Training Announcement

U.S. Fish & Wildlife Service
National Conservation Training Center

Principles & Techniques of Electrofishing
FIS2201

Course Dates: July 11 - 15, 2011
Course Location: West Shore Community College, Scottville, Michigan
Course Length: 5 days/36 hours
Instructors: Jan Dean & Alan Temple

Course Description:

This class builds knowledge and skills that will enable biologists to increase the standardization and efficiency of electrofishing sampling. Participants learn how to apply electrical circuit and field concepts to various challenges related to sampling, equipment performance, selection of suitable equipment, equipment trouble-shooting, fish injury, and safety. Important capabilities that will be gained include the ability to

- improve standardized sampling and efficiency by developing power/power density goal settings (power and electric field standardization), manipulating waveform attributes (type, frequency, duty cycle, voltage, etc.), evaluating electrode design and placement; and incorporating efficiency factors in sampling designs;
- evaluate equipment by estimating effective operating range across water conductivities based on equipment specifications, electrode resistance, and power required for successful electrofishing;
- evaluate equipment by considering waveform control, metering, and safety features;
- operate electrofishing equipment safely;
- develop a safety program for staff;
- use a fish injury risk model to assess and minimize electrofishing-induced fish injury;
- evaluate the usefulness of catch per unit effort data to detect trends;
- describe a process to estimate capture probabilities and then to use these estimates to adjust catch per effort data to abundance estimates; and
- understand and apply concepts presented in the electrofishing literature.

Who Should Attend: Aquatic biologists that use electrofishing as a sampling or collecting tool.

Cost: There is no tuition for US Fish and Wildlife Service, BLM, or NPS employees. Tuition is $950 for other participants.

How to apply: If you are a DOI employee, visit DOI Learn http://www.doi.gov/doilearn/index.cfm > log-in > catalog > search for “electrofishing” > page down to “Principles and Techniques of Electrofishing” at bottom of page > click on Scheduled Classes. For non-DOI employees, go to http://training.fws.gov/learn/courses.htm and follow directions. If you have questions, the Registrar may be contacted at (304) 876-7692.

Questions and additional information: Please contact Alan Temple, alan_temple@fws.gov or Ms. So Lan Ching, So_Lan_Ching@fws.gov , 304/876-7771.