Ryherd, Charles M. Ruffner, Matthew D. Therrell 2017. Temporal and spatial patterns of sedimentation within the batture lands of the middle Mississippi River, USA. *Geomorphology* 308 (2018) 129–141.
- John M. Lhotka<sup>1</sup>, David L. Parrott, Charles M. Ruffner. 2016. A Dendroecological Investigation of an Upland Oak-Dominated Forest within the Grand Prairie region of Illinois. *Natural Areas Journal* 36: 310-322.
- Groninger, J.W., C.M. Ruffner, and L. Christenson. 2015. Water resources development considerations for civilian and military institutions working in highly insecure areas: Lessons from Afghanistan. *International Journal of Water Resources Development*, DOI [10.1080/07900627.2015.1004304](https://doi.org/10.1080/07900627.2015.1004304)
- Eric J. Holzmüller, John W. Groninger and Charles M. Ruffner. 2014. Facilitating Oak and Hickory Regeneration in Mature Central Hardwood Forests *Forests*, 5, 3344-3351; doi:[10.3390/f5123344](https://doi.org/10.3390/f5123344).

- Groninger, J., and C. M. Ruffner. 2014. Learning Rural Engagement: Afghan Agriculture and the Future of Rural Stabilization. *Small Wars Journal*, online 3/13/14. URL <http://smallwarsjournal.com/search/node/groninger%20and%20ruffner>
- Jesse A. Riechman, Logan O. Park, Charles M. Ruffner, and John W. Groninger. 2014. Challenges and Motivations behind Sustaining a Volunteer-Based Forest Management Organization: A Case Study of the Southeastern Illinois Prescribed Burn Association. *Journal of Forestry*. 112(2):215–220 <http://dx.doi.org/10.5849/jof.12-110>
- Groninger, J., Ruffner, C., and S. Alan Walters. 2013. Sustaining Rural Afghanistan under Limited Central Government Influence. *Stability: International Journal of Security and Development*. 2(2): 24, 1-13.
- Groninger, J., Ruffner, C., Brewster, R., and P. Sommers. 2013. ADAPT: Training for Agriculture's Seminal Role in Stability Operations for Afghanistan and Beyond. *Small Wars Journal* 9 (8): 8/22/13
- Considine, C., J.W. Groninger, C.M. Ruffner, M. Therrell, S. Baer. 2013. Black Oak (*Quercus velutina*) Sand Savanna Stand Structure as Related to Fire History. *Natural Areas Journal* 33: 10-20.
- Anderson, R., S. Franklin, C. Ruffner. 2012. Obituary of James Fralish 1938-2011. *Bulletin of the Ecological Society of America*. 93: 1-2.
- Holzmueller, E.J., Groninger, J.W., Ruffner, C.M. and Ozier, T.B. 2011. Composition of oak stands in the Illinois Ozark Hills two decades following light harvesting and no cutting. *Northern Journal of Applied Forestry* 28:50-53.
- Nelson, J.L., J.W. Groninger, L.L. Battaglia, C.M. Ruffner. 2010. Regeneration Response to Tornado and Salvage Harvesting in a Bottomland Forest. In: Stanturf, J.A. ed. 2010. Proceedings of the 14<sup>th</sup> Biennial southern silvicultural research conference. Gen. Tech. Rep. SRS-121. Asheville, NC. USDA Forest Service. 614 pp.
- Crim, J., J.E. Schoonover, K.W.J. Williard, J.W. Groninger, J.J. Zaczek, and C.M. Ruffner. 2010. Evaluation and management of surface hydrology, erosion, and sedimentation associated with tracked vehicle training. Proc. 17th Central Hardwood Forest Conference, Lexington, KY.
- Groninger, J.W. and C.M. Ruffner. 2010. Hearts, minds, and trees: Forestry's role in Operation Enduring Freedom. *Journal of Forestry* 108: 141-147.
- Nelson, J.L., J.W. Groninger, C.M. Ruffner, and L.L. Battaglia. 2009. Past land use, disturbance regime change, and vegetation response in a southern Illinois bottomland conservation area. *Journal of the Torrey Botanical Society* 136:242-256.
- Nelson, J.L., C.M. Ruffner, J.W. Groninger, R.A. Souter. 2008. Drainage and agriculture Impacts on Fire Frequency in a southern Illinois forested bottomland. *Canadian Journal of Forest Research* 38: 2932-2941.
- Nelson, J.L., J.W. Groninger, L.L. Battaglia, & C.M. Ruffner. 2008. Bottomland hardwood forest recovery following tornado disturbance and salvage logging. *Forest Ecology and Management* 256: 388-395.

- Ruffner, C. M. 2006. Understanding the Evidence for Historical Fire Across Eastern Forests, 40-48. IN: Dickinson, M. B., ed. Fire in eastern oak forests: delivering science to land managers, proceedings of a conference; 2005 November 15-17; Columbus, OH. Gen. Tech. Rep. NRS-P-1. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 304 p.
- Ruffner, C.M. and J.W. Groninger. 2006. Making the Case for Fire in Southern Illinois Forests. *Journal of Forestry* 104: 78-83.
- Black, B., C.M. Ruffner, and M.D. Abrams. 2006. Native American Influences On The Forest Composition Of The Allegheny Plateau, Northwest Pennsylvania. *Canadian Journal of Forest Research* 36: 1266-1275.
- Ozier, T. B., J.W. Groninger, and C. M. Ruffner. 2006. Community Composition and Structural Changes in a Managed Illinois Ozark Hills Forest. *American Midland Naturalist* 155: 253-269.
- Van De Gevel, S.L. and C.M. Ruffner. 2006. Land-use History and Resulting Forest Succession in the Illinois Ozark Hills. Proc. 15th Central Hardwood Forest Conference, February 27-March 1, Knoxville, TN. U.S.D.A. For. Ser. Gen. Tech. Rep SRS-101, P. 758.
- Davenport, M.A. and C.M. Ruffner. 2006. Career Opportunities Survey of Forestry Professionals. Dept. of Forestry Res. Pub. NS-019.
- Groninger, J.W., L.A. Horner, J.L. Nelson, and C.M. Ruffner. 2005. Prescribed Fire and Oak Ecosystem Maintenance: A Primer for Land Managers. Dept. of Forestry SIUC Research Publication No. NS-015, Carbondale, IL. 105 pp.
- Ruffner, C.M. and J.W. Groninger. 2004. Oak Ecosystem Restoration and Maintenance in southern Illinois. IN: Spetich, M.A. ed. *Upland Oak Ecology Symposium : History, Current Conditions, and Sustainability*. General Technical Report SRS-73. Asheville, NC: US Department of Agriculture, Forest Service, Southern Research Station. 311 p.
- Parker, G. and C.M. Ruffner. 2004. Current and Historical Forest Conditions and Disturbance Regimes in the Hoosier-Shawnee Ecological Assessment Area. pages 23-58 in F.R. Thompson, III, ed. The Hoosier-Shawnee Ecological Assessment. General Technical Report NC-244. St Paul, MN: US Department of Agriculture, Forest Service, North Central Research Station. 267 p.
- Ruffner, C.M. and M.D. Abrams. 2003. Disturbance History and Stand Dynamics along a Topographic Gradient in Old-Growth Hemlock-Northern Hardwood Forests of the Allegheny Plateau, USA. *Natural Areas Journal*. 23: 98-113.
- Groninger, J.W., T.B. Ozier, and C.M. Ruffner. 2003. Stand Compositional Dynamics in a Mature Illinois Ozarks Forest: Implications for management, 296-302 Proc. 13<sup>th</sup> Central Hardwood Forest Conference, Urbana-Champaign, IL. USDA Forest Service, North Central Research Station General Technical Report NC-234.
- Ruffner, C.M. A. Trieu, S. Chandy, M.B. Davis, D. Fishel, G. Gipson, J. Lhotka, K. Lynch, P. Perkins, S. van de Gevel, W. Watson, and E. White. 2003. From Savanna to Campus Woodlot: The historical ecology of farm woodlots in Southern Illinois, 333-342. Proc. 13<sup>th</sup> Central Hardwood Forest Conference, Urbana-Champaign, IL. USDA Forest Service, North Central Research Station General Technical Report NC-234.



- Ruffner, C.M and M.D. Abrams. 2002. Dendrochronological investigation of disturbance history for a Native American site in northwestern Pennsylvania. *Journal of the Torrey Botanical Society*. 129: 251-260.
- Shumway, D., M.D. Abrams, and C.M. Ruffner 2001. A 400-year history of fire and oak recruitment in an old-growth oak forest in western Maryland, USA. *Canadian Journal of Forest Research* 31: 1437-1443
- Ruffner, C.M. and K. Borza Arabas. 2000. Post European settlement land-use alters prairie/savanna vegetation in central Pennsylvania. *Castanea* 65: 9-20
- PSUCLIM 1999 . Storm activity in ancient climates, 1, Sensitivity of severe storms to climate forcing factors on geologic timescales. *Journal of Geophysical Research* 104 , No. D22 , p. 27,277. (Listed as co-author with 16 other researchers).
- PSUCLIM 1999. Storm activity in ancient climates, 2, An analysis using climate simulations and sedimentary structures. *Journal of Geophysical Research* 104 , No. D22 , p. 27,295. (Listed as co-author with 16 other researchers).
- Ruffner, C.M. and M.D. Abrams. 1998. Lightning strikes and resultant fires from archival (1912-1917) and current (1960-1997) information in Pennsylvania. *Journal of the Torrey Botanical Society* 125: 249-252.
- Ruffner, C.M. and M.D. Abrams. 1998. Relating land-use history and climate to the dendroecology of a 326 year old *Quercus prinus* talus slope forest. *Canadian Journal of Forest Research* 28: 347-358.
- Abrams, M.D., C.M. Ruffner, and T.A. Morgan. 1998. Tree-ring responses to drought across contrasting species and sites in the Ridge and Valley of central Pennsylvania. *Forest Science* 44: 550-558.
- Abrams, M.D., C.M. Ruffner, and T. E. DeMeo. 1998. Dendroecology and species co-existence in an old-growth *Quercus-Acer-Tilia* talus slope forest in the central Appalachians, USA. *Forest Ecology and Management* 106:9-18.
- Abrams, M.D. and C.M. Ruffner. 1995. Physiographic analysis of witness tree distribution (1765-1798) and present forest cover through north-central Pennsylvania. *Canadian Journal of Forest Research* 25(4): 659-670.
- C. Proceedings Articles
- A. Sluyter, C.M. Ruffner, and J.M. Adovasio. 1998. A cultural-ecological model of long-term landscape transformation for the Allegheny National Forest. 69<sup>th</sup> Annual Meeting, Society of Pennsylvania Archaeology, Harrisburg, PA April 24-26, 1998.
- Ruffner, C.M., A. Sluyter, M.D. Abrams, C. Crothers, J. McLaughlin, and R. Kandare. 1997. Assessing Native American disturbances in mixed-oak forests of the Allegheny Plateau. IN: *1997 National Silviculture Workshop Proceedings*, 96-103. D. Murphy and N. Loftus, (eds.) USFS NE Forest Exp. Stat. Gen. Tech. Rep. NE-238.
- Ruffner, C.M. 1997. Early plant succession following wildfire in Pennsylvania's mixed-oak forests. IN: *International Association of Wildland Fires First Conference on: Fire Effects on Threatened and Endangered Species and Habitats*, 239-244. J. Greenlee (ed.), Coeur d' Alene, ID, November 13-16, 1995.

Kandare, R, C.M. Ruffner, J. McLaughlin, C. Crothers, A. Sluyter, M.D. Abrams. 1997. Prehistoric human adaptations to changing ecosystems on the Allegheny National Forest in northwestern Pennsylvania. IN: *64th Annual Meeting of the Eastern States Archaeological Federation Proceedings*, Mt. Laurel, NJ, November 9.

Cogbill, C., J. Carlson, K. Hansen, K. Kramer, E. Moffett, C.M. Ruffner, M. Fournier, M. Wilkinson, and C. Woodhouse. 1996. Red Spruce in the Bowl Research Natural Area: Stand dynamics and structure. IN: *North American Dendroecological Fieldweek*. P.B. Brown, (ed.), White Mountain National Forest, NH.

Abrams, M.D. and C.M. Ruffner. 1995. Physiographic analysis of witness tree distribution (1765-1798) and present forest cover through north central Pennsylvania. IN: *Ecosystem management: Translating concepts to practice*. J. C. Finley and S.B. Jones (eds.), Pennsylvania State University, School of Forest Resources Issues Conference. 15 & 16 March. State College, PA.

#### D. Book Reviews

Thomas E. Avery and Harold E. Burkhart. 2002. *Forest Measurements*: Fifth Edition. McGraw-Hill, New York.

William J. McShea and William M. Healy. 2002. *Oak Forest Ecosystems: Ecology and Management for Wildlife*. Johns Hopkins University Press, Baltimore, MD.

#### E. Reports/Abstracts

Ruffner, C.M. Developing A Statewide Prescribed Fire Needs Assessment for Illinois. WPF#12-L12W, Submitted to IDNR 12 April 2016.

C.M. Ruffner and J.W. Groninger. 2010. *Practical considerations for ecological rehabilitation and recreation in natural areas management*. Fire Symposium, Natural Areas Association Annual Meeting, Lake of the Ozarks Conference Center, 26 October.

Margaret Anderson, Eric J. Holzmüller, Charles Ruffner, and John Groninger. 2010. Evaluation of TSI and prescribed burning on residual tree growth in oak dominated forests. SAF Society of American Foresters National Convention, October 30, Albuquerque, NM.

Ruffner, C.M. *AWATT TDY Final Report* to USAID. September 11, 2010.

Ruffner, C.M. My Efforts in Afghanistan. CUF Links Newsletter. February 2010. Carbondale Unitarian Fellowship

Ruffner, C.M. 2009. Traces of Ireland's Past: An Historical Ecology Approach. Midwest Regional American Conference for Irish Studies. Southern Illinois University, 15-17 October, 2009. (published abstract)

Ruffner, C.M. *AWATT TDY Final Report* to USAID. October 11, 2009.

Ruffner, C.M. *AWATT TDY Final Report* to USAID. August 20, 2009.

Ruffner, C.M. *AWATT TDY Final Report* to USAID. August 30, 2008.

Williard, K.W.J., J.E. Schoonover, J. Crim, J.W. Groninger, J.J. Zaczek, and C.M. Ruffner. May 2008. Evaluation and management of surface hydrology, erosion, and sedimentation associated with tracked and wheeled vehicle training at Ft. Knox, Kentucky – Phase 1, Year 1. Annual Report to ICI Services and US Department of Defense. 29 pp.

Ruffner, C.M., and P. Tikusis. Classifying the Fire Regime Condition Class of Southern Illinois Oak-hickory Forests. 2008. Draft Submitted to Nick Giannettino, Shawnee National Forest 04/10/08, Revised Final Draft Submitted to Steve Hupe, Shawnee National Forest Planner 12/20/08

Rodman, S., J. Fedkiw, C. Ruffner, E. Smith. 2008. Landscape Forestry & Sustainability: Connecting Forests, Fire and People. Fire Working Group, Society of American Foresters National Convention, 5-8 November, Reno, NV. (published abstract)

Williard, K.W.J., J.E. Schoonover, J. Crim, J.W. Groninger, J.J. Zaczek, and C.M. Ruffner. May 2007 – August 2008. Evaluation and management of surface hydrology, erosion, and sedimentation

- associated with tracked and wheeled vehicle training at Ft. Knox, Kentucky – Phase 1. Monthly Progress Reports to ICI Services and US Department of Defense.
- C.M. Ruffner and Brendan O’Shea. 2006. Lessons in Conservation Biology from Killarney National Park, Co. Kerry, Ireland. IN: Society of American Foresters 2006 National Convention, Oct 25-29, Pittsburgh, PA. (published abstract)
- Groninger, J.W. and C.M. Ruffner. 2006. Final Report on “Oak Ecosystem Maintenance and Restoration in Southern Illinois” to Illinois Department of Natural Resources (IDNR) Conservation 2000 Program.
- Ruzicka, K. J., J. W. Groninger, M. A. Davenport, and C. M. Ruffner. 2006. Comprehensive vegetation management strategy for a multiple use park. Department of Forestry, Southern Illinois University Carbondale, Research Publication NS-018, 37 p.
- Holevoet, S. and C.M. Ruffner. 2006. Using Prescribed Fire and Mechanical Thinning to Improve the Regenerative Potential of Oak Species. IN: Dickinson, M. B., ed. Fire in eastern oak forests: delivering science to land managers, proceedings of a conference; 2005 November 15-17; Columbus, OH. Gen. Tech. Rep. NRS-P-1. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 304 p. (published abstract)
- C.M. Ruffner. 2004. Fire Management Plan for the Seneca Nation of Indians, Salamanca, NY.
- C.M. Ruffner and J.W. Groninger. 2004. Fire and Vegetation Management Plan for the Marseilles Training Area. Report and Plan Submitted to Illinois National Guard Bureau, Environmental Division, July 1.
- C.M. Ruffner and A. Carver. 2004. The Historic and Current Fire Regimes of the Shawnee National Forest. Report Submitted to Fire Line Officer, N. Gianettino. Shawnee National Forest, Harrisburg, IL.
- Fralish, J.S., A.D. Carver, R.C. Anderson, C.M. Ruffner, R.G. Thureau, S.L. Sauer, D.D. Close, R. Swigart, E.M. White. 2002. Presettlement, present, and projected Forest Communities of the Shawnee National Forest. Final Report 133 pp.
- Patterson, W.A. III and C.M. Ruffner. 2000 . Vegetation and Fire History for the Sussex Swamp (NJ) Wetland. Report Submitted to The Nature Conservancy, New Jersey Field Office.
- Patterson, W.A. III and C.M. Ruffner. 2000. Fire Management Plan for the Massachusetts Military Reservation (MMR). Final Report Submitted to Camp Edwards Environmental Department. 219 pp. Bourne, MA.
- C.M. Ruffner. 1999. Historical Ecology of the Allegheny National Forest. Report submitted for the 2000 Forest Plan Revision, Allegheny National Forest, Warren, PA.

## VI. TEACHING EXPERIENCE

### A. Courses Taught

#### 1. (At SIUC)

Course Name (credits)	Semesters Taught
Pyrogeography: the history of fire on Earth (Univ Honors Course) UHON 351 (3)	Springs 2023- 2025
Ag & Art in Ireland: Sustainability and The Unique Ecology of The Burren (Univ Honors Course) UHON 351 (3)	Summer 2023 & 2025
Forest Ecology Field Studies FOR 454C (3)	Spring 2023-2025
Forest Measurements-For 351 (4)	Spring 2000-2005, Fall 2005-present
Fire in Wildland Management-For 315 (3)	Spring 2003-present
Intro to Remote Sensing and Geographic Information Systems- For 408 (4)	Spring 2009-2015
Natural Resource Inventory-For 451 (2)	Spring 2000-2002, Fall 2003
Forest Recreation Field Study-For 320C (1)	Summer 2003-present
Forest Measurements Field Study-For 351C (1)	Summer 2000-present

Forest Protection Field Study-For 314C (1)	Summer 2003-Present
Prescribed Burn Planning- For 415 (2)	Spring 2015-present
Basic Firefighter S130- NWCG Course	Spring 2001-present
Intro to Forestry FOR 100 (1)	Fall 2015-present
Natural Resources of Ireland & Scotland- For 494C Study Abroad (6)	Summer 2001, 2003, 2005, 2007, 2009, 2012, 2016, 2018
Natural Resources of Bavaria- Study Abroad (3-6)	Summer 2014
Historical Ecology-For 508 (2) fall semesters even years	Fall 2000-2024
Disturbance Ecology-For 531 (2) fall semesters odd years	Fall 2001-2025
Succession Theory-For 496 (2)	Spring 2002,2004, 2010, 2012, 2014
Resource Photogrammetry-For 311 (3)	Fall 1999-2001

## 2. (Classes @ Other Universities)

<b>Course Name (Credits)</b>	<b>Taught (University)</b>
Forest Measurements-For 331 (3)	Fall 1998 (UMASS-Amherst)
Advanced Ecology-For 703 (2)	Fall 1998 (UMASS-Amherst)
Forest Ecology-For 308 (3)	Fall 1997 (Penn State)

## 3. Guest Lecturer (At SIUC)

ERP 500- Physical and Biological Environmental Systems-Renewable Natural Resources  
 AG 420- International Agriculture  
 FOR 331- Forest Ecosystems  
 FOR 481- Wilderness Fire Management  
 PLB 596- Ecology Graduate Seminar- The science of Dendrochronology  
 ZOOL 463- Game Mammals- Fire and wildlife habitat management

## B. Teaching Awards and Honors

- Outstanding Teacher of the Year, CALPS, February 2010, 2024
- Donald M. Elkins, Excellence in Education Award, SIUC-CALPS Student Advisory Council, awarded February 2002, 2023
- Fire Dawgs Outstanding Club Award, SIUC-CALPS Student Advisory Council, awarded February 2004
- Faculty Advisor to Champion Woodsmen Conclave Team, Fall 2005-Present
- Faculty Adviser to Award Winning SIUC Shooting Team- 2014-present

## C. Number of Graduate Student Committees

John Lhotka (M.S. Forestry, 2001), Trevor Ozier (M.S. Forestry, 2001), Stephen Fillmore (M.S. Forestry, 2003), Kathryn Lynch (M.S. Forestry, 2006), Justin Mount (M.S. Forestry, 2004), Jessica Yeagle (M.S. Forestry, 2006), Donald Adams (M.S. Zoology, 2003), Timothy Carter (Ph. D. Zoology, 2003), Shibi Chandy (Ph.D. Plant Biology 2006), Yohanes Honu (Ph.D. Plant Biology, 2006), Mike Long (MS. Forestry 2007), Rebecca Mooneyhan (Ph.D. Plant Biology, 2007), Steve Fadden (Ph.D. Environmental Resource Planning 2007), Karen Frailey (M.S. Forestry 2007), Rose Blois, (MS. Plant Biology 2008), Jonathan McQuade, (MS Forestry 2008), Brian Engell (M.F.A. Sculpture 2008), Jackie Pearson, (Ph.D. Geography 2008), Emily Bielecky (M.S. Geography, 2008), Keri Teal (MS. Forestry 2009), Mike Martinek (MS. Forestry 2009), Cydney Meadows (MS. Zoology 2009), Julia Ryherd (MS Geography), Devin Hoffer (MS Wildlife resources) Wes Petty (PhD Acoustic Ecology), Katie Backman (PhD Forestry & Zoology)

## D. Completed Graduate Students

Name	Thesis Title	Current Status
Saskia van de Gevel MS 2002	The Influence of land-use history on the forest development of the Illinois Ozark Hills.	Assistant Professor of Geography, Appalachian State University, NC
Penny Perkins MS 2002	The change in three Ozark Hill prairies since cessation of management in 1989.	Loess Hills Prescribed Burn Crew, Nebraska
Beth Jones MS 2003	Successional Dynamics and dendroecology of <i>Pinus Echinata</i> (Mill.)-Mixed <i>Quercus</i> Forests at LaRue Pine Hills, Southern Illinois.	Lead forest fuels technician, San Juan NF, Colorado
John Nelson MS 2007 Co-chaired w/ J. Groninger	Fire History And Vegetative Response To Tornado And Salvage Harvesting Disturbance In A Southern Illinois Bottomland Forest	Silviculturist, Mark Twain NF, MO
Cody Considine MS 2009 Co-chaired w/ J. Groninger	Fire History and Current Stand Structure Analysis of the Black Oak Sand Savannas of Kankakee Sands, Northeastern Illinois, U.S.A.	Prescribed Fire Specialist, Nachusa Grassland, TNC
Dennis Carril MS 2009	Understory Response to Disturbance: An Investigation of Prescribed Burning and Understory Thinning Treatments	Fuels Planner Sante Fe National Forest NM
Paul Tikusis MS 2009	Mapping the Current Fire Regime Condition Class of the Shawnee National Forest	District Forester, Wyoming State Forests
Jeffrey Harris MS 2011	Dendroecological Analysis of Contrasting Stand Types in Southern Illinois.	District Forester, IDNR
Brian Murphy MS 2012	Testing Fire and Harvesting Procedures to Increase Oak Regeneration in southern Illinois	Fuels Planner, Cal Fire
Jesse Reichmann MS 2012	Assessing the Development of the Southeastern Illinois Prescribed Burn Association.	Fuels Planner, Shawnee NF, IL
Kory Garrie MS 2017	Prescribed Fire Effects On The Invasive Species <i>Achyranthes Japonica</i> In Southern Illinois	TNC Prescribed Fire Crew Leader
John Lovseth PhD 2018	The Prologue To Management: The Effects Of Historical Anthropogenic Activities On Forest Ecosystems And Current Management Opportunities In Southwestern Illinois	Associate Professor & Natural Resources Manager, Principia College, Elsah, IL
Ashley Bergman MS 2020	Impacts of Land-use history on forest development at Touch of Nature	Belleville HS Science teacher
Leah Harper MS 2021	Diversity Patterns across Early, Mid, and Later Successional forests of Touch of Nature	District Forester- Washington State
Megan Alkazoff MS 2023	Effects of wildland fire on black oak savannas of Pembroke Township, Illinois	Rx burn boss-TNC Missouri
Leah Kleiman MS 2023	Otey-Grisley Nature Preserve old-growth study	Rx burn coordinator- Madison County, Wisconsin

## E. Graduate Student Awards under my Direction

- Datatel Foundation Scholarship for Graduate Research- Saskia van de Gevel - \$1300
- Society of American Foresters Diversity Scholarship- Saskia van de Gevel- \$800

## F. Current Graduate Students

Name	Thesis Title	Expected Graduation
Sarah Padgett MS	Identifying potential old-growth post oak stands in southern Illinois	Spring 2027

## G. Undergraduate Researchers:

Trevor Ozier (1999-2000), Josh Meuer (1999-2000), Joseph Edidin (2000-2003), Richard Thureau (2000-2001), Christopher Rokosh (2001-2003), Sam Frazier (2004), John Nelson (2004), Caleb Wilson (2004-2006), Brian Bolser (2005-2007), Brian Murphy (2006-2009), Travis Kling (2008-2010), Derek Jones (2008-2009), Kyle Carevic (2009-2010), Oliver Bossert, (2010), Cody Bailey (2010), Oliver Bossert (2011-2012), Jake Vancil (2011-2012), Marcus Rutherford (2011-2012), Kory Garrie (2012-2014), Casey Fuson (2014-2016), Jeremy Schumacher (2014-2017), Katie Rasche (2017-2019), Matt Hahn (2016-2018), Kyle Crider (2016-2018), Hugo Goulet (2015-2017), Tyler Grigsby (2018-2020), Tucker Wetzel (2018-2019), Joe Cesolini and Eli Oberle (summers 2023-2024), Harper

Walker West and Andrew Pecororo (spring 2025), Entire Fire Dawgs crew (1000+ volunteer prescribed burn trainees and crewpersons, 2000-2025)

## VII. UNIVERSITY SERVICE

### 1. Departmental

- Fire Dawgs- Wildland Fire Crew, Trainer and Advisor 2000- Present
- Undergraduate Curricular Committee, 2008- present
- Departmental Chair Search Committee, 2010
- Forest Management Faculty Search Committee, 2007
- Forest Ecologist Faculty Chair Search Committee, 2025
- Undergraduate Committee, 2006-Present
- Research Committee, 1999-2005
- Student Advisement-Every semester, 1999-Present
- Faculty Advisor, Forestry Club Conclave Team, 2005- Present
- Faculty Advisor, Society of American Foresters, 2000-2003
- *Ad hoc* Advisory Group Recruitment Committee, 2001
- *Ad hoc* Curriculum Development Committee, 2001-Present
- *Ad hoc* Instructional Review Committee. Pre-tenure review team for J. Zaczek , J. Groninger, J. Schoonover
- *Ad hoc* Summer Camp Curriculum Committee, 2000- present

### 2. College

- Coordinating Counselor, 2006-present
- Farms Timber Sale Coordinator, 2006-2007
- Agbassadors Selection Committee, 2000-2003
- Information Technology Committee, 2001-Present
- P & T Packet Reviewer, ABE, PLSS, ANS, Geography, Zoology

### 3. University

- Program Prioritization Committee 2016
- Thompson Woods Restoration Committee, 2000-2002
- Illinois State Fair, Ag Days Exhibit, "Saluki FireDawgs: The SIUC Wildland Fire Crew." Sponsored by SIUC Media and Communication Resources. August 17, 2004
- Prescribed Burning Coordinator for Fire Dawgs 2001-Present
- Pre-tenure review team for Eric Schaubert, Zoology 2007, Jorge Hernandez, Plant and Soil Sciences 2009, Seburn Pense, Ag Education 2012, Fahad Rasheed Forest Ecophysiology, Faisalbad, Pakistan 2019
- Grant Review Panelist, Office of Research Development and Administration, 2003-2006
- Organizer, 1<sup>st</sup> Shawnee Ecological Symposium, 2002

### 4. National

- Society of American Foresters, Illinois Chapter Chair, 2010-2011
- Illinois Prescribed Fire Council Governing Board Member, May 2009-Present
- Fire in Eastern Oak Forests Conference  
Co-Chair, Local Arrangements, 2006-2008  
Steering Committee, 2006-2010
- Governing Board Member, Midwest Oak Woodland and Forest Fire Consortium

### 5. International

- See page 2 above

## VIII. PROFESSIONAL SERVICE

### A. Professional Society Membership

- The Forest History Society
- Society of American Foresters- Certified Forester #1909
- Natural Areas Association
- Torrey Botanical Club
- Phi Kappa Phi National Honor Society
- Xi Sigma Pi National Honorary Forestry Society, Forester and Ranger positions held

### B. Editorial Experience

Subject Managing Editor, Plant Ecology, *Natural Areas Journal* 1999-2012

- Coordinated review and revision process for 6-8 manuscripts annually

Co-Editor with J.W. Groninger:

- Staub, F. North America's Forests and Woodlands, Mondo Publishing, New York, NY. 2005.

### C. Consultantships

- Dendrochronology Expert Witness- Salem, Illinois 2008
- Dendrochronology Expert Witness- Canal Wood Industries 2001-2003
- Forester- various Non-Industrial Private Landowners, 1995-Present

### D. Reviewer

#### 1. Journals:

*Ambio, Ecology, Journal of Ecology, Journal of Environmental Management, Journal of the Torrey Botanical Society, Canadian Journal of Forest Research, Journal of Biogeography, Journal of Archaeology, Natural Areas Journal, Castanea, Central Hardwoods Conference, Southwestern Naturalist, Northeastern Naturalist, Missouri Forest Ecosystems Project, Pennsylvania Academy of Science*

In addition, I have reviewed many US Forest Service General Technical Reports and Publications

#### 2. Textbooks:

Thomas E. Avery and Harold E. Burkhart. 2002. *Forest Measurements*: Fifth Edition. McGraw-Hill, New York.

William J. McShea and William M. Healy. 2002. *Oak Forest Ecosystems: Ecology and Management for Wildlife*. Johns Hopkins University Press, Baltimore, MD.

#### 3. Grant Proposal Reviews:

NIFC-Joint Fire Science Program (2003) (2019)

SIUC-Office of Research Development and Administration, New Faculty Seed Grant Program (2003, 2004, 2006)

Maine Agricultural and Forest Experiment Station (2002, 2007)

### E. Other Professional and Public Service

Letter of Commendation, 1-16<sup>th</sup> TN Agribusiness Development Team, FOB Gardez, Paktia, October 2009

Ecological Analysis Team, Shawnee and Hoosier National Forests, 2002-2005

Shawnee RC & D Representative 2002-Present

Moderator- Plant Ecology Session- 63<sup>rd</sup> Annual Meeting of the Association of Southeastern Biologists, Boone, NC 2002

Vegetation Modeling Team-Eastern Region, Interagency Fire Regime Condition Class Initiative, 2005

Panelist, Society of American Foresters, Forest History Working Group 2007-2008

Non-commissioned Officer (NCO) of the Year, 1990-1991 for the entire Pennsylvania Army National Guard; represented the 28<sup>th</sup> Infantry Division at the National competition in Buffalo, NY.

US Army Decorations- Good Conduct Medal, Army Commendation Medal (w/ oakleaf cluster), Army Achievement Medal (w/ 2 oakleaf clusters), Basic Parachutist Wings, Honorable Discharge for 8 years service (1986-1994). Rated 50% Disabled Veteran by VA

## IX. COMMUNITY SERVICE

- During the years 2003-2025 there have been so many presentations to Girl Scout, Cub Scout & Boy Scout troops, or similar academic groups regarding the wise management of our natural resources and educating the future foresters and land managers of our world!
- Organized and led annual Big Event, Dawg Days, & Maplefest activities @ Touch of Nature
- The Importance of Forests to our World. Presentation to the Summer Camp children of the Historic Stinson Library, Anna, IL. 7 July 2010.
- Fire Dawgs Recruitment Day, SIUC Saluki Expo @ Missouri Valley Conference, ST. Louis, MO. 6 Mar 2010.
- Ag Days Exhibit, "Saluki FireDawgs: The SIUC Wildland Fire Crew." 2004 Illinois State Fair, August 17, Springfield, IL with students Dub Evans and Scott Holevoet
- Science Judge, Illinois Junior Academy of Science, Region 8. SIUC-Ballroom, Carbondale, IL. 2004
- Religious Community Volunteer Hours:
  - *My Transcendentalist Life*, a self-written sermon presented at the Carbondale Unitarian Fellowship morning service, November 16<sup>th</sup>, 2008 linking my Stewardship Ethic of Forestland management to my spiritually "Transcendentalist" persuasion.
  - *The Meaning of Memorial Day*, sermon presented to the Carbondale Unitarian Fellowship, May 2007.
  - Board of Trustees- Carbondale Unitarian Fellowship 2007-2010, 2020-2024
  - Ministry Council-Carbondale Unitarian Fellowship 2003-2006
  - Buildings and Grounds Committee-Carbondale Unitarian Fellowship 1999-Present
  - *The Trail of Tears in Southern Illinois*-Presentation to the Carbondale Unitarian Fellowship-2002
- Science and Technical Adviser to Cobden High School, Jeff Witters, Environmental Biology Instructor. Guidance in applying dendrochronology techniques to secondary education. 2002-2004
- Instructor and student mentor, PA Governor's School for the AG Sciences, State College, PA. Dendroecology of oak forests, 1995-1998
- Guest Lecture in Geography, Penns Valley H.S. Spring Mills, PA. "Pennsylvania's Native American Cultures"- 1998
- Wildfire in Pennsylvania's Mixed-Oak Forests. Bellefonte Women's Club-1996
- Timber Rattlesnake Conservation. Penn State Chapter, Society of American Foresters-1994
- Pennsylvania's Forest Heritage: Past, Present, Future. Bellefonte Chapter, Daughters of the American Revolution Awards Banquet-1994
- Pennsylvania's Forests. Second-grade discussion group, Howard Elementary School-1994