



## **FORS380 Special Topics Seminar: Public Participation GIS**

Fernando Sanchez-Trigueros, School of Geography- University of Leeds

Brooke McBride, College of Forestry & Conservation- UM, ALWRI

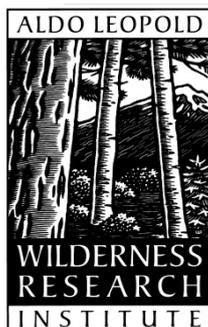
Robert Kenning, Natural Resources Department- SKC

Joint Fire Science Program

Friday, March 7<sup>th</sup>, 2014

10:00 am-3:00 pm

Beaverhead Building Room 111



## I. Introduction

Welcome to this Special Topics Seminar on Public Participation GIS (PPGIS). PPGIS involves local communities in the creation of GIS data and in spatial decision-making. Map-Me (Mapping Meanings) is an online PPGIS tool for the compilation of fuzzy perceptions of meanings attached to landscapes. The first half of the seminar will include a 45-minute lecture on PPGIS fundamentals and a 45-minute lecture on PPGIS applications, with a focus on case study examples from the Mission Mountains. The second half of the seminar will include a 30-minute demonstration of the Map-Me tool and a 30-minute brainstorming session about local environmental research questions that might be addressed using this tool. The seminar will conclude with a 1-hour Map-Me training session, with small groups each working to generate a new Map-Me survey that could be used to explore their respective research questions.

## II. Schedule

10:00-10:15	Introduction to the seminar	Sanchez-Trigueros/McBride/Kenning
10:15-11:00	Lecture 1: Fundamentals of PPGIS	Sanchez-Trigueros
11:00-11:15	(Break)	
11:15-12:00	Lecture 2: Applications of PPGIS	McBride/Sanchez-Trigueros
12:00-12:45	(Lunch break)	
12:45-1:45	Map-Me demonstration and brainstorming session	McBride/Sanchez-Trigueros/Kenning
1:45-2:00	(Break)	
2:00-3:00	Training session with Map-Me	Sanchez-Trigueros/McBride/Kenning

## III. Outline of Seminar

- Lecture 1: Fundamentals of PPGIS
  - Terminology
  - Goals
  - Pros and cons
  - Components of an online PPGIS tool
  - Conducting research using PPGIS data
  - Advanced topics in PPGIS data analysis
- Lecture 2: Applications of PPGIS
  - Overview of case study examples of PPGIS applied to social-environmental issues
  - The Wilderness Area Buffer Zone of the Mission Mountains case study
  - The Jocko Landscape Unit case study

- Map-Me Demonstration and Brainstorming Session
  - Demonstration of how to create a Map-Me survey
  - Brainstorming: local research questions that could be explored using Map-Me
- Training Session with Map-Me (instructors circulate)
  - Small groups access Map-Me site on respective computers
  - Groups register to create separate Map-Me accounts
  - Groups create new Map-Me surveys that would function to explore their respective research questions
  - Time allowing, group members each take their survey and examine the survey output

#### IV. Suggested Further Reading

Brown, G.C. 2014. Public Participation GIS (PPGIS) for regional and environmental planning: reflections on a decade of empirical research. *Journal of the Urban and Regional Information Systems Association* 24(2): 7-18. [online]:

[http://www.landscapemap2.org/publications/urisa\\_journal\\_2012.pdf](http://www.landscapemap2.org/publications/urisa_journal_2012.pdf)

Brown, G.C., J. Montag, and K. Lyon. 2012. Public Participation GIS: a method for identifying ecosystem services. *Society & Natural Resources* 25(7): 633-651. [online]:

[https://72.233.192.40/spatial-information/sites/cts.cwu.edu/spatial-information/files/documents/ecoservices\\_ppgis.pdf](https://72.233.192.40/spatial-information/sites/cts.cwu.edu/spatial-information/files/documents/ecoservices_ppgis.pdf)

Brown, G.C. and P. Reed. 2009. Public participation GIS: a new method for use in National Forest planning. *Forest Science* 55(2). [online]:

[http://www.landscapemap2.org/publications/PublicParticipationGIS\\_ForestScience.pdf](http://www.landscapemap2.org/publications/PublicParticipationGIS_ForestScience.pdf).

Carver, S., A. Watson, T. Waters, R. Matt, K. Gunderson and B. Davis. Developing computer-based participatory approaches to mapping landscape values for landscape and resource management. In Geertman, S. and J. Stillwell (eds.). 2009. *Planning support systems: best practice and new methods*. New York: Springer.

Forestry Commission. 2011. Public engagement in forestry: a toolbox for public engagement in forest and woodland planning. [online]: [http://www.forestry.gov.uk/pdf/Toolbox\\_introduction.pdf/\\$FILE/Toolbox\\_introduction.pdf](http://www.forestry.gov.uk/pdf/Toolbox_introduction.pdf/$FILE/Toolbox_introduction.pdf). Forestry Commission, Edinburgh, UK.. See also main webpage:

<http://www.forestry.gov.uk/forestry/infd-5xmf8l>.

Sieber, R. 2006. Public Participation Geographic Information Systems: a literature review and framework. *Annals of the Association of American Geographers* 96(3): 491-507. [online]:

[http://www.geo.hunter.cuny.edu/~rdatta/gis2/abstracts/paper/Sieber\\_PublicParticipationGIS.pdf](http://www.geo.hunter.cuny.edu/~rdatta/gis2/abstracts/paper/Sieber_PublicParticipationGIS.pdf)

Watson, A., S. Carver, R. Matt, T. Waters, K. Gunderson and B. Davis. Place mapping to protect cultural landscapes on tribal lands. In Stewart, W.P., D.R. Williams, and L.E. Kruger (eds.). 2013. *Place-based conservation: perspectives from the social sciences*. New York: Springer.