

Resume and Biography of Patrick E.W. Heffernan - Updated, March 2011

Patrick was born in Nicosia, Cyprus, November 11, 1957. After graduating from Mill Hill School, London, in 1976, he attended the Cumbria College of Agriculture and Forestry, in Penrith, England, graduating with a National Diploma in Forestry in June 1981. Patrick has worked in most aspects of the forestry profession in Great Britain, including working for: Treetop Contracts, Ltd., Sible Hedingham, Essex, England; The Duke Of Buccleuch's Bowhill Estates, Selkirk, Scotland; The Forestry Commission, Brechfa, Dyfed, Wales and later for J. Roberson & Sons, Timber Merchants, Llanybydder, Dyfed, Wales.

After immigrating to the United States in 1983, Patrick initially worked as an independent timberfaller, for a variety of 'logging outfits' in northwest Montana. He is a competent timberfaller, with experience in felling both broadleaved (oak) and coniferous trees. Patrick is also a skilled heavy equipment operator of logging, roadbuilding and heavy construction equipment.

Patrick is a competent heavy truck driver, with a current Class A CDL with Doubles/Triples and Tanker endorsements and holds a current DOT physical. Patrick has considerable experience with heavy trucks and steep mountain roads as a log truck driver.

Patrick also has several structure and wildland fire certifications, from his tenure as Captain with the Martin City Volunteer Fire Department and holds numerous Wildland Firefighter certifications. Patrick has worked on numerous wildland fires: USFS Helitack Crew (Gilbert Creek Fire, 2004); as an Engine Strike Team Leader (Red Bench Fire, Glacier National Park, 1988); Communications and Ground Support (Starvation Fire, 2004, Glacier National Park) and Fireline Rehabilitation (Wolf Creek Fire, Flathead National Forest).

Patrick has worked within Montana's forest industry for a variety of employers including: Canyon Logging Co., Columbia Falls; Plum Creek Timber Company, Kalispell; Creative Consultant Group (which he founded in 1992) and eight years with the Montana Logging Association (MLA), directing their award winning Accredited Logging Professional program and managing their natural resources liaison and legislative affairs. He spent two years with the Liz Claiborne Art Ortenberg Foundation, starting up and directing their Red Lodge Clearinghouse project, to foster support for collaborative conservation groups throughout the western United States.

He founded PAFTI, Inc. in 2004, to pursue his desire to work for a variety of clients and to create new approaches to solving natural resource management problems. PAFTI has provided exemplary services to a variety of clients, including: The Montana Logging Association; Society of American Foresters National Office, U.S. Forest Service, Native American Tribes, Montana DNRC, The Trust for Public Land and The Nature Conservancy and a variety of other private clients. Please see <http://www.pafti.com> for more details.

Patrick Heffernan Resume'

EDUCATION

O.N.D. Forestry Cumbria College of Agriculture & Forestry, Penrith, Cumbria, UK, 1981

PROFESSIONAL EXPERIENCE

- 2004 – Present **President, PAFTI, Inc.** Full service natural resources consulting firm. Registered lobbyist, state of Montana, 2008-2011.
- 2002 - 2004 **Liz Claiborne Art Ortenberg Foundation, Director, Red Lodge Clearinghouse.** Developed a full service organization for natural resource collaborative groups. Provided direct facilitative and funding assistance for several collaborative groups throughout the western U.S. See: <http://www.redlodgeclearinghouse.org> for complete details. Liaison with USFS, USDA, DOI and BLM personnel. Facilitative work with Agency, Environmental, Resource Provider and Industry interests. Member of the INW Stewardship Contracting Monitoring Team – direct experience with Stewardship Contracting since 1996.
- 1995 - 2002 **Montana Logging Association, Staff Forester.** Developed and administered the Accredited Logging Professional (ALP) education & training program; Logging Safety and Loss Control programs; State Implementation Committee staff for American Forest & Paper Association Sustainable Forestry Initiative (SFISM) program. Developed additional educational outreach programs - Montana Forests Forever interactive CD-ROM program for middle school science. Association liaison with state, federal and tribal government agencies. Review, analysis and comment on major federal actions – NEPA, NFMA, ESA, CWA and federal rulemaking. Review of legal decisions; amici, Bitterroot Fire Salvage, 2002. Collaborative natural resource management projects with the Flathead Forestry Project and Flathead Common Ground. One of the original architects of Stewardship Contracting legislation and implementation of the pilot program. Registered lobbyist, state of Montana, 1997-2001.
- 1993 - 1994 **Creative Consultant Group, Vice President.** Owned & operated a diversified forestry consulting firm specializing in private non-industrial forestry in Montana. Performed contracted work for Montana Logging Association in developing their ALP program.
- 1991 - 1992 **Plum Creek Timber Co., Field Forester.** Timber sale field forester. Considerable experience in timber sale layout, road location and field surveying.
- 1985- 1990 **Canyon Logging/Ureco, Inc.** Logging crew foreman; heavy equipment operator. Supervision of multiple timber harvesting & road construction operations in western Montana.
- 1983 - 1985 **Self-employed Professional Timber Faller.** Contract timberfalling on a variety of western Montana timber harvesting operations.
- 1976 – 1981 **Related UK experience:** J. Roberson & Sons, Timber Merchants – harvesting and processing of hardwood timber; UK Forestry Commission – trainee forester;

Bucclench Estates, Ltd. – trainee forester, Tree Top Contracts, Ltd. Tree planting and plantation maintenance contractor.

OTHER RELATED EXPERIENCE

1991 – Present Certified Forest Stewardship Advisor – Montana Forest Stewardship Workshop program & Riparian/Wetland Workshop program.
Fires of 2000 Emergency Firefighter Training Coordinator – contractor workforce.
August 1994 Communications Specialist/Ground Support, Starvation Fire, Glacier N.P. MT.
September 1988 Engine Strike Team Leader, Red Bench Fire, Flathead N.F./Glacier N.P. MT.
August 1985 Emergency Wildland Fire Crew member, Flathead National Forest.
1986-1995 Volunteer Fireman; Safety Training Officer (Captain 1991) Martin City V.F.D.

CERTIFICATIONS AND TECHNICAL QUALIFICATIONS

Montana Commercial Driver License, Class A with double/triple trailer and tanker endorsements.
Montana Board of Public Education/Fire Services Training School - Certified Firefighter (structures); Rural Water Supply/Tender Supply.
Burlington Northern Railroad – Railroad Early Response Program (Hazmat ICS)
Wildland Firefighter Training – Basic Wildland Firefighter; ICS 220 (Incident Command Training); RT 130 Wildland Fire Technical Specialist (heavy equipment/water tender)

MEMBERSHIPS/AFFILIATIONS/AWARDS/PUBLICATIONS

Society of American Foresters, member since 1989; Elected State Chair in 2001; Flathead Chapter Chair – 1996-1997; Forester of the Year award – 1995.

American Pulpwood Association – Logger Training & Education program award (ALP program) 1997;

APA Western Technical Division Forest Activist award 1998.

Montana Wood Products Association – *Ex Officio* member, Resource Committee; Timberman of the Year award 1998.

Flathead Economic Policy Center – Chairman of the Board, 1996 – present.

Kalispell Chamber of Commerce – Natural Resource Committee Chair 1996-1998.

Montana Tree Farm – Educator Award, 2006.

Publications:

Forestry's Front Line; Journal of Forestry, Society of American Foresters, June 1996.

2000 BMP Audit Report; Ethridge & Heffernan, Montana DNRC, December 2001.

Forest Management Solutions for Mitigating Climate Change in the United States;

Malmsheimer-Heffernan *et al*, Society of American Foresters, June 2008.

Montana's Forestry BMP Program – 20 Years of Continuous Improvement, Sugden *et al*, Society of American Foresters, 2010.

Biography: Patrick E.W. Heffernan

After graduating from Mill Hill School, London, in 1976, he attended the Cumbria College of Agriculture and Forestry, in Penrith, England, graduating with a National Diploma in Forestry in June 1981. Patrick has worked in most aspects of the forestry profession in Great Britain, including: tree surgery and tree care, plantation establishment and maintenance with Treetop Contracts, Ltd., Sible Hedingham, Essex, England; timber management, harvesting and plantation management for Bowhill Estates, Selkirk, Scotland; trainee forester, responsible for production forecasting, harvest scheduling, planning and implementation, safety training and other duties with the Forestry Commission, Brechfa, Dyfed, Wales and; timber harvest planning and implementation for J. Roberson & Sons, Timber Merchants, Llanybydder, Dyfed, Wales.

After emigrating to the United States in 1983, Patrick has worked within Montana's forest industry for a variety of employers including: Canyon Logging Co., Columbia Falls; Plum Creek Timber Company, Kalispell; Creative Consultant Group (which he founded in 1992), eight years with the Montana Logging Association (MLA) and two years with the Liz Claiborne Art Ortenberg Foundation.

At MLA, Patrick was responsible for organizing and administering Montana's Accredited Logging Professional program, environmental education, water quality protection, health and safety, loss control and other educational programs provided by the MLA as well as responsibility for the Association's forestry legislative affairs, state and federal government liaison and other Association duties. During this time, he gained great experience with the complexity of federal statutes, rules and regulations governing the operations of the U.S. Forest Service, U.S Fish & Wildlife Service and EPA. Patrick conducted complete analysis of major federal actions and provided detailed comments to the agencies on complex issues like the Roadless Rule, Road Management Policy, INFISH, UCRBEIS and was involved with the CWA's TMDL program and other non-point pollution aspects of the CWA. Patrick has also been responsible for the administration of the Montana Forest Council, which functions as the State Implementation Committee for the Sustainable Forestry Initiative program. Patrick has also represented forestry interests on Montana DEQ's Statewide Advisory Group for TMDL implementation, the Forestry BMP and SMZ Advisory Working Group, the Montana Forest Stewardship Program Steering Committee, the Montana State University Extension Advisory Council and the Montana Wood Products Association Resource Committee.

At PAFTI, Inc., Patrick has been involved with many projects and clients – please see <http://www.pafti.com> for more details. Here are some of the major projects:

Providing staffing for the Montana SFI Implementation Committee:

Patrick has been involved with SFI implementation since the certification program's inception in 1994. Montana has one of the most active and progressive SFI Implementation Committees and continues to pioneer and explore the opportunities that SFI provides to advance the practice of sustainable forestry.

Developing, directing and administering Montana's award winning Accredited Logging Professional - ALP - program:

Conceived in 1991, Patrick began working with Montana State University Extension Forestry to build an initial forest stewardship curriculum for timber harvesting contractors and their employers. The first Forest Stewardship Workshops for Loggers were held at the University of

Montana Biological Station facility, on Flathead Lake, during the spring of 1994.

Since then, the ALP program has evolved into a complete vocational training and education program for timber harvesting contractors and their employees, with a complete training verification relational database. The verification of education and training records becomes increasingly important for OSHA compliance and the verification of evolving forest certification standards.

Developing a vocational education and training program to build forest management and business development skills within the Native American firefighter community:

PAFTI is working with the Society of American Foresters - SAF - to develop an accredited curriculum for skill capacity building within the ranks of existing fire suppression crews. This modular, two-track curriculum will empower firefighters to take on additional forest management tasks, so that they can realize year-round employment and accomplish forest management tasks on Federal lands, which would otherwise not get done.

Track One - 'Forestry Skills For Indian Country - Introduction To Forest Restoration', is designed to build basic forest management work skills, in thinning, tree planting and fuel reduction. Subjects covered include basic forest measurements and health assessment, basic silviculture and forest stewardship and builds the field skills necessary for successful project implementation. This workshop was successfully piloted during two workshops during March 2006, at Warm Springs, Oregon and Whiteriver, Arizona.

Track Two - 'Forestry Skills For Indian Country - Introduction To Business Management', is designed for tribal forestry department staff and local entrepreneurs, who seek to pursue 'off-reservation' forest management contracting opportunities. This workshop covers the basics of business management to empower those who seek to start up new forest management businesses with the small business skills necessary to be successful. This workshop was successfully piloted during two sessions in March 2007, in Seattle, Washington and Albuquerque, New Mexico.

Significant work opportunities exist under the Tribal Forest Protection Act (TFPA), which authorizes tribes to propose and implement forest management projects on adjacent federal lands.

Next steps include producing formal 'train-the-trainer' curriculum formats for both workshops, developing operational training for logging safety/OSHA compliance, water quality protection and other operational aspects and recruiting an initial cadre of local tribal forestry professionals, to learn how to deliver the training programs in their local communities. This will facilitate widespread dissemination of the technical skills necessary for successful projects and build the firefighter workforce skills far and wide throughout Indian Country.

Additionally, it is proposed that PAFTI will assist selected tribes in developing a 'coached' TFPA project in their local area. This will create models for further TFPA projects, creating significant work opportunities for local forestry workers.

Developing a new Forestry Best Management Practices (BMPs) guidebook for the State of

Wyoming

PAFTI has developed a new BMP guidebook for Wyoming, published in December 2006. This 60-page publication was produced using Adobe In Design software, which PAFTI purchased in 2006.

Custom Training DVDs:

PAFTI is developing customized training DVDs, which focus on building effective training materials for specific skills. PAFTI is currently developing DVDs for stream crossing installation, geotextile installation, road drainage and other road construction and maintenance skills, with the Montana Forest Stewardship Foundation. PAFTI has purchased high resolution digital photography equipment and Adobe Essential Elements software, for custom video editing.

Forest Biomass Co-Generation Feasibility Study:

Working with L.D. Jellison, of Vancouver, Washington, PAFTI developed a fuel availability and cost study for F.H. Stoltze Land & Lumber Co., in Columbia Falls, Montana. This study examines the availability, costs and logistics of harvesting and delivering forest biomass to the proposed co-generation facility.

The Montana Legacy Project:

PAFTI has been retained by the Trust For Public Land (TPL), to assist with the purchase and disposition of 320,000 acres of Plum Creek timberland, which is being jointly purchased by TPL and The Nature Conservancy. PAFTI will be co-coordinating with the Montana State Legislature, the Montana Administration and other parties, to secure state funding for the disposition of land to Montana state management agencies. PAFTI was successful in getting legislation passed in May 2009 to fund the state purchase of 26,000 acres.

Stream Crossing Reclamation:

During the summer of 2010, PAFTI worked with Graves Bay - a Kalispell, Montana contractor - to remove and reclaim 21 major forest road stream crossing sites on the Flathead National Forest. Patrick Heffernan, of PAFTI, Inc. and Peter Gall, of Graves Bay, pioneered innovative techniques for stream crossing removal, including the largest culvert removal ever attempted on the Flathead National Forest - Felix Creek (164' - long 5' dia. culvert; 12,000 cu yds. of excavation).

Montana Wood Products Association:

From January through May of 2011, Patrick will be representing the Montana Wood Products Association (MWPA) as their Executive Vice President, until they permanently fill the position in June 2011. Patrick is currently working in Helena, Montana, lobbying the Montana State Legislature on MWPA's behalf.

Patrick has been involved in many forestry education efforts including the Montana Forest Stewardship Workshop program, for which he is a Certified Instructor and the development of the Montana Forests Forever educational CD-ROM program for middle school science. He has served as Chair for the Flathead Chapter of the Society of American Foresters; Chair of the Kalispell Chamber of Commerce Natural Resource Committee and Board Chairman of the Flathead Economic Policy Center.

Patrick has received professional awards for his work including the SAF Flathead Chapter Forester of the Year Award in 1995; MWPA Timberman of the Year Award in 1998; the American Pulpwood Association's 1998 Western Forest Activist Award; and the Montana Tree Farm 2006 Educator of the Year Award.

Patrick has been involved in several collaborative projects in Montana and other states. They include the Canyon Citizen Initiated Zoning project (co-chair) – a community land use planning and zoning project including the communities of West Glacier, Lake Five, Coram, Martin City and Hungry Horse; the Flathead Forestry Project; Flathead Common Ground and other local community projects.

Patrick has been deeply involved in water quality and fisheries protection through his work with the Montana Forestry Best Management Practices program and the Streamside Protection Act. Patrick has been working with partners in Wyoming, South Dakota and British Columbia to help develop similar protection measures for streams, lakes and wetlands in these areas.

Patrick is a well respected forestry and forest industry lobbyist, with across-the-aisle credibility with State Legislators, State Agencies, other associations and organizations, and the Legislative Services Division Staff. Patrick will be representing the Montana Wood Products Association during the 2011 Montana Legislative Session.

Patrick lives near Hungry Horse, Montana with his wife Carol and they spend part of their winters on their experimental tree farm in New Zealand.