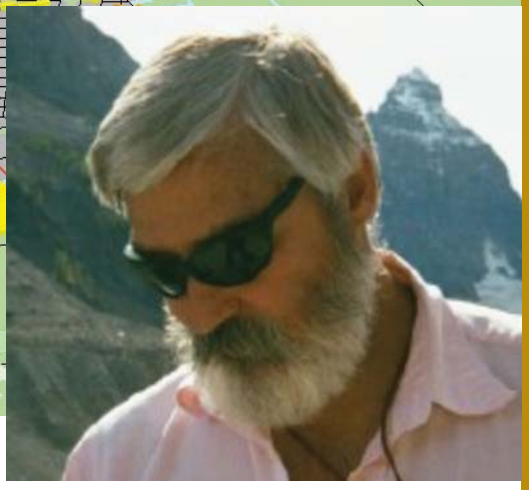
GLOBAL WARMING, LAND USE & TRANSPORTATION MODELING

PRESENTATION BY PROFESSOR BOB JOHNSTON (UC DAVIS)

PRESENTED BY THE UC DAVIS TAHOE ENVIRONMENTAL RESEARCH CENTER



Date: **Wednesday, February 18, 2009**
Time: **5:30 – 7:30 p.m.**
Lecture begins promptly at 6:00 p.m.
Cost: **$5 donation requested. No-Host Bar.**
Location: **Assembly Rooms 139 & 141,**
Tahoe Center for Environmental Sciences
291 Country Club Drive, Incline Village, Nevada
(on the campus of Sierra Nevada College)

Professor Johnston is an Emeritus Professor with the UC Davis Department of Environmental Science & Policy and has been a member of state and regional advisory committees for transportation and air quality planning agencies and a local transportation commission. He is a member of the TRB Transportation and Land Development Committee, the NAS Committee on the Determination of the State of Practice of Metropolitan Travel Modeling, and is a Town Planning Commissioner in Truckee, California.

Transportation accounts for one-third of all CO2 emissions in California, so tackling it is critical to achieving the landmark global warming legislation to reduce the state's greenhouse gas emissions 30 percent by 2020. The link between land use and transportation planning has a role to play, but how much? Which policies would be most cost-effective: cap-and-trade or carbon taxes, incentives to buy high-mpg vehicles or parking charges? And how would economic impacts be distributed across households with high or low incomes?

Professor Johnston has developed a simple GIS-based urban growth model that answers these kinds of questions. This model is now being used by 20 California counties for land use, transportation and natural resource planning. Professor Johnston will present an overview of the model, showing the kinds of information the model can provide. He will also discuss the implications of the new California global warming laws for the Tahoe basin, and what options it might use to comply.

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