

Call for abstracts

Road networks and environmental change

Illustrated paper session ID 8942

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Co-sponsors:

- Transportation Geography Specialty Group
- Human Dimensions of Global Change Specialty Group

Road networks transport people, goods and ideas across vast geographic spaces. While the development of road networks is associated with the economic and social development of regions, increases in infrastructure and traffic are also known to cause a variety of ecological effects, including the fragmentation of landscapes and animal populations. Accessibility of remote areas by roads is a significant variable in processes of land cover and land use change (LCLUC). New research is exploring the dynamics of roads and traffic on wildlife populations, the effects of increased accessibility on indigenous and traditional societies, and the vulnerability of road networks to changing climatic conditions. This illustrated poster session calls for research contributions in the spatial and geographical dimensions of road ecology. We especially encourage graduate students to contribute. Potential topics could include but are not limited to:

- methods for the analysis of road network systems
- models examining the role of road networks in social and environmental change
- effects of roads and traffic on wildlife populations, spread of invasive species, and other ecological perturbation
- the consequences of road network development in traditional or indigenous societies
- the comparative effects of road network development in diverse ecological systems
- comparison of ecological effects of climate change and road network development, including identification of synergies between them
- road network development as a driving force of LCLUC

To participate in the session, please submit your abstract at www.aag.org, and send your personal identification number (PIN) (received from AAG after submitting your abstract) to coffin@usgs.gov.

Please note that the deadline for abstract submission is October 28, 2009.

Session Organizers:

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