

DOUGLAS L. KANE
Biographical Sketch

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EDUCATION:

1966 B.S. Civil Engineering (Univ. of Wisconsin)
1968 M.S. Civil Engineering, Water Resources Management (Univ. of Wisconsin)
1975 Ph.D. Civil Engineering (Univ. of Minnesota)

PROFESSIONAL EXPERIENCE:

2001-2005 Director, Institute of Northern Engineering
1999-2001 Acting Director of Institute of Northern Engineering
1997-1999 Associate Director of Institute of Northern Engineering
1989-present Director of Water and Environmental Research Center and Professor of Water Resources and Civil Engineering;
1986-1989 Professor of Water Resources and Civil Engineering;
1981-1986 Associate Professor of Water Resources;
1975-1982 Assistant Professor of Water Resources;
1973-present Professional Engineer, State of Alaska;
1971-1975 Research Hydrologist; American Institute of Hydrology
1970-1971 Teaching Associate, University of Minnesota;
1966-1970 Civil Engineer.

PROFESSIONAL ORGANIZATIONS:

American Society of Civil Engineers, American Geophysical Union, American Water Resources Association (Fellow AWRA), Arctic Institute of North America, American Institute of Hydrology (Professional Hydrologist), Phi Kappa Phi and Chi Epsilon (Honor Societies), Professional Engineer (State of Alaska).

RESEARCH INTERESTS:

Groundwater hydrology, snow hydrology, hydraulics, water resources engineering, cold regions hydrology, fish hydraulics, heat transfer, climate change.

REFEREED PUBLICATIONS:

McNamara, J.P. and D.L. Kane (2009), The Impact of Shrinking Cryosphere on the Form of Arctic Alluvial Channels. *Hydrological Processes*, 23:159-168.

Ye, B., D. Yang, Z. Zhang, and D. L. Kane (2009), Variation of Hydrological Regime with Permafrost Coverage over Lena Basin in Siberia, *J. Geophys. Res.*, 114, D07102, doi:10.1029/2008JD010537.

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Millennium. *Permafrost and Periglacial Processes*, 19(2):237-254.

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McNamara, J.P., J.A. Oatley, L.D. Hinzman and D.L. Kane. 2008. Case Study of a Large Summer Flood on the North Slope of Alaska: Bedload Transport. *Hydrology Research*, 38(4):299-308.

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Yoshikawa, K., D. L. Kane and L. D. Hinzman. 2007. Spring and Aufeis (Icing) Hydrology in Brooks Range. *Journal of Geophysical Research-Biosciences*, 112, G04S43, doi:10.1029/2006JG000294.

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- Kane, D.L., L.D. Hinzman and J.P. Zarling. 1991. Thermal Response of the Active Layer in a Permafrost Environment to Climatic Warming. *Cold Regions Science and Technology*, 19:111-122.
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Miscellaneous Activities

Chairman, Ninth International Conference on Permafrost, International Permafrost Association, Fairbanks, AK, June/July 2008.

Technical Program Chair, AWRA Specialty Conference, Water Resources in Extreme Environments, Anchorage, AK, May, 2000.

Chairman, Northern Research Basins: Eleventh International Symposium and Workshop, Prudhoe Bay/Fairbanks, AK, August, 1997.

Technical Chairman, AWRA, Symposium: Cold Regions Hydrology, Fairbanks, AK, July, 1986.

Past President, U. S. Permafrost Association (USPA), 2002.

Member, National Research Council, National Academy of Sciences, Committee on Permafrost, Polar Research Board, 1981-1983.

Member, National Research Council, National Academy of Sciences, Committee on Permafrost, Ad Hoc Study Group on Ice Segregation and Frost Heaving, Polar Research Board, 1982-1984.

Member, National Research Council, Committee on Characterization of Wetlands, 1993-1995.

Assisted in numerous journal publications (including ASCE, AGU and AWRA); guest editor for “Nordic Hydrology,” “Permafrost and Periglacial Processes” and “Journal of Geophysical Research;” organized sessions at numerous national and international meetings; associate editor for ASCE “Cold Regions Engineering” Journal and “Cold Regions Science and Technology;” and reviewed numerous publications (reports, journal articles, proposals, etc.) at all levels.