

Publication list

(Name underlined when student is the first author)

BOOKS / THESIS

- 7 Stracher, G.B., **Prakash, A.** and Rein, G., (Eds.), 2015, *Coal and peat fires: A global perspective, Volume 4, Peat – Geology, combustion, and case studies*, Elsevier, 174 p., Print Book ISBN 978-0444595102.
- 6 Stracher G.B, **Prakash, A.** and Sokol E.V. (Eds.), 2014, *Coal and peat fires: A global perspective, Volume 3, Case studies*, Elsevier, 816 p., Print Book ISBN 978-0444595096 eBook ISBN 978-0444595119.
- 5 Stracher G.B, **Prakash, A.** and Sokol E.V. (Eds.), 2013, *Coal and peat fires: A global perspective, Volume 2, Photographs and Multimedia Tour*, Elsevier, 564 p., ISBN 978-0444594129.
- 4 Stracher G.B, **Prakash, A.** and Sokol E.V. (Eds.), 2011, *Coal and peat fires: A global perspective, Volume 1, Coal- combustion and geology*, Elsevier, 335 p., ISBN 978-0444528582.
- 3 Janssen, L.L.F., Huurneman, G.C., Bakker, W.H., Janssen, L.L.F., Reeves, C.V., Gorte, B.G.H., Pohl, C., Weir, M.J.C., Horn, J.A., **Prakash, A.**, Woldai, T., 2004, *Principles of remote sensing: An introductory textbook*: translated into Korean. ITC Educational Textbook Series, 180 p. ISBN 89-95325631.
- 2 Rosema, A., Guan, H., van Genderen, J., Veld, H., Vekerdy, Z., ten Katen, A.M., **Prakash, A.**, and Sharif, M., 1999, *Manual of Coal Fire Detection and Monitoring*, NITG 99-221-C, ISBN 90-6743-640-2, 245 p.
- 1 **Prakash, A.**, 1996, *Remote sensing - GIS based geoenvironmental studies in Jharia Coalfield, India, with special reference to coalmine fires*. Ph.D. Thesis, Department of Earth Sciences, UOR, Roorkee, India, 194 p.

BOOK CHAPTERS

- 11 Watson, I.M. and **Prakash, A.**, 2015, Chapter 2 - Satellite systems and interactions. In *Monitoring Volcanoes in the North Pacific: Observations from Space*, edited by Dean, K.J. and Dehn, J., Springer and Praxis, pp. 27-47, Print Book ISBN 978-3540241256, eBook ISBN 978-3540687504.
- 10 **Prakash, A.**, and Kuenzer, C., 2015, Chapter 22- Remote sensing based mapping and monitoring of coal fires. In *Remote Sensing Handbook, Volume 3, Water Resources, Disasters, and Urban: Monitoring, Modeling, and Mapping*, edited by Thenkabail, P., CRC Press, pp. 561-577, ISBN 978-1482217919.
- 9 Pande, H., Garg, R.D., Sen, A.K., and **Prakash, A.**, 2014, Chapter 9 - Impact of mining activities on the landuse and landcover of the Jharia Coalfield, India. In *Coal and peat*

fires: A global perspective, Volume 3, Case studies, edited by Stracher, G.B, Prakash, A. and Sokol E.V., pp. 263-279, Print Book ISBN 978-0444595096, eBook ISBN 978-0444595119.

- 8 Waigl, C., **Prakash, A.**, Ferguson, A., and Stuefer, M., 2014, Chapter 24 - Delineating coal fire hazards in high latitude coal basins: A case study from interior Alaska. In *Coal and peat fires: A global perspective, Volume 3, Case studies*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., pp. 633-649, Print Book ISBN 978-0444595096, eBook ISBN 978-0444595119.
- 7 Haselwimmer, C. and **Prakash, A.**, 2013, Chapter 22 - Thermal infrared remote sensing of geothermal systems, pp. 453-474. In *Thermal Remote Sensing*, edited by Kuenzer, C. and Dech. S., Springer and Praxis, 554p., ISBN 978-9400766389.
- 6 **Prakash, A.**, Gens, R., Prasad, S., Raju, A., and Gupta, R.P., 2013, Chapter 10 – Coal Fires in the Jharia Coalfield, India. In *Coal and peat fires: A global perspective, Volume 2, Photographs and Multimedia Tour*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., Elsevier, 564 p., ISBN 978-0444594129.
- 5 **Prakash, A.** and Gens, R., 2011, Chapter 14 - Remote sensing of coal fires. In *Coal and peat fires: A global perspective, Volume 1, Coal - combustion and geology*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., Elsevier, pp. 231-252, ISBN 978-0444528582.
- 4 Quattrochi, D.A., **Prakash, A.**, Eneva, M., Wright, R., Hall, D.K., Anderson, M., Kustas, W.P., Allen, R.G., Pagano, T., and Coolbaugh, M.F., 2009, Thermal remote sensing: Theory, sensors, and applications. In *Manual of Remote Sensing 1.1: Earth Observing Platforms & Sensors*, Ed. M. Jackson, ASPRS, 550 p. ISBN 1-57083-086-X.
- 3 Stracher, G.B., Finkelman R.B., Hower, J.C., Pone, D.N., **Prakash, A.**, Blake, D.R., Schroeder, P.A., Emsbo-Mattingly S.D., and O'Keefe, J.M.K., 2009, Natural and anthropogenic coal fires. In *Encyclopedia of Earth*, topic editor Dogan, A.U, Encyclopedia editor Cleveland, C.J., National Council for Science and the Environment.
- 2 Parodi, G.N. and **Prakash, A.**, 2004, Chapter 9 - Radiometric correction. In *Principles of remote sensing: an introductory textbook* (Third edition), edited by N. Kerle, ITC Educational Textbook Series. 250p., ISBN 90-61642272.
- 1 **Prakash, A.**, 2001, Chapter 8 - Radiometric aspects. In *Principles and Remote Sensing* (Second edition), edited by Janssen, L.L.F. and Huurneman, G.C., ITC Educational Textbook Series. 180 p. ISBN 90-61641993.

REFEREED JOURNAL PAPERS

- 50 Waigl, C., Stuefer, M., **Prakash, A.**, and Dennison, P., Fire Characterization and Fire-Related Land Cover Classification Using Hyperion Data over Selected Alaskan Boreal Forest Fires (in preparation).
- 49 Brown, D.R.N., Jorgenson, M.T., Kielland, K., Verbyla, D., **Prakash, A.**, and Koch, J.,

Assessment of remote sensing metrics to map permafrost degradation and drainage conditions after boreal forest wildfire (in preparation).

- 48 Starkenburger, D.P., Fochesatto, G.J., **Prakash, A.**, Cristóbal, J., Gens, R., Alfieri, J.G., and Kane, D.L., 2016, Multiscale sensible heat fluxes above a heterogeneous canopy in an Alaskan black spruce boreal forest, *Journal of Geophysical Research: Atmosphere* (in revision for resubmission).
- 47 Daanen R, **Prakash, A.**, Chittambakkam A., Haselwimmer, C., Holdmann, G., Cumming W, and Miller J., 2016, Numerical Model for Pilgrim Geothermal System, Alaska (in review).
- 46 Jones, C.E., Kielland, K., **Prakash, A.**, and Hinzman, L., 2016, Mapping hazardous ice conditions with high resolution satellite imagery, *PLoS One* (in review).
- 45 Cristóbal, J., Prakash, A., Anderson, M. C., Kustas, W.P., Euskirchen, E., and Kane, D.L., 2016, Estimation of surface energy fluxes in the Arctic tundra using the thermal-based two-source energy balance model, *Agricultural and Forest Meteorology* (in review).
- 44 McNabb, R.W., Womble, J.N., **Prakash, A.**, Gens, R., and Haselwimmer, C., 2016, Object-based image analysis of glacial ice: A method for quantifying ice habitat for Harbor seals (*Phoca vitulina richardii*) in tidewater glacial fjords, *PLoS One* (in review).
- 43 Starkenburger, D.P., Metzger, S., Fochesatto, G.J., Alfieri, J.G., Gens, R., **Prakash, A.**, Cristóbal, J., 2016, Assessment of de-spiking methods for turbulence data in micrometeorology, *Journal of Atmospheric and Oceanic Technology* (accepted).
- 42 Trochim, E.D., **Prakash A.**, Kane, D.L., Romanovsky, V.E., 2015, Remote sensing of water tracks, *Earth and Space Science*, DOI: 10.1002/2015EA000112. Accepted version available [here](#)
- 41 Trochim, E.D., Jorgenson, T., **Prakash A.**, Kane, D.L., 2015, Geomorphic and biophysical factors affecting water tracks in northern Alaska, *Earth and Space Science*, DOI: 10.1002/2015EA000111. Accepted version available [here](#).
- 40 Starkenburger, D.P., Fochesatto, G.J., Cristóbal, J., **Prakash, A.**, Gens, R., Iwata, H., Nagano, H., Harazono, Y., Alfieri, J.G., and Kane, D.L., 2015, Temperature regimes and turbulent heat fluxes across a heterogeneous canopy in an Alaskan boreal forest, *Journal of Geophysical Research: Atmosphere*, 120 (4), 1348–1360.
- 39 Floyd, A., **Prakash, A.**, Meyer, F., Gens, R., and Liljedahl, A., 2014, Applicability of Synthetic Aperture Radar to Investigate River Ice Breakup on the Kuparuk River, Northern Alaska, *Arctic*, 67 (4), 462–471. <http://dx.doi.org/10.14430/arctic4426>.
- 38 Oommen, T., Baise, L.G., Gens, R., **Prakash, A.**, and Gupta R.P., 2013, Documenting earthquake-induced liquefaction using satellite remote sensing image transformations, *Environmental and Engineering Geoscience*, 19 (4), 303–318.
- 37 Starkenburger, D.P., Fochesatto, G.J., **Prakash, A.**, Cristóbal, J., Gens, R., and Kane, D.L., 2013, The role of coherent flow structures in the turbulent fluxes of an Alaskan boreal forest, *Journal of Geophysical Research -Atmosphere*, 118 (15), 8140-8155. DOI:

10.1002/jgrd.50625.

- 36 Raju, A., Gupta, R.P., and **Prakash, A.**, 2013, Delineation of coalfield surface fires by thresholding Landsat TM-7 day-time image data, *Geocarto*, 28 (4), 343-363. DOI: 10.1080/ 10106049.2012.710651.
- 35 Ekstrand, A.L., Webley, P.W., Garay, M.J., Dehn, J., Prakash, A., Nelson, D.L., Dean, K.G., and Steensen T., 2013, A multi-sensor plume height analysis of the 2009 Redoubt eruption, *Journal of Volcanology and Geothermal Research*, 259, 170-184.
- 34 Haselwimmer, C., **Prakash, A.**, and Holdmann, G., 2013, Quantifying the heat flux and outflow rate of hot springs using airborne thermal imagery: case study from Pilgrim Hot Springs, Alaska, *Remote Sensing of Environment*, 136, 37-46.
- 33 Engle, M.A., Radke, L.F, Heffern E.L., O’Keefe, J., Hower, J.C., Smeltzer, C.D., Hower, J.M., Olea, R., Eatwell, R.J., Blake, D., Emsbo-Mattingly, S.D., Stout, S.A., Queen, G., Aggen, K.L., Kolker, A., **Prakash, A.**, Henke, K.R., Stracher, G.B., Schroeder, P.A., Román-Colón, Y., and ter Schure, A., 2012, Gas emissions, minerals, and tars associated with three coal fires, Powder River Basin, USA, *Science of Total Environment*, 420, 146-59.
- 32 Green, J., Kongoli, C., **Prakash, A.**, Sturm, M., Duguay, C., and Li, S., 2012, Quantifying the relationships between lake fraction, snow water equivalent and snow depth, and microwave brightness temperatures in arctic tundra landscapes, *Remote Sensing of Environment*, 127, 329-340.
- 31 Wirth, L., Rosenberger, A., **Prakash, A.**, Gens, R., Margraf, J., and Hamazaki, T., 2012, A remote sensing/GIS-based approach to identify, monitor, and model spawning habitat for fall chum salmon in a sub-arctic, glacially-fed river, *Transactions of the American Fisheries Society*, 141 (5), 1349-1363.
- 30 Panda, S.K., **Prakash, A.**, Jorgenson, M.T. and Solie, D.N., 2012, Near-surface permafrost distribution mapping using logistic regression and remote sensing in Interior Alaska, *GIScience and Remote Sensing*, 49 (3), 346-363.
- 29 Engle, M.A., Radke, L.F, Heffern E.L., O’Keefe, J., Smeltzer, C.D., Hower, J.C., Hower, J.M., **Prakash, A.**, Kolker, A., Eatwell, R.J., ter Schure, A., Queen, G., Aggen, K.L., Stracher, G.B., Henke, K.R., Olea, R., and Román-Colón, Y., 2012, Quantifying greenhouse gas emissions from coal fires using airborne and ground-based methods, . *International Journal of Coal Geology*, 88 (2-3), 147-151.
- 28 Woll, C., **Prakash, A.**, and Sutton, T., 2011, A case-study of in-stream juvenile salmon habitat classification using decision-based fusion of multispectral aerial images, *Applied Remote Sensing Journal*, 2 (1), 37-46.
- 27 **Prakash, A.**, Schaefer, K., Witte, W.K., Collins, K., Gens R., and Goyette, M., 2011, Remote Sensing - GIS Based Investigation of a Boreal Forest Coal Fire. *International Journal of Coal Geology*, 86 (1), 79-86.
- 26 Oommen, T., Misra, D., **Prakash, A.**, Bandopadhyay S., Naidu, S., and Kelley, J.J., 2011, Multiple regressive pattern recognition technique: An adapted approach for

- improved georesource estimation. *Natural Resources Research*, 20 (1), 11-24.
- 25 Panda, S.K., **Prakash, A.**, Solie, D.N., Romanovsky, V.E. and Jorgenson, M.T., 2010, Remote sensing and field-based mapping of permafrost distribution along the Alaska Highway corridor, Interior Alaska. *Permafrost and Periglacial Processes*, 21: 271–281.
 - 24 Yarker, M.B., PaiMazumder, D., Cahill, C.F., Dehn, J., **Prakash, A.**, Mölders, N., 2010. Theoretical investigations on potential impacts of high-latitude volcanic emissions of heat, aerosols and water vapor and their interactions on clouds and precipitation. *Open Atmospheric Science Journal*, (4), 24-44.
 - 23 Wiltse, M., **Prakash, A.**, Burns, L., 2009, Image analysis of airborne geophysical data from the Salcha river – Pogo area, Alaska. *Canadian Journal of Remote Sensing*, 35 (S1), S56-S71.
 - 22 Kolker, A., Engle, M., Stracher, G., Hower, J.C., **Prakash, A.**, Radke, L.F, ter Schure, A., and Heffern, E.L., 2009, Emissions from coal fires and their impact on the environment. *US Geological Survey, Fact Sheet* 2009–3084.
 - 21 Ledley, T.S., **Prakash, A.**, Manduca, C., Fox, S., and DAWG members, 2008, Recommendations for making geoscience data accessible and usable in education. *EOS*, 89 (32), 291, (DOI: 10.1029/2008EO2003).
 - 20 Smikrud, K., **Prakash, A.**, and Nichols, J., 2008, Decision based fusion for improved fluvial landscape classification using digital aerial photographs and forward looking infrared images. *Photogrammetric Engineering and Remote Sensing*, 74 (7), 903-911.
 - 19 Oommen, T., Misra, D., Twarakavi, N.K., **Prakash, A.**, Sahoo B.C., and Bandopadhyay S., 2008, An objective analysis of support vector machine based classification for remote sensing. *Mathematical Geosciences*, 40 (4), 409-424.
 - 18 Connor, C., and **Prakash, A.**, 2008, Experiential discoveries in geoscience education: The EDGE Program in Alaska. *Journal of Geoscience Education*, 56 (2), 179-186.
 - 17 Oommen, T., **Prakash, A.**, Misra, D., Naidu, S., Kelley, J.J., and Bandopadhyay S., 2008, GIS based marine platinum exploration, Goodnews bay region, southwest Alaska, *Marine Georesources and Geotechnology* , 26 (1), 1-18.
 - 16 Berthelote, A.R., **Prakash, A.**, and Dehn, J., 2008, An empirical function to estimate the depths of linear hot sources: Applied to the Kuhio Lava tube, Hawaii. *Bulletin of Volcanology*, 70 (7), 813-824.
 - 15 **Prakash, A.**, and Berthelote A.R., 2007, Subsurface coal mine fires: Laboratory simulation, numerical modeling and depth estimation. *Geological Society of America: Reviews in Engineering Geology*, 18, 211-218.
 - 14 **Prakash, A.**, 2006, Introducing geoinformatics for Earth system science education. *Journal of Geoscience Education*, 54 (5), 555-560.
 - 13 Smikrud, K. and **Prakash, A.**, 2006, Detecting and monitoring large woody debris in a part of the Unuk river, Alaska, using digital aerial photography. *GIScience and Remote Sensing*, 43 (2), 142-154.

- 12 Stracher, G.B., **Prakash, A.**, Schroeder, P., McCormack, J., Zhang, X.M., and van Dijk, P., 2005, New mineral occurrences and mineralization processes: Wuda coal-fire gas vents of Inner Mongolia. *American Mineralogist*, 90 (11-12), 1729-1739.
- 11 Zhang, J., Wagner, W., **Prakash, A.**, Mehl, H. and Voigt, S., 2004, Detecting coal fires using remote sensing techniques. *International Journal of Remote Sensing*, 25 (16), 3193 - 3220.
- 10 **Prakash, A.** and Vekerdy Z., 2004, Design and implementation of a dedicated prototype GIS for coal fire investigations in North China. *International Journal of Coal Geology*, 59, 107-119.
- 9 **Prakash, A.**, Fielding, E.J., Gens, R., Genderen, J.L. van and Evans, D.L., 2001, Data fusion for investigating land subsidence and coalfire hazards in a coal mining area. *International Journal of Remote Sensing*, 22 (6), 921-932.
- 8 **Prakash, A.**, Gens, R. and Vekerdy Z., 1999, Monitoring coal fires using multi-temporal night-time thermal images in a coalfield in North-west China. *International Journal of Remote Sensing*, 20 (14), 2883-2888.
- 7 **Prakash, A.** and Gupta, R.P., 1999, Surface fires in Jharia Coalfield, India - their distribution and estimation of area and temperature from TM data. *International Journal of Remote Sensing*, 20 (10), 1935-1946.
- 6 Gupta, R.P., and **Prakash, A.**, 1998, Reflection aureoles associated with thermal anomalies due to subsurface mine fires in the Jharia Coalfield, India. *International Journal of Remote Sensing*, 19 (14), 2619-2622.
- 5 **Prakash, A.** and Gupta, R.P., 1998, Land-use mapping and change detection in a coal mining area - a case study of the Jharia Coalfield, India. *International Journal of Remote Sensing*, 19 (3), 391-410.
- 4 **Prakash, A.**, Gupta, R.P. and Saraf, A.K., 1997, A Landsat TM based comparative study of surface and subsurface fires in the Jharia Coalfield, India. *International Journal of Remote Sensing*, 18 (11), 2463-2469.
- 3 **Prakash, A.**, Saraf, A.K., Gupta, R.P., Dutta, M. and Sundaram, R.M., 1995, Surface thermal anomalies associated with underground fires in Jharia Coal Mine, India. *International Journal of Remote Sensing*, 16 (12), 2105-2109.
- 2 **Prakash, A.**, Sastry, R.G.S., Gupta, R.P. and Saraf, A.K., 1995, Estimating the depth of buried hot feature from thermal IR remote sensing data, a conceptual approach. *International Journal of Remote Sensing*, 16 (13), 2503-2510. Awarded the Second Khosala Prize in 1996.
- 1 Saraf, A.K., **Prakash, A.**, Sengupta, S. and Gupta, R.P., 1995, Landsat TM data for estimating ground temperature and depth of subsurface coal fire in Jharia Coal Field, India. *International Journal of Remote Sensing*, 16 (12), 2111-2124. Awarded the First Khosala Prize in 1996.

REFEREED ONLINE PRODUCTS AND PUBLICATIONS *

- 4 **Prakash, A.**, Gens, R., and McClung, S., 2007, Polar Remote Sensing: A resource for undergraduate education. Rated as 'Outstanding' by NASA Science Mission Directorate Education Product Review Panel (www.polar-remotesensing.alaska.edu).
- 3 McCaffrey, M., Meier, W., **Prakash, A.**, Rogan, B., and Youngman, B., 2007, Whither Arctic Sea Ice? Case Study Chapter in the Earth Exploration Toolbook. Passed NASA educational and DLESE community review (<http://serc.carleton.edu/eeet/seaice/>). Part of the reviewed Climate Literacy & Energy Awareness Network (CLEAN) collection.
- 2 **Prakash, A.**, Gens, R., and Gupta, A., 2006, Treasure Hunt in Alaska. A website for grades 4-5 school children reviewed and approved by NASA Science Mission Directorate Education Product Review Panel (www.treasure-hunt.alaska.edu).
- 1 **Prakash, A.**, Nielsen, C., Gupta, A., and Gens, R., 2004, Alaska: A Bird's Eye View. A website for middle school children reviewed and approved by NASA Earth Science Enterprise Education Product Review Panel (www.birds-eye-view.alaska.edu).

*Each product is approved after a rigorous review by a 5-6 member panel consisting of scientists and educators.

FULL LENGTH PAPERS IN PROCEEDINGS / OTHER JOURNALS

- 20 Kokaly, R.F., Hoefen, T.M., Graham, G.E., Kelley, K.D., Johnson, M.R., Hubbard, B.E., Goldfarb, R., Buchhorn, M., and **Prakash, A.**, 2016, Mineral information at micron to kilometer scales: Laboratory, field, and remote sensing imaging spectrometer data from the Orange Hill porphyry copper deposit, Alaska, USA, *IEEE International Geoscience and Remote Sensing Symposium*, July 10-15, Beijing China (accepted).
- 19 Roon, D., Wipfli, M.S., Wurtz, T.L., and **Prakash, A.**, 2015, Distribution of Invasive European Bird Cherry (*Prunus padus*) in Riparian Forests Along Urban Alaskan Streams, *Forest Health Conditions in Alaska 2014*, U.S. Forest Service, Alaska Region: Publication R10-PR-36, pp. 40-43.
(Available at: http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprd3834154.pdf)
- 18 Miller, J.K., Haselwimmer, C.E., and **Prakash A.**, 2013, Investigating low-temperature hydrothermal alteration in drill cuttings from Pilgrim Hot Springs, Alaska using a suite of low-cost analytical techniques, *Geothermal Resources Council Transactions*, 37, 989-998. Received the Best Resource Assessment Presentation Award.
- 17 Miller, J.K., **Prakash, A.**, Daanen, R., Haselwimmer, C., Whalen, M., Benoit, D., Cumming, W., Clark, A.C., Mager, M. and Holdmann, G., 2013, Geologic model of the geothermal anomaly at Pilgrim Hot Springs, Seward Peninsula, Alaska, *Thirty-Eighth Workshop on Geothermal Reservoir Engineering*, February 11-13, Stanford, California. SGP-TR-198, p. 1326-1334.
- 16 Chittambakkam, A., Daanen, R.P., **Prakash, A.**, Haselwimmer, C., and Holdmann, G., 2013, Development of a reservoir stimulation model at Pilgrim Hot Springs, Alaska

using Tough2, *Thirty-Eighth Workshop on Geothermal Reservoir Engineering*, February 11-13, Stanford, California. SGP-TR-198, 13p.

- 15 Daanen, R.P., Chittambakkam, A., Haselwimmer, C., **Prakash, A.**, Mager, M., and Holdmann, G., 2012, Use of COMSOL multiphysics to develop a shallow preliminary conceptual model for geothermal exploration at Pilgrim Hot Springs, Alaska, *Geothermal Resource Council*, 36th Annual Meeting, Sep 30 - Oct 3, Reno, Nevada.
- 14 Haselwimmer, C., **Prakash, A.**, and Holdmann, G., 2011, Geothermal Exploration in Pilgrim, Alaska Using Airborne Thermal Infrared Remote Sensing. *Geothermal Resource Council*, 35th Annual Meeting, Oct 23-26, San Diego, California.
- 13 **Prakash, A.**, 2010, Coal fire research: Heading from remote sensing to remote measurement, *Second International Conference on Coal Fire Research*, May 19-21, Berlin, Germany. Session: Remote Sensing Sensors and Systems.
- 12 **Prakash, A.**, Gens, R., Kelley, J., Alexander, V., Johnson, L., Yanow, G., 2004, Space-based observations in the International Polar Year: Educational opportunities to strengthen the STEM pipeline. *IEEE International Geoscience and Remote Sensing Symposium*, September 20-24, Anchorage, USA.
- 11 Venkateshwarlu, C., Gopal Rao, K., and **Prakash, A.**, 2004, Neural networks in land surface temperature mapping in urban areas from thermal infrared data. *IEEE International Geoscience and Remote Sensing Symposium*, Sept 20-24, Anchorage, USA.
- 10 Venkateshwarlu, C., Gopal Rao, K., and **Prakash, A.**, 2003, Artificial neural networks in the improvement of effective spatial resolution of thermal infrared data for improved landuse classification. *URBAN-2003: Second IEEE/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas*, 22-23 May 2003, Berlin, Germany.
- 9 Wagtendonk, A.J., and **Prakash, A.**, 2003, Knowledge sharing through the web: the use of multimedia in a European research project. In *GETS project- A European Research Network for the Application of Geomorphology and Environmental Impact Assessment to Transportation Systems*.
- 8 Stracher, G.B., Taylor, T.P. and **Prakash, A.**, 2002, Coal Fires: A synopsis of their origin, remote sensing detection, and thermodynamics of sublimation, in Shannon, S., editor, Case histories of mine reclamation and regulation. *Environmental Technology for Mining*: Robertson GeoConsultants Inc., Reno, NV; Vancouver, B.C., p. 1-8.
- 7 Das, K.D., Gopal Rao, K., **Prakash, A.**, 2001, Improvement of effective spatial resolution of thermal infrared data for urban landuse classification. *IEEE/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas*, 8-9 November 2001, Rome, Italy.
- 6 **Prakash, A.**, 2000, Thermal remote sensing: Concepts, issues and applications. *International Archives of Photogrammetry and Remote Sensing*, XXXIII (B1), 239-243.
- 5 **Prakash, A.**, Sharif, M. and Genderen J.L. van, 1999, Integrated application of geotechniques for coalfire studies in North China Coalfield. *Thematic conference and exhibition on Geomatics*, NCC, Tehran-Iran. March 1999, 6p.

- 4 Vekerdy Z., Gens, R. and **Prakash, A.**, 1999, Use of optical and radar imagery to estimate and monitor the quantity of oil in storage tanks. *Twentieth Annual Conference and Exhibition of the Remote Sensing Society*, 8-10 September 1999, University of Wales at Cardiff and Swansea.
- 3 **Prakash, A.**, 1999, The dynamics of coal mining and coal fires in the Jharia Coalfield, India: geoenvironmental and socioeconomic impacts. *Second International Symposium on Operationalization of Remote Sensing*, 16-20 August 1999, Enschede, The Netherlands (presentation).
- 2 Vekerdy Z., Wang, F., Zhang, J.M. and **Prakash, A.**, 1999, Requirements for the integration of remote sensing and field data in a GIS for the management of fire fighting in coalfields *Second International Symposium on Operationalization of Remote Sensing*, 16-20 August 1999, Enschede, The Netherlands.
- 1 **Prakash, A.**, 1995, A case study in the Jharia Coalfield based on remote sensing - GIS. *International course on 'Modern technologies for mineral resources assessment and management'*, I.G.C., UOR, Roorkee, 20 December, 1995 to 13 January, 1996, 31.1-31.8.

CONFERENCE ABSTRACTS (PRESENTATIONS / POSTERS)

- 169 Cristóbal, J., Buchhorn, M., **Prakash, A.**, and Graham, P., 2016, Observations from field to space: a new integrated high-latitude hyperspectral laboratory for surface water and vegetation characterization in Alaska's Arctic and boreal regions, *Third Biennial Arctic Observing Summit*, March 12-18, Fairbanks, Alaska (abstract submitted).
- 168 Womble, J.N., McNabb, R.W., **Prakash, A.**, Gens, R., Hoef, J.V., Gende, S.M., 2015, Object-based image classification of glacial ice as habitat for Harbor seals in a tidewater glacial fjord in Alaska. *21st Biennial Conference of the Society of Marine Mammalogy*, December 13-18, San Francisco, CA (presentation).
- 167 **Prakash, A.**, Gens, R., Cristóbal, J., Waigl, C., Balazs, M., Graham, P., Butcher, C., and Sparrow, E., 2015, Using place-based independent class projects as a means to hone research skills and prepare a future geospatial workforce, *AGU Fall Meeting*, December 14-18, San Francisco, CA., Abstract ID ED22B-07 (Invited presentation).
- 166 **Prakash, A.**, Buchhorn, M., Cristóbal, J., Kokaly, R.F., Graham, P., Waigl, C., Hampton, D., Werdon, M., Guldager, N., Bertram, M., and Stuefer, M., 2015, Field-based and airborne hyperspectral imaging for applied research in the State of Alaska, *AGU Fall Meeting*, December 14-18, San Francisco, CA., Abstract ID GC23K-1233 (poster).
- 165 Womble, J.N., McNabb, R.W., Gens, R., and **Prakash, A.**, 2015, Spatio-temporal variation in glacier ice habitat for harbor seals in an Alaskan tidewater glacial fjord, *AGU Fall Meeting*, December 14-18, San Francisco, CA., Abstract ID C21A-0728 (poster).
- 164 Kokaly, R.F., Graham, G.E., Hoefen, T.M., Kelley, K.D., Buchhorn, M., Johnson, M.R., Hubbard, B.E., Goldfarb, B.E., and **Prakash, A.**, 2015, Characterizing geology and

- mineralization at high latitudes in Alaska using airborne and field-based imaging spectrometer data, *AGU Fall Meeting*, December 14-18, San Francisco, CA., Abstract ID GC23K-1231 (poster).
- 163 Clawson, C., Falke, J., Rose, J., Martin, A., Cristóbal, J., and **Prakash, A.**, 2015, Chandalar River chum salmon (*Oncorhynchus keta*) riverscape-scale salmon habitat assessment and monitoring, *AFS Alaska Chapter Meeting*, Nov 2-6, Homer, Alaska (poster).
 - 162 Buchhorn, M., Kokaly, R.F., **Prakash, A.**, Werdon, M., Cristóbal, J., and Graham, P., 2015, Field-based and airborne hyperspectral imaging for mineral exploration in the State of Alaska, *Alaska Miners Association Fall Convention*, Nov. 1-7, Anchorage, Alaska (poster).
 - 161 Womble, J.N., McNabb, R.W., **Prakash, A.**, Gens, R., Hoef, J.V., Gende, S.M., 2015, Assessing the Availability of Glacial Ice for Harbor Seals in Tidewater Glacial Fjord. *Ecosystem Studies of Sub-Arctic Seas (ESSAS) 10th Annual Science Meeting*, June 15-17, Seattle, USA (presentation).
 - 160 Buchhorn, M., **Prakash, A.**, Hampton, D., Cristóbal, J., Waigl, C., Stuefer, M., Kokaly, R.F., and Graham, P., 2015, HyLab: Alaska's In-State Capability for Airborne Imaging Spectroscopy, *36th International Symposium on Remote Sensing of Environment (ISRSE)*, May 11-15, Berlin, Germany (poster).
 - 159 Graham, P., Cristóbal, J., **Prakash, A.**, 2015, Estimation of surface energy fluxes in Arctic ecosystems: integrating multiplatform remote sensing and field data. *AWRA-AK Annual Conference and Workshops: Water Resource Remote Sensing Applications in Alaska*, May 13-15, Fairbanks, AK (poster).
 - 158 Cristóbal, J., and **Prakash, A.**, 2015, Applications of Remote Sensing in Hydrology. *AWRA-AK Annual Conference and Workshops: Water Resource Remote Sensing Applications in Alaska*, May 13-15, Fairbanks, AK (invited presentation).
 - 157 Graham, P., Cristóbal, J., **Prakash, A.**, 2015, Integrating multiplatform remote sensing and field data to estimate energy fluxes under snow conditions in Arctic ecosystems. *Education and Research Symposium*, April 23-24, Fairbanks, Alaska (presentation).
 - 156 Cristóbal, J., **Prakash, A.**, Graham, P., Anderson, M. C., Kustas, W.P., Kongoli, C., Hain, C., Euskirchen, E., and Toll, D., 2015, Multitemporal estimation of surface energy fluxes in Alaska using the thermal-based two-source energy balance model: results in the Arctic Tundra. *Education and Research Symposium*, April 23-24, Fairbanks, Alaska (presentation).
 - 155 Starkenburg, D.P., Fochesatto, G.J., **Prakash, A.**, Carsten-Conner, L.D., and Kontar, Y.Y., 2015, The Science Acceleration Strategy (SAS) for Research and Education. *95th American Meteorological Society Annual Meeting*, January 4-8, Phoenix, Arizona (presentation).
 - 154 Waigl, C., **Prakash, A.**, Stuefer, M., and Dennison, P., 2014, Fire Characterization and Fire-Related Land Cover Classification Using Hyperion Data over Selected Alaskan Boreal Forest Fires. *AGU Fall Meeting*, December 15-19, San Francisco, CA. Abstract

ID 19941 (poster).

- 153 **Prakash, A.**, Buchhorn, M., Hampton, D., Waigl, C., and Cristóbal, J., 2014, HyLab: Building In-State Capabilities for Imaging Spectroscopy in Alaska. *AGU Fall Meeting*, December 15-19, San Francisco, CA. Abstract ID 30789 (poster).
- 152 Cristóbal, J., **Prakash, A.**, Anderson M. A., Kustas W. P., and Kane, D., 2014, Two-source energy balance model implementation in the Alaska Arctic tundra. *AGU Fall Meeting*, December 15-19, San Francisco, CA. Abstract ID 25955 (poster).
- 151 McNabb, R. W., Womble, J.N., **Prakash, A.**, Gens, R., and J. Ver Hoef, 2014, Object-Based Image Classification of Floating Ice Used as Habitat for Harbor Seals in a Tidewater Glacier Fjord in Alaska. *AGU Fall Meeting*, December 15-19, San Francisco, CA. Abstract ID 25191 (poster).
- 150 Graham, P.R., Cristóbal, J., and **Prakash, A.**, 2014, Hydrologic Modelling in Sub-Arctic Boreal Forests using Remote Sensing: An Enhanced Undergraduate Education Through Research. *Arctic Science Conference*, September 27–28, Fairbanks, Alaska (poster).
- 149 Waigl, C., **Prakash, A.**, and Gens R., 2014, The Arctic seen from space: enhancing STEM education with interactive learning. *Arctic Science Conference*, September 27–28, Fairbanks, Alaska (presentation).
- 148 McGilvary, L., Hayward, D. and **Prakash, A.**, 2014, Building a future STEM workforce through technology-based learning experiences. *Arctic Science Conference*, September 27–28, Fairbanks, Alaska (poster).
- 147 Cristóbal J., **Prakash, A.**, Starkenburg, D.P., Fochesatto, G.J., Anderson, M., Kustas, W., Alfieri, J.G., Gens, R., and Kane, D.L., 2014, Calibration and validation of a two-source energy balance model to estimate surface energy fluxes in a sub-Arctic deciduous boreal forest. *4th International Symposium on Recent Advances in Quantitative Remote Sensing*, September 22-26, Valencia, Spain (poster).
- 146 Ozbay, G., Sriharan, S., Fan, C., **Prakash, A.**, and San Juan, F., 2014, Application of Geographic Information System (GIS) in Environmental Science and Sustainable Agriculture Education. *6th International Conference on Education and New Learning Technologies (EDULEARN14)*, July 7-9, Barcelona, Spain (presentation).
- 145 **Prakash, A.**, and Cristóbal, J., 2014, The potential for hyperspectral imaging for vegetation (forestry) studies in southeast Alaska. *UAF Remote Sensing Symposium*, April 18, Fairbanks, Alaska (presentation).
- 144 Meggers, S., Seitz, A., **Prakash, A.**, and Tanner, T., 2014, Factors influencing Chinook salmon spawning distribution in the Togiak River, Alaska. *Alaska Cooperative Fish and Wildlife Research Unit Annual Research Review Meeting*, March 26, Fairbanks, AK (presentation).
- 143 **Prakash, A.**, Cristóbal, J., Hatfield, M., Cunningham, K., Sait, E., and Cook, M., 2014, New Sensors and Unmanned Aerial Systems for Mapping and Exploration. Hyperspectral and Unmanned Aerial System Workshop at the *Alaska Surveying and Mapping Conference*, Session Convenors, March 24-28, Fairbanks, AK (presentation).

- 142 **Prakash, A.**, Haselwimmer, C.E, Gens, R., Womble, J.N., and Ver Hoef, J., 2013, Quantifying the availability of tidewater glacial ice as a habitat for Harbor Seals in John's Hopkins Inlet, Alaska using Object-Based Image Analysis of airborne visible imagery, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 141 **Prakash, A.**, Sriharan, S., Ozbay, G., SanJuan, F., Fan, C., and David, V., 2013, Enhancing GIS Instruction at 1890 Institutions and HBCUs through Collaboration with the University of Alaska Fairbanks, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 140 Cristóbal J., **Prakash, A.**, Starkenburg, D.,P., Fochesatto, G.J., Anderson, M., Kustas, W., Alfieri, J.G., Gens, R., and Kane, D.L., 2013, Implementation of a two-source energy balance model in a sub-Arctic deciduous boreal forest, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 139 Gens, R., **Prakash, A.**, Balazs, M.S., Chittambakkam, A., Starkenburg, D.P., Waigl, C., Jones, E., Ozbay, G., Ferguson, A., Foster, K., Kluge, A., Sriharan, S., Cook, S., Stilson, K., 2013, A Prototype Two-tier Mentoring Program for Undergraduate Summer Interns from Minority-Serving Institutions at the University of Alaska Fairbanks, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 138 Haselwimmer, C.E., Wilson, R., Upton, C., **Prakash, A.**, Holdmann, G., and Walker, G., 2013, Hyperspatial Thermal Imaging of Surface Hydrothermal Features at Pilgrim Hot Springs, Alaska using a small Unmanned Aerial System (sUAS), *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 137 Starkenburg, D. P., Fochesatto, G.J., Nagano, H., Harazono, H., Iwata, H., Cristobal, J., Prakash, A., and Kane D., 2013, Large Scale Turbulent Heat Fluxes in Boreal Forest of Interior Alaska, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 136 Waigl, C., Stuefer, M., and **Prakash, A.**, 2013, Remote sensing of Alaskan boreal forest fires at the pixel and sub-pixel level: multi-sensor approaches and sensitivity analysis, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 135 **Prakash, A.**, Haselwimmer, C.E., Hampton, D., Kampe, T., Roberts, D.A., Mueller, A., and Bachmann, M., 2013, The University of Alaska Hyperspectral Imaging Laboratory (UA HyLab): building capacity for airborne imaging spectroscopy supporting Alaskan and Arctic science and applications, and HypIRI preparatory activities. *HypIRI Science and Applications Workshop*, October 15-17, Pasadena, CA (presentation).
- 134 Megggers, S., Seitz, A., **Prakash, A.**, and Haselwimmer, C.E., 2013, Factors influencing Chinook salmon spawning distribution in the Togiak River, Alaska. *Alaska Fisheries Society Meeting*, October 9-11, Fairbanks, Alaska (presentation).
- 133 **Prakash, A.**, Cristóbal, J., Haselwimmer, C.E., and Hampton, D., 2013, Potential of Hyperspectral Remote Sensing for Mapping Permafrost Features and Associated Biophysical Variables. *NRC Permafrost Workshop*, October 9, Fairbanks, AK (presentation).
- 132 Walsh J. and Prakash A., 2013, Remote Sensing and Observation Research Scenario.

Arctic Collaborative Environment (ACE) Technical Review and Interchange Meeting, September 9-10, Fairbanks, AK (presentation).

- 131 Starkenburger, D.P., Fochesatto, G.J., and **Prakash A.**, 2013, The influence of low velocity winds and gravity waves on the detection and analysis of coherent structures in the Alaskan boreal forest, *Alaska Weather Symposium*, March 13, Fairbanks, AK (presentation).
- 130 Womble, J.N., Hoef, J.V., **Prakash, A.**, Haselwimmer, C., and Gens, R., 2013, Assessing the availability of glacial ice as habitat for harbor seals in a tidewater glacial fjord, *Alaska Marine Science Symposium*, January 21-25, Anchorage, Alaska (presentation).
- 129 Cristóbal, J., **Prakash, A.**, Starkenburger, D.P., Fochesatto, G.J., Anderson, M., Gens, R., Kane, D.L., Kustas, W., and Alfieri, J.G., 2012, Energy fluxes retrieval on an Alaskan Arctic and sub-Arctic vegetation by means MODIS imagery and the DTD method, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. H21H-1270 (poster).
- 128 Floyd, A., **Prakash, A.**, Meyer, F.J., Gens, R., and Liljedahl, A.K., 2012, Using synthetic aperture radar to study river ice breakup on the Kuparuk River, Northern Alaska, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. C21C-0621 (poster).
- 127 Gens, R., Cristóbal, J., and **Prakash, A.**, 2012, Integrating geospatial data and models for higher order product generation and visualization in open-source domain, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. H13M-06 (presentation).
- 126 Haselwimmer, C.E., **Prakash, A.**, Parr, C., Stowell, L., Miller, J.K., Daanen, R.P., and Holdmann, G., 2012, Investigating geothermally-heated ground at Pilgrim Hot Springs, Alaska using remote sensing observations of anomalous snow-melt and in-situ shallow temperature measurements, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. V13A-2808 (poster)..
- 125 **Prakash, A.**, Cristóbal, J., Fochesatto, G.J., Starkenburger, D.,P., Kane, D.L., Gens, R., Alfieri, J.G., Irving, K., Anderson, M., and Kustas, W., 2012, Field-based ET calibration and validation sites in interior Alaska: Preparatory science for NASA's planned HypsIRI mission, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. H13F-1426 (poster).
- 124 Starkenburger, D.,P., Fochesatto, G.J., Cristóbal, J., **Prakash, A.**, Gens, R., and Kane, D.L., 2012, The contribution of coherent structures to the aggregation of large-scale heat fluxes in the Alaskan boreal forest, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. A13D-0251 (poster).
- 123 Waigl, C., **Prakash A.**, and Stuefer, M., 2012, Sub-pixel characterization of Alaskan boreal forest fires using medium-resolution satellite-borne infrared remote sensing, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. NH53A-1813 (poster).
- 122 Schaefer, K., **Prakash, A.**, Witte, W.K., and Gens, R., 2012, Developing A Decision Support System For Emergency Management Services, Alaska, *ESRI International User*

- Conference, Oct 26, Redland, CA (presentation).
- 121 **Prakash, A.**, Cristóbal, J., Fochesatto, G.J., Starkenburg, D.,P., Gens, R., Kane, D.L., Alfieri, J.G., Irving, K., Anderson, M., and Kustas, W., 2012, New evapotranspiration CalVal sites in interior Alaska: Preparatory science for NASA's planned HypsIRI mission, *Fifth HypsIRI Science Workshop*, Oct 16-18, Washington D.C. (presentation).
 - 120 Balazs, M.S., Wolken, G.J., **Prakash, A.**, 2012, A comparison of DSMs derived from traditional and modern photogrammetric techniques, *Alaska Geologic Society Technical Conference*, Sept. 22, Fairbanks, Alaska (poster).
 - 119 Daanen, R.P., Chittambakkam, A., Haselwimmer, C., **Prakash, A.**, Mager, M., and Holdmann, G., 2012, Geothermal Exploration at Pilgrim Hot Springs, Alaska, *Alaska Geologic Society Technical Conference*, Sept. 22, Fairbanks, Alaska (poster).
 - 118 Miller, J.K., **Prakash, A.**, Daanen, R., and Haselwimmer, C., 2012, Stratigraphic model of the geothermal anomaly at Pilgrim Hot Springs, Seward Peninsula, Alaska, *Alaska Geologic Society Technical Conference*, Sept. 22, Fairbanks, Alaska (poster).
 - 117 Schaefer, K., **Prakash, A.**, and Witte, W.K., 2012, A GIS and Remote Sensing Evacuation Planning Approach to Disaster Preparedness in the Fairbanks North Star Borough, Alaska, *Alaska Geologic Society Technical Conference*, Sept. 22, Fairbanks, Alaska (poster).
 - 116 Kamal, R., Gupta, R.P., Gens, R., and **Prakash, A.**, 2012, Multi-sensor fusion of optical, thermal, and microwave data to map supraglacial debris cover in the Bara Sigri glacier, Himalayas, India., *IEEE Geoscience and Remote Sensing Symposium*, July 22-27, Munich, Germany (poster).
 - 115 Trochim, E., Cristóbal, J., Mumm, J.P., Farnham, N.E., Prakash, A., Kane, D.L., Understanding Hydrological Characteristics of Surficial Drainage Networks: From plots to satellite data, *Tenth International Conference on Permafrost*, June 25-29, Salekhard, Russia. Vol. 4/2, 592-593 (presentation + extended abstract).
 - 114 Panda, S.K., Romanovsky, V.E., Prakash, A., Marchenko, S., and Solie, D.N., 2012, Application of electromagnetic resistivity data for near-surface permafrost mapping in a pilot study area, Interior Alaska, *Tenth International Conference on Permafrost*, June 25-29, Salekhard, Russia. Vol. 4/2, 437-438 (presentation + extended abstract).
 - 113 Starkenburg, D., Fochesatto, J., **Prakash, A.**, Cristóbal, J., and Kane D., 2012, The contribution of canopy flow decoupling on large area average turbulent heat fluxes, *Alaska Space Grant Symposium*, May 3, University of Alaska Fairbanks (presentation).
 - 112 Trochim, E., Jorgenson, T., **Prakash, A.**, Kane, D.L., 2012, Remote Sensing of Drainage Networks in the Foothills of the Brooks Range, *IPY 2012: From Knowledge to Action*, April 22-27, Montréal, Canada (presentation + extended abstract).
 - 111 Schaefer, K., **Prakash, A.**, Witte, W., George, J., 2012, A GIS and Remote Sensing based Approach to Hazard Analysis and Disaster Preparedness in the Fairbanks North Star Borough, Alaska, *American Society of Photogrammetry and Remote Sensing Annual Conference*, March 19-23, Sacramento, California (presentation).

- 110 Starkenbourg, D., Fochesatto, J., **Prakash, A.**, Cristóbal, J., and Kane D., 2012, The contribution of canopy flow decoupling on large area average turbulent heat fluxes, *Alaska Space Grant Symposium*, March 13-14, University of Alaska Fairbanks (presentation).
- 109 Trochim, E., Cristóbal, J., Mumm, J.P., Farnham, N.E., **Prakash, A.**, Kane, D.L., Seefeldt, S.S., 2012, Quantifying evapotranspiration: Upscaling from plots to Landsat in the Alaskan Arctic Foothills, *AWRA Alaska Section Annual Conference*, March 5-7, Juneau, Alaska (poster).
- 108 Floyd, A., Liljedahl, A.K., **Prakash, A.**, Gens, R., Meyer, F., 2012, Using Synthetic Aperture Radar to Study River Ice Break-up on the Kuparuk River, Northern Alaska, *AWRA Alaska Section Annual Conference*, March 5-7, Juneau, Alaska (poster).
- 107 Cristóbal, J., **Prakash, A.**, Fochesatto, J., Anderson, M., Kustas, W.P., Alfieri, J., Gens, R., Kane, D.L., 2012, Tundra energy fluxes retrieval on the Alaskan North Slope by means of Landsat and Modis imagery and the TSEB Method: Preliminary results. *AGU Chapman Conference on Remote Sensing of the Terrestrial Water Cycle*, Kona, Hawaii, 19 –22 February, Abstract No. EM-20 (poster).
- 106 Balazs, M.S., Wolken, G.J., **Prakash, A.**, 2011, Estimating Rates of Sedimentation using LiDAR, GPS, and Historic Aerial Imagery. *Eos Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. NH53A-1733 (poster).
- 105 Haselwimmer, C., and **Prakash, A.**, 2011, Use of airborne thermal imaging to quantify heat flux and flow rate of surface geothermal fluids at Pilgrim Hot Springs, Alaska. *Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. H51C-1223 (poster).
- 104 Floyd, A., Liljedahl, A.K., Gens, R., **Prakash, A.**, Mann, D.H., 2011, Remote Sensing, Modeling, and In-Situ Measurements to Study the Spring and Summer Thermal Regime of the Kuparuk River, Northern Alaska. *Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. C41C-0422 (poster).
- 103 Schaefer, K., **Prakash, A.**, and Witte, W., 2011, Hazard Analysis and Disaster Preparedness in the Fairbanks North Star Borough, Alaska using Hazard Simulations, GIS, and Network Analysis. *Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. NH13D-1402 (poster).
- 102 Panda, S.K., Marchenko, S., **Prakash, A.**, and Romanovsky, V.E., 2010, Modeling of permafrost dynamics at two different biophysical settings near Dry Creek, Interior Alaska. *Eos Trans. AGU* 91(52), Fall Meet. Suppl., Abstract no. C31A-0492 (poster).
- 101 Trochim E., Mumm, J.P., Farnham, N., Kane, D., and **Prakash, A.**, 2010, Variations in Vegetation & Hydrology: Linkages to Evapotranspiration in the Alaskan Arctic. *Eos Trans. AGU* 91(52), Fall Meet. Suppl., Abstract no. H41B-1087 (poster).
- 100 ter Schure, A., Engle, M., Heffern, E.L., Hower, J., Kolker, A., **Prakash, A.**, and Radke, L.F, 2010, Emissions by Uncontrolled Coal Fires. *Eos Trans. AGU* 91(52), Fall Meet. Suppl., Abstract no. A43D-0274 (presentation).
- 99 **Prakash, A.**, Nolan, M., Schaefer, K., Haselwimmer, C., and Holdmann, G., 2010,

- Geothermal Exploration in Pilgrim, Alaska: First Results From Remote Sensing Studies. *Eos Trans. AGU* 91(52), Fall Meet. Suppl., Abstract no. V13B-2350 (poster).
- 98 Trochim E., **Prakash, A.**, and Farnham, N., 2010 Applying HypSIIRI to Examine Changes in Soil Moisture and Plant Phenology in the Alaskan Arctic Foothills: A Conceptual Basin Representation, *Third Annual HypSIIRI Workshop*, August 24-25, Pasadena, CA (poster).
 - 97 Trochim E., **Prakash, A.**, and Kane, D., 2010, Assessing the impacts of the hydrological drainage networks upon the characteristics of permafrost in the Upper Kuparuk region, *Third European Conference on Permafrost*, June 13-17, Svalbard, Norway (poster).
 - 96 Orlich, A., Hutchings, J., and **Prakash, A.**, 2010, Comparing In-situ Observations of Arctic Sea Ice to SSM/I and AMSR-E Sea Ice Products for 2006-2009, *IPY Oslo Science Conference*, Oslo, Norway, June 8-12, Session T5-5 Space for polar science (poster).
 - 95 Trochim E., **Prakash, A.**, and Kane, D., 2010, Integrating field methods into the study of water tracks in the foothills of the Alaskan Arctic, *IPY Oslo Science Conference*, Oslo, Norway, June 8-12, Session T2-4 Permafrost on a warming planet (poster).
 - 94 Oommen, T., Baise, L.G., Gens, R., **Prakash, A.**, and Gupta, R.P., 2010, Applying satellite remote sensing to document liquefaction failures. *Seismological Research Letters*, 81(2), 253-283 (presentation + extended abstract).
 - 93 Oommen, T., Baise, L.G., Gens, R., and **Prakash, A.**, 2010, Post-earthquake health monitoring of critical infrastructure at Haiti to assist rapid relief efforts. *Seismological Research Letters*, 81(2), 253-283 (presentation + extended abstract).
 - 92 Trochim E., **Prakash, A.**, and Kane, D., 2010, Capturing water tracks using remote sensing in the foothills of the Alaskan Arctic: a multi-data perspective, *Alaska Section AWRA Annual Conference*, March 31-April 2, Anchorage, AK (poster).
 - 91 **Prakash, A.**, Ohler, J, Cooper, C., McDermott, M., Heinrich, J., Johnson, R., Leeper, L., Polk, N. and Wimer, T., 2009, AMIDST: Attracting Minorities to Geosciences Through Involved Digital Story Telling. *Eos Trans. AGU* 90(52), Fall Meet. Suppl., Abstract no. ED52A-03 (presentation).
 - 90 Kienholz, C., **Prakash, A.**, and Kolker, A., 2009, Geothermal Exploration in Akutan, Alaska, Using Multitemporal Thermal Infrared Images. *Eos Trans. AGU* 90(52), Fall Meet. Suppl., Abstract no. H53F-1009 (poster).
 - 89 Oommen, T., Baise, L.G., Gens, R., **Prakash, A.**, and Gupta, R.P., 2009, Documenting Liquefaction Failures Using Satellite Remote Sensing and Artificial Intelligence Algorithms. *Eos Trans. AGU* 90(52), Fall Meet. Suppl., Abstract no. NH43C-1349 (poster).
 - 88 Orlich, A., Hutchings, J., and **Prakash, A.**, 2009, Comparing Field Observations of Arctic Sea Ice to SSM/I and AMSR-E Sea Ice Products 2006-2009. *Eos Trans. AGU* 90(52), Fall Meet. Suppl., Abstract no. C44A-08 (poster).
 - 87 Taber, M.R., Ledley, T.S., **Prakash, A.** and Domenico, B., 2009, Making Geoscience Data Relevant for Students, Teachers, and the Public. *Eos Trans. AGU* 90(52), Fall

Meet. Suppl., Abstract no. ED53E-04 (presentation).

- 86 Wyatt, C., **Prakash, A.** et al., 2009, An Integrated Multi-Scale Approach to the Study of Evapotranspiration on the Alaskan North Slope: Preliminary Characterization of Fluxes and Turbulence in the Imnavait Creek Basin. *Eos Trans. AGU* 90(52), Fall Meet. Suppl., Abstract no. H41G-0980 (poster).
- 85 Kienholz, C. and **Prakash, A.**, 2009, Glaciers in the Copper River Area (Southern Alaska) – A Spatio-Temporal Analysis Based on Satellite Imagery and Aerial Photographs, *ASPRS/MAPPS Specialty Conference: From Elevation to Information*, San Antonio, TX, November 16 – 19 (poster).
- 84 Roon, D., Wipfli, M.S., Wurtz, T.L., and **Prakash, A.**, 2009, Ecological Effects of Introduced European Bird Cherry on Salmonid Food Webs in Anchorage Streams. *Annual Meeting of the American Fisheries Society* (poster).
- 83 Kienholz, C. and **Prakash, A.**, 2009, Use of Alaska High Altitude Program (AHAP) Imagery to Determine Changes in Alaska's Glaciers, *Geological Society of America Annual Meeting*, Portland, OR, October (poster).
- 82 Kolker, A., Engle, M.A., Hower, J.C., O'Keefe, J., Heffern, E.L., Radke, L.F, Stracher, G.B., **Prakash, A.**, ter Schure, A., Olea, R. and Román-Colón, 2009, Quantifying atmospheric CO₂ emissions from coal fires: Sampling approaches and some U.S. examples, *Geological Society of America Annual Meeting*, Portland, OR, October (presentation).
- 81 Kolker, A., Engle, M.A., Hower, J.C., O'Keefe, J., Radke, L.F, Heffern, E.L., ter Schure, A., Stracher, G.B., **Prakash, A.**, Román-Colón, Y., and Olea, R., 2009, Measuring CO₂ emissions from coal fires in the U.S., *Proceedings, Annual International Coal Conference*, Pittsburgh, PA, September, 7 p. [[Best technical paper, 2009 Conference](#)]
- 80 **Prakash, A.**, Anderson, M., Baise, L., Csaplovics, E., Fochesatto, J., Gens, R., Gupta, R.P., Kane, D., Mumm, J., Okkonen S.R., Oommen, T., Saha, A., Trochim, E., Wilson R., and Wyatt, C., 2009, HypSIRI Preparatory Science at the University of Alaska Fairbanks, *2nd HypSIRI Mission Science Workshop*, Pasadena, CA, Aug 11-13 (poster).
- 79 **Prakash, A.**, 2009, Investigating the Arctic Alaskan Coasts and Ecosystems: Remote-sensing and GIS based research at UAF, *HARC Workshop*, Woodlands, TX, July 23 (presentation).
- 78 **Prakash, A.**, Ohler, J., and Connor, C., 2009, Enhancing Diversity in Geosciences in Alaska Through an Introduction of Geospatial Education and Digital Storytelling, *National Science Teachers Association Annual Meeting*, New Orleans, Louisiana, March 19-22, Session no. 2028 (presentation).
- 77 Orlich A., Hutchings J., and **Prakash A.**, 2009, Comparing Field Observations of Arctic Sea Ice to AMSR-E Sea Ice Products During the International Polar Year 2007-2009. *Annual Meeting of the Association of American Geographers*, Las Vegas, NV, March 22-27, Session no. 4516 (poster).
- 76 Ledley, T.S., **Prakash, A.**, Manduca, C., and Fox, S., 2009, Finding Earth Science Data

Relevant to You, Your Students and Your Curriculum, *National Science Teachers Association Annual Meeting*, New Orleans, Louisiana, March 19-22, Session no. 1308 (presentation).

- 75 Gens, R., and **Prakash, A.**, 2009, Remote Sensing for Mapping Earth Surface Composition and Change, Technical Session at the *43rd Alaska Surveying and Mapping Conference*, Anchorage, AK, February 23 – 27 (presentation).
- 74 **Prakash, A.**, Engle, K., Panda, S., Margraf, J., and Underwood, T., 2008, Nearshore Thermal Habitat and General Circulation Mapping in Arctic Alaskan Coasts Using Archived AVHRR Images. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. OS11D-1166 (poster).
- 73 **Prakash, A.**, and Connor, C., 2008, Recruiting first generation college students into the Geosciences: Alaska's EDGE project. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. ED52A-03 (presentation).
- 72 Bailey, J.E., Webley, P., and **Prakash, A.**, 2008, Illustrating the Geosciences Through Google Earth. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. ED31A-0600 (poster).
- 71 Gens, R., **Prakash, A.**, and Li, S., 2008, Mapping deforestation in parts of the Amazon forest using JERS-1 SAR images: Case study for an area north west of Rondonia, Brazil. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. IN31C-1153 (poster).
- 70 Ledley, T.S., **Prakash, A.**, Manduca, C., Fox, S., Dahlman, L., Domenico, B., and Taber, M.R., 2008, Archiving Data to Facilitate Its Use in Education. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. U13D-05 (presentation).
- 69 Oommen, T., Baise, L.G., Gens, R., **Prakash, A.**, and Gupta, R.P., 2008, Multisensor and Multispectral Approach in Documenting and Analyzing Liquefaction Hazard using Remote Sensing. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. IN13A-1054 (poster).
- 68 Panda, S., **Prakash, A.**, and Solie, D., 2008, Identification of Surface Signatures Indicative of Near-Surface Permafrost in the Alaska Highway Corridor. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. C31E-0553 (poster).
- 67 Trochim E., **Prakash, A.**, and Kane, D., 2008, Delineating Water Tracks in Headwater Drainage Basins of the Alaskan Arctic. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. C31E-0558 (poster).
- 66 **Prakash, A.**, Collett, T., Hanks, K., Fisk, B., Papp, K., and Sarkar, S., 2008, Terrestrial Gas Hydrate Characterization in Alaska North Slope: Exploring New Ideas and Research Directions. *Geological Society of America*, Houston, Texas (presentation).
- 65 **Prakash, A.**, Bailey, J.E., and Webley, P., 2008, Integrating Virtual Globe Research Applications into the Educational Curriculum. *Geological Society of America*, Houston, Texas (poster).
- 64 Connor, C., **Prakash, A.**, and Brownlee, M., 2008, GIS In Alaska's Grades 6-12 Earth Science Environment: The Experiential Discoveries in Geoscience Education (EDGE)

Project. *Geological Society of America*, Houston, Texas (poster).

- 63 Stracher, G., Hower, J., Hiett, J., **Prakash, A.**, Pone, D. et al., 2008, Coal Fires: Gateway to Environmental Destruction and Human Suffering. *SpontCom2008*, Johannesburg, South Africa, September 9. Plenary address at international conference (delivered by graduate student Denis Pone).
- 62 Dixon, J.E., Lee, C.M., **Prakash, A.**, Harrison, W., and Manley, W.F., 2008, Ice Patch Archeology of Alaska's Wrangell St. Elias National Park. Conference on Ice Patch Archaeology and Holocene Climate Change, Bern, Switzerland, August 21-22 (presentation).
- 61 Rosenberger, A., Triebenbach, S., **Prakash, A.**, Chapin, T., and Margraf, J., 2008, Effects of water loss on Fish communities in the Arctic: landscape perspectives and future research directions. *138th Annual Meeting of the American Fisheries Society*, Ottawa, Canada, August 17-21 (presentation).
- 60 Triebenbach, S., Rosenberger, A., **Prakash, A.**, Margraf, J., and Chapin, T., 2008, GIS mapping of fish habitat in the Yukon Flats National Wildlife Refuge. *138th Annual Meeting of the American Fisheries Society*, Ottawa, Canada, August 17-21 (poster).
- 59 Panda, S., **Prakash, A.**, and Solie, D., 2008, Remote Sensing-Based Study of Vegetation Distribution and Its Relation to Permafrost in and Around George Lake Area, Central Alaska. *Ninth International Conference on Permafrost*, Fairbanks, AK, June 29 -July 3 (poster + extended abstract).
- 58 Trochim, E.D., Kane, D.L., and **Prakash, A.** 2008. Examining the Temporal Variation in Headwater Drainage Networks and Potential to Thermokarst Using Remote Sensing in the Imnavait Basin. *Ninth International Conference on Permafrost*, Fairbanks, AK, June 29 -July 3 (poster + extended abstract).
- 57 Sarkar, S., Eicken., H., **Prakash, A.**, 2008, Texture based image classification of early fall lake ice in Western Prudhoe Bay region of North Slope Alaska with ERS2 SAR image. *The 10th International Circumpolar Remote Sensing Symposium and 29th Canadian Symposium on Remote Sensing*, Whitehorse, Yukon, Canada. June 2-5 (poster).
- 56 Trochim, E.D., Kane, D.L., and **Prakash, A.**, 2008, Examining the Relationships between Thermokarst and Headwater Drainage Networks using Remote Sensing in the Upper Kuparuk Basin. *The 10th International Circumpolar Remote Sensing Symposium and 29th Canadian Symposium on Remote Sensing*, Whitehorse, Yukon, Canada. June 2-5 (poster: **Received the Best Poster Award**).
- 55 Hook, S.J., Abrams, M., Anderson, M., Crowley, J., Eneva, M., Giglio, L., Kruse, F., Ousounov, D., **Prakash, A.**, Quattrochi, D., Realmuto, V., Roy, D., Silver, P. and Wright, R., 2008, The Thermal Infrared Instrument on the HypsIRI Mission: a key measurement for Wildfire and Water Use Ecosystems Related Research. NASA Carbon Cycle and Ecosystems Joint Science Workshop, Adelphi, MD., April 28 – May 2 (presentation).

- 54 Sarkar, S., **Prakash, A.**, Layer, P., and Collett, T.S., 2008, Interpretation of soil hydrocarbon gas data for assessing thermogenic gas migration over the Eileen and West Sak Fault zones, North Slope, Northern Alaska. *Alaska Geological Society Technical Conference*, Anchorage, AK, April 17 (poster).
- 53 **Prakash, A.**, and Gens, R., 2007, Promoting Use of Remote Sensing Data and Technology through Polar Case Studies for Post-Secondary Education and Research. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract ED51B-0410 (poster).
- 52 Connor, C., and **Prakash, A.**, 2007, Alaska's Secondary Science Teachers and Students Receive Earth Systems Science Knowledge, GIS Know How and University Technical Support for Pre- College Research Experiences: The EDGE Project. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract ED51A-0130 (poster).
- 51 Wilson, R.A., Dehn, J., **Prakash, A.**, and Wessels, R., 2007, Lava Effusion Rates from Satellite Remote Sensing for Kliuchevskoi Volcano, Kamchatka- Russia in 2007. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract V21A-0385 (poster).
- 50 **Prakash, A.**, Connor, C., and Smikrud, K., 2007, Authentic geoscience research experiences using GPS-GIS skills to excite Alaska's middle and high school students about Earth science. *Geological Society of America*, Denver, 39(6), 154 (poster).
- 49 Connor, C., **Prakash, A.**, Berner, L., Hood, E., and Heavner, M., 2007, Glacier Surface Field Experiences and GIS training provide Alaska's Science Teachers with Climate Change Assessment tools for use in Middle School and High School classrooms. *Geological Society of America*, Denver, 39(6), 57 (poster).
- 48 Hendricksen, G.A., **Prakash, A.**, and Blake, D.R., 2007, Estimation of gas emissions from shallow subsurface coal fires in Jharia coalfield, India, using FLIR data and coal fire gas analysis. *Geological Society of America*, Denver, 39(6) 298 (poster).
- 47 Stracher, G.B., Sokol, E.V., **Prakash, A.**, Hower, J.C., Kuenzer, C., Pone, D., Schroeder, P., Masalehdani, M.N., Mardon, S.M., and Hiett, J., 2007, Coal Fires: Opportunity for Innovative Research in Mineralogy, Petrology, Structural Geology, and Environmental Science. *Geological Society of America*, Denver, 39 (6), 30 (presentation).
- 46 Sarkar, S., **Prakash, A.**, and Gens, R., 2007, Detecting unique structures in early fall lake ice in Alaska North Slope using optical and SAR images, *AAAS Annual Meeting*, Anchorage, AK., September 20-21 (poster).
- 45 **Prakash, A.**, Brown, N., and Lees, R., 2007, Geospatial Workforce Development Initiative of the Alaska Space Grant Program: Inviting Industry to Partner in Earth and Space Science Research, Education and Training. *41st Annual Alaska Surveying and Mapping Conference*, Fairbanks, AK, March 19-23 (poster).
- 44 **Prakash, A.**, and Gens, R., 2007, Remote Sensing and GIS based Alaska mapping and monitoring studies: Results from last five years of UAF student projects. *41st Annual Alaska Surveying and Mapping Conference*, Fairbanks, AK, March 19-23 (presentation).
- 43 Smikrud, K., Margraf, J., **Prakash, A.**, and Frenette, B., 2007, A Remote Sensing-GIS

Based Approach for Assessment of Chinook Salmon Rearing Habitat In The Unuk River Floodplain. *41st Annual Alaska Surveying and Mapping Conference*, Fairbanks, AK, March 19-23 (poster).

- 42 **Prakash, A.**, Connor, C., and Brownlee, M., 2006, Empowering Alaska Teachers with GPS-GIS Skills through Experiential Discoveries in Geoscience Education: Planning, Implementing and Evaluating a Teachers Training Course. *Eos Trans. AGU*, 87(52) Fall Meet. Supplement., Abstract ED11B-1197 (poster).
- 41 Connor, C., **Prakash, A.**, Brownlee, M., Nagorski, S., and Walling, R., 2006, EDGE (Experiential Discoveries in Geoscience Education) Field Course Provides Alaskan High School and Middle School students with Earth Science and GIS Skills for Science Fair Projects and a College Experience. *Eos Trans. AGU*, 87(52) Fall Meet. Supplement, Abstract ED23B-1248 (poster).
- 40 Gens, G., **Prakash, A.**, and McClung, S., 2006, Polar Remote Sensing: A Web Resource to Promote the Use of Remote Sensing Data in Undergraduate Education and Research. *Eos Trans. AGU*, 87(52) Fall Meet. Supplement, Abstract ED43E-0962 (poster).
- 39 Lee, S.P., **Prakash, A.**, Reider, D., and Baker, D., 2007, Tested Tools You Can Use: Evaluating Earth System Science Courses. *Eos Trans. AGU*, 87(52) Fall Meet. Supplement, Abstract ED53B-0857 (poster).
- 38 Oommen, T., Misra, D., **Prakash, A.**, and Bandopadhyay, S., 2006, Marine Geodatabase and Multiple Regressive Pattern Recognition Technique: A New Approach to Marine Placer Resource Assessment. *Eos Trans. AGU*, 87(52) Fall Meet. Supplement, Abstract IN14A-05 (poster: [awarded best student poster](#)).
- 37 Papp, K., **Prakash, A.**, Hanks, K., and Collett, T., 2006, Analysis of Near Surface Hydrocarbon Distribution Pattern Around the Eileen Fault zone, Alaska North Slope. *Eos Trans. AGU*, 87(52) Fall Meet. Supplement, Abstract OS33B-1710 (poster).
- 36 **Prakash, A.**, 2006, Tracking, documenting and disseminating global information about coal fires. *Geological Society of America*, Philadelphia, Abstracts 38(7), p.94 (presentation).
- 35 Stracher, G., and **Prakash, A.**, 2006, The origin of gas-vent minerals: Isochemical and mass transfer processes. *Geological Society of America*, Philadelphia, Abstracts 38(7), p.168 (presentation).
- 34 Ruzek, A., **Prakash, A.**, et al., 2006, A design guide for undergraduate earth system science education. *Geological Society of America*, Philadelphia, Abstracts 38(7), p.218 (poster).
- 33 Hess, E., McCarthy, P., and **Prakash, A.**, 2006, Cold climate fluvial processes: an integrated study of the Colville River, Alaska. *Geological Society of America*, Philadelphia, Abstracts 38(7), p.282 (poster).
- 32 Ritchie, B., Lingle, C., Truffer, M., Motyka, R., Arendt, A., **Prakash, A.**, Echelmeyer, K., and Zirnheld, S., 2006, Seasonal and spatial variations in the advance of Hubbard Glacier, south-central Alaska. *36th Annual Northwest Glaciology Meeting*, Sep. 15-16,

Fairbanks, Alaska (presentation).

- 31 Ritchie, B., Lingle, C., Truffer, M., Motyka, R., Arendt, A., **Prakash, A.**, Echelmeyer, K., and Zirnheld, S., 2006, Seasonal and spatial variations in the advance of Hubbard Glacier, south-central Alaska. *Geophysical Research Abstracts*, EGU, Vol. 8, 06345 (presentation).
- 30 Bailey, R.D., and **Prakash, A.**, 2006, Searching for the Allochthon/Parautochthon Boundary: Using Landsat for Stratigraphic and Structural Mapping, Eastern Brooks Range, Alaska. *AAPG Pacific Section Meeting*, Anchorage, Alaska, May 8-10 (poster).
- 29 Hess, E., **Prakash, A.**, and McCarthy, P., 2006, Cold climate fluvial processes: an integrated study of the Colville River, Alaska. *AAPG Pacific Section Meeting*, Anchorage, Alaska, May 8-10 (poster).
- 28 **Prakash, A.**, 2006, Alaska: A Natural Laboratory to Learn Physics and Geophysics, *meeting of the American Association of Physics Teachers*, 23 January, Anchorage, USA (presentation).
- 27 **Prakash, A.**, 2005, INPOSE: A Proposed UAF- UArctic IPY Post Secondary Education Initiative. *Eos Trans. AGU*, 86(52), Fall Meeting Supplement, Abstract ED11D-1125 (poster).
- 26 Burger, E., and **Prakash, A.**, 2005, Monitoring Six Decades of Thermokarst Change in the Barrow Region, Alaska, Using Remote Sensing Data. *Eos Trans. AGU*, 86(52), Fall Meet. Supplement, Abstract C31A-1116 (poster).
- 25 Oommen, T., Kelley, J., Naidu, S., **Prakash, A.**, Misra, D., and Bandopadhyay, S., 2005, GIS Analysis of Marine Geophysical Signatures to Decipher Depositional Patterns of Platinum Placer in Offshore Goodnews Bay Region, Alaska. *Eos Trans. AGU*, 86(52), Fall Meeting Supplement, Abstract IN23B-1214 (poster).
- 24 Papp, K., **Prakash, A.** and Collett, T., 2005, Integrated Analysis of Permafrost Features, Gas Seeps, Gas Hydrate and Geologic Structures Southwest of Prudhoe Bay, *Eos Trans. AGU*, 86(52), Fall Meeting Supplement., Abstract C11A-1061 (poster).
- 23 **Prakash, A.**, 2005, Introducing ESS concepts for K-16 through web based stories and specialized geospatial education. *Coalition for Earth Science Education Meeting*, 23-24 September, GSFC Greenbelt, USA (presentation).
- 22 Oommen, T., **Prakash, A.**, Misra, D., Gens, R., Bandopadhyay, S., Naidu, S., and Kelley, J.J., 2005, Marine placer platinum prospects near Goodnews bay, Alaska: GIS database design and preliminary analysis. *Alaska Geological Society Symposium*, April 29, Fairbanks, USA (poster).
- 21 Dean, K., **Prakash, A.**, Hanks, C., and Collett, T., 2005, Integrated analysis of permafrost features, gas seeps, gas hydrates and geologic structures in Prudhoe Bay, Alaska. *Alaska Geological Society Symposium*, April 29, Fairbanks, USA (poster).
- 20 Hess, E., **Prakash, A.**, McCarthy, P., 2005, Monitoring geomorphic changes in the Colville River, Alaska, using remote sensing data. *Alaska Geological Society*

Symposium, April 29, Fairbanks, USA (poster).

- 19 **Prakash, A.**, and Brown, N., 2005, Geospatial education in Alaska's high schools: A new initiative of the Alaska Space Grant Program, *EOS Transactions, AGU*, 86(18), Joint Assembly Supplement., New Orleans, USA (presentation).
- 18 **Prakash, A.**, Gens, R., and Gupta, A., 2005, Explaining earth and space science concepts to middle school children through interactive web based stories. *EOS Transactions, AGU*, 86(18), Joint Assembly Supplement, New Orleans, USA (poster).
- 17 Stracher, G. B., **Prakash, A.**, Schroeder, P., and McCormack, J., 2004, New mineral occurrences from the Wuda coalfield fires of Inner Mongolia, *Geological Society of America*, 36(5), 42 (presentation).
- 16 **Prakash, A.**, 2004, The role of space based observations in the IPY and IHY education outreach. *AGU Fall Meeting*, 13-17 December, San Francisco, USA (presentation).
- 15 Gens, R., Toniolo, H., McCarthy, P., and **Prakash, A.**, 2004, Understanding Arctic river systems: An effort to train undergraduate and graduate students. *AGU Fall Meeting*, 13-17 December, San Francisco, USA (poster).
- 14 **Prakash A.**, and Cooper G., 2004, GIS-GPS for Alaska teachers: A reflection. *Fourth Biennial Alaska Math and Science Conference*, October 14-16, Fairbanks, USA (presentation).
- 13 **Prakash, A.**, 2004, Global dimension of coal mine fires. *GSA Annual Meeting: Geoscience in a changing world*. 7-10 November, Denver, USA (presentation).
- 12 Dean K., and **Prakash A.**, 2004, Identifying surface expressions of shallow gas hydrates using remote sensing - GIS in the Alaska North Slope. *AAPG Hedberg Research Conference*, September 12-16, Vancouver, Canada (poster).
- 11 **Prakash, A.**, Nielsen, C., and Gupta, A., 2003, Exposing middle school students to remote sensing in Alaska. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract ED22B-1240, 8 - 12 December, San Francisco, USA (presentation).
- 10 **Prakash, A.**, Kelly, J., Naidu, S., and Gens, R., 2003, A remote sensing - GIS based approach to monitor morphodynamics of the Alaskan Arctic coasts. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract OS52B-0912, 8 - 12 December, San Francisco, USA (presentation).
- 9 **Prakash, A.**, 2003, Coal mine fire investigation and management: A novel operational application of remote sensing and GIS technology. *ASPRS 2003 Annual Conference*, May 5-9, Anchorage, USA (poster).
- 8 **Prakash, A.**, and Gens, R., 2003, Remote sensing in optical and microwave region for detecting coal mining induced subsidence. *ASPRS 2003 Annual Conference*, May 5-9, Anchorage, USA (presentation).
- 7 O'Guinn, S., **Prakash, A.**, and McCarthy, P., 2003, Remote sensing - GIS based mapping of channel migration in parts of the Colville River, Alaska. *Alaska Geological Society Symposium*, April 25, Fairbanks, USA (poster).

- 6 Wang, C., Maathuis, B.H.P., **Prakash, A.** and van Dijk, P.M., 2003, Detection of coal fires in Xinjiang, China, using remote sensing techniques. In: Proceedings of a one day workshop on deposits and geoenvironmental models for resources exploitation and environmental security, ITC : Enschede, 5 April 2002 / ed. by T. Woldai. Enschede, ITC Publication; 82 (presentation).
- 5 van Dijk, P., **Prakash, A.**, Maathuis, B., and Zhang, X.M., 2003, Monitoring coal fires in North China- a remote sensing and GIS approach. *American Association for the Advancement of Science Symposium 1034*, February 14, Colorado, USA (presentation + extended abstract).
- 4 Jain, S. and **Prakash, A.**, 2000, Image fusion to study the urban expansion patterns in Delhi region, India. *SPIE's International Symposium on AeroSense - Sensor Fusion: Architectures, Algorithms, and Applications IV (OR46)*, 24-28 April 2000, Orlando, Florida USA (presentation).
- 3 Vekerdy, Z., **Prakash, A.** and Gens, R., 2000, Multimédia a távérzékelés oktatásában egy képfúziós oktatóprogram példájával. *HUNGEO 2000*, 15-19 August 2000, Piliscsaba, Hungary (presentation).
- 2 Vekerdy Z., **Prakash, A.** and Gens R., 1999, Data integration for the study and visualisation of subsurface coalfires. *Thirteenth International conference and workshop on Applied Geologic Remote Sensing*, Vancouver, British Columbia, Canada, 1-3 March. Received 'Best of the Session' Award.
- 1 **Prakash, A.**, 1997, Presenter for poster entitled 'Integrated modelling for estimating the depth of underground coal fires' by Peng Wenxiang, Gaofeng Kang and John van Genderen at the *Twelfth International conference and workshop on Applied Geologic Remote Sensing*, Denver, Colorado, U.S.A., 17-19 November. Received 'Best of the Session' Award.

MULTIMEDIA / MAJOR REPORTS / WHITE PAPERS

- 13 **Prakash A.**, 2014, Lead contributor for CQ6 - Earth Surface Composition and Change, in *The Hyperspectral Infrared Imager (HyspIRI) – Science Impact of Deploying Instruments on Separate Platforms*. White paper edited by Simon J. Hook, ~75p.
- 12 Haselwimmer, C., Daanen, R.P., and **Prakash, A.**, 2012, Remote sensing and modeling of anomalous snowpack associated with areas of geothermally-heated ground as a tool for geothermal exploration and resource assessment in cold environments.
- 11 Cooper, G., Alabi, O., Awad, A., Gens, R., **Prakash, A.**, Witte, A., 2010, Litter Retriever with a GPS Receiver. Curricula Chapter in the Earth Exploration Toolbook (http://serc.carleton.edu/eet/litter_gps/).
- 10 Gens, R., **Prakash, A.**, O'Connor, C., Cooper, G., Li, S., McGraw, D., Youngman, E., and McAuliffe, C., 2010, Shrinking Forest - Growing Problem. Case Study Chapter in the Earth Exploration Toolbook (http://serc.carleton.edu/eet/shrinking_forests/).

- 9 Almberg., L., **Prakash, A.**, and Cameron, W., 2007, Alaska Volcano Explorer: Interactive Volcano Education. (<http://www.uaf.edu/asgp/k12/volcano/>).
- 8 Lee, S., **Prakash, A.**, and Reider, D., 2006, Earth System Science Education Evaluation Toolkit. (http://essedesignguide.org/index.php?option=com_content&task=view&id=202&Itemid=289).
- 7 **Prakash, A.**, 2006, Data, Tools and Models. A section in ESSE21 Design Guide. (http://essedesignguide.org/index.php?option=com_content&task=view&id=21&Itemid=82).
- 6 Caron, B, Ledley, T., Dahlman, L., Manduca, C., Mogk, D., Haberman, T., **Prakash, A.**, and Prothero, B., 2004, Building earth data resources into DLESE. A white paper from the DLESE Data Access Working Group, 29 p. Available at http://d32ogoqmya1dw8.cloudfront.net/files/usingdata/accessdata/dawg_white_paper.pdf
- 5 Genderen, J.L. van, Gens, R., Vekerdy, Z., **Prakash, A.**, Cornelis, J., Boekarts, P., Munteanu, A., Sahli, H., Christopoulos, V., Veen, B.S. van and Jellema, H.W., 1998, *FUSETUTOR - A tutorial on remote sensing image and data fusion*. Multimedia tutorial Ver. 2. (Enschede:ITC).
- 4 Genderen, J.L. van, **Prakash, A.**, Gens, R., Veen, B.S. van, Liding, C., Tao, T.X. and Feng, G., 2000, *Coal fire interferometry*. Netherlands Remote Sensing Board, USP-2-99-32, 63p.
- 3 **Prakash, A.**, 1996, Utility of remote sensing and GIS for petroleum exploration – A thought. *IGC Newsletter*, 4(1-2), 7-8.
- 2 **Prakash, A.**, 1995, Expanding domain of geosciences. *IGC Newsletter*, 3(1), 52.
- 1 **Prakash, A.**, 1992, Weighing geoscience as a profession for women. *International Colloquium on Role of Women Geoscientists in National Planning and Development Programmes*, New Delhi, India, 23-25 November 1992, pp. 54-55.