Frontmatter
Proceedings of the 8th National Extension Wildlife and Fisheries Specialists Workshop

Educational Challenges for the 21st Century

Western Washington University • Bellingham, WA •
26–29 June 1996
For additional copies of this publication, write:

Dan Edge
Department of Fisheries and Wildlife
Oregon State University
120 Nash Hall
Corvallis, OR 97331
Proceedings of the 8th National Extension Wildlife and Fisheries Specialists Workshop

Educational Challenges for the 21st Century

Western Washington University • Bellingham, WA •
26–29 June 1996

Edited by
W. Daniel Edge
Extension Wildlife Specialist
Oregon State University

Program Committee
Tom Barnes
Margaret Brittingham
Scott Craven
W. Daniel Edge (Chair)
Jim Davis
Lee Fitzhugh
Jim Knight
George Lewis
Jim Miller
John Munn
Jim Pease

Session Moderators
Tom Barnes
Margaret Brittingham
Paul Coreil
Scott Craven
Jim Davis
Ron Howard Jr.
Scott Hygnstrom
Jim Knight
Martin Main
Jim Miller
Jim Pease
Sherman Swanson
Bill Wurts
Forrest Wynne

References from these proceedings should be cited as:
## Contents

### Plenary Session—Welcome and Opening Remarks

**Opening Remarks**
- Edward DePuit ................................................................. 1

**Importance of Youth—a Challenge**
- Holly Davis ........................................................................... 3

**Workshop Expectations and GPRA Evaluation and Accountability**
- Ralph Otto ........................................................................... 5

**Perspective on Natural Resources Extension for the 21st Century**
- Merrill Petoskey ................................................................. 7

**A Perspective of Past, Present, and Future Extension Wildlife and Fisheries Programs**
- Jim Miller ........................................................................... 11

### Panel—What are Cooperators’ and Customers’ Expectations of Extension Wildlife and Fisheries Programs, and What are the Future Opportunities?

**Perspectives from USDA-APHIS-Animal Damage Control**
- Bobby Acord ....................................................................... 19

**Who Are Our Clientele?**
- Robert Brown ...................................................................... 22

**Expectations and Future Opportunities for Fish and Wildlife Extension Programs**
- Jack Berryman ..................................................................... 24

**Expectations and Opportunities—View from the Profession**
- Erik Fritzell ........................................................................ 26

**The American Farm Bureau Federation’s Perspective**
- Herbert Manig ...................................................................... 28

**The Fish and Wildlife Service—Extension Connection**
- Duncan MacDonald ............................................................ 30

### Extension Technologies for the 21st Century

**Distance Education: Reaching the Masses**
- Thomas Barnes ................................................................... 32

**Education over the Internet**
- W. Daniel Edge .................................................................. 33

**Multimedia Programs and New Computer Technologies: a Look at Texas 4-H Wildlife School Enrichment Programs**
- Billy Higginbotham .......................................................... 38

### Ecosystem Management—Interdisciplinary Research and Extension Program Opportunities

**Habitat Management Planning: Blending Commercial Forest Management and the Protection of Forest Ecosystems, Including Their Wildlife Communities**
- James Rochelle ................................................................. 43

### Images of the 8th Extension Wildlife and Fisheries Specialists Workshop

_Educational Challenges for the 21st Century_  
ii
Public Issues Education in Natural Resources
Speaking as a Professional
Dave Cleaves and Paul Adams ................................................................. 46
Interdisciplinary and Multidisciplinary Public Education by Combining Consensus-based Planning and Environmental Analysis
Sherman Swanson and Robert Wilson .................................................. 48
The Personal Approach to Put Theory into Practice
Delwin Benson ......................................................................................... 50

Wetland Management
Landowners' Perceptions Related to Wetland Regulatory Policy in Coastal Louisiana
Paul Coreil .................................................................................................. 52
Wetlands for Wisconsin: a Wetland Restoration and Management Program for Landowners and Local Government Staff
Darrel Covell and Robert Ruff ................................................................. 61
Extension Wetlands Education in Texas
Darrin Bauer and Will Cohen ................................................................. 64
A Strategy to Reclaim Wetlands and Balance Biomass Lost to the Cooling Process of a Nuclear Power Generating Station
Roger Locandro ....................................................................................... 67
Training Field Staff about Wetlands and Wetland Issues: Dealing with the Unknowns—a Case History
James Parkhurst ...................................................................................... 68
Wet and Wild: Why Landowners Restore Wetlands
James Pease .............................................................................................. 69

Biodiversity and Endangered Species
Development of a Forestry, Fish and Wildlife Center
W. Daniel Edge, Edward Jensen and Nancy Boriack ................................ 70

Wildlife Damage Management: Innovative Programs
State Agency Oversight of the Nuisance Wildlife Control Industry
Thomas Barnes ......................................................................................... 72
Vertebrate Pest Management and Endangered Species in California
Desley Whisson ....................................................................................... 72
Tackling Future Issues—the Wildlife Society’s Wildlife Damage Management Working Group
Scott Hygnstrom ..................................................................................... 72
Using Remote Delivery in Extension Wildlife Programs
Scott Craven and James Pease ................................................................. 73
Colorado Trapping Regulations: Caught Between the Steel Jaws of Tradition and Public Expectations
William Andelt ......................................................................................... 73

Pond Management
Managing Recreational Fish Ponds
Michael Masser ...................................................................................... 74
Sustainable Channel Catfish Farming: Low Management Production Through Modified Stocking and Feeding Practices
William Wurts and Forrest Wynne ......................................................... 81
The Use of Agricultural Limestone and Gypsum in Ponds
Forrest Wynne ........................................................................................ 86

Educational Challenges for the 21st Century
Fee-Fishing Enterprises
Fee-fishing: Introduction and Marketing
   Michael Masser ............................................................... 88
Development and Management of Fishing Leases
   Billy Higginbotham and Greg Clary .................................. 90

Aquatic Exotics: the Good, the Bad, and the Ugly
Exotic Aquatic Plants—some Good; Some Bad
   James Davis ........................................................................ 94

Continuing Education for Adults and Youth
National 4-H Sportfishing Program
   Catherine Elliott ............................................................... 97
   Brian Miller ......................................................................... 99
Extension Program Development: Evolution in Changing Environments
   Ronald Howard ................................................................. 103

Wildlife as an Asset to Landowners
Private Lands: the New Frontier for Wildlife and Recreation Management
   Delwin Benson .................................................................... 105
Fisheries and Wildlife Habitat Incentive Programs in Missouri: Partnerships in Land Stewardship
   Robert Pierce II .................................................................. 110
Wildlife as Natural Enemies of Crop Pests
   Ron Johnson, James Brandle, Natalie Sunderman, Rebecca Fitzmaurice, Nancy Beecher, Ronald Case, Mary Dix, Linda Young, Mark Harrell, Robert Wright, and Laurie Hodge ......................................................... 112
Walk-in Hunting Area Program in Kansas
   Charles Lee ........................................................................... 117
A Tax Incentive to Encourage Wildlife Management: The Texas Example
   Charles Ramsey ................................................................. 118

General Session
Balancing Split Appointments: A View from the Trenches
   Margaret Brittingham ....................................................... 121
Finding Your Song
   John Munn ........................................................................... 123

Workshop Evaluation

Educational Challenges for the 21st Century
iv