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Appointments

2012 to present – Assistant Professor at the Department of Civil and Environmental Engineering and the Water and Environmental Research Center, College of Engineering and Mines, University of Alaska Fairbanks, Alaska, USA
2005 to 2011 – Assistant Research Professor at the Water and Environmental Research Center, Institute of Northern Engineering, University of Alaska Fairbanks, Alaska, USA
2003 – 2005 – Post Doctoral Research Fellow at the Water and Environmental Research Center, University of Alaska Fairbanks, Alaska, USA
1998 – Research Associate at the Arctic and Antarctic Research Institute, Department of oceanography, St. Petersburg, Russia

Education

Ph.D. Land Hydrology and Water Resources, Russian State Hydrometeorological University, St. Petersburg, Russia, 2003
Ph.D. student within the frame of the Russian Federation Presidential Award, GEOMAR Research Center for Marine Geosciences, Kiel, Germany, 2001
M.S. Hydrologic Engineering, diploma with honors Russian State Hydrometeorological University, St.Petersburg, Russia, 1999

Academic Teaching

Arctic Hydrology and Hydraulic Engineering, CE F683 (UAF)
Advanced Water Resources Engineering, CE F661 (UAF)
Water Resources Engineering, CE F344 (UAF)
Fluid Mechanics, ES F341 (UAF)

Other Teaching Activity

Lecturer at the 1st European Snow Science Winter School, February 2015, Sodankylä, Finland

Professional Development

ASCE Excellence in Civil Engineering Education Teaching Workshop, June 22-27, 2014
FHWA Urban Drainage Design Training, October 7-9, 2014
iTeach hands-on workshop offered by the Instructional Design Team at UAF eLearning, May 19-23, 2014
NSF Science: Becoming the Messenger, Communication Skill-building Workshop, July 17-18, 2013.
HEC USACE Risk Analysis for Flood Risk Management Training, May 7-11, 2012

Professional Societies

American Society of Civil Engineers ASCE
American Water Resources Association, AK section

Research expertise

Cold region hydrology and water resources

Thesis Committee

* denotes graduated students

Chair: Alexa Hinzman (MS Civil Engineering), Michael Winfree (MS Interdisciplinary Study, Hydrology)

Committee member: Brett Wells (MS Civil Engineering), Tim Tschetter (MS Civil Engineering), Levi Overbeck* (MS Civil Engineering), Erica Lamb* (MS Interdisciplinary Study, Hydrology), Erica Lamb (PhD Interdisciplinary Study, hydrology), Tim Dietrich* (MS Civil Engineering), Anna Liljedahl* (PhD Interdisciplinary Study, Hydrology), Jayashree Narayanan* (MS Computer Science)

Peer-Reviewed Journal Articles

Stuefer S.L. and D.L. Kane, 2016. Snow retention for increased water supply of shallow arctic lakes, *Cold Regions Science and Technology*, Vol. 123, p. 32–43.

Bring A., Fedorova I., Dibike Y., Hinzman L., Karlsson J., Merlind S., Prowse T., Semenova O., **Stuefer S.**, and M.I. Woo, 2016. Arctic terrestrial hydrology: A synthesis of processes, regional effects and research challenges, *Journal of Geophysical Research*, 121, doi:10.1002/2015JG003131

Ding Y., Zhang S., Liu F., Yang D., He C., and **S. Stuefer**, 2016. Hydrometeorological observation and study in high altitude area, *Advances in Meteorology*, vol. 2016, p. 2, 2016, doi:10.1155/2016/1372464

Kane D.L. and **S.L. Stuefer**, 2015. Reflecting on the status of precipitation data collection in Alaska. *Hydrology Research*, Vol. 46, No. 4, p. 478-493.

Stuefer, S.L., D.L. Kane, and G.Liston, 2013. In situ snow water equivalent observations in the U.S. Arctic. *Hydrology Research*, Vol. 44, No. 1, p. 21-34.

Sturm, M. and **S.L. Stuefer**, 2013. Windblown flux rates derived from drifts at Arctic snow fences. *Journal of Glaciology*, vol. 59, no. 213, p. 21-34.

Stuefer, S.L., D.Yang and A.Shiklomanov, 2011. Effect of streamflow regulation on mean annual discharge variability of the Yenisei River. In *Cold Regions Hydrology in a Changing Climate*, editors D. Yang, P. Marsh, and A. Gelfan, IAHS publication 346, p.27-32.

Liston, G.E, R.B. Haehnel, M. Sturm, C.A. Hiemstra, **S. Berezovskaya** and R. Tabler, 2007. Simulating Complex Snow Distributions in Windy Environments using SnowTran-3D, *Journal of Glaciology*, Vol. 53, No. 181, p.241-256.

Sergueev, D.O., G.S. Tipenko, V.E. Romanovsky, N.N. Romanovsky and **S.L. Berezovskaya**, 2005. The influence of mountain topography and of vertical geocryological zonality on the permafrost thickness evolution in Southern Yakutia. *Earth Cryosphere*, Vol. IX, № 2, p. 33-42.

Berezovskaya S.L., D. Yang and L. Hinzman, 2005. Long-term annual water balance analysis of the Lena River. *Global and Planetary Change*, 48, 1-3, p. 84-95.

Lui*, B., Yang, D., Ye, B., **Berezovskaya, S.**, 2005. Long-term open-water season stream temperature variations and changes over Lena River basin in Siberia. *Global and Planetary Change*, 48, 1-3.

Berezovskaya, S.L., D. Yang and D. Kane, 2004. Compatibility of precipitation and runoff trends over the large Siberian watersheds, *Geophys. Res. Lett.*, 31, L21502, doi:10.1029/2004GL021277.

Berezovskaya S.L., Dmitrenko I.A., Kirillov S.A., Gribanov V.A., Kassens H, 2002. River water propagation on the Laptev Sea shelf under the different atmospheric circulation. *Doklady Earth Science*, MAIK Nauka, 386 (1).

Peer-reviewed Atlas

* denotes graduate student

Perica, S., Kane, D., Dietz, S., Maitaria, K., Martin, D., Pavlovic, S., Roy, I., **Stuefer, S.**, Tidwell, A., Trypaluk, C., Unruh, D., Yekta, M., Betts*, E., Bonnin, G., Heim, S., Hiner, L., Lilly, E., Narayanan*, J., Yan, F., Zhao, T., 2012. Precipitation-Frequency Atlas of the United States, NOAA Atlas 14, volume 7, Version 2.0: Alaska

Articles in conference proceedings

* denotes graduate student, ** denotes undergraduate student

Stuefer S.L., 2013. Preface: 19th International Northern Research Basins Symposium and Workshop, South-central Alaska, August 11-17, 2013.

Kane, D.L., and **Stuefer, S.L.**, 2013. Challenges of Precipitation Data Collection in Alaska, 19th International Northern Research Basins Symposium and Workshop, South-central Alaska, August 11-17, 2013.

Bauret**, S., and **Stuefer, S.L.**, 2013. Kenai Peninsula Precipitation and Air Temperature Trend Analysis, 19th International Northern Research Basins Symposium and Workshop, South-central Alaska, August 11-17, 2013

Stuefer S., and M. Sturm, 2012. Quantifying snow transport using snow fences and sonic sensors, International Snow Science Workshop, Anchorage, Alaska, USA, September 16-21, 2012.

Stuefer S.L., 2011. Using snow fences to augment fresh water supplies in the Arctic Lakes, Arctic Technology Conference, Houston, Texas, February 5-7, 2011.

Berezovskaya S.L., 2009. Uncertainty in snow depth measurements. 17th International Northern Research Basins Symposium and Workshop Iqaluit-Pangnirtung-Kuujuaq, Canada, August 12 to 18, 2009.

Berezovskaya S.L., G.E. Liston and D.L. Kane, 2009. Upper Kuparuk River Snow Distributions for hydrological analysis in Arctic Alaska. AWRA 2009 spring specialty conference, Anchorage, Alaska, 4-6 May 2009.

Liljedahl* A., Hinzman L., Marchenko S., and **S. Berezovskaya**, 2008. The Effect of Spatially Distributed Snow Cover on Soil Temperatures: A Field and Modeling Study. Ninth International Conference on Permafrost, Fairbanks, Alaska, June 29 – July 3, 2008.

Berezovskaya S. and D.L. Kane, 2007. Measuring snow water equivalent for hydrological applications: part 1, accuracy of observations. 16th International Northern Research Basins Symposium and Workshop Petrozavodsk, Russia, 27 Aug. – 2 Sept. 2007.

Kane D.L. and **S. Berezovskaya**, 2007. Strategies for measuring snow water equivalent for hydrological application: part 2, spatial distribution at the watershed scale. 16th International Northern Research Basins Symposium and Workshop, 27 Aug. – 2 Sept. 2007, Petrozavodsk, Russia.

Berezovskaya S. and D.L.Kane, 2007. Representativeness of snow water equivalent measurements for hydrological applications on Alaska's Arctic Slope. Proceedings of 7th International Conference on Global Change: Connections to the Arctic, 19-20 February 2007, Fairbanks, Alaska, USA.

Extended abstracts in conference proceedings

Stuefer S.L., and D.L. Kane, 2016. Snowmelt water balance for a permafrost watershed: case study from Alaska Arctic, XI. International Conference on Permafrost.

Technical Reports

- Kane, D.L., Youcha, E.K., Stuefer, S.L., Myerchin-Tape, G., Lamb*, E., Homan*, J.W., Gieck, R.E., Schnabel, W.E., and H. Toniolo. 2014. Hydrology and Meteorology of the Central Alaskan Arctic: Data Collection and Analysis, Final Report. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 14.05, Fairbanks, Alaska, 168 pp.
- Stuefer, S.L., Homan* J.W., Kane, D.L., Gieck, R.E. and Youcha, E.K 2014. Snow Survey Results for the Central Alaskan Arctic, Arctic Circle to Arctic Ocean: Spring 2013. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 14.01, Fairbanks, Alaska, 96 pp.
- Stuefer, S.L., Homan* J.W., Kane, D.L., Gieck, R.E. and Youcha, E.K., 2014. Snow Survey Results for the Central Alaskan Arctic, Arctic Circle to Arctic Ocean: Spring 2013. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 14.01, Fairbanks, Alaska, 96 pp.
- Stuefer S.L., Kane D.L., 2013. Using snow fences to augment fresh water supplies in shallow arctic lakes. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 13.06, September 2013, Fairbanks, Alaska, USA, 32 pp.
- Stuefer, S.L., Homan* J.W., Youcha, E.K, Kane, D.L. and Gieck, R.E. 2012. Snow Survey Data for the Central North Slope Watersheds: Spring 2012. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 12.22, Fairbanks, Alaska, 38 pp.
- Kane, D.L., Youcha, E.K, Stuefer, S.L., Toniolo, H., Schnabel, W.E., Gieck, R.E., Myerchin-Tape, G., Homan*, J., Lamb*, E., and K. Tape. 2012. Meteorological and Hydrological Data and Analysis Report for the Foothills/Umiat Corridor and Bullen Projects: 2006-2011. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 12.01, Fairbanks, Alaska, 260 pp.
- Stuefer, S.L., Youcha, E.K, Homan* J.W., Kane, D.L. and Gieck, R.E. 2011. Snow Survey Data for the Central North Slope Watersheds: Spring 2011. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 11.02, Fairbanks, Alaska, 47 pp.
- Berezovskaya, S.L., Hilton, K.M., Derry, J.E., Youcha, E., Kane, D.L., Gieck, R.E., Homan J. and Lilly, M.R. 2010. Snow Survey Data for the Central North Slope Watersheds: Spring 2010. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 10.01, Fairbanks, Alaska, 50 pp.
- Berezovskaya, S.L., Derry, J.E., Kane, D.L., Gieck, R.E., and Lilly, M.R. 2010. Snow Survey Data for the Central North Slope Watersheds: Spring 2009. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 09.01, Fairbanks, Alaska, 45 pp.
- Kane, D., White, D., Lilly, M., Toniolo, H., Berezovskaya, S., Youcha, E., Derry, J., Gieck, R., Paetzold, R., Trochim, E., Remillard, M., Schnabel, B., Busey, R., and Holland, K., 2009. Meteorological and Hydrological Data and Analysis Mid-Term Report for Bullen Point and Foothills Projects: 2006-2008. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 08.18, Fairbanks, Alaska, 181 pp.
- Berezovskaya, S.L., Derry, J.E., Kane, D.L., Gieck, R.E., Lilly, M.R., and White, D.M., 2008. Snow survey data for the Kuparuk Foothills Hydrology Study: Spring 2008. University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 08.14, Fairbanks, Alaska, 40 pp.
- Berezovskaya, S.L., Derry, J.E., Kane, D.L., Lilly, M.R., and White, D.M., 2008. Snow survey data for the Sagavanirktok River / Bullen Point Hydrology Study: Spring 2008. June 2008,

- University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 08.15, Fairbanks, Alaska, 30 pp.
- Berezovskaya, S.L., Derry, J.E., Kane, D.L., Geick, R.E., Lilly, M.R., and White, D.M., 2007. Snow survey data for the Sagavanirktok River / Bullen Point Hydrology Study: Spring 2007. July 2007, University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 07.18, Fairbanks, Alaska, 17 pp.
- Berezovskaya, S.L., Derry, J.E., Kane, D.L., Geick, R.E., Lilly, M.R., and White, D.M., 2007. Snow survey data for the Kuparuk Foothills Hydrology Study: Spring 2007. July 2007, University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 07.17, Fairbanks, Alaska, 21 pp.
- Kane, D.L., Berezovskaya, S., Irving, K., Busey, R., Chambers, M., Blackburn, A.J., and Lilly, M.R., 2006. Snow survey data for the Sagavanirktok River / Bullen Point Hydrology Study: Spring 2006. July 2006, University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 06-03, Fairbanks, Alaska, 10 pp.
- Kane, D.L., Berezovskaya, S., Irving, K., Busey, R., Geick, R., Chambers, M., Blackburn, A.J., and Lilly, M.R., 2006. Snow survey data for the Kuparuk Foothills Hydrology Study: Spring 2006. July 2006, University of Alaska Fairbanks, Water and Environmental Research Center, Report INE/WERC 06-06, Fairbanks, Alaska, 12 pp.

Thesis

- Berezovskaya, S.L.: Long-term variability of the Lena River runoff and river waters propagation in the Laptev Sea shelf. Ph.D. thesis, Department of Land Hydrology, RSHU, St.Petersburg, Russia, December 2002 (accepted by Ministry of Education in March 2003)
- Berezovskaya, S.L.: The influence of the Lena River hydrological regime on biogenous elements outflow into the Laptev Sea. M.Sc. thesis, Department of Land Hydrology, RSHU, St.Petersburg, Russia, June 1999

Conference abstracts and presentations (2004 – 2016)

- Stuefer S.L., 2016. Snow transport control for the water supply, International Conference on Snow Engineering, Nantes, France, June 14-17, 2016.
- Stuefer S. and C. Arp, 2016. Terrestrial Environmental Observing Network (TEON) – the Kuparuk River, Alaska’s Arctic, USA, 3rd Arctic Observing Summit AOS 2016, Fairbanks AK, March 15-18, 2016.
- Hinzman A.***, Stuefer S., and C.Arp, 2016. Comparison of snowmelt hydrographs in five watersheds along the Dalton Highway on the North Slope of Alaska, 2016 AWRA Spring Specialty Conference, Anchorage AK, April 25-27, 2016.
- Wells B.***, Toniolo H., and S. Stuefer, 2015. Hydrologic modeling in the Kenai river watershed using event based calibration, Abstract H51N-1603, 2015 AGU Fall Meeting, San Francisco, California, 14-18 December 2015.
- Stuefer S.L., Liljedahl A., and D.L. Kane, 2015. Hydrologic Observations of Low-gradient Alaskan Arctic Watersheds, 20th International Northern research Basins Symposium and Workshop.
- Liljedahl A., Bhatt U., Hock R., Johnson C., Kane D., Stuefer S., Zhang J., 2014. Climate data needs for Alaska’s hydrologic studies. American Water Resources Association, Alaska Section, 2014 annual conference, October 22-24, 2014, Juneau, Alaska.
- Douglas T.A., Sturm M., Blum J.D., Sherman L., Stuefer S., Steffen A, 2013. Mercury and major ion export dynamics from a small Arctic Alaskan watershed during snowmelt. 11th International Conference on Mercury as a Global Pollutant, July 28th – August 2nd 2013, Edinburgh, Scotland.

- Sturm M., Hiemstra C., Larsen C., Liston G., Filhol S.*, Polashenski C., Stuefer S., 2012. First Results from Airborne and Ground-based LiDAR Studies in Northern Alaska, Abstract C31D-01, 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- Stuefer S., and M. Sturm, 2012. Quantifying snow transport using snow fences and sonic sensors, Western Snow Conference, Anchorage, May 21-23, 2012, oral presentation.
- Perica S., Kane D., and S. Stuefer, 2012. Updated precipitation-frequency atlas for Alaska, 2012 American Water Resources Association Annual Conference, March 5-7, 2012, Juneau, Alaska, oral presentation.
- Perica S., Kane D., and S. Stuefer, 2012. Updated precipitation-frequency atlas for Alaska, Alaska Climate Webinar, ACCAP – webinar.
- Stuefer S. and J. Bailey, 2012. Using snow fences to augment fresh water supplies in the Arctic lakes. 2012 American Water Resources Association Annual Conference, March 5-7, 2012, Juneau, Alaska, oral presentation.
- Stuefer S., M. Sturm, C. Hiemstra, A. Gelvin, 2011. Quantifying Snow Transport Using Snow Fences and Sonic Sensors. NRB18th, oral presentation.
- Stuefer S., 2011. Snow Management to Augment Fresh Water Supplies in the Arctic, Arctic Technology Conference, 7-9 February 2011, Houston, Texas, oral presentation.
- Berezovskaya S. and J. Bailey, 2011. Using snow fences to augment fresh water supplies in the Arctic lakes. AGU (C33C-0528), Fall Meet. Suppl., poster presentation.
- Hiemstra C. A., A. Gelvin, M. Sturm, S. Berezovskaya, S. Saari, 2010. Assessing Solid-State SWE Sensors in Windy Arctic Conditions View Pres. AGU (C33C-0526), Fall Meet. Suppl.
- Sturm M., S. Berezovskaya, C. Hiemstra, A. Gelvin, 2010. Quantifying Snow Transport Using Snow Fences and Sonic Sensors. View Pres. AGU (C33C-0527), Fall Meet. Suppl.
- Yang D., A. I. Shiklomanov and S. Berezovskaya, 2010. Snow Cover and Hydrology Changes over Large Siberian Watersheds. AGU (GC42B-03), Fall Meet. Suppl.
- Myerchin G. and S. Berezovskaya. Water Balance of One Control and One Snow-Manipulated Arctic Lake . AGUXX (H31F-1075), Fall Meet. Suppl., Abstract
- Bailey J., Berezovskaya S. and G. Myerchin, 2010. Lake-level change and water balance analysis of natural and man-made lakes on Alaska's North Slope, poster presentation at American Water Resources 2010 annual conference, Anchorage, AK, 31 March – 2 April 2010
- Bolton W., S. Berezovskaya and L. Hinzman. 2010. Simulation of the hydrologic response to snowmelt and summer precipitation events using a simple first-order, non-linear rainfall-runoff model in watersheds of varying permafrost coverage. Workshop on Cold Regions Hydrology, 28-30 April 2010, Innsbruck, Austria.
- Berezovskaya S., Myerchin G. and J. Bailey, 2010. Snow management to augment water on Alaska's North Slope. 2010 American Water Resources Association Annual Conference, Anchorage, Alaska, 31 March – 2 April, 2010. – oral presentation
- Berezovskaya S., R. Busey and D. Kane, 2009. Kuparuk River Snow Distributions for Hydrologic Analysis on Alaska's Arctic Slope. 2009 American Water Resources Association Spring Specialty Conference, Anchorage, Alaska, 4-6 May, 2009. – oral presentation.
- Hiemstra, C.A., M. Sturm, A. Gelvin, S. Berezovskaya, S. Saari, D.C. Finnegan, and G.E. Liston. 2009. High resolution Arctic snow observations: Snow-Net (Invited). Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract C21E-03.
- Liljedahl A.**, Hinzman L., Marchenko S., Berezovskaya S., 2008. Measurements and modeling of soil water distributions in time and space, Barrow, Alaska. Wildlife Response to Environmental Arctic Change (WildREACH): Predicting Future Habitats of Arctic Alaska, Workshop, 17–18 November 2008, Fairbanks, Alaska. (Poster)
- Douglas T.A., Prevost R.**, Sturm M., Blum J.D., Sherman L., Berezovskaya S. 2008. Major element and mercury snowmelt chemistry at an Alaskan Arctic coastal site. AGU, 86(52), Fall Meet. Suppl., Abstract C21C-1132

- Derry J., Lilly M., Kane D.L., Cherry J., Berezovskaya S., 2008. Snow-Depth Variability and Implications to Tundra Travel on the North Slope of Alaska, AGU, 86(52), Fall Meet. Suppl.
- Liljedahl A.**., Hinzman L., Berezovskaya S., Marchenko S., Liston G.E., Sturm M, 2008. Distribution of Active Layer Temperatures and Snow Cover across a Polygon, Barrow, Alaska. 2008 Arctic Science Conference, September 15-17, Fairbanks, Alaska.
- Sturm M., G. Liston, C. Hiemstra, D. Kane, D. Yang and S. Berezovskaya, 2008. IPY-SnowNet: a system for measuring arctic winter precipitation and snow cover (Snow-Net). Polar Research - Arctic and Antarctic Perspectives in the International Polar Year, July 8 - 11, 2008, St.Petersburg, Russia.
- Berezovskaya S., and D.L. Kane, 2008. Accuracy of snowpack measurements at watershed scale. American Water Resources Association: Alaska Section, Brown Bag seminar, 9 April 2008 Fairbanks, Alaska.
- Berezovskaya S., and D.L. Kane, 2008. Accuracy of snow water equivalent measurements at watershed scale. American Water Resources Association: Alaska Section, Juneau, Alaska, 28-31 January, 2008.
- Berezovskaya S., Liston G. and D.L. Kane, 2007. Snow cover distribution on Alaska's Arctic Slope: modeling under changing climate. IGS, Moscow, Russia, 3– 7 September 2007.
- Berezovskaya S., Liston G. and D.L. Kane, 2007. Determining Solid Precipitation on Alaska's Arctic Slope (AAS). 2007 American Water Resources Association Alaska Session 2007 Annual Meeting, 3rd April, Fairbanks, Alaska.
- Berezovskaya S. and D.L.Kane, 2007. Representativeness of snow water equivalent measurements for hydrological applications on Alaska's Arctic Slope. Proceedings of 7th International Conference on Global Change: Connections to the Arctic, 19-20 February 2007, Fairbanks, Alaska, USA.
- Berezovskaya S., G.E.Liston and D.L.Kane, 2006. Determining solid precipitation on Alaska's Arctic Slope. Eos Trans. AGU,87(52), Fall Meet. Suppl., Abstract C21C-1166
- Berezovskaya S. and D. Kane, 2005. Spatial snow cover distribution in Alaska. ICARP II meeting abstract, Copenhagen, Denmark, November 2005.
- Berezovskaya S, D L Kane, R Guritz**., 2005. Small-scale snow cover variability of a headwater arctic basin. Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract C21C-1132.
- Berezovskaya, S, Yang D., Kane D.L., 2005. Compatibility Analysis of Precipitation and Runoff Trends over the Large Siberian Watersheds. CLIC conference: Cryosphere - The "Frozen" Frontier of Climate Science: Theory, Observations, and Practical Applications, Beijing, China, April 11-15.
- Berezovskaya, S, Kane D.L., Hinzman, L.D., 2004. Snowmelt Hydrology of a Headwater Arctic Basin Revisited, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract C41A-0195.

Funded Research Grants

- Chris Arp (PI), Sveta Stuefer, 2015-2020. Hydroclimate Monitoring, terrestrial Environmental Observation Network (TEON) - Arctic Landscape Conservation Cooperative (\$1,014,798)
- Sveta Stuefer (PI), 2012–2013. Long-term precipitation dataset development for the northern regions (Environment Canada, \$24,000)
- Douglas Kane (PI), Willam Schnabel, Horacio Toniolo, Sveta Stuefer, 2012-2015. Meteorological and Hydrological Monitoring and Analysis Program for Ambler Mining District Access (\$2,008,040)
- Douglas Kane (PI), Willam Schanbel, Horacio Toniolo, Sveta Stuefer, 2010-2014. Surface-water Flow Monitoring and Analysis Program for the ADOT&PF North Slope Umiat Corridor: Phase 2, Phase 3 and Phase (\$2,490,104)
- Sveta Berezovskaya (PI), Douglas Kane, 2008–2013. Using Artificial Barriers to Augment Fresh Water Supplies in Shallow Arctic Lakes (Department of Energy funding, \$ 644,621)

Douglas Kane (PI), Amy Tidwell, Sveta Berezovskaya, 2008–2012. Updated Precipitation Frequency Analysis for the State of Alaska (State Agency Funding, \$439,434)

Matthew Sturm (PI), Glen Liston, Chris Hiemstra, Sveta Berezovskaya, Douglas Kane, Daqing Yang, 2008–2013. IPY Collaborative Research: A Prototype Network for Measuring Arctic Winter Precipitation and Snow Cover (Snow-Net) (National Science Foundation funding, \$ 537,565)

Daqing Yang (PI), Sveta Berezovskaya, Horacio Tonilio, Alexander Shiklomanov, Richard Lammers, 2006 – 2009. Collaborative Research: Study of Dam/Reservoir-induced Hydrologic Changes in Siberian Regions (National Science Foundation funding, \$ 425,802)

Daniel White (PI), Douglas Kane, Sveta Berezovskaya, Horacio Toniolo, 2006–2009. Hydrologic Analysis and Support for the Alaska Department of Transportation and Public Facilities North Slope Foothills Project (State Agency funding, \$ 2,521,733)

Douglas Kane (PI), Daniel White, Sveta Berezovskaya, Horacio Toniolo, 2006–2009. Surface-Water Data Collection for the Alaska Department of Transportation and Public Facilities North Slope (State Agency funding, \$ 1,727,947)

Synergetic Activities and Service

Reviewer

Journal Articles: Geophysical Research Letters, Journal of Geophysical Research, Journal of Climate, Hydrological Processes, Atmosphere-Ocean, Hydrological Sciences, Journal of Hydrology, Cryosphere

Proposals: National Science Foundation, Global Change Student Research Grant Competition
Conference abstracts and articles: American Water Resources Association Conference, Alaska section

Books: The cold regions volume of UNESCO web encyclopedia; Handbook of Applied Hydrology, McGraw-Hill

Professional Service

UAF representative, The Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI), 2013–present

U.S. Chief Delegate, Northern Research Basins Symposium and Workshop, 2011–present
Northern Director, Alaska Section AWRA (<http://state.awra.org/alaska/>), 2009-2012

Chair of the Organizing Committee for the 19th International Northern Research Basins Symposium and Workshop, South-central Alaska, August 11-17th, 2013 (www.19thnrb.com)

University Service

Committee member of CEM Scholarship Committee

Committee member of CEM Curriculum Review Committee

Graduate school outside reviewer

Development of CEE graduate and undergraduate curriculum

Committee on development of M.S. degree in Water and Environmental Science

Awards

- INE award in recognition of success in service contributions and research program 2014
- Recognition award for the second best talk at the Western Snow Conference, Anchorage, 2012
- Institute of Northern Engineering INE travel award for the Northern Research Basins Symposium in 2009, 2011

- National Oceanic and Atmospheric Administration NOAA travel award for the CLiC first science conference in Beijing, China, 2005
- International Association for the Physical Sciences of the Oceans IAPSO travel award for International Union of Geodesy and Geophysics (IUGG) conference in Sapporo, Japan, 2003
- Fellowship from the Russian-German Otto Schmidt Laboratory for Polar and Marine Research, funded by the German Ministry for Education and Research, 2002
- Russian Federation Presidential Fellowship to conduct one-year research abroad, 2000–2001
- Outstanding Student Award from the Governor of Saint-Petersburg, Russia, 1997

Languages

Russian (native), English (fluent), German (basic)

Field experience

- U.S. Arctic, Kuparuk River snow surveys, 2004-2016. Snow depth and snow water equivalent measurements; <http://www.uaf.edu/water>
- U.S. Arctic, Cold Land Processes Experiment II field campaign, 25-31 January, 2007, Colorado, USA and November 26th – December 4th, 2007, Alaska, USA. Ground based snow survey, including snow depth, snow water equivalent measurements and snow pits.
- U.S. Arctic, Precipitation gauge intercomparison experiment and blowing/drifted snow observation study at the Barrow, Alaska, USA, March 2004
- Russian Arctic, Russian-German joint expedition to the Laptev Sea aboard the Russian research vessel “Yakov Smirnitzkii”, August-September 2000. CTD and ADCP observations
- Russian Arctic, Russian-German joint expedition to the Laptev Sea aboard the German research vessel “POLARSTERN”, ARK XIV/1b, July-August 1998. CTD and hydrochemistry measurements
- Western Siberia, Monitoring the navigation conditions of the Western Siberian Rivers – expedition to the Pur River, June-October 1997. Hydrometric survey