American Fisheries Society

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ENVIRONMENTAL ETHICS APPLICATION TO NATURAL RESOURCES MANAGEMENT

Sponsored by the California-Nevada Chapter of the American Fisheries Society

BACKGROUND: The various fields of environmental science are more abundantly endowed with technological expertise than with an ethical/philosophical base to guide the application of this technology. Under strong political pressure, scientists often make "judgment calls" without the benefit of legal or procedural guidelines. Compounding this problem is a general failure of most university resource management curricula to require courses in the emerging fields of environmental philosophy or ethics, thereby producing in effect, missiles without guidance systems. Evidence of this syndrome is universal, and the potential resource impacts are enormous.

THE COURSE: This one day seminar examines the problem of philosophical and ethical weakness (or misdirection), discusses case histories, and suggests means of alleviation. Aldo Leopold's "The Land Ethic" (A Sand County Almanac) and other writings provide the basis for the course, which also draws heavily upon the thinking of contemporary environmental scientists and philosophers. An accompanying syllabus will provied pertinent literature and an extensive bibliography.

THE INSTRUCTOR: Phil Pister, retired fishery biologist for the California Department of Fish and Game, has nearly 40 years experience in many phases of resource management and biopolitical issues. He has published numerous articles relating to environmental ethics and has lectured to natural science classes at over 60 North American universities. Phil received his M.A. Degree in Zoology at U.C. Berkeley and conducted his graduate work under Paul Needham, Robert Usinger, Starker Leopold, and William Hartman.

DATE OF THE COURSE: February 2, 1995.

WHERE: Sheraton Inn, Napa, California.

COST: $100 for AFS members, $125 for non-AFS members (does not include travel or lodging expenses). You must be a current member of both the parent society and the California-Nevada Chapter to qualify for the AFS member rate.

HOW DO I ENROLL OR GET MORE information? Contact Lesa Meng, c/o USFWS, 2800 Cottage Way, Room E1803, Sacramento, CA 95825. Telephone (916)978-5408 extension 367.

Enrollment deadline is January 20, 1995. An agency, company, or personal check should accompany your enrollment request. **Checks should be made payable to Cal-Neva Chapter, AFS.** For state and federal employees, a copy of your **approved** training request will be sufficient to hold a space. Enrollment is limited to the first 50 paid or confirmed registrants. A minimum of 20 candidates must enroll by the deadline or the course will be canceled.

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WORKSHOP ON THE CONCEPT - DESIGN - IMPLEMENTATION AND MONITORING OF STREAM RESTORATION PROGRAMS

Sponsored by the California-Nevada Chapter of the American Fisheries Society

THE COURSE: This four-day course will provide a detailed overview of the planning, design, implementation and monitoring phases of stream restoration using Lee Vining and Rush creeks as examples. The course will be taught by members of the Restoration Planning Team for Lee Vining and Rush creeks and will include classroom sessions and site visits to both creeks. When in the field, the class will be divided into small groups. Each group will tour the same sites with the instructors, examining in detail each aspect of the restoration process. Specific topics covered by the team will include:

- Identifying restoration goals and objectives.
- Principals of fluvial geomorphology as it relates to understanding past changes to the stream and the ability to implement goals and objectives.
- Designing spawning habitat, pool and backwater habitat and the placement of object cover.
- Preparation of a construction plan (e.g., materials, site access, preventative measures to safeguard water quality and sensitive riparian and wetlands areas), review of the various types of construction activities related to the development of pools, riffles, rewatering historic channels, placement of woody debris/object cover, spawning gravel, backwater habitat, side channel improvement, soft armoring and other treatment.
- Discussion of permitting procedures with CDFG, Army Corp of Engineers, USFS and others.
- Assessment of the fish populations to document baseline conditions and measure the response of fish to restoration treatments. Methods of analyzing abundance, age, growth, and survival of fish will be discussed.
- Preparing a riparian revegetation plan, selecting methods for revegetating creeks, and a discussion of factors influencing natural regeneration of riparian vegetation.

The course instructors are:

Scott English is a biologist and a licensed California Engineering Contractor responsible for directing and documenting the construction of treatments. Mr. English has extensive experience in design and implementation of watershed and stream restoration projects throughout the western United States. Mr. English has also assisted in preparation of permitting documents and coordination with resource staff involved with permitting.

Dr. Eric Larsen is a civil engineer and fluvial geomorphologist who specializes in the assessment of river processes. Dr. Larsen's professional experience and technical background includes over eight years of channel design, channel stability, and river channel migration analyses. He has extensive experience in evaluating the sediment transport processes of river systems and has developed designs for restored stream channels with enhanced fisheries habitat. He has also conducted research on fluvial processes on rivers throughout the Western United States.

Dr. Carl Mesick is a fisheries biologist who has conducted trout population studies at Rush and Lee Vining creeks since 1985. His expertise includes analysis of age, survival, growth rates, migration behavior, spawning habitat, summer and winter habitat use, food preference, temperature effects, stream habitat classification, and instream flow. In addition, he has helped develop restoration plans for streams in the Mono Basin and the El Dorado Forest.

Tim Messick is a botanist specializing in riparian ecology, wetland delineation and habitat restoration. Mr. Messick is responsible for designing and supervising the riparian revegetation and monitoring program for Lee Vining and Rush creeks. He has also conducted riparian studies in the Mono Basin for the Mono Lake water rights EIR.

Dr. Scott Stine is a geomorphologist who has studied the geomorphology and paleoclimatology of the Mono Basin since 1979. He has authored several reports on those subjects areas and has led several field tours and discussions for professional organizations in the Mono Basin. Dr. Stine documented the historic and present geomorphic, hydrographic, and vegetative conditions on the Lee Vining and Rush creeks using aerial photographs obtained prior to 1940 and in recent years.

Tom Taylor is a fisheries biologist who is responsible for supervising the fish monitoring program which includes assessing fish populations in treated and non-treated segments of the streams. He has field evaluated restoration treatments in Rush and Lee Vining creeks during winter and during high flow conditions and followed up with an examination of fish population response. Mr. Taylor has extensive experience designing and implementing fish population monitoring plans for streams in the Sierras and coastal areas. In addition, he has evaluated several stream restoration projects proposed within State Parks throughout California.

E. Woody Trihey is a hydraulic engineer who specializes in quantifying the response of fish habitat to naturally or artificially induced changes in river processes. His professional experience includes nearly 20 years developing and applying scientific methods to describe the response of fish habitat to changes in streamflow, stream temperature, sediment transport and ice process. Mr. Trihey is the Restoration Consultant selected to plan and implement the restoration work for Lee Vining and Rush creeks.

DATES OF THE COURSE: May 8-11, 1995, 8:00 a.m. to 5:00 p.m. (The Monday session will start at 12 noon with registration).

WHERE: Lee Vining, California, at the Lee Vining Presbyterian Church.

COST: $300 for AFS members, $400 for non-AFS members (does not include travel or lodging expenses). You must be a current member of both the parent society and the California-Nevada Chapter to qualify for the AFS member rate.

HOW DO I ENROLL OR GET MORE INFORMATION: Call or write Shawn Chase, ENTRIX Inc., 590 Ygnacio Valley Road, Suite 200, Walnut Creek, CA 94596, telephone (510) 935-9920.

Enrollment deadline is April 14, 1994. An agency, company, or personal check should accompany your enrollment request. **Checks should be made payable to Cal-Neva Chapter, AFS.** For state and federal employees, a copy of your **approved** training request will be sufficient to hold a space. Enrollment is limited to the first 45 paid or confirmed registrants. A minimum of 20 candidates must enroll by the deadline or the course will be canceled.

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NATURAL RESOURCES NEGOTIATION AND DECISION MAKING

Co-sponsored by:
The California-Nevada Chapter of the American Fisheries Society
Colorado State University

This course focuses on developing skills in interpersonal and interorganizational negotiations and decision making in a wide range of natural resource issues including endangered species and water resource management (including IFIM studies). Upon completion of this course, participants will be able to:

- Diagnose the negotiation strategy employed by others.
- Recognize elements of effective communication.
- Use the tactics of three classic negotiation strategies.
- Negotiate more effectively when not in control of the decision process.

This class is recommended for anyone who may be involved in a resource negotiation.

THE INSTRUCTORS:
Nina Burkardt has worked for USFWS and now National Biological Survey (NBS) since 1987. Her major interest is the effectiveness of various mechanisms and strategies for protecting water resources and she has published in the fields of natural resources negotiation and instream flow protection strategies. Nina has a M.S. in Political Science focusing on environmental politics and policy. She has taught "Natural Resources Negotiation and Decision Making" to agency and non-agency scientists since 1989.

Jonathan Taylor is a Research Social Scientist for in Fort Collins, Colorado for NBS. Jonathan has a Ph.D. in Renewable Natural Resources and has published in the fields of natural resources negotiation, IFIM, and recreational use and public preferences of natural resources. He has been employed by USFWS and now NBS since 1988 and has also taught "Natural Resources Negotiation and Decision Making" since 1989.

Currently, both Nina and Jonathan are Senior Investigators on a research project examining FERC licensing/relicensing negotiations.

DATES OF THE COURSE: February 22-24, 1995

WHERE: National University, 9320 Tech Center Drive, Sacramento, California

COST: $350 (does not include travel or lodging expenses).

Registration form on the reverse

Natural Resources Negotiation and Decision Making

Course Registration Form

Name _____

Business/Agency _____

Address _____

City _____ State _____ Zip _____

Business Phone (___) _____ FAX (___) _____

Course: EC 417 February 22-24, 1995 Sacramento, CA $350

Total amount due: $_____

Please indicate method of payment, **made payable to Colorado State University:**

_____ Check or money order enclosed.

_____ Purchase Order/Training Form enclosed.

_____ Bill MasterCard or Visa (circle one)

Card # _____ Expiration Date: _____

Return this application form and payment to:

Henrietta Cullinane
Office of Conference Services
Colorado State University
Fort Collins, CO 80523

Telephone: (303)491-7767
FAX: (303)491-0667

Enrollment is limited to the first 40 paid or confirmed registrants. A minimum of 24 candidates must enroll by February 8, 1995 or the course will be canceled.

No refunds will be made for cancellations received less than four weeks before the course starting date.