

RESOURCE MANAGEMENT TRAINEE NEWSLETTER

Number 9

March 1984

Greetings!

The April newsletter will be done by Jeff Connor. Any materials from here on in should be sent directly to Jeff. The amount of information received for March was sparse at best. Again, for everyone's sake, don't let the newsletter die! Materials can be sent to Jeff Connor at:

Canyonlands National Park
446 South Main Street
Moab, Utah 84532

Training and Conferences

Attached is a list of Remote Lensing Courses offered by South Dakota State University. Contact: Dr. J. Harlan (605) 688-4184.

11th Annual Assateague Shelf and Shore Workshop, April 13-14, 1984. Virginia Beach, Virginia. Contact: George Ortel (804) 440-4285.

Research in California's National Parks, September 5-7, 1984. University of California at Davis. Contact: Cooperative Park Studies Unit, Univ. of California, Davis, California.

Illegal Commercialization of Wildlife Conference, May 17-18, 1984. Phoenix, Arizona. Contact (602) 981-9400.

The proceedings of the Fifth International Conference on Bear Research and Management, edited by E. C. Meslow, have been published and are available for \$22.00 from the International Bear Association, c/o C. J. Martinka, Glacier National Park, West Glacier, MT 59936.

Every resource specialist working in a park with any bear management needs should be a member of the International Association for Bear Research and Management. It is a truly international organization, with members around the world. A conference is held every three years, where the most up-to-date scientific information about bears and their management is presented. Members receive a quarterly newsletter with reports on ongoing and recently completed projects, a list of recent literature, and other information relevant to bear management and research.

News

Jon Jarvis contacted the George Wright Society about NPS resource managers forming their own organization and sponsoring conferences. Since the George Wright Society is dedicated to the protection, preservation, and management of cultural and natural parks and preserves, it would appear logical for all resource managers to join the society rather than start a whole new organization. (You are urged to do so.) As I understand it, we'll be having a conference coming up in the near future. More information will be forthcoming.

MEETINGS OF INTEREST

1984

- 3-4 Mar. **Lead Poisoning in Wild Waterfowl** workshop, Canterbury Inn (316/942-7911), Wichita, KS. To precede jt. session of Central & Mississippi Flyway Tech. Councils. Open to professional biologists & administrators. (Dr. A. Wentz, Coop. Lead Poisoning Control Info. Program, National Wildlife Fed., 1412 16th St. NW, Washington, DC 20036. 202/797-6849.)
- 4-8 Mar. Assn. of Interpretive Naturalists Natl. Workshop, **INTERPRETATION: What is our future?**, Callaway Gardens, Pine Mountain, GA. (Peggy Van Ness, Exec. Mgr., AIN, 6700 Needwood Rd., Derwood, MD 20855. 301/948-8844.)
- 5-6 Mar. Biennial High Altitude Revegetation Workshop, Colorado State U., Fort Collins, CO. Although theme of workshop is high-altitude revegetation, much info also applicable to lower-elevation situations. (Julie Etra, Sec., H.A.R.Comm., Dept. of Agronomy, Colorado State U., Ft. Collins 80523. 303/491-6354 or 6517.)
- 15-18 Mar. 48th Nat. Wildl. Federation Annual Mtg., OMNI Intl. Hotel, Atlanta, GA. (Dr. Jay F. Hair, Exec. VP, NWF, 1412 16th St. NW, Washington, DC 20036. 202/797-6800.)
- 21-23 Mar. Northwest Science Conf., U. of Montana Campus, Missoula. **Third Predator Symposium**, 23 March. (Symposium contact: Charles Jonkel or Les Marcum, Wildl. Biol. Program, U. of Montana, Missoula 59812. 406/243-2253.)
- 23-27 Mar. TWS Annual Mtg., Park Plaza Hotel, Boston, MA. (Harry E. Hodgdon, Executive Director, TWS, 5410 Grosvenor Lane, Bethesda, MD 20814. 301/897-9770.)
- 23-28 Mar. 49th North American Wildl. & Natural Resources Conf., Park Plaza Hotel, Boston, MA. (L.R. Jahn, VP, Wildl. Management Institute, 1101 14th St. NW, Suite 725, Washington, DC 20005. 202/371-1808.)
- 4-5 Apr. Eastern Bobcat Workshop, U. of Maine, Orono, ME. (John A. Litvaitis, Maine Coop. Wildl. Res. Unit, 240 Nutting Hall, U. of Maine, Orono 04469. 207/581-2906.)
- 4-6 Apr. Desert Bighorn Council Annual Mtg., Bullhead City, AZ. (Desert Bighorn Council, Sec.-Treas., W.R. "Rick" Brigham, P.O. Box 1806, Carson City, NV 89702. 702/882-1631.)
- 5-7 Apr. 1984 NW Section Mtg., Penticton, B.C., Canada. **Too much of a good thing--where, when, and how to control wildlife.** (Brian Nyberg, B.C. Forest Service, 4594 Canada Way, Burnaby, B.C., Can. V5G 4L9.)
- 6-7 Apr. Pennsylvania Chapter, TWS, Annual Mtg., **Mammalogy in Pennsylvania**, Shippensburg U., Shippensburg, PA. (Dr. Gordon L. Kirkland, Jr., The Vertebrate Museum, Shippensburg U., Shippensburg, PA 17257. 717/532-1407.)
- 13-15 Apr. 7th Annual Intl. Wildlife Film Festival, U. of Montana, Missoula, MT. Sponsored by the U. of Montana Chapter, TWS. (Cindy Osmundson, Pres., U. of Montana Student Chap., TWS, Forestry School, 311, Missoula 59812. 406/243-2253.)
- 16-17 Apr. Workshop on deer in the Southwest, New Mexico State U., Las Cruces, NM. (Dr. Paul R. Krausman, Wildl. Fish & Recreation Resources, School of Renewable Nat. Resources, U. of Arizona, Tucson, AZ 85721.)
- 17-19 Apr. Western States & Provinces Elk Workshop, Chateau Lacombe, Edmonton, Alta., Can. (R. Wayne Nelson, 1984 Elk Workshop, Alberta Fish & Wildl. Div., Main Floor, N. Tower, Petroleum Plaza, 9945 108 St., Edmonton, AB, Can. T5K 2G6.)
- 27-29 Apr. Midwest Animal Behavior Conf., Carbondale, IL. (Dr. George H. Waring, Dept. of Zoology, Southern Illinois U., Carbondale, IL 62901.)
- 30 Apr.-
4 May 20th N. American Moose Conf. & Workshop, Quebec City. A call for papers will be forthcoming soon. (Danielle Paré, Min. du Loisir, de la Chasse et de la Pêche, 150 Boul. St.-Cyrille est, Quebec City, PQ, Can. G1R 4Y1.)
- 30 Apr.-
4 May Wild Sheep & Goat Conf., Sheffield House Hotel, Whitehorse, Yukon, Can. (Manfred Hoefs, Chief, Wildl. Mgt. Div., Yukon Wildlife Branch, P.O. Box 2703, Whitehorse, Yukon, Can. Y1A 2C6.)
- 13-16 May Northeast Fish & Wildl. Conf., **Coastal Zone: Man & Nature**, Convention Hall, Ocean City, MD. (Eugene F. Deems, Wildl. Admin., MD Dept. Nat. Resources, Tawes State Office Bldg., Annapolis, MD 21401. 301/269-3195.)
- 20-23 May Wildlife Biologists' Section, Can. Society of Zoologists, with participation of Wildlife Society of Canada, symp.--**Guidelines for Wildlife Policy in Canada**--in conj. with annual mtg. of CSZ, Acadia U., Wolfville, Nova Scotia, Can. (T.D. Nudds, Councilor, Wildlife Biologists' Sec., CSZ, c/o Dept. of Zoology, U. Guelph, Ont., Can. N1G 2W1.)
- 24-26 May Symp. on history of soil & water conserv., sponsored by Agric. History Society, U. of Missouri-Columbia, and Soil Conserv. Svc., at Columbia, MO. (Douglas Helms, Historian, SCS-USDA, P.O. Box 2890, Washington, DC 20013.)
- 24-29 May 150th Natl. Mtg. of Am. Assn. for Advance. of Sci., **Toward a World Perspective**, NYC. (Arthur Herschman, Head, Mtgs. and Publications, AAAS, 1101 Vermont Ave.-NW, Washington, DC 20005. 202/842-9530.)
- 11-12 June Workshop on Mgt. of Nongame Species & Ecological Communities, U. of Kentucky, Lexington, KY. (Dr. William C. McComb, Dept. of Forestry, U. of Kentucky, Lexington 40546-0073.)
- 19-22 June 54th Annual Mtg. of Cooper Ornithol. Society, Humboldt State U., Arcata, CA. (C.J. Ralph, Program Chm., Redwood Sci. Lab., USFS, 1700 Bayview Dr., Arcata, CA 95521.)
- 24-28 June 64th Annual Mtg. Am. Society of Mammalogists, Humboldt State U., Arcata, CA. (ASM Reservations, Jolly Giant Conf. Center, Arcata, CA 95521. 707/826-3451.)
- 9-13 July Wildland Shrub Symposium, **Biology of Artemisia and Chrysothamnus**, Brigham Young U., Provo, UT. To present a paper, send title & abstract by 15 April. (Dr. Robert Hales, Brigham Young U., 297 CONF, Provo, UT 84602.)
- 16-19 July 64th Annual Conf. Western Assn. of Fish & Wildlife Agencies, Empress Hotel, Victoria, B.C. (Don Robinson, Pres., B.C. Fish & Game Branch, Parliament Bldgs., Victoria, B.C., V8V 1X5.)
- 23-26 July Intl. conf., **Inventorying Forest & Other Vegetation of High Latitude & High Altitude Region**, Fairbanks, AK. (Dr. H. Gabriel, BLM, 701 C St., Box 13, Anchorage, AK 99514.)
- 29 July-
1 Aug. 39th Annual Mtg. Soil Conserv. Society of Am., **The Golden Anniversary of Soil Conservation**, Sheraton-Century Center Hotel, Oklahoma City, OK. (Richard L. Duesterhaus, Program Chm., SCSA, 7515 N.E. Ankeny Rd., Ankeny, IA 50021-9764.)
- 29 July-
1 Aug. 9th North Am. Prairie Conf., **The Prairie: Past, Present, and Future**, Moorhead, MN. (Dr. R.H. Pemble, Dept. of Biol., Moorhead State U., Moorhead, MN 56560. 218/236-2572.)
- 30 July-
3 Aug. Annual Conf. of Wildlife Disease Assn., San Diego State U., San Diego, CA. (Dr. Werner Heuschele, Research Dept., San Diego Zoo, P.O. Box 551, San Diego, CA 92112. 619/231-1515, Ext. 450 or 454.)
- 5-8 Aug. Central Mountains & Plains Sec., TWS, Annual Mtg., Kansas, the host chapter; Barton County Community Coll., Great Bend, KS. (Carroll Lange, Kansas Fish & Game, Rm. 418, St. Bank Bldg., Winfield, KS 67156.)
- 21-25 Aug. 2nd Intl. Moose Symposium, Swedish U. of Agric. Sciences, Uppsala, Sweden. (The Secretariat, 2nd Intl. Moose Symp., P.O. Box 7002, S-750 07, Uppsala, Sweden.)
- 4-8 Sept. 9th Trumpeter Swan Society Conf., W. Yellowstone, MT. (Laurence N. Gillette, Rt. 2, Box 418, Rockford, MN 55373. 612/477-4255.)
- 17-21 Sept. Spruce Budworms Research Symposium, Holiday Inn, Bangor, ME. (CANUSA Symp., Conferences & Institutes Div., U. of Maine at Orono, 126 College Ave., Orono, ME 04469.)
- 4-7 Oct. 5th North Am. Snow Goose Symposium, Quebec City, Can. (Dr. Jean Bedard, Dept. de biologie, Faculté des sciences et de genie, U. Laval, Ste-Foy, Quebec, Can. G1K 7P4.)
- 7-11 Oct. **Wildlife 2000; Modeling Habitat Relationships of Terrestrial Vertebrates** symposium, Fallen Leaf Lodge (Stanford U.'s Sierra Camp near Lake Tahoe). (Dr. Jared Verner, Program Chair, For. Sciences Lab., 2081 E. Sierra Ave., Fresno, CA 93710.)
- 2-5 Dec. 46th Midwest Fish & Wildlife Conf., **Wildlife Interests Pulling Together**, Adams Mark Hotel, Indianapolis, IN (800)325-3535. (Indiana Dept. of Nat. Resources, Midwest Conf. Committees, 607 State Office Bldg., Indianapolis, IN 46204. 317/232-4080.)

ANIMAL IMMOBILIZATION

Drug Safety & First Aid



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PROGRAMS

NO. I - GENERAL PRINCIPLES 33 Min.

- general principles related to wildlife immobilization.
- use of equipment - darts, syringes, blow-guns, rifles etc.
- safety standards for veterinarians, wildlife biologists, animal technicians etc.

NO. II - NARCOTICS 40 Min.

- use of narcotics for wildlife restraint.
- etherphine hydrochloride (M99)
- fentanyl citrate
- carfentanil
- includes slides & film footage to show effects on animals.

NO. III - CYCLOHEXAMINES 38 Min.

- cyclohexamine drugs for animal immobilization
- operator risks, safety precautions accident prevention
- phencyclidine (PCP)
- ketamine ✓
- tiletamine

NO. IV - SEDATIVES, SYNERGISTS & OTHER SUBSTANCES 34 Min.

- use of sedatives, synergists and other drugs
- neuroleptics in relation to narcotics and cyclohexamines
- relevant human safety

NO. V - HUMAN EXPOSURE TO IMMOBILIZING AGENTS 38 Min.

- problems and risks of using drugs for animal immobilization
- management of these risks

Surface Mine Meetings

- Hydrology and Sedimentology of Surface Mined Lands. Lexington, Kentucky. February 21-24, 1984. Contact: University of Kentucky, IMMR, OISTL, P.O. Box 13025, Lexington, Kentucky 40512, (606) 252-5535, extension 400. Registration Fee \$425.
- 15th Meeting, International Erosion Control Association. Denver, Colorado. February 23-24, 1984. Contact IECA, 3220 S. Juniper, Garland, Texas 75041, (408) 688-3228.
- High Altitude Revegetation Workshop. Fort Collins, Colorado. March 5-6, 1984. Contact Julie Etra, HARC, Department of Agronomy; Colorado State University; Fort Collins, Colorado 80523; (303) 491-6354 or 491-6517.
- Symposium on Surface Coal Mining and Reclamation in the Northern Great Plains. Billings, MT. March 19-21, 1984. Contact Scott Fisher, Western Tech. Ctr-OSM; 1020 15th Street, Denver, Colorado 80202; (303) 837-2451 or Frank Munshower, Reclamation Research Unit, MSU, Bozeman, MT 59717; (406) 994-4821.
- Establishing Forests on Surface Mines in the Eastern United States, Cumberland Gap, Tennessee: April 12-13, 1984. Contact: University of Kentucky, IMMR, OISTL, P.O. Box 13025, Lexington, Kentucky 40512, (606) 252-5535, extension 400. Registration Fee \$150.
- Better Reclamation with Trees. Owensboro, Kentucky. June 7-8, 1984. Theme: Forest Development and Wildlife Habitat. Abstracts due February 1, manuscript May 4, 1984. Contact: Danny L. Koon, Madisonville Community College, University Drive, Madisonville, Kentucky 42431, (502) 821-2250, extension 158. Registration Fee \$45.
- Cyanide and the Environment. Tucson, Arizona. December 4-6, 1984. Contact: Department of Civil Engineering and Engineering Mechanics. The University of Arizona. Tucson, Arizona 85721.

Available Publications

1. Hydrology of Area 15, Eastern Coal Province, Kentucky and Tennessee.
David W. Leist, Ferdinond Quinones, Donald S. Mull and Mary Young. 81 pages.

Contact: U.S. Geological Survey, Room 572, Federal Building, Louisville, Kentucky 40202 (USA) for open file report 81-809.

2. Water Resources Investigations in New York--1981-82. 74 pages.

Contact: U.S. Geological Survey, Post Office Box 1350, Albany, New York 12201 for open file report 81-1190.

3. Hydrology of Area 14, Eastern Coal Province, Kentucky by Ferdinand Quinones, Donald S. Mull, Karen York and Victoria Kendall. 82 pages.

Contact: U.S. Geological Survey, Room 572, Federal Building.
Louisville, Kentucky 40202 for open file report 81-137.

- 4a. Groundwater Hydraulics and Hydrochemical Facies in Eocene Aquifers of the East Texas Basin by G. E. Fogg and C. W. Kreitler. RI-127.
75 pages. (Document discusses development of lignite deposits).

- 4b. Environmental Geology of the Yegua--Jackson Lignite Belt, Southwest Texas by M. L. W. Jackson and L. E. Garner. RI-129. 36 pages.

Remit \$4.40 for publication RI 127 or RI 129 (respectively) to Bureau of Economic Geology, University of Texas at Austin, University Station Box X, Austin, Texas 78712.

5. Hydrology of Area 24, Eastern Coal Province, Alabama and Georgia by Joe R. Harkins and others. 81 pages.

Contact: U.S. Geological Survey, Post Office Box V, University, Alabama 35486 (USA) for open file report 81-1113.

6. Index of Current Water Resources Activities in West Virginia 1983 Fiscal Year. 44 pages.

Contact: U.S. Geological Survey, 3416 Federal Building, Charleston, West Virginia 25301 (USA).

7. Stream Water Quality of Two Small Watersheds as affected by Surface Coal Mining by W. A. Dick, J. V. Bonta, F. Haghiri, J. R. Page. J. Environ. Qual. 12(3): 351-358.

Contact: W. A. Dick, Ohio State University, Ohio Agric. Res. and Div. Cent., Wooster, Ohio 44691 (USA).

8. Borealis Roche Bay Magnetite Project in Northern Canada in Skillings Mining Review. December 10, 1983 pages 6-11.

This project in the Northwest Territories of Canada had an Initial Environmental Evaluation (IEE) submitted June 1981. Additional information was requested and the addenda to the IEE was completed December 1982.



SOUTH DAKOTA STATE UNIVERSITY
Box 507
Brookings, South Dakota, USA 57007-0199

RSI REMOTE SENSING INSTITUTE
(605) 688-4184
TWX 910-668-6894
Answer Back RSI-SDSU-BKNG

1984 SHORT COURSES AT THE REMOTE SENSING INSTITUTE

Our 1983 short courses on remote sensing and its applications have been a big success. Listed below are all the courses to be offered at RSI's location in Brookings, South Dakota in 1984 and their schedules.

1. Basic Remote Sensing and Image Interpretation
(Offered twice: March 5-9 and June 11-15)
2. Remote Sensing in Land Use Studies
(Offered twice: March 12-16 and October 1-5)
3. Land Use Applications for a Geographic Information System (GIS)
(Offered twice: March 19-23 and October 9-12)
4. Remote Sensing, A Tool for Soil Surveys and Resource Inventories
(Offered three times: February 6-10, April 9-13 and October 29-November 2)
5. Soil Survey and Resource Inventory Applications of a GIS
(Offered twice: April 16-20 and November 5-9)
6. Remote Sensing in Fish and Wildlife Management
(Offered twice: April 9-13 and November 26-30)
7. Remote Sensing Tools in Cultural Resource Surveys and Management
(Offered twice: March 19-23 and November 13-16)
8. Remote Sensing: An Effective Tool in Geology and Hydrogeology
(Offered once: September 17-27, a two-week course)
9. Remote Sensing for Vegetative Land Cover and Plant Stress
(Offered twice: March 26-30 and October 15-19)
10. Use of a GIS for Vegetative Land Cover Analysis
(Offered twice: April 2-6 and October 22-26)
11. Geographic Information Systems in Remote Sensing
(Offered three times: January 30-February 3, May 29-June 1 and December 3-7)
12. Digital Image Processing in Remote Sensing
(Offered twice: June 4-8 and December 10-14)
13. The Photographic Process for Image Interpreters
(Offered once: October 22-26)
14. Reproduction of Colors and Tones in Remotely Sensed Imagery
(Offered once: October 9-12)
15. Quality Control in the Photographic Production of Remotely Sensed Imagery
(Offered twice: February 21-24 and October 15-19)
16. Photographic Tone Reproduction in Remotely Sensed Imagery
(Offered once: February 6-10)
17. Light and Color Theory in the Photographic Production of Remotely Sensed Imagery
(Offered once: February 13-17)
18. Basic Remote Sensing and Image Interpretation in Natural Resource Studies: A two-week course emphasizing international aspects and applications of remote sensing.
(Offered twice: December 27, 1983-January 6, 1984 and May 29-June 8, 1984)