Road Ecology, Integrating Transportation and the Natural Environment: Defining the Road-Effect Zone

CRN: 44318
Units: TTP 289 Seminar, 2 units
When: Winter 2008, Tuesdays 3 – 5pm
Where: Plant and Environmental Sciences, Room 2005 (http://www.cevs.ucdavis.edu/map/)
Instructors: Fraser Shilling, Alison Berry Katie Benouar
Contact: Fraser Shilling, fmshilling@ucdavis.edu

Impacts to wildlife and habitat:

January 8  Opening the Black Box of the “Road Effect Zone” – Fraser Shilling (UCD)
Region-scale fragmentation and connectivity – Jim Thorne & Patrick Huber (UCD)
January 15  Modeling of multiple environmental effects in transportation-system planning – Fraser Shilling (UCD)
January 22  Permeability of highways to wildlife movement – Jim Quinn (UCD)
When is a trail more like a road? Impacts of motorized recreation on public lands – Sarah Reed (TWS)
January 29  Road and highway sound effects – Jessica Blickley (UCD) and Ed West (Bio-Acoustics Consultant)

Impacts to waterways:

February 5  California highway runoff quality – Masoud Kayhanian (UCD)
February 12 Managing storm-water quality from highway systems – Brian Currier (CSUS)

Impacts to plant communities

February 19 Effects of road and highway-associated chemicals on soils and plants – Alison Berry & Wendy Silk (UCD)

Impacts to human communities:

February 26 Urban air quality as a consequence of highways and traffic – Tom Cahill (UCD)
March 4  Urban community fragmentation and connectivity by roads and highways – Susan Handy (UCD)

Integrating Effects

March 11  An integrated approach to defining the “Road Effect Zone” – Fraser Shilling (UCD)