



POLITÉCNICA

SEMINARIOS (SEMINARS)

MÁSTER UNIVERSITARIO EN SISTEMAS DE INGENIERÍA CIVIL

-CURSO 2021/2022- PROPUESTA DE SEMINARIO (SEMINAR PROPOSAL)



UNIVERSIDAD POLITÉCNICA DE MADRID
ETSI CAMINOS, CANALES Y PUERTOS

Título (*Title*)

Challenges of urban mobility

Ponente (*Lecturer*)

Professor Susan Handy, Department of Environmental Science and Policy at the University of California at Davis.

Professor Susan Handy teaches in the Department of Environmental Science and Policy at the University of California at Davis. She has courses in the Environmental Policy and Planning major and in the Transportation Technology and Policy Program. Her recent work includes a series of studies on bicycling in Davis, a study of the effects of the opening of the first "big box" store in Davis, the development of a method for estimating vehicle trip generation for "smart growth" development projects in California, and an assessment of the available evidence on the effects of land use and transportation strategies on reducing vehicle travel and greenhouse gas emissions. She serves on the Committee on Women's Transportation Issues and the Committee on Transportation Education of the Transportation Research Board.

Resumen (*Abstract*)

The seminar will focus on strategies to reduce car dependency in urban areas -the main challenge for urban areas to meet sustainable development goals-. Within the strategies, the seminar will pay special attention: (i) to the relationship between transport and land use; (ii) to exploring the formation of attitudes towards cycling as an alternative mode of transport to the car; (iii) to the impacts of smart growth strategies on vehicle travel.

Programa (*Agenda*)

Day 1

Challenges of urban mobility: the problem of car use and how to deal with it (1,5h)

Urban planning: creating low car-dependent cities (1,5h)

Day 2

Cycling as an alternative mode of transport (1,5h)

Other strategies to reduce car dependency (1,5h)

Evaluación (*Evaluation*)

- (i) Attendance to the seminar (40%)
- (ii) Report from students, which will be equivalent to 34 working hours (60%)