

5th World Wilderness Congress
Tromsø, Norway
Symposium on International Wilderness
Allocation, Management and Research
September 26 - October 2, 1993

Co-Conveners: **John C. Hendee**, Dean, College of Forestry, Wildlife and Range Sciences, Univ. of Idaho, tel. (208) 885-6442, fax (208) 885-6226.
Vance Martin, President, International Wilderness Leadership (WILD) Foundation, tel. (303) 498-0303, Fax (303) 498-0403

Executive facilitators for symposium summary and recommendations:
Debbie Carr, Staff Assistant, Wilderness Research, U.S. Forest Service
open _____

Session 1: Monday, September 27, 2:00-6:00 p.m. - 12 papers, 20 minutes each

Theme: International Wilderness Allocation and Management

Session Moderator: Jerry Stokes, National Coordinator for Wilderness Planning, USDA Forest Service, Washington, D.C.

Session Facilitator: Dan Williams, Assistant Professor of Forest Recreation, Virginia Tech University, Blacksburg, VA

1. Vold, Terje. The Wilderness Situation in British Columbia Canada. (abstract rec'd)
Terje Vold, Recreation Branch, Ministry of Forests, Victoria, BC, Canada.
- FS 2. Laverty, Lyle. Organizational Leadership and Policy for the U.S. Forest Service Wilderness Program.
Lyle Laverty is the Director of Recreation and Wilderness for the U.S. Forest Service,
3. Eidsvik, Harold. Wilderness Values in World Heritage Areas.
Harold Eidsvik, former chairman, IUCN Commission on Parks and Protected Areas, and currently working with the World Heritage Commission, based in Paris.
- FS 4. Kershner, Jeffrey L. The Value of Wilderness as Refugia for Native Salmonid Fishes in the Western United States. (abstract rec'd)
Jeffrey L. Kershner, National Fisheries Ecologist, USDA Forest Service, Wildlife, Fisheries and Botany Staff, Department of Fisheries and Wildlife, Utah State University, Logan, Utah, U.S.A.

5. Lesslie, Rob. The National Wilderness Inventory Assessment and Monitoring in Australia. (abstract rec'd)

Rob Lesslie is with the Department of Geography, University of Adelaide in South Australia.

6. Kuznetsov, Mikhail and Alexander Khropov. Land Regionalization and Assessment in Wilderness Areas of the Russia Arctic. A case study of the Archipelago Novaya Zemla. (abstract rec'd)

Mikhail Kuznetsov and Alexander Khropov are with the Institute of Geography, Academia Sciences in Moscow, Russia.

7. Zunino, Franco. Building a Wilderness Program for Italy. (abstract rec'd)

Franco Zunino is Segreteria Genetale, Wilderness Associazione Italiana.

- F&W 8. Olsen, Dave. Management of America's Largest Wilderness: the Arctic National Wildlife Refuge in Alaska. (abstract rec'd)

Dave Olsen, is the Assistant Director for the Refuges and Wildlife program, U.S. Fish and Wildlife Service, located in Washington, D.C., U.S.A.

- NPS 9. Taylor, Dale L. and Paul Haertel. A Circumpolar Biosphere Reserve Network for Monitoring Change. (abstract rec'd)

Dale L. Taylor and Paul Haertel, Natural Resources and Science Division, and Associate Regional Director for Resource Services, Anchorage Regional Office, National Park Service, Anchorage, Alaska, U.S.A.

10. Elliott, Wayne and Steele, Nick. Community Management of Natural Resources in Wildland Areas: The Kwazulu Experience. (abstract rec'd)

Wayne Elliott is staff and Nick Steele is Director, Kwazulu Natural Resources Bureau, Kwazululand, Republic of South Africa.

11. Kennett, Chris. Planning the Allocation of Protected Areas in British Columbia. (abstract rec'd)

Chris Kennett is with the Northern Region, British Columbia Parks, Canada.

12. Tynys, Tapio. Management and Planning of the Wilderness Areas in Finland. (abstract rec'd)

Tapio Tynys represents the Northern Lapland Wilderness Management Area which is a branch in the Finnish Forest and Park Service, U.S.A.

Session 2: Monday, September 27, 7:00-9:00 p.m. - 6 papers (13-18); 20 minutes each

Theme: Wilderness Management and Monitoring in the U.S. National Wilderness Preservation System

Session Moderator: Keith Corrigan, Wilderness Program Leader, U.S. Bureau of Land Management

Session Facilitator: open

- FS 13. Sater, Susan. Wilderness in the Landscape: A Case Study Considering: Fire Ecology, Air Quality, and People. (abstract rec'd)

Susan Sater is a Wilderness Specialist in the Pacific Northwest Regional Office, U.S. Forest Service, Portland, Oregon, U.S.A.

- FS 14. Stokes, Gerald L. and Edwin E. Krumpe. The Education of the Limits of Acceptable Change Planning Process in USDA Forest Service Wilderness Management. (abstract rec'd)

Gerald Stokes is National Program Leader for Wilderness Planning of the USDA Forest Service and Edwin Krumpe Associate Professor of Resource Recreation and Tourism at the University of Idaho, U.S.A.

- FS 15. Landres, Peter and David Cole. A Wilderness Monitoring Agenda for the National Wilderness Preservation System. (abstract rec'd)

Peter Landres is biological research scientist and David Cole is Unit Leader, U.S. Forest Service Wilderness Management Research Unit, Missoula, Montana, U.S.A.

- FS 16. VanZee, Bruce and Henry Markarka. Subsistence Activities in Wilderness in Alaska.

Bruce VanZee, Forest Supervisor, Chugach National Forest; Henry Markarka, Eyak Elder, Alaska, U.S.A.

- NPS 17. Davis, Gary E., and Alan Schmierer. The "Harvest Refugia" Concept in Managing Sustainable Subsistence Uses in Wilderness. (abstract rec'd)

Gary Davis is Research Marine Biologist, Channel Island National Park in Ventura, California; Alan Schmierer is a Resource Management Specialist, Western Regional Office of the National Park Service, San Francisco, CA, U.S.A.

18.

Session 3: Tuesday, September 28, 2:00-5:00 p.m. - 9 papers (19-27)

Theme: Use of Wilderness for Personal Growth, Therapy and Education

Session Moderator: Joe Roggenbuck, Professor of Forest Recreation, Virginia Polytechnic & State University

Session Facilitator: open

19. Hartig, Terry. Wilderness as a Restorative Environment.

Terry Hartig is associated with the School of Social Ecology at the University of California at Irvine, California, U.S.A.

20. Hammitt, Bill. The Psychology and Functions of Wilderness Solitude. (abstract rec'd)

Bill Hammitt, Professor of Parks, Recreation and Tourism Management at Clemson University, U.S.A.

21. Hollenhorst, S.J., A.E. Watson and E. Frank. The Capacity to be Alone: Wilderness Solitude and the Tender Growth of the Self (abstract rec'd)

S. J. Hollenhorst and E. Frank are associated with West Virginia University, Division of Forestry. A. E. Watson is a research social scientist with the U.S. Forest Service at the Wilderness Management Unit in Missoula, Montana, U.S.A.

22. Williams, Daniel R., Lea Scherl and Michael E. Patterson. Identity and the experience of wilderness: Analysis of experience narratives from Australia and the U.S. (abstract rec'd)

Daniel R. Williams and Michael E. Patterson are assistant professors in the Department of Forestry; Virginia Polytechnic Institute and State University and Lea Scherl is with the Great Barrier Reef Marine Park Authority, Queensland, Australia.

23. Tangen-Foster, James W. and Tangen-Foster, Laurel. Personal Growth By Learning Oriented Versus Performance-Oriented Participants in a Pacific Northwest Outward Bound Program, U.S.A. (abstract rec'd)

Dr. James W. Tangen-Foster, Outdoor Programs, University of Idaho and Ms. Laurel J. Tangen-Foster is Ph.D. candidate in the College of Education at the University of Idaho. They own and operate Adventure Bound, an outdoor experience program for youth K-12 in Moscow, Idaho, U.S.A.

24. Pitstick, Randall, John C. Hendee and Ivy Lanthier. The Wilderness Discovery Program for Poverty Youth in the U.S. Forest Service--Curlew Job Corps Conservation Center on the Colville National Forest.

Randall Pitstick is a doctoral student and John Hendee is Dean, College of Forestry Wildlife and Range Sciences, University of Idaho, Moscow, Idaho, U.S.A. Ivy Lanthier is Acting Director, Curlew Job Corps Conservation Center, Colville National Forest, Curlew, Washington, U.S.A.

25. Greenway, Robert. Insights from Studying Transformative Wilderness Experiences. (abstract rec'd)

Robert Greenway is Professor of Psychology, Sonoma State University, Sonoma, California, U.S.A. (Now retired, Robert Greenway lives in Port Townsend, Washington).

26. Legg, M.H. and Rebori, M.K. An Holistic Approach for Turning Knowledge into Action in Wilderness Management. (abstract rec'd)

Mike Legg is professor and M. K. Rebori is associated with the College of Forestry at Stephen F. Austin State University, Nacogdoches, Texas, U.S.A.

- NPS 27. Henry, Wes, Robert Chandler, and Rich Ernenwein. Protecting Natural Quiet in Wilderness. (abstract rec'd)

Dr. Wes Henry is the National Wilderness Coordinator for the National Park Service in Washington, D.C. Robert Chandler is Superintendent for the Grand Canyon National Park in Arizona. Rick Ernenwein, is on the western planning team, National Park Service, Denver, Colorado, U.S.A.

Session 4: Tuesday, September 28, 7:00-9:00 p.m. - 6 papers (28-33), 20 minutes each

Theme: Wilderness Education, Values, and Ethics

Session Moderator: Joe Passineau, Associate Professor of Environmental Education, University of Wisconsin at Stevens Point

Session Facilitator: open

28. Heywood, John L. Wilderness Civility: Cooperation and Coordination in the Wilderness. (abstract rec'd)

John L. Heywood is with the School of Natural Resources at Ohio State University in Columbus, Ohio, U.S.A.

- BLM 29. Porter, David and Keith Corrigan. The U.S. National Wilderness Management Correspondence Course. (abstract rec'd)

David Porter is employed by the U.S. Bureau of Land Management (BLM) as director of the National Wilderness Management Correspondence Course in cooperation with Colorado State University and the U.S. Forest Service, and Keith Corrigan is Wilderness Program Leader for the BLM in Washington, DC., U.S.A.

30. Roggenbuck, J.S., J. Passineau, and C.J. Stubbs. Wilderness Education in the U.S.A.: Do we teach low impact knowledge, behavior, or a wilderness ethic? (abstract rec'd)

Joseph W. Roggenbuck is Associate Professor of Forest Recreation, Virginia Tech., Blacksburg, VA; Joseph Passineau is Associate Professor of Natural Resources and Director of the Central Wisconsin Environmental Station, University of Wisconsin-Stevens Point; and Christopher J. Stubbs is Planning and Environmental Coordinator, Bureau of Land Management, Battle Mountain, Nevada, U.S.A.

31. McIntyre, Norman and Ms. Jackie Kiewa. Women and Outdoor Adventure Pursuits. (abstract revision format needed)

Norman McIntyre and Ms. Jackie Kiewa are with the School of Leisure Studies, Griffith University, Nathan, Queensland, Australia.

32. Proescholdt, K.M. The Quetico-Superior Ecosystem: An International Wilderness Complex and Issues of Native People's Use. (abstract rec'd)

K. M. Proescholdt represents Friends of the Boundary Waters Wilderness in Minneapolis, Minnesota, U.S.A.

33. Dennis, John G. The Role of Wilderness in Maintaining Biological Diversity. (abstract rec'd)

John G. Dennis is from the Wildlife and Vegetation Division, U.S. National Park Service, Washington, D.C., U.S.A.

Session 5: Wednesday, September 29, 2:00-5:00 p.m. - 9 papers (34-42), 20 minutes each

Theme: Wilderness Management

Session Moderator: Wes Henry, Wilderness Coordinator, U.S. National Park Service

Session Facilitator: Tom Pascarello, Chair, Department of Political Science, State University of New York, Cortland, New York, U.S.A.

NPS 34. Tingey, Ralph. Challenges in Managing Arctic Wilderness. (abstract rec'd)

Ralph Tingey, Superintendent, Lake Clark National Park & Preserve, Anchorage, Alaska, U.S.A.

NPS 35. Mosby, Jack. Wilderness River Management in Alaska U.S.A. (abstract rec'd)

Jack Mosby, Program Manager, Rivers, Trails and Conservation Assistance, Alaska Regional Office, National Park Service, Anchorage, Alaska, U.S.A.

BLM 36. Corrigan, Keith H. The U.S. Bureau of Land Management Wilderness Inventory and Review Program. (abstract rec'd)

Keith H. Corrigan is the Chief, Branch of Wilderness Resources, Bureau of Land Management, Washington, D.C., U.S.A.

37. Buerger, R., T. Pasquarello and G. Randorf. Wilderness and the Working Landscape: A Case Study of the Adirondack Park in New York State, USA. (abstract rec'd)

Robert B. Buerger is an Associate Professor at the University of North Carolina at Wilmington, North Carolina; T. Pasquarello is Chair, Department of Political Science, State University of New York at Cortland; and G. Randorf is a member of the Adirondack Council.

38. Dawson, Chad. Adirondack Wilderness Planning Strategy for Use and Preservation. (abstract rec'd)

Chad Dawson is Associate Professor, College of Environmental Science & Forestry, State University of New York (SUNY), Syracuse, New York, U.S.A.

BLM 39. Overbaugh, Bill and Angela W. Berger. Integrating Management of Ecological Diversity with Cultural Diversity in Wilderness. (abstract rec'd)

Bill Overbaugh is the State Office Recreation Coordinator for the Bureau of Land Management, Santa Fe, New Mexico and Angela Berger is a Consultant with the firm of Dames and Moore in Albuquerque, New Mexico.

- BLM 40. Finstick, Eric, Mark Young and Claire Payne. Wilderness Management Planning: Contradictory or Complementary? (abstract rec'd)

Eric Finstick is the State Office Wilderness Coordinator for the Bureau of Land Management, Denver, Colorado and Mark Young and Claire Payne are Outdoor Recreation Planners in the Southeastern Forest Experiment Station of the U.S. Forest Service stationed in Athens, Georgia.

- NPS 41. Vequist, Gary. Cruise Ships at Alaska's Wilderness Doorstep. (abstract rec'd)

Gary Vequist, Natural Resources and Science Division, Anchorage Regional Office, National Park Service, Anchorage, Alaska, U.S.A.

42. McCloskey, Maxine. Protected Areas on the High Seas, and the Case for Marine Wilderness. (revised abstract format needed)

Maxine McCloskey is with Defenders of Wilderness. Washington, D.C., U.S.A.

Session 6: Wednesday, September 29, 7:00 - 9:00 p.m. - 6 papers (43-48); 20 minutes each. Sessions followed by 20 minutes discussion to develop recommendations to the Congress Committee

Theme: Wilderness Research and Education

Session Moderator: Alan Ewert, Program Leader for Wilderness, Recreation and Cultural Research, USDA Forest Service

Session Facilitator: open

- FS 43. Ewert, A. and D. Carr. The Aldo Leopold Wilderness Research Institute: A Model for Wilderness Science in the 21st Century.

Alan Ewert is Branch Chief and Debbie Carr is wilderness research staff, Recreation, Wilderness and Urban Forestry Research, USDA Forest Service, Washington, D.C., U.S.A.

- BLM 44. Carroll, Crista S. and Don Hinrichsen. Monitoring Ecological Responses in Wilderness Using Geographic Technologies. (abstract rec'd)

Crista Carroll is a Geographer in the Albuquerque, New Mexico District Office of the Bureau of Land Management and Don Hinrichsen is a Program Analyst in the Headquarters Office of the Bureau of Land Management in Washington, D.C., U.S.A.

- NPS 45. Gal, Robert. Prehistory and Wilderness: Lessons and Opportunities in the Noatak National Preserve, Northwest Alaska, U.S.A. (abstract rec'd)

Robert Gal, Archaeologist, Northwest Alaska Areas, National Park Service, Kotzebue, Alaska, U.S.A.

46. Carr, D.S. and J. C. Hendee. An Assessment of Current Research and Future Research Needs in the National Wilderness Preservation System (abstract rec'd)

Debbie Carr is on the USDA Forest Service FIERR staff and John Hendee is Dean of the College of Forestry, Wildlife and Range Sciences at the University of Idaho, Moscow, Idaho, U.S.A.

47. Sippola, Anna-Liisa, Jukka Jokimäki, Ville Hallikainen, and Pentti Sepponen. The Finnish Wilderness Research Programme. (abstract rec'd)

Anna-Liisa Sippola and Jukka Jokimäki are from the Arctic Centre, University of Lapland; Ville Hallikainen and Pentti Sepponen are from the Finnish Forest Research Institute, all in Rovaniemi, Finland.

BLM 48. Riebau, A.R., F.M. Smith, M.L. Sestak, and L.R. Smith. An Ecological Network for Wilderness Global Change Assessment in the Western United States. (abstract rec'd)

A.R. Riebau, Branch Chief, Environmental Science and Technology Center, U.S. Bureau of Land Management, Ft. Collins, Colorado; F.M. Smith is Professor of Water Resources, Colorado State University; M.L. Sestak is a Staff Specialist, BLM Environmental Science and Technology Center, Colorado, U.S.A.

Discussion of recommendations from the symposium to the congress committee led by symposium Co-conveners John Hendee and Vance Martin. Symposium facilitators are urged, and all delegates are invited to participate.

DISPLAYS - EXHIBITS

BLM Wilderness Program - Exhibit (pamphlets, brochures, etc.)

Boise Idaho - Invitation to Host the 6th World Wilderness Congress - in cooperation with University of Idaho, Wilderness Research Center; Society of American Foresters-Wilderness Management Working Group - Exhibit

University of Idaho - Taylor Ranch Wilderness Field Station - Exhibit

U.S. Forest Service Wilderness Program - Exhibit

U.S. Interagency Wilderness Management Correspondence Course - Exhibit

World Heritage Foundation - Exhibit

POSTERS

BLM Wilderness Inventory and Review

Intermountain Wilderness Ecosystem Network for Global Change Assessment

Buerger, R., C. Dawson, T. Pasquarello, and G. Randorf. Life in the Adirondack Park (New York State, USA).

Robert Buerger is from the University of North Carolina at Wilmington, North Carolina; C. Dawson is from the State University of New York College of Environmental Science and Forestry; T. Pasquarello is from the State University of New York College at Cortland; and G. Randorf is from the Adirondack Council.

Chavez, Deborah. Wilderness Use in an Urban Proximate National Forest in Southern California, U.S.A.

Meade, Joe and Greg Lais. Semi Primitive, Primitive, and Wilderness Settings and the Americans with Disabilities Act.

Murray, M. P., P. Morgan and S.C. Bunting. Whitebark Pine, Fire Suppression, and Small Wilderness Areas.

M. P. Murray, P. Morgan, and S. C. Bunting, College of Forestry, Wildlife and Range Sciences, University of Idaho, Moscow, Idaho, U.S.A.

Ohenoja, Esteri and Research on Fungal Flora and Yield in the Wilderness Area in Noreastern Finnish Lapland.

Sippola, Anna-Liisa, Jukka Jokimäki, Ville Hallikainen, and Pentti Sepponen. The Finnish Wilderness Research Programme.

Anna-Liisa Sippola and Jukka Jokimäki are from the Arctic Centre, University of Lapland, Rovaniemi, Finland; Ville Hallikainen and Pentti Sepponen are from the Finnish Forest Research Institute, Rovaniemi Research Station, Rovaniemi, Finland.

Yeo, Jeff. The University of Idaho, Taylor Ranch Wilderness Field Station in the Frank Church-River of No Return Wilderness.

Dr. Jeff Yeo is Scientist/Manager for the Taylor Ranch Wilderness Field Station, University of Idaho Wilderness Research Center, Moscow, Idaho, U.S.A.

PAPERS TO BE PUBLISHED BUT NOT PRESENTED

Glass, Ronald J. and Robert M. Muth. Wilderness and Subsistence Uses and Wilderness in Alaska: Conflicts and Complimentarities. (abstract rec'd)

Ronald Glass is Research Economist of the USDA Forest Service Northeastern Forest Experiment Station and Robert Muth is an assistant professor of forest policy, Department of Forestry and Wildlife Management at the University of Massachusetts, Amherst, Mass., U.S.A.

Goetz, Roland. Integrated Conservation and Urban Wilderness Management in Shongweni Resources Reserve, South Africa.

Roland Goetz is the director of the Shongweni Resource Reserve (SRR), Durban, South Africa. SRR is an innovative private sector and non-profit cooperative initiative integrating natural resource management and tribal cultures in a peri-urban environment.