

David A. Woods, Jr.

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Sparta, MO 65753

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Current Positions

Senior Project Scientist – Ozark Underground Laboratory, Inc. (July 2020 – present)

1572 Aley Lane
Protem, MO 65733

Executive Director – Tumbling Creek Cave Foundation (November 2020 – present)

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Protem, MO 65733

Past Positions

Fisheries Management Biologist – Missouri Department of Conservation (August 2008-2020)

Southwest Regional Office
2630 N. Mayfair
Springfield, MO 65803

Adjunct Biology Faculty

Missouri State University – Springfield Campus (Fall 2018)

901 S. National
Springfield, MO 65897

Ozarks Technical Community College – Richwood Valley Campus (Spring 2014 – Spring 2018)

3369 W. Jackson St.
Nixa, MO 65714

Drury University - Ava Campus (spring 2010-fall 2012)

1904 S. Jefferson
Ava, MO 65608

Professional Experience

- Use of fluorescent tracer dyes to conduct hydrogeological investigations and recharge area delineations in karst landscapes
- Management of contaminants in caves and karst features
- Development and implementation of detailed conservation plans for rare, threatened, and endangered species
- Radon monitoring in show caves
- Management of game and non-game fish populations in numerous large and small impoundments, small streams, and larger river systems using multiple fisheries techniques and sampling gears
- Leadership of multi-disciplinary planning teams for conservation efforts in priority watersheds
- Coordination of multiple aquatic and terrestrial habitat improvement projects on public and private land, including administration of federal, state, and NGO funding.
- Coordination of karst educational field trips, region-wide angler education programs, fishing clinics and volunteer management programs
- Served as Esocid Technical Committee Chair for the North Central Division of the American Fisheries Society
- Chair of the multi-disciplinary MDC Electrofishing Safety Committee, which developed and in-house training and a nationally recognized electrofishing manual adopted by many state agencies.
- Served on the Chronic Wasting Disease targeted culling operations ICS team in the Southwest Region

- Served multiple years as station leader for CWD mandatory sampling efforts in the Southwest Region
- Provide technical guidance on multiple stream dynamics issues for various state and federal agencies
- Program Chair on the 2018 Missouri Natural Resources Conference Steering Committee
- Conducted detailed habitat surveys in streams using EPA standardized protocols
- State Recovery Leader for the Federally Endangered Tumbling Creek Cave Snail
- Supervision of full-time and hourly employees
- Assisted various divisions with waterfowl surveys, black bear trapping, feral hog control, prescribed fire management, wildfire suppression, emergency management efforts and habitat restoration projects

Teaching experience

- One semester as adjunct faculty at Missouri State University – Principles of Fisheries Management
- Seven semesters as adjunct faculty at Ozarks Technical Community College - Introduction to Biology lecture/lab.
- Six semesters as adjunct faculty at Drury University - Intro Biology, Ecology, Wildlife Management, and Conservation Theory and Practice
- Introductory Biology for non-majors, laboratory (M.S. graduate assistant at Missouri State University)
- Comparative Vertebrate Anatomy, laboratory (M.S. graduate assistant at Missouri State University)

Education

- **Missouri State University**, Springfield, MO
- M.S. Science (Biology), graduated July 2008, Research in fish behavior and toxicology
- B.S. in Wildlife Biology, graduated December 2005

Research experience (M.S.)

- Collected stream fish using multiple gears and maintained fishes in laboratory aquaria
- Partnered with USGS Columbia Environmental Research Center to develop protocols for toxicological exposures
- Collaborated with City Utilities of Springfield, MO to assess metal concentrations in water and fish tissues
- Conducted both lab and field behavioral observations in stream fishes

Publications

- Crane, A.L., Woods, D., & Mathis, A. (2009). Behavioural responses to alarm cues by free-ranging rainbow darters (*Etheostoma caeruleum*) – Behaviour 146: 1565-1572
- Lanning, S., Woods, D., Mabee, W., and Combs, M. (2015). Range extension for *Limnichoderus naviculatus* (Casey, 1889) (Coleoptera: Limnichidae) in North America based on records from Missouri, USA. The Coleopterists Bulletin 69(4):662-664

Knowledge, Skills and Abilities

- Proficient in fishery management techniques and equipment: boat and backpack electro-fishing, seining, gill-nets, hoop nets, trawls, contaminant sampling, scale and otolith aging
- Proficient in conducting stream fish assemblage surveys and conducting detailed habitat analysis
- Experience in numerous aquatic and riparian habitat restoration methodologies
- Proficient in various administrative tasks including budgeting, work planning, developing SMART objectives and the performance management systems
- Proficient in grant writing, building partnerships and project coordination
- Proficient in data collection, entry and analysis
- Proficient operating watercraft including large reservoir boats, jet boats, habitat barges, john boats and canoes
- Proficient in public communication (formal and informal)
- Experienced in working in harsh conditions and inclement weather
- Excel at goal-oriented tasks and multi-disciplinary team work

Relevant Training and Certifications

- PADI SCUBA Certified
- USDA Certified Pesticide Applicator License
- CPR, First Aid, and Wilderness First Aid Certified
- Level 1 Wildland Fire Suppression
- Environmental Compliance Certification
- Several internal resource training certifications include: Fish Health and Disease, Stream Dynamics, Cold and Warm Water Hatchery, Freshwater Mussel ID, Aquatic Plant ID and Management, and Arc GIS
- Process Improvement Investigation
- SMARTer Objective Writing
- Performance Management training (1.0 and 2.0)
- Franklin-Covey All Access Pass training
- Customer Service Training
- Extended Disc Training
- Supervisor Liability
- Stakeholder Engagement Planning
- Contract Training
- Franklin-Covey 4 Roles of Leadership
- Franklin-Covey 7 Habits of Highly Effective People

Graduate and Undergraduate Level Coursework

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| • Ichthyology | • Herpetology |
| • Fisheries Management | • Entomology |
| • Wildlife Management | • Woody Plants |
| • Advanced Vertebrate Zoology | • Plant Taxonomy |
| • Wetland Ecology | • Mammalogy |
| • Analytical Methods for Pop. Studies | • Ecology |
| • Biostatistics | • Genetics |
| • Advanced Biostatistics | • Physiology |
| • Behavioral Ecology | • Geology |
| • Scientific Writing | • Ecology and Society |
| • Comparative Vertebrate Anatomy | • Evolutionary Ecology |
| • Field Zoology | |

Affiliations

- American Cave Conservation Association
- Missouri Chapter of the American Fisheries Society
- American Fisheries Society – North Central Division Esocid Technical Committee Chair (2012-2014)
- Vice President, Ozarks Biological Graduate Society, Missouri State University (2007-2008)