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The Public Lands During the Remainder of the 20th Century: Planning, Law, and Policy in the Federal Land Agencies

Monday, June 8, 1987

8:45 Welcome and Introduction, Dean Betsy Levin

OVERVIEW

9:00 Planning as a Major Tool of Public Land Management
Prof. John D. Leshy, Arizona State University School of Law, Tempe

During the 1970s federal land and resource planning was vastly expanded, and has now become probably the single most dominant activity of federal land management agencies. This presentation explores the reasons behind this new emphasis, discusses the general requirements of the major planning statutes, and attempts a mid-course assessment of the usefulness of the planning process to federal land management.

10:15 Break

10:35 Progress and Problems in National Forest Planning
Jeff M. Sirmon, Deputy Chief, Programs & Legislation, USDA, Forest Service, Washington, DC

The speaker will give a status report on strategic (RPA) and National Forest planning. He will describe the contentious issues currently under consideration and some of the obstacles to their resolution.

11:10 Public Land Management: Planning, Problems, and Opportunities
David C. Williams, Chief of Planning, Bureau of Land Management, Washington, DC

This talk will focus on the melding of FLPMA and NEPA, public involvement in planning, consistency with state and local plans (including the unique governor's review) and the totally internal process for protesting plans. It discusses coordination with other federal land management agencies and highlights contrasts with land use planning in the Forest Service.

11:45 Questions and Discussion

12:00 Lunch

Public Land Planning: Will the Current System Endure?
Prof. Charles F. Wilkinson, University of Colorado School of Law, Boulder

THE TIMBER RESOURCE

1:45 Setting the Allowable Timber Cut
Prof. A. Allen Dyer, Department of Forest and Wood Sciences, Colorado State University, Ft. Collins.

This presentation describes Forest Service procedures for determining timber harvest levels nationally, regionally, and locally. Emphasis is placed on forest decisions regarding minimum resource requirements and land suitability, and how decisions made at the national and regional level affect local decisions.

2:30 Standards for Judicial Review of Forest Plans
Wells Burgess, Department of Justice, Washington, DC

Whether NFMA provides standards for stricter judicial oversight of agency planning or perpetuates traditional judicial deference to agency discretion will be critical to the future of forest planning. This presentation describes developments in this area.
The Gardener's Ethic and Other Lessons From Forest Planning
Peter M. Emerson, Vice President, Resource Planning & Economics, The Wilderness Society, Washington, DC

Significant controversy surrounds the long-term management plans now being promulgated for each national forest by the U.S. Forest Service. An assessment of forest planning shows that highest priority is given to increased access, vegetative manipulation, and bringing forestlands under active "management." Conservationist goals will be compared to those of the "Gardener's Ethic" using examples from the national forests of the Greater Yellowstone Ecosystem.

Timber Industry Concerns in Forest Planning
James Riley, Intermountain Forest Industry Association, Coeur d'Alene, Idaho

A representative of the timber industry will discuss issues being raised by the planning process of concern to the industry.

Tuesday, June 9, 1987

THE RANGE RESOURCE

Livestock Grazing on Public Lands: Procedures and Issues
Prof. E. T. Bartlett, Department of Range Sciences, Colorado State University, Ft. Collins

Livestock grazing traditionally has occurred on public lands in the west. Procedures that determine the grazing of livestock are based on ecological principles and the character of rangelands. Current issues include grazing fees, riparian area management, wildlife management, and other multiple uses.

Riparian Management: Back to Basics
Wayne Elmore, Bureau of Land Management, Prineville, Oregon

Riparian management and condition is a major resource issue in the U.S. This presentation will focus on the functions and benefits of healthy riparian systems such as aquifer recharge, water storage, improved stream flows, soil stability, wildlife habitat and others, emphasizing case histories, management, and research.

THE MINERAL RESOURCE

Guy R. Martin, Perkins Coie, Washington, DC

Congress will be asked this year to consider the future of the Arctic National Wildlife Refuge. Alternatives to its current status as a national refuge include wilderness designation and opening the refuge to oil and gas exploration. The issue will be played on a national stage, and its resolution, which may take years, should provide important clues to the future of federal resource policy.
Changes in Altering Land Classifications and BLM Land Use Planning: the National Wildlife Federation v. Burford Case
Constance E. Brooks, Vice President and General Counsel, Mountain States Legal Foundation, Denver

This discussion will address the current status of BLM Resource Management Plans in the context of land classification review and the related problem of withdrawal revocation and review. Implicit in the question of land classification review is the extent to which Congress intended to affect all present and proposed land activities pending revision of land management plans.

The Oil Shale Saga: Where Do We Stand?
Donald L. Morgan, Cleary, Gottlieb, Steen & Hamilton, Washington, DC

This presentation reviews the history of the disputed oil shale claims, the recent TOSCO decision, the subsequent settlement, and its aftermath.

THE WILDLIFE RESOURCE

Recovering the Wolf in the Northern Rocky Mountains
Hank Fischer, Northern Rockies Representative, Defenders of Wildlife, Missoula

Wolf recovery in the Northern Rockies is not so much a biological as a political problem, particularly as it impacts the livestock industry. Using available data on wolf/livestock conflicts, the speaker will construct a likely scenario for wolf recovery and will suggest ways that possible adverse impacts could be modified.

Grizzly Bears, Politics and the Language of Efficiency
Don Snow, Northern Lights Research & Education Institute, Missoula

Preserving the grizzly means protecting or restoring its habitat, which today is almost entirely confined to public lands. This presentation examines the social and political will necessary to the task of keeping bears in reality as well as myth in the Lower 48.

Wolves, Grizzlies, and the Public Lands: Panel
Hank Fischer, Defenders of Wildlife, Missoula
Lorin Hicks, Wildlife Biologist, Plum Creek Timber Co., Seattle
Patrick Y. O'Brien, Ph.D., Coordinator of Ecological Services and Conservation, Chevron Corp., San Francisco
Don Snow, Northern Lights Research & Education Institute, Missoula
John L. Weaver, National Grizzly Bear Habitat Coordinator, U.S. Forest Service, Missoula

Repositioning Arizona Lands
Dean Bibles, State Director, Bureau of Land Management, Phoenix

Arizona BLM has had an active state and private land exchange program over the last three years. The presentation will describe the procedures and positive impacts brought about by the acquisition of 700,000 acres and the transfer of 550,000 acres.
THE RECREATION RESOURCE

9:15 Ski Development in National Forests
Harris D. Sherman, Arnold & Porter, Denver

This presentation discusses various issues associated with development and expansion of downhill ski areas on national forest system land. The issues to be addressed include wildlife impacts, minimum streamflows, requirements under NEPA, the use of land exchanges and land withdrawals, and the use of mitigation agreements in resolving certain of these issues.

9:45 Carrying Capacity in the National Parks
Denis P. Galvin, Deputy Director, National Park Service, Washington, DC

This presentation discusses efforts under way to address problems associated with crowding in the national parks.

10:15 Break

THE PRESERVATION RESOURCE

10:35 BLM Land Planning and Consistency Obligations to Provide for Protection of Natural Values on Adjacent Protected Lands
Prof. William J. Lockhart, University of Utah College of Law, Salt Lake City

This presentation will analyze BLM's obligations to assure that activities on BLM lands do not materially impair the protected values of adjacent national park, wilderness or other protected lands. Analysis will focus particularly on the obligations arising out of BLM's duty to identify, designate and protect "areas of critical concern," and its obligation to assure consistency with protective management policies or programs applicable to those protected lands.

11:15 Wilderness Protection on Forest Service Lands: Badger-Two Medicine
Arnold W. Bolle, Retired Dean, School of Forestry, University of Montana, Vice Chair, The Wilderness Society, Missoula

The Badger-Two Medicine region of Montana is being claimed for many competing uses, including timber development, oil and gas leasing, endangered species protection, and native American religious practice. This conflict and other issues have deadlocked wilderness designation in Montana.

11:55 Lunch

THE WATER RESOURCE

1:30 Watershed Management and Water Quality Protection
Thomas E. Wilson, Chief, Office of Water Planning, EPA - Region 10, Seattle

This presentation emphasizes that actual compliance with state water quality standards is often best indicated by the health of the resident fishery, and reviews the management implications of this approach.

2:15 Integrating Private Water Development Activities into Federal Land and Resource Planning and Management
James F. Engelking, Saunders, Snyder, Ross & Dickson, Denver

Federal land and resource management planning involves new public constraints on private use of water resources. The speaker will use examples of existing and planned water facilities and BLM/USFS plans to describe typical access and land occupancy issues. Pre- and post-FLPMA rights-of-way will be compared.

3:15 Adjourn
A. ALLEN DYER (B.S. Forestry, University of California, Berkeley; M.S. Forest Economics, Ph.D. Economics, Utah State University) is currently professor and Head of the Department of Forest and Wood Sciences at Colorado State University. He conducts research in the areas of land use planning with particular emphasis on the public lands, non-market valuation, fire economics, information management, and environmental impacts. His research has included work with the Forest Service, U.S.D.A., Bureau of Indian Affairs, Bureau of Land Management and the Park Service.

LAWRENCE J. MacDONNELL (B.A. University of Michigan, 1966; J.D. University of Denver College of Law, 1972; and Ph.D. Colorado School of Mines, 1974) became Director of the Natural Resources Law Center in November 1983. Prior to that he was a research economist at the Denver Research Institute and Adjunct Professor at the Graduate School of Business and Public Management at the University of Denver, 1980-83. He has worked as Assistant Professor in the Dept. of Mineral Economics at the Colorado School of Mines, as a Special Consultant to the Interior and Insular Affairs Committee of the U.S. House of Representatives, and as an instructor and course director for the Colorado Outward Bound School. He edited the recent Natural Resources Law Center publication, Tradition, Innovation, and Conflict: Perspectives on Colorado Water Law (1987). He is a member of the Colorado Bar Association and the Association of Environmental and Resource Economists.
CHARLES F. WILKINSON (B.A. Denison University; LL.B. Stanford University) is joining the law faculty at the University of Colorado in June 1987. He was formerly Professor of Law at the Oregon Law School and has visited at the Michigan and Minnesota Law Schools. He has written numerous books and articles on western resources law and on Indian law. Co-author of the standard text on public land law, Federal Public Land and Resources Law (2d ed. 1987) (with Coggins), he has specialized in law and policy relating to the Forest Service and is the author of Land and Resource Planning in the National Forests, 64 Ore. L. Rev. 1 (1985) (with Anderson); The Forest Service: A Call for a Return to First Principles, 5 Pub. Land L. Rev. 1 (1984); The Field of Public Land Law: Some Connecting Threads and Future Directions, 1 Pub. Land L. Rev. 1 (1980).

FACULTY

E. T. BARTLETT (Ph.D. University of Arizona in Range Management, 1974) was raised in southern and central New Mexico, and educated in New Mexico, Colorado, Utah, and Arizona. He has been at Colorado State University in the Department of Range Science since 1971. His research and teaching interests have focused on range and natural resource planning, the use of systems analysis to resolve resource problems, and range economics. He has recently completed several projects concerning grazing and range values. He is the author or co-author of over 70 journal articles and technical reports. He is currently completing a sabbatical in the Department of Forest and Resource Management, University of California, Berkeley.

D. DEAN BIBLES (B.S. in Range Management, Texas A & M University, '57) joined the Bureau of Land Management in 1957 and held a variety of positions within the BLM before becoming Arizona State Director in 1982. Most recently he served as Assistant Director for Land Resources at BLM Headquarters in Washington, DC, responsible for lands, rights-of-way, recreation programs, cultural resources, wilderness inventory, and the BLM's Alaska program (1980-82). Formerly he had been District Manager in areas of California, Montana, and Idaho. In 1986 he received the Distinguished Service Award from the Secretary of the Interior, and in 1985 he was named the Arizona Governor's Conservationist of the Year.
ARNOLD W. BOLLE (B.A. '34 Northwestern College, Wisconsin; B.S. '37, University of Montana; M.P.A. '55, Dr. P.A. '60, Harvard University) was on the faculty of the University of Montana from 1955-78 in various positions, including 11 years as Dean of Forestry and one as Academic Vice President. Since July 1978 he has been Dean and Professor Emeritus of the University of Montana School of Forestry. From 1937-54 he held various positions with USDA Soil Conservation Service in range management, forestry, wildlife, and watershed and soil management. His memberships include the Governing Council of The Wilderness Society, the Advisory Committee of The Trust for Public Land, the Advisory Committee of the Northwest Power Planning Council, and the Great Bear Foundation. He is Chair of the Advisory Committee on Forestry and Natural Resources for Senator Max Baucus, and does informal advisory work with the U.S. Forest Service, BLM, BIA, and others.

CONSTANCE E. BROOKS (B.A. Louisiana State University, '73; J.D. Tulane Law School, '77) has worked for five years with Mountain States Legal Foundation, a conservative public interest legal foundation, where she has headed up litigation involving grazing rights, access to public lands, impact of the National Environmental Policy Act on oil and gas leases, state water law issues, and land use planning. As Vice President and General Counsel of the Foundation she has also taken on reverse discrimination cases and recently briefed and argued the Supreme Court case of Johnson v. Transportation Agency, Santa Clara County. Previously she spent five years with the Washington office of the Alaskan firm Birch, Horton, Bittner, Monroe, Pestinger & Anderson. That firm represented several Alaskan Native corporations on their land matters and the State of Alaska in its lawsuit again President Carter to repeal creation of national monuments in Alaska.
WELLS BURGESS is a staff attorney with the General Litigation Section of the Land and Natural Resources Division of the U.S. Department of Justice. He has defended the Government against suits challenging both federal land use management plans and other federal natural resource plans: these include the challenge to the Outer Continental Shelf Oil and Gas Leasing Program, California v. Watt, 712 F.2d 584 (D.C. Cir. 1983), and the challenge to the Bureau of Land Management's grazing management program, Natural Resources Defense Council v. Hodel, 624 F. Supp. 1045 (D. Nevada 1985), appeal pending, 9th Cir. No. 86-1687. He currently heads a team of lawyers from various sections within the Lands Division charged with coordinating the defense of prospective litigation challenging forest plans promulgated under the National Forest Management Act. Prior to joining the Justice Department in 1979, he was in private practice in New York City.

WAYNE ELMORE (B.S. in Forestry/Wildlife, Oklahoma State University, '68; Post Graduate Studies in Fisheries Management, State of Washington, '69-72) is BLM Oregon State Riparian Specialist stationed in Prineville, Oregon. During 19 years with the BLM he has served as a Wildlife and Fisheries Biologist— for 6 1/2 years in Spokane and 13 years in Prineville. He has intensive inventory experience on over 500 miles of riparian systems in the west including recovery potential, fisheries and wildlife habitat, bank stability, and stream flow. He has worked on and observed riparian recovery on approximately 200 miles of stream in many different sites and systems. For the last three years he has lectured widely to academic and governmental groups.

PETER M. EMERSON (B.S. and M.S. Cornell University; Ph.D. Purdue University) is Vice President for Resource Planning and Economics with The Wilderness Society in Washington, DC. He was formerly principal analyst for the Congressional Budget Office; agricultural economist, Economic Research Service and Office of the Secretary, U.S. Department of Agriculture; and teacher, University of Maryland. He is a consultant to various organizations in agriculture, rural development and natural resources.
JAMES F. ENGELKING (B.S., U.S. Naval Academy, 1962; J.D., University of Denver College of Law, 1972) is Special Counsel to Saunders, Snyder, Ross & Dickson, Denver, and devotes the majority of his practice to public lands, mining, water and environmental matters. He was previously Assistant General Counsel, Climax Molybdenum Co. and represented its operations in western U.S., Canada, and Mexico. He has served as a Director of the Colorado Water Congress and is an active member of the Colorado Mining Association and spoke to the 88th National Western Mining Conference (1985) on Colorado's natural resources damage cases under CERCLA. He is Chair of the State Bar Liaison and Vice Chairman of the Hard Minerals Committees, ABA Natural Resources Law Section, and is immediate past-Chairman of the Mineral Law Section, Colorado Bar Association. He has been active in natural resources law planning and alumni/student affairs at the University of Denver College of Law, and in several committees of the Rocky Mountain Mineral Law Foundation.

HANK FISCHER (B.S. Ohio University, Athens; M.S. Environmental Studies, University of Montana, '76) has worked for Defenders of Wildlife as their Northern Rockies field representative for the past 10 years. Much of his work has involved threatened and endangered species, particularly the grizzly bear and the Rocky Mountain wolf. He does a regular commentary program on Montana public radio and is author of A Floater's Guide to Montana (Falcon Press, 1979). For his efforts in bringing the "Wolves and Humans" exhibit to Yellowstone and to Boise, Idaho, he received the Natural Resource Council of America's Award of Achievement for Education in 1986.

DENIS P. GALVIN (B.S. Northeastern University, Boston, '60) was appointed Deputy Director of the National Park Service in 1985 after seven years as manager of the NPS Denver Service Center, which oversees most of the agency's design and construction program throughout the nation. He joined the NPS in 1963 as a civil engineer at Sequoia National Park, after completing a two-year Peace Corps assignment in Tanzania, East Africa. Subsequently he served as an engineer at Mt. Rainier National Park and with the NPS's Southwest Regional Office in Santa Fe; as a training specialist at the Horace M. Albright Training Center, Grand Canyon; and as a management assistant in the New York District Office, overseeing park operations for a variety of NPS facilities. From 1974-78 he served as Associate Regional Director, then as Deputy Director of the NPS regional office in Boston, before his transfer to Denver.
LORIN L. HICKS (B.S. Arizona State University; M.S. University of Michigan; working on a Ph.D. in forestry from University of Montana) is a wildlife biologist for Plum Creek Timber Co., a wholly-owned subsidiary of Burlington Northern, Inc. He directs wildlife and fisheries programs on 1.5 million acres of corporate timberlands in Montana, Idaho, Washington and Oregon, including research on big game species such as deer and elk, analysis of forest management impacts on resident wildlife and fish populations, and management of threatened and endangered species such as bald eagles and grizzly bears. He has published research on desert quail, desert and Sierra Nevada bighorn sheep, and bald eagles. A member of Tri-Beta National Biological Honor Society and The Wildlife Society, he served previously as a smokejumper, range aid, and biologist for the U.S. Forest Service and the BLM in Arizona, California and Montana.

ELIZABETH DARBY JUNKIN (B.A. cum laude Barnard College, Columbia University, '80) had her first book, Lands of Brighter Destiny, published by Fulcrum, Inc. in 1986. She has edited Of Discovery and Destiny: An Anthology of American Writers and the American Land (with Baron), 1986, and South African Passage (with Player), 1987. She won the Excellence in Journalism award, 1983, DeKalb AgResearch for Disappearing Land reporting on soil erosion. Specializing in natural resources coverage, she was formerly on the staff of Newsweek and National Public Radio. She freelances for the New York Times, French Geo, Newsweek, and others while working on her third book, Animal Crackers, essays on the nature of man and endangered species. She is also a playwright and publisher.

JOHN D. LESHY, Professor of Law at Arizona State University, teaches water law, natural resources, constitutional and Indian law, as well as directing a funded project on irrigation districts. He has an A.B. and J.D. from Harvard, and has been an attorney for the Justice Department, 1969-72; Regional Counsel for the Natural Resources Defense Council, Western Office, 1972-77 (responsible for, among other things, environmental advocacy for water projects and policies at state and federal levels); Associate Solicitor for Energy and Resources, Department of Interior, 1977-80 (dealing with federal water policies and programs of Reclamation and the Bureau of Land Management).
WILLIAM J. LOCKHART (University of Minnesota, B.A. 1955, L.L.B. converted to J.D., 1961) has been Professor of Law since 1970 (Assistant Professor of Law, 1964-70) at the University of Utah. He has done extensive pro bono litigation in civil liberties and environmental matters, 1968-present, including: attorney for the National Parks and Conservation Association and other in two cases challenging the Dept. of Energy site selection guidelines for a high-level nuclear waste repository adjacent to Canyonlands National Park; and attorney (with Mastbaum) for the Environmental Defense Fund in judicial review of Secretary of the Interior Andrus' determination of the "unsuitability" of surface coal mining adjacent to Bryce Canyon National Park. He is a member of the Litigation Review Committee of the Environmental Defense Fund, and drafted the Utah Administrative Rule-Making Act, designed to assure open procedures and public participation in the state administration rule-making process.

GUY R. MARTIN (B.A. '74 and J.D. '77, University of Colorado) is a partner in the Washington, DC office of Perkins Coie, a Seattle-based firm. He specializes in natural resources, energy, and environmental law, focusing on Western U.S. and Alaska resource development. Previously he served as Assistant Secretary of Interior for Land and Water Resources under President Carter (1977-81), and as Commissioner of Natural Resources for the State of Alaska under Governor Jay Hammond (1975-77). He has practiced law in Anchorage (1967-71); and has been a professor of political science and public law at Alaska Methodist University, and Administrative Assistant to Alaska Congressman Nick Begich (1971-73). He writes and speaks regularly on natural resource public policy issues, including writing a regular column for the Anchorage Daily News.

DONALD L. MORGAN (A.B. '56 magna cum laude, LL.B. magna cum laude, '62 Harvard; editor Harvard Law Review, 1960-62) has been with Cleary, Gottlieb, Steen & Hamilton, Washington, DC, since 1962, and a partner since 1970. His legal practice has concentrated on natural resource development, environmental, and human health issues, including federal and state legislative, regulatory-agency, and litigation matters. He is a member of the bars of the U.S. Supreme Court and various Courts of Appeals, and has served on the Disciplinary Board and the Environmental Law Section of the District of Columbia Bar. He is a member of the Executive Committee, Washington Lawyers' Committee for Civil Rights Under Law. He served in the U.S. Navy, 1956-59.
JAMES RILEY (B.S. in Forestry-Timber Management, '78 Utah State University) is Executive Vice President of the Intermountain Forest Industry Association in Coeur d'Alene, Idaho. Previously he was Executive Director of Intermountain Forestry Services in Ogden, Utah. He has served as Operations Research Analyst for U.S.D.A. Forest Service in Salmon National Forest, Idaho; as Manager of Forest Planning with the National Forest Products Association, in Washington, DC; and as a Research Assistant, Department of Forestry, Utah State, '78-'81.

PATRICK Y. O'BRIEN (A.B. Zoology '67, University of California, Berkeley, M.S. '74 and Ph.D. '79 Ecology, University of California, Irvine) has worked since 1981 in the Ecological Programs group of the Corporate Environmental Affairs staff for Chevron Corporation. He is coordinator for the group which provides technical and management capability to address ecological issues faced by Chevron, including: the effects of PCB contamination on wildlife resources in Alaska; effects of petroleum development on wildlife in the Arctic National Wildlife Refuge; effects of thermal discharge on kelp forests offshore California; wetlands functions studies in Mississippi; endangered species awareness and compliance; and oil spill planning and response. Prior experience combines teaching and research in marine, freshwater and terrestrial habitats, with consulting and service as a Marine Environmental Protection officer, U.S. Coast Guard.

HARRIS D. SHERMAN (B.A. Colorado College, '64; LL.B. Columbia Law School, '67) has been a partner with Arnold & Porter in Denver since 1980. His principal areas of practice include natural resources and environment, real estate and zoning, public land law, Indian law, and administrative law and litigation. Previously he was Executive Director of the Colorado Department of Natural Resources (1975-80) and a member of the Governor's Cabinet, during which time he served variously as Commissioner of Mines; Chairman, Governor's Energy Policy Council; Chairman, Colorado Water Quality Control Commission; Chairman, Colorado Mined Land Reclamation Board; Director, Colorado Weather Modification Program; and Vice-Chairman, Colorado Commission on Indian Affairs. He has been Colorado's representative to the Western States Water Council (1975-present) and to the Department of Interior's Oil Shale Environmental Advisory Panel (1979-80). He was previously an attorney with Sherman, Sherman & Morgan in Denver (1969-74) and with the Environmental Defense Fund in Denver (1973-74).
Co-authors with Harris Sherman:

DAVID S. NESLIN and IAN K. WHITLOCK are associates in the Denver office of Arnold & Porter, where both are active in public land and environmental law. Mr. Neslin received his B.A. and J.D. degrees from the University of Washington. Mr. Whitlock received his B.A. degree from Simon's Rock College and his M.Sc. and J.D. degrees from the University of Texas. Both represent a number of ski areas that are located on national forest system land.

JEFF M. SIRMON (Auburn University) became Deputy Chief for Programs and Legislation, USDA Forest Service, Washington, DC in 1985, after serving four years as Regional Forester for the Pacific Northwest Region in Portland, Oregon. He began his career in the Forest Service as a project engineer with the National Forests of Alabama, then as Assistant Forest Engineer in South Carolina. After service in the U.S. Army (1962) he was transferred to the Lassen National Forest, Susanville, California. Four years later he was named engineering development officer of the Pacific Southwest Region, San Francisco. Subsequently he served as branch chief for administrative management and data retrieval, Engineering Division, Washington, DC; as Assistant Regional Forester, Northern Region, Missoula; and as Deputy Regional Forester for the Intermountain Region (1974-80). He is a member of the Society of American Foresters, the National Association of County Engineers, the American Forestry Association, and the American Society of Civil Engineers.

DONALD R. SNOW (B.A. Colorado State University, '73) is Executive Director of Northern Lights Research & Education Institute, Inc. He has served as staff coordinator of the Montana Environmental Information Center (1979-81) and Montana Editor High Country News (1982-83). Previously he worked as a freelance writer and consultant, performing projects for the BLM Division of Special Studies; the western Conference of the Council of State Governments; the Montana Environmental Quality Council; the Office of Technology Assessment; and Earth Resources Associates, a private consulting firm in Helena. He also served on the University of Montana Coal Demand Study and is co-author of its 1982 final report, "Projections of Coal Demand in the Northern Great Plains to the Year 2010." He is the author of numerous magazine articles on natural resource development in the West.
JOHN WEAVER (B.S. in Honors Program, '72; M.S. in Wildlife Biology, '75, Utah State University) became National Grizzly Bear Habitat Coordinator for the U.S. Forest Service in Missoula, Montana in 1985. He has just completed a semester of studies in resource policy at the Yale University School of Forestry and Environmental Studies. He did independent wildlife research in the Greater Yellowstone area and also in Brazil from 1975-78. He joined the Forest Service in 1978 as an endangered species biologist in Jackson Hole, Wyoming. He has published scientific articles on both wolves and grizzlies, including a monograph, The Wolves of Yellowstone (1978).

DAVID C. WILLIAMS (B.A. Pomona College, '59; M.P.A. '78 and work toward practitioner Doctor of Public Administration at the Washington Public Affairs Center of the University of Southern California) has been Chief, BLM Division of Planning and Environmental Coordination since 1981, during which time he has re-written the Bureau's Planning Regulations (1983), and overseen development of the Planning Manual (1984) and Supplemental Program Guidance (1987). He initiated training courses for the development and use of the plans, and a new system for training modules. He joined the BLM in 1979 as Chief of the Office of Special Projects, responsible for issues dealing with the Alaska Natural Gas and Northern Tier Pipelines, the ETSI Coal Slurry Pipeline and Rocky Mt. Pipeline, the Allen-Warner Valley power plants, and the proposed MX missile basin on public lands in Nevada and Utah. Previously he was an independent consultant in Washington, DC, on the community impacts of energy development.

THOMAS E. WILSON (M.S. Environmental Engineering, West Virginia University; B.S. Chemistry, Syracuse University) is Chief of the Office of Water Planning, U.S. Environmental Protection Agency Region 10 in Seattle, responsible for water quality planning, standards and nonpoint source control programs in Alaska, Idaho, Oregon and Washington. Previously he has held environmental positions in industry (Brunswick Corporation); local government (San Diego Air Pollution Control District); and EPA Headquarters in Washington, DC.