
Curriculum Vitae of
ALTON C. BYERS, Ph.D.

Education:

Ph.D. Geography, University of Colorado, 1987
M.A. Geography, Syracuse University, 1979
B.A. Geography (cum laude), University of Colorado, 1975

Expertise:

Climate change analysis and adaptation in high mountain environments
Alpine protection and restoration
Program design, management, and implementation
Applied, management-oriented field research (physical and social sciences)
Monitoring and evaluation methods
Parks and protected areas

Work Experience

2015-present Senior Research Associate and Faculty, Institute of Arctic and Alpine Research (INSTAAR), University of Colorado, Boulder, Colorado (residence and home office in WV with several trips to Boulder per year for teaching and grant management purposes). Recent activities include co-management the High Mountains Adaptation Partnership (HiMAP); co-management of a new \$1.5 million National Science Foundation grant in Nepal (“Community-based approaches to glacial lake risk reduction in the Nepal Himalaya”); and serving as a Fulbright Specialist at Tribhuvan University, Nepal to strengthen the department’s mountain studies program. Regular lecturer at the National Geographic Society; International Centre for Integrated International Development (ICIMOD), Nepal; INSTAAR; USAID; and universities throughout the U.S. and world. Four to 6 months per year engaged in field work in Nepal, Tanzania, or Peru.

2000 – 2015 Director of Science and Exploration, The Mountain Institute (TMI) (www.mountain.org). Primary duty: Co-Manager of the High Mountains Adaptation Partnership (HiMAP) as of March 2012. Responsibilities include the design and management of new community-based glacial lake risk reduction projects in the Mt. Everest region of Nepal and Cordillera Blanca region of Peru, including development of new local adaptation plans of action for mountain communities concurrent with state of the art glacial lake and climate change research; strengthening the program's international Community of Practice; and evaluating and recommending research proposals for funding under the Climber-Scientist Small Grants Program. Institutionally responsible for (a) the strengthening of TMI’s climate change, conservation, and sustainable development

programs through the use of integrated, applied field research (physical and social sciences) in project design, implementation, and monitoring/evaluation, (b) the development of applied climate change and conservation research programs, higher education resource materials, international photo exhibits, and public presentations, and (c) institutional and cross-programmatic fundraising, technical support, and representation.

- 1997-2000: **Director, Appalachian Programs**, The Mountain Institute. Supervised program expansion and diversification through the development of new partnership-based biodiversity protection and restoration programs with local landowners; new mountain conservation education programs for teachers and K-12 students; community capacity building initiatives; and undergraduate and graduate student advising.
- 1995-1997: **Director, Andean Programs**, The Mountain Institute. Founder and first Director, TMI Andean Programs, Huaraz, Peru. Designed, funded, and established TMI's Andean Program in partnership with the Huascarán National Park (HNP), local communities, and donors. Directed the development of conservation, community development, and ecotourism programs within the HNP and surrounding region.
- 1990-1994: **Himalayan Programs, Project Co-Manager and Mountain Institute Representative**, The Mountain Institute, Makalu-Barun National Park and Conservation Area Project, Nepal. Responsible for establishment and implementation of the Makalu-Barun National Park and Conservation Area (1992). Supervised more than 60 full-time staff. Provided planning, technical, and administrative support to home office and host country colleagues, with financial responsibility for U.S. \$6.8 million. Additional duties including working as TMI's Environmental Advisor responsible for scientific, technical, and administrative support to environmental programs within TMI, the Makalu-Barun Conservation Project in Nepal, and the Qomolangma Nature Preserve in China.

Other Qualifications: Publications

Byers, A.C., Byers, E., Shrestha, M., Thapa, D., and Sharma, B. (forthcoming). Impacts of *yartsa gunbu* harvesting on alpine ecosystems in the Barun valley, Makalu-Barun National Park, Nepal. Forthcoming in *Himalaya: Journal of the Association for Nepal and Asian Studies*.

Byers, A., Byers, E., Rounce, D., Shugar, D., and Regmi, D. (forthcoming). A rockfall-induced glacial lake outburst flood, upper Barun valley, Nepal. Forthcoming in *Landslides*.

Byers, A.C., Byers, E., McKinney, D., and Rounce, D. 2017. A field-based study of impacts of the 2015 earthquake on potentially dangerous glacial lakes in Nepal. *Himalaya, Journal of the Association for Nepal and Himalayan Studies*, Vol. 37: No. 2, Article 7. Available at: <http://digitalcommons.macalester.edu/himalaya/vol37/iss2/7>

Byers, A.C. 2017. Khumbu Since 1950: Cultural, Climate, and Landscape Change in the Sagarmatha (Mt. Everest) National Park, Nepal. Kathmandu: ECS Press.

Byers, A.C. 2017. A Qualitative Assessment of Contemporary Glacier Loss in the Cordillera Blanca, Peru, Using Repeat Photography. *Revista de Glaciares y Ecosistemas de Montaña* 2 (2017): 31-40.

Rounce, D., Byers, A. C., Byers, E. A., and McKinney, D. C.: Brief Communications: Observations of a Glacier Outburst Flood from Lhotse Glacier, Everest Area, Nepal, The Cryosphere Discuss., doi:10.5194/tc-2016-239, <http://www.the-cryosphere.net/11/443/2017/>, 2017.

Garrard, R., Kohler, T., Price, M., Byers, A., Sherpa, A.R., and Maharjan, G. 2016. Land Use and Land Cover Change in Sagarmatha National Park, a World Heritage Site in the Himalayas of Eastern Nepal. Mountain Research and Development 36(3):299-310. 2016. doi: <http://dx.doi.org/10.1659/MRD-JOURNAL-D-15-00005>.

Rounce, D. R., D. C. McKinney, J. M. Lala, A. C. Byers, C. S. Watson: A New Remote Hazard and Risk Assessment Framework for Glacial Lakes in the Nepal Himalaya, Hydrol. Earth Syst. Sci., 20, 3455–3475, 2016. doi:10.5194/hess-20-3455-2016

Watanabe, T., A. C. Byers, M. A. Somos-Valenzuela and D. C. McKinney 2016. The Need for Community Involvement in Glacial lake Field Research: The Case of Imja Glacial Lake, Khumbu, Nepal Himalaya, Chapter 13 in Singh, R. B., Schickhoff, U., and Mal, S. (eds.): Climate Change, Glacier Response, and Vegetation Dynamics in the Himalaya: Contributions Toward Future Earth Initiatives, Springer International Publishing Switzerland, pp. 235-250, 2016, doi:10.1007/978-3-319-28977-9_13

Byers, A.C. 2016. Alpine Habitat Conservation and Restoration in Tropical and Sub-tropical High Mountains. In: Allison, S. and Murphy, S. (eds.). Routledge Handbook of Ecological and Environmental Restoration. London: Routledge. Book chapter. Forthcoming.

Kargel, J.S., G.J. Leonard, D.H. Shugar, U.K. Haritashya, A. Bevington, E.J. Fielding, K. Fujita, M. Geertsema, E.S. Miles, J. Steiner; and E. Anderson, S. Bajracharya, G.W. Bawden, D.F. Breashears, A. Byers, B. Collins, M.R. Dhital, A. Donnellan, T.L. Evans, M.L. Geai, M.T. Glasscoe, D. Green, D.R. Gurung, R. Heijnen, A. Hilborn, K. Hudnut, C. Huyck, W.W. Immerzeel, JIANG Liming, R. Jibson, A. Kääb, N.R. Khanal, D. Kirschbaum, P.D.A. Kraaijenbrink, D. Lamsal, LIU Shiyin, LV Mingyang, D. McKinney, N. K. Nahirnick, NAN Zhuotong, S. Ojha, J. Olsenholler, T.H. Painter, M. Pleasants, Pratima KC, QI Yuan, B.H. Raup, D. Regmi, D.R. Rounce, A. Sakai, SHANGGUAN Donghui, J.M. Shea, A.B. Shrestha, A. Shukla, D. Stumm, M. van der Kooij, K. Voss, WANG Xin, B. Weihs, D. Wolfe, WU Lizong, YAO Xiaojun, M.R. Yoder, and N. Young, 2015, Geomorphic, Tectonic, and Geologic Controls of Geohazards Induced by Nepal's 2015 Gorkha Earthquake, *Science*, DOI: 10.1126/science.aac8353.

Byers, A. C., McKinney, D. C., Byers, E. A., Post-Earthquake Assessment of Imja, Tsho Rolpa, and Thulagi Glacial Lakes in Nepal. Technical Report, United States Agency for International Development, Global Climate Change Office, Climate Change Resilient Development Project, Washington, DC, August, 2015, report.

Lamsal, D., Sawagaki, T., Watanabe, T., Byers, A. C., and McKinney, D. C. 2015. An assessment of conditions before and after the 1998 Tam Pokhari outburst in the Nepal Himalaya and an evaluation of the future outburst hazard. *Hydrol. Process.*, doi: 10.1002/hyp.10636.

Somos-Valenzuela, Marcelo A., Daene C. McKinney, Alton C. Byers, David R. Rounce, Cesar Portocarerro, Damodar Lamsal, Assessing Downstream Flood Impacts Due to a Potential GLOF from Imja Lake in Nepal, *Hydrol. Earth Syst. Sci. Discuss.*, 11, 13019–13053, 2014 doi:10.5194/hessd-11-13019-2014

Lamsal, D., Sawagaki, T., Watanabe, T., and Byers, A.C. 2014. Assessment of glacial lake development and prospects of outburst susceptibility: Chamlang South Glacier, eastern Nepal Himalaya. *Geomatics, Natural Hazards and Risk*, <http://dx.doi.org/10.1080/19475705.2014.931306>

Byers, A.C., McKinney, D.C., Thakali, S., and Somos-Valenzuela, M.A. 2014. The High Mountains Adaptation Partnership (HiMAP): Promoting Science-Based, Community-Driven Approaches to Climate Change Adaptation in High Glaciated Mountain Ranges of the World. *Geography* Vol. 99, Part 3, Autumn 2014.

Byers, A.C. 2014. The Princess and the Duke. *Wonderful West Virginia Magazine*. September 2014.

Somos-Valenzuela, M.A., McKinney, D.C., Rounce, D.R., and Byers, A.C. 2014. Changes in Imja Tsho in the Mt. Everest Region. *The Cryosphere*, 8, 1–27, 2014
www.the-cryosphere-discuss.net/8/1/2014/ doi:10.5194/tcd-8-1-2014

Byers, A.C. 2013. Contemporary human impacts on subalpine and alpine ecosystems of the Hinku valley, Makalu-Barun National Park and Buffer Zone, Nepal. *Himalaya: The Journal of the Association for Nepal and Himalayan Studies*. Vol. 33, No. 1&2, Fall 2013.

Byers, A.C. 2013. An interview with Rodney Bartgis. *Wonderful West Virginia*, July 2013.

Price, M., Byers, A.C., Friend, D.A., Kohler, T., and Price, L.W. 2013. Mountain Geography: Physical and Human Dimensions. Berkeley: University of California Press.

Byers, A.C. 2013. Three sides of Everest: there's more to a mountain than its summit. *Natural History Magazine* 121 (3).

Byers, A.C. 2013. Preventing glacial lake outbursts (as told to Tasha Eichenseher). *Discover Magazine*, June 2013.

Byers, A.C. 2013. The Nature of Everest. *In: The Lure of Everest*. Washington, DC: National Geographic Society.

Byers, A.C., McKinney, D.C., Somos-Valenzuela, M.A., Watanabe, T., Lamsal, D. 2013. Glacial Lakes of the Hongu Valley, Makalu-Barun National Park and Buffer Zone, Nepal, *Natural Hazards*, April (DOI: 10.1007/s11069-013-0689-8)

Garrard, R., Kohler, T., Wiesmann, U., Price, M., Byers, A.C., and Sherpa, A.R. 2012.

Depicting community perspectives: repeat photography and participatory research as tools for assessing environmental services in Sagarmatha National Park, Nepal. *Eco-mont*, Vol. 4, No. 2.

Garrard, R., Kohler, T., Wiesmann, U., Price, M., Byers, A.C., and Sherpa, A.R. 2012. An ever-changing place: interpreting landscape change in Sagarmatha National Park, Nepal; re-photographic survey and encounter. *Eco-mont*, Vol. 4, No. 2.

Sawagaki, T., Lamsal, D., Byers, A.C., and Watanabe, T. 2012. Changes in Surface Morphology and Glacial Lake Development of Chamlang South Glacier, eastern Nepal Himalaya, since 1964. *Global Environmental Research* 16/2012: 83-94.

Byers, A.C. 2012. The wildflowers of Blister Swamp: a West Virginia success story. *Wonderful West Virginia*, July 2012.

D.C. McKinney, M.A. Somos-Valenzuela¹, A.C. Byers 2012. The Importance of Field Work in Natural Disaster Risk Assessments in High Mountains. AGU 2012, Poster Session.

Kargel, J.S., Cogley, J.G., Leonarda, G.L., Haritashyac, U., and Byers, A.C. 2011. Himalayan glaciers: The big picture is a montage. *Proc Natl Acad Sci USA*, 10.1073/pnas. 1111663108.

Byers, A.C. 2011b. Recuperación de pastos alpinos en el valle de Ishinca, Parque Nacional de Huascarán, Perú: Implicaciones para la conservación, las comunicaciones y el cambio climático. Documento de Trabajo No. 1. Huaraz: Instituto de Montana.

Byers, A.C. 2010. Byers, A.C. 2010. Fifty years of climate, culture, and landscape change in the Sagarmatha (Mt. Everest) National Park, Nepal. *Education About Asia* 15:3, Winter 2010.

Byers, A.C. 2010. Melting glaciers, freshwater, and conservation in the Mt. Everest region of Nepal. In: Straight, S. (ed.). *Written in Water*. Washington, DC: National Geographic Society.

Byers, A.C. 2010. Notes from Mustang and Dolpa: Tibetan Mastiffs on the Nepal-Tibet Border. In: Messerschmidt, D. 2010. *Big Dogs of Tibet and the Himalayas*. Bangkok: Orchid Press. pp. 74-81.

Byers, A.C. 2009. A comparative study of tourism impacts on alpine ecosystems in the Sagarmatha (Mt. Everest) National Park, Nepal and the Huascarán National Park, Peru. In: Hill, J. and Gale, T. (eds.). *Ecotourism and Environmental Sustainability*. London: Ashgate.

Byers, A.C. 2008. The Alpine Conservation Partnership: Saving Mountain Ecosystems, Building Resilience to Climate Change. *Alpine Journal* Fall 2008. London: Alpine Journal.

Byers, A.C. 2008. An assessment of contemporary glacier fluctuations in Nepal's Khumbu Himal using repeat photography. *Himalayan Journal of Sciences* Vol. 4, No. 6: 21-26.

Byers, A.C. 2007. Consultant to: Hodge, S. 2007. *Extreme Habitats: Mountain Survival* London: Gareth Stevens Publishing.

Byers, A.C. 2007. Impacts of climate change in the mountains. In: Braasch, G. (ed.). Earth Under Fire. Berkeley: University of California Press.

Byers, A.C. 2007. Changing climates, changing lives: strengthening adaptive response capacities to climate change in the Huascarán Biosphere Reserve, Peru, and Sagarmatha (Mt. Everest) National Park, Nepal. In: Baudo, R., Tartari, G., and Vuillermoz, E. 2007. Mountains: Witnesses of Global Changes. Amsterdam: Elsevier.

Byers, A.C. 2007. The Alpine Conservation Partnership: a global initiative to protect and restore alpine ecosystems. *American Alpine Journal* Winter 2007. Golden: American Alpine Club.

Byers, A.C. (ed.) 2006. An analysis of NGO service delivery capacities in Nepal during times of conflict and uncertainty. Kathmandu: The Mountain Institute. Project supported by the U.S. Agency for International Development, FY 2005 Research Options for DCHA/PVC-ASHA.

Byers, A.C. 2006. "The Future of Appalachian Forests". In: The Encyclopedia of Appalachia, Center for Appalachian Studies and Services, East Tennessee State University.

Foley, M., Almashev, C., and Byers, A.C. 2006. The Altai Assistance Project. *Mountain Research and Development*, winter, 2006.

Bergson, R.L. and Byers, A.C. 2005. All that remains: a mountaintop reveals its secrets. In: *Dig*, Volume 7, Number 9, November-December 2005.

Byers, A.C. 2005. Contemporary human impacts on alpine landscapes in the Sagarmatha (Mt. Everest) National Park, Khumbu, Nepal. *Annals of the Association of American Geographers* Vol. 95(1), March, 2005. pp.112-140.

Byers, A.C., 2004. Guidelines for sustainable mountain development. Paper prepared for the Center for Strategic and International Studies, Global Strategy Institute, Washington, D.C.

Byers, A.C. and Gifford, A. 2004. Mountain Adventures: increasing children's awareness of the importance of native plants through an online curriculum. *Children, Youth and Environments* Vol. 13, No. 2 (<http://cye.colorado.edu/FieldReports/MountainAdventures.htm>)

Byers, A.C. 2003. Review of: Nepal, S.K., Kohler, T., and Banzhaf, B.R. 2002. Great Himalaya: Tourism and the Dynamics of Change in Nepal. In: *Mountain Research and Development* 23 (4): 394-395. November, 2003.

Byers, A.C. 2003. The Mountain Institute. In: *The American Alpine Journal* 77, Vol. 45, 431-432.

Byers, A.C. 2003. Blister Swamp: Wetland Conservation on Private Land. *Wonderful West Virginia*, August, 2003.

Byers, A.C. 2003. Landscape Change in the Mt. Everest National Park, Nepal. In: Sherpa, A.R. (ed.) 2003. Triumph on Everest: A Tribute from the Sherpas of Nepal. Kathmandu: Mandala Press.

- Byers, A.C. and the National Gardening Association 2003. Mountain Adventures: Exploring the Himalaya, Andes, and Appalachians. Web-based secondary mountain studies curricula at <http://www.kidsgardening.com/ambassador/>
- Byers, A.C. 2000. Landscape change in the Cordillera Blanca, Huascarán National Park, Huaraz, Peru. *Mountain Research and Development* (20)1.
- Byers, A.C. 2000. Efforts to Protect Biodiversity and Promote Sustainable Forestry in the Appalachian Mountains: An Interview with West Virginian Landowner John Dalen. *Mountain Research and Development* (20)3:232-235.
- Byers, A.C., Gilligan, N., Golston, S., and Linville, R. 1999. Mountains: A Global Resource. Special supplement to *Social Education* Volume 63, Number 5, September 1999.
- Byers, A.C. 1999. Cambios en el paisaje contemporáneo del Parque Nacional Huascarán y su zona de amortiguamiento, Cordillera Blanca, Peru. Instituto de Montana, Programa Andino, Serie Documentos de Trabajo No. 99-1. Huaraz, Perú, 1999.
- Byers, A.C. 1997. Landscape change in the Sagarmatha (Mt. Everest) National Park, Nepal. *Himalayan Research Bulletin* XVII, No. 2, Special Issue: SoluKhumbu and the Sherpa.
- Byers, A.C. 1996. Historical and contemporary human disturbance in the upper Barun valley, Makalu-Barun National Park and Conservation Area, east Nepal. *Mountain Research and Development* 16(3): 235-247.
- Byers, A.C., Poudel, N., and Sharma, B.K. 1993. Makalu-Barun National Park and Conservation Area 1993-1994 Plan of Operation. Kathmandu: Makalu-Barun Conservation Project.
- Byers, A.C. and Banskota 1992. Impacts of backcountry tourism on three sides of Everest. In: Thorsell, J. (ed.) 1992. World Heritage Twenty Years Later. Gland and Cambridge: IUCN. Also published in Hamilton et al. (eds.) 1993, Proceedings of the Parks, Peaks and People Consultation, East-West Center, Honolulu, Hawaii.
- Taylor-Ide, D.; Byers, A.; and Campbell, J.G. 1992. "Mountains, nations, parks and conservation: a case study of the Mt. Everest area." *GeoJournal* 27(1): 105-112.
- Byers, A. 1991. "Soil loss and sediment transport during the storms and landslides of May 1988 in Ruhengeri Prefecture, Rwanda." *Natural Hazards*.
- Byers, A. and Hastings, B. 1991. "Mountain gorilla mortality and climatic factors in the Parc National des Volcans, Ruhengeri Prefecture, Rwanda, 1988." *Mountain Research and Development* 11 (2):127-144.
- Staver, C.; Byers, A.; and Ravelo, A. 1991. "Refining soil conservation strategies in the mountain environment--the climatic factor: an Ecuadorian case study." *Mountain Research and Development* 11(2): 127-144.

Byers, A. and Sherpa, L. Review of: Fisher, J. 1990. Sherpas: Reflections on Change in Himalayan Nepal. *Mountain Research and Development* 11(2), May 1991.

Byers, A. 1990. "Preliminary results of the RRAM Project soil loss and erosion trials, Rwanda, 1987-1988." In: *Proceedings: International Symposium on Research Needs and Applications to Reduce Erosion and Sedimentation in Tropical Steeplands*. Sura, Fiji, 11-15 June 1990. International Association of Hydrological Sciences, Publication No. 192.

Byers, A. 1990. "Landscape change and process assessment: examples from Nepal and Rwanda. In: *Proceedings: Planning for Sustainable Watershed Management: Environmental & Institutional Assessments*. Washington: U.S. Agency for International Development, 26-27.

Byers, A. 1990 (Technical and Contributing Editor). The Makalu-Barun National Park and Conservation Area Management Plan. Kathmandu: Makalu-Barun Conservation Project.

Byers, A. 1989. Erosion processes in tropical watersheds: a preliminary assessment of measurement methods, action strategies, and information availability in the Dominican Republic, Ecuador, and Honduras. AID/DESFIL, Washington, D.C.

Byers, A. 1987a. An assessment of landscape change in the Khumbu region of Nepal using repeat photography. *Mountain Research and Development* 7(1):77-81.

Byers, A. 1987b. A Geocological Study of Landscape Change and Man-accelerated Soil Loss: The Case of the Sagarmatha (Mt. Everest) National Park, Khumbu, Nepal. Ph.D. thesis, Department of Geography, University of Colorado, Boulder, Colorado. 354 pp.

Byers, A. 1987c. Landscape change and man-accelerated soil loss: the case of the Sagarmatha (Mt. Everest) National Park, Khumbu, Nepal. *Mountain Research and Development* 7(3): 209-216.

Byers, A. 1987. Peaks and people of the Jade Dragon Snow Mountains. *Climbing*. Aspen, Colorado.

Byers, A. 1987. A geomorphic study of man-induced soil erosion in the Sagarmatha (Mt. Everest) National Park, Khumbu, Nepal: preliminary notes concerning facts, myths, and management strategies in a High Himalayan Inner Valley ecosystem. Working Paper, Environment and Policy Institute, East-West Center, Hawaii. 53 pp.

Byers, A. 1985. Resource management in the arid Himalaya: problems and prospective solutions. *Contributions to Nepalese Studies* 13(3): 107-136.

Byers, A. 1984. Climbing Nepal's trekking peaks. Climbing. Aspen, Colorado. Winter.

Byers, A. 1982. Treks on the Kathmandu Valley Rim. Sahayogi Press, Kathmandu, Nepal.

Byers, A. 1979. The changing ecology of Nepal's arid zone: the example of Muktinath. Discussion Paper. Department of Geography, Syracuse University, Syracuse, New York.

Byers, A. 1978. "Preliminary notes on wood supply in Muktinath." *Nepal Nature Conservation Society Annual*. Kathmandu, Nepal.

Other Qualifications: Media and Outreach

Senior Technical Advisor to 6 different climate change videos (2010 to present) produced by Skyship films (www.skyshipfilms.com) and Nova Media (www.productionsnovamedia.com)

Since 2008, repeat photographs of the Mt. Everest region, Nepal, and Cordillera Blanca, Peru have appeared in over 100 press releases, books, articles, and peer reviewed publications; major international photo exhibits (see below), two full length documentaries and four short videos on climate change.

Byers, A.C. and the International Centre for Integrated Mountain Development (ICIMOD) 2008-2009. "Himalaya—Changing Landscapes." Photographic display of contemporary changes in the climate, landscapes, and cultures of the Mt. Everest region based on Byers' replication of photographs taken by the early climber/scientists to the region. A 14 panel version was displayed in the Everest basecamp in April-May 2008, followed by an oversize exhibit currently on tour in Europe (Stockholm, Barcelona, Madrid, Bern) and Asia (Kathmandu, Nepal)(www.changing-landscapes.com).

Byers, A.C., National Gardening Association, and U.S. Botanic Gardens 2003. "Plants, People, and Biodiversity Conservation". Photographic and artifact exhibit at the U.S. Botanic Gardens, Washington, DC, June-August 2003, on the medicinal, food, and utilitarian uses of plants in the Appalachians, Himalaya, and Andes.

Byers, A.C. and Klatzel, F. 2001. "A Celebration of the People and Landscapes of Sagarmatha (Mt. Everest) National Park, Khumbu, Nepal". Photographic Exhibit. Funded by the Banff Centre for Mountain Culture (CMC) and Italian Ev-K2-CNR Project, Bergamo, Italy. On permanent display in the Sagarmatha (Mt. Everest) National Park Visitor Center, Khumbu, Nepal.

Other Qualifications: Honors and Awards

Honorary Member, Nepal Geographical Society, April 2018.

Rolex Award for Enterprise Finalist, Geneva, Switzerland, April 2016.

Fulbright Specialist, Tribhuvan University, Central Department of Environmental Science, February-March 2016.

Career highlights and research featured in Ives, J.D. 2013. Sustainable Mountain Development. Kathmandu: Jagadamba Press.

Hongu glacial lake NGS Weekend interview (2010) featured in National Geographic Learning for a higher-ed environmental science course, August 2012.

Personal profile featured in new NGS book, "Geology and the Environment," July 2012.

Keynote speaker at the May 6 2012 NGS Everest Gala Speakers Series.

Featured as NGS “Explorer of the Week” December 2012

<http://newswatch.nationalgeographic.com/2012/12/10/explorer-of-the-week-alton-byers/>

Invited Speaker, National Geographic Society's Explorers Symposium, Washington, DC, 7-12 June 2010.

Visiting Scientist, International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal, 2007-2008.

Sir Edmund Hillary Mountain Legacy Medal, Presented by Peter Hillary, University House, Melbourne, Australia, March 2007.

David Brower Award for Conservation, American Alpine Club, February 2006.

Nominee and finalist, Cyrus R. Vance Award for International Education in West Virginia, Charleston, West Virginia, 17 November, 2004.

Finalist, 2004 National Wetlands Awards Program, Washington, D.C., May, 2004.

Distinguished Career Award, Association of American Geographers, Mountain Geography Specialty Group, Philadelphia, Pennsylvania, March, 2004.

Nominee and finalist, Rolex Awards for Enterprise, May 2002.

Ecosystem Stewardship Award for the Blister Swamp Conservation and Restoration Project, The Nature Conservancy, West Virginia Chapter, May 2000.

NDFL Foreign Language and Areas Studies Fellowship, Syracuse University, Syracuse, New York, 1977-79.

Other Qualifications: Fundraising and Grant Management (last 8 years only)

U.S. Agency for International Development (USAID), “An assessment of post-earthquake impacts on Imja, Tsho Rolpa, and Thulagi glacial lakes, Nepal.” May-August 2015. \$50,000.00.

National Geographic Society Conservation Trust, “Contemporary impacts of *yarsugumba* (“caterpillar fungus”) harvesting on alpine ecosystems and wildlife populations in highland Nepal.” \$19,500.00. March 2015.

National Science Foundation, “Science-driven, community-based approaches to reducing glacial lake outburst flood risk in the Nepal Himalayas.” June 2015. \$1.5 million (2015-2017). Principal author and Co-PI.

National Geographic Society Conservation Trust, “Contemporary Human Impacts on Alpine Ecosystems of the Barun Valley, Makalu-Barun National Park, Nepal, \$20,000.00, July-August 2013.

U.S. Agency for International Development, "High Mountain Glacial Watershed Program," \$2.4 million (March 2012-December 2014).

National Science Foundation, \$75,000.00, "The Andean-Asian Glacial Lake Workshop and Expedition, Sagarmatha (Everest) National Park, Nepal, 1-30 September, 2011."

National Geographic Society-Blackstone Challenge Grant, \$50,000.00, January 2011. "Protecting and Restoring the World's Alpine Ecosystems through NGS Explorer Collaboration and Exchange: The Role of Awareness Building, Improved Conservation Practices, and High Altitude Alternative Energy Development." Washington, DC.

U.S. Japan Foundation, \$80,000.00, "Mt. Fuji-Mt. Rainier Sister Mountain and Teacher Exchange Program," November 2009.

National Geographic Society-Waite Grants Program, \$15,000.00, "The Threat from Above: A Reconnaissance of New and Dangerous Glacial Lakes in the Mt. Everest and Makalu-Barun National Parks, Nepal," August 2009. (Co-financing of \$45,000.00 raised from Hokkaido University and International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal).

USAID Development Grants Program, \$1.2 million, "From the Glaciers to the Coast: Building Climate Change Awareness and Resilience in the Ancash and Piura Watersheds of Northern Peru," July 2009.

National Science Foundation, \$70,000.00, "Adapting to a World without Glaciers" workshop, 7-15 July 2009, Lima and Huaraz, Peru.

UNDP Small Grants Programme, \$50,000.00, "Everest Alpine Conservation Committee Capacity Building II," Kathmandu, Nepal, November 2008.

U.S.-Japan Foundation, \$80,000.00, "Mt. Fuji-Mt. Rainier Sister Mountain and Teacher Exchange Program," October 2008 (in partnership with Mount Rainier National Park).

National Geographic Society Conservation Trust, \$19,040.00, "Conservation and restoration of alpine ecosystems in the Hinku Khola valley, Makalu-Barun National Park, Nepal," September 2007.

Argosy Foundation, \$150,000.00, "The Alpine Conservation Partnership," January 2007 (in partnership with the American Alpine Club).

U.S. Agency for International Development, \$99,099.00, "Strengthening NGO Service Delivery Capacities in Conflict-Affected Areas (Nepal) and Private Sector and Local Community Relationships: the Role of PVOs and Local NGOs in Promoting Democracy, Conservation, and Sustainability (Peru)." USAID FY 2005 Research Options for DCHA/PVC-ASHA, August 2005.

UNDP Small Grants Programme, \$50,000.00, "Everest Alpine Conservation Committee Capacity Building I," Kathmandu, Nepal, September 2005.

National Geographic Society Conservation Trust, \$19,505.00, "Community-Based Conservation and Restoration of the Mt. Everest Alpine Zone," May 2004.

National Forest Foundation, \$15,000.00, "Appalachian Highlands Invasive Species Project," May 2004.

NiSource Environmental Challenge Grants, \$5,000.00, "Appalachian Highlands Invasive Species Project," May 2004.

No Child Left Behind, January 2003, \$20,000.00, "Exploring Our Living Mountain Laboratory: Environmental Sciences for West Virginia Teachers."

American Alpine Club, May 2003, \$21,000.00, first-year funding for "Community-Based Conservation of the Mt. Everest Alpine Zone."

National Forest Foundation, May 2003, \$10,000.00, "Blister Swamp Conservation and Restoration Project, Phase II."

USAID Matching Grant Program, June 2002, \$3 million (2002-2007), "Building Sustainable Livelihoods in Uncertain Times" (Nepal, Peru, Headquarters).

Grosvenor Grants Program, National Geographic Society, November, 2002, \$69,000.00, "Exploring our Living Mountain Laboratory."

Contract awarded from the University of California Press, September, 2001 to co-direct the editing and re-writing of a new mountain geography textbook (undergraduate level), in partnership with and based on the 1981 book by Dr. Larry Price, Mountains and Man; \$12,000.00 in support costs from Environmental Systems Research Institute (ESRI)

USAID Development Education Program, \$290,000, "Enhancing Local-Global Linkages through Plants, People, and Biodiversity Protection," March 2001, in partnership with the National Gardening Association.

National Geographic Society, \$19,505, "Human and cattle impacts on the Khumbu (Mt. Everest) alpine," September 2000.

USDA, \$300,000.00, "Rural mountain community asset building program (RUMCAB)," December 2000, in partnership with the Lightstone Foundation, Moyers, West Virginia.

Eisenhower Professional Development Program, \$20,000, "Using our Mountain Resources: Environmental Sciences in West Virginia, Phase II", October 2000.

Other Qualifications: Professional Affiliations

Panelist, National Academy of Sciences Partnership for Enhanced Engagement in Research (PEER)

program

Member, American Alpine Club Conservation Committee, Golden, Colorado

Advisory Board Member, Mountain Geography Specialty Group of the Association of American Geographers

Member, The Explorers Club

Member, American Alpine Club

Member, Association of American Geographers

Member, International Mountain Society

Founding member, the Mountain Forum

Other Qualifications: Public Presentations

- Featured Speaker, "Post-earthquake impacts on four glacial lakes in the Nepal Himalaya," Glaciers Forum, Huaraz, Peru August 10-13 2016.
- Featured Speaker, "Post-earthquake impacts on four glacial lakes in the Nepal Himalaya," U.S. Agency for International Development/Nepal, August 2015.
- Featured Speaker, Nepal Entrepreneur's Organization, "Beyond Mountaineering: 40 Years of Protecting Ecosystems, Reducing Hazard Risk, and Building Community Capacity in High Mountain Glaciated Landscapes," February 2015, Kathmandu, Nepal
- Featured Speaker, US Agency for International Development Climate Change Adaptation Group, "An Introduction to the High Mountains Adaptation Partnership Program, January 2014
- Regular lecturer in the Department of Environmental Science at Tribhuvan University, Kathmandu, Nepal
- Featured Speaker, Nepal Risk Reduction Council, "Glacial Lakes and Glacial Lake Outburst Floods," December 2013
- Featured Speaker, USAID/ Nepal, "An Introduction to the High Mountains Adaptation Partnership Program, December 2013
- Featured Speaker, USAID/Nepal, "Glacial Lakes and Glacial Lake Outburst Floods," December 2013
- Keynote speaker, "The Call of Everest," National Geographic Society Explorers Hall, 6 May 2013.
- Featured Speaker, "Climate Change and the World's Glaciers," U.S. Department of State, January 2012
- Byers, A.C., "The High Mountain Glacial Watershed Program," UNDP/Bhutan, December 2012
- Byers, A.C., "Recent Results from Imja Glacial Lake," UNDP/Nepal, Kathmandu, Nepal, October 2012
- Byers, A.C., "Applications of Mountain Research," International Symposium on "Changing Mountain Environments in Asia," Hokkaido-Tribhuvan University mountain workshop, Kathmandu, Nepal, October 2012
- Byers, A.C., "The High Mountain Glacial Watershed Program," U.S. Foreign Service Institute, Washington, DC, April 2012
- Byers, A.C., "Climate Change and the World's Glaciers," U.S. Department of State, January 2012
- Featured Speaker, "The 2011 Andean-Asian Glacial Lake Expedition, Khumbu, Nepal," Woodrow Wilson Center, Washington, DC
- Featured Speaker, "The Next Big Idea: Andean-Himalayan Collaboration to Control Dangerous

New Glacial Lakes in Nepal." National Geographic Society Explorers Symposium, 7-11 June, 2010, Washington, DC

- Featured Speaker, "The Threat from Above: Review of the October-November 2009 Glacial Lake Expedition, Makalu-Barun National Park, Nepal," 9 December 2009, National Geographic Society, Washington, DC
- Featured Speaker, "Adapting to a World without Glaciers," 5 January 2010, National Science Foundation, Washington, DC
- Featured Speaker, "Adapting to a World without Glaciers" workshop, 7-15 July 2009, Lima and Huaraz, Peru
- Keynote Speaker, The Cosmos Club, 23 October, 2008
- Featured Speaker, U.S. Agency for International Development, Climate Change Program, Washington, DC, 18 September 2008
- Keynote Speaker, The World Bank and UNDP, Kathmandu, Nepal, 14 May 2008
- Featured Speaker, Telluride MountainFilm Festival, 24 May, 2008
- On-going European climate change photographic exhibit of the Everest region currently on tour in Europe and Asia (see: www.changing-landscapes.com)
- Keynote Speaker, The American Alpine Club, Golden, Colorado, 22 February, 2008
- Keynote Speaker, 150th Anniversary of the Alpine Club, London, UK, 4 December, 2007
- Keynote Speaker, The Bruce Museum, Greenwich, CT, 13 September, 2007