***Summary*** *-- Workshop on* Advancing GIScience with Open Source Technologies

**Organized by the International Cartographic Association’s (ICA) Commission on Open Source Geospatial Technologies**

Held at AutoCarto 2016, Albuquerque, New Mexico, USA

14 September 2016

AutoCarto is a Cartography and Geographic Information Society (CaGIS) research symposium held every two years. CaGIS is the US adhering body to the ICA. AutoCarto 2016 was held in Albuquerque, New Mexico, USA, 14 – 16 September 2016 (<http://tinyurl.com/p7bpfhp>).

The ICA Commission on Open Source Geospatial Technologies held a very well-attended, successful one-day workshop on “**Advancing GIScience with Open Source Technologies**” the day before the start of Auto Carto. The agenda (details below) consisted of seven invited speakers and an open discussion session. The Chair of the commission, Silvana Camboim, opened the presentations and led the discussion. The Vice-Chair, Michael P. Finn, organized the workshop and served as the moderator.

All the presentations are available on GitHub at this URL: <https://github.com/mfinnCEGIS/workshopAdvancingGIScienceOST/>, which includes the original agenda announcing the workshop and a subdirectory of photographs.

There were 22 attendees from six nations, including the President of ICA, Menno-Jan Kraak, who sat in during the afternoon and contributed to the lively open discussion. In addition, at the start of the discussion session, Helena Mitasova, North Carolina State University, USA, did a short, overview presentation of “Geo forAll.”

***Agenda***

Invited Speakers (30 minutes each for presentation and questions)

1. Silvana Camboim, Federal University of Paraná – UFPR, BRAZIL, Commission Chair, “Experiences on How Openness Can Help to Reduce Inequality”
2. Helena Mitasova, North Carolina State University, USA, “GRASS GIS as open source innovation platform: from dynamic visualizations to collaborative tangible modeling” (co-authors: Anna Petrasova, Vaclav Petras, and Brendan Harmon)
3. Alex Sorokine, Oak Ridge National Laboratory (ORNL), USA, “Open-Source Software in the Cutting Edge Geocomputaion Research at ORNL”
4. James McAndrew, Colorado State University, contractor to the US National Park Service, USA, "Keeping Map Data Current Through the Use of Volunteered Geographic Information"
5. Carl Sack, University of Wisconsin–Madison, USA, "Teaching Open Source Web Mapping" (co-author: Robert Roth)
6. Peter Baumann, Jacobs University Bremen, GERMANY, “Doing Datacubes in Open-Source: the rasdaman Scalable Array Engine”
7. Syed Monjur Murshed, European Institute for Energy Research (EIFER), GERMANY, “Development of an Open Source 3D Browser to Visualize Modeling Results" (co-authors: Jochen Wendel, Akila Sriramulu, and Alexandru Nichersu)

Open Discussion (1500) -- Silvana Camboim, Chair and Discussant

"Future Directions: Thinking About the Road Ahead"

Adjourn

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