ANUPMA PRAKASH
Geophysical Institute, University of Alaska Fairbanks, Fairbanks, AK 99775-7320

EDUCATION:

1996 to 1998 Post-Doctoral Researcher at the Applied Geomorphological Survey Division, International Institute for Geoinformation Science and Earth Observation (ITC), Enschede, The Netherlands.

1992 to 1996 PhD in Earth Sciences from Indian Institute of Technology, Roorkee, India. Thesis title: *Remote Sensing - GIS based geoenvironmental studies in Jharia coalfield, India, with special reference to coalmine fires.*

1989 to 1991 M.Sc. in Geology from Lucknow University, India.

1986 to 1989 B.Sc. in Geology, Zoology and Botany from Lucknow University, India.

PROFESSIONAL HISTORY:

03/02 to date Associate professor at the Geophysical Institute and the Department of Geology and Geophysics, University of Alaska Fairbanks, USA.

1998 to 2002 Assistant professor at the Department of Earth Systems Analysis, ITC, Enschede, The Netherlands.

REPRESENTATIVE EXPERIENCE:

Dr. Prakash is a geologist who specialized in remote sensing and geographic information systems for her PhD from the Indian Institute of Technology, Roorkee – one of the top seven engineering and technology-oriented institutes of higher education in India. For her graduate research she was involved with the regional mapping of Kuchch, particularly the area around Bhuj, the earthquake site selected for this proposed project. Dr. Prakash specializes in the use of imaging spectrometry for mapping land surface composition and change. Her current research sites are spread across Alaska. Her past USGS collaborators include Dave Houseknecht and John C. Mars (for fieldwork in Alaska North Slope). Currently, she collaborates with Tim Collett of USGS on gas hydrate research project. Dr. Prakash has served as a thesis advisor for 16 graduate students, 13 of whom have graduated and 3 are currently working with her.

PUBLICATIONS RELATED TO THE PROPOSED PROJECT:

Watson, I.M. and **Prakash, A.**, 2008, Satellite systems and interactions. in *Volcano Atlas*, edited by Dean, K.J. and Dehn, J. (expected publication in end 2008).

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 (announced in forthcoming articles).

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.

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.

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.