

Dear colleagues,

Please accept the invitation to the 9th PEDOFRACT Conference with the general topic "Advances in soil scaling: theories, techniques and applications" be held at Barco de Ávila (Spain) on the second week of July 2019.

The keynote lectures will be given by:

John Crawford (Rothamsted Research, United Kingdom)

Patricia Garnier (INRA-AgroParisTech, Université Paris-Saclay, France)

Kirill Gerke (Russian Academy of Sciences, Moscow, Russian Federation)

Saskia Keesstra (Soil, Water and Land Use, Wageningen University and Research, The Netherlands)

Alexandra Kravchenko (Dept. of Plant, Soil, and Microbial Sciences, Michigan State University, USA)

Hans-Jörg Vogel (Department Soil System Science, Helmholtz Centre for Environmental Research – UFZ, Germany)

Similar to previous PEDOFRACTS, we will publish the collection of papers in a special issue of a broadminded journal. The previous special issues were “Fractals in soil science”, *Geoderma*, v. 88(3-4), 1999, (2) “Scaling, fractals and diversity in soils and ecohydrology”, *Ecological Modeling*, v. 182 (3-4), 2005, (3) “ (4) “Fractal geometry applied to soil and related hierarchical systems – fractals, complexity, and heterogeneity”, *Geoderma*, v. 134 (3-4), 2006, (5) " Fractal modeling and scaling in natural systems " *Ecological Complexity*, v. 6(3), 2009, (6) " Fractal and multifractal models applied to porous media", *Vadose Zone Journal*, 8(1), 2009, (7) "Scaling in Soil and Other Complex Porous Media *Vadose Zone Journal*, 12(3), 2013, “Structure and function of soil and soil cover in a changing world: characterization and scaling”, *Geoderma*, 2017, 287(1).

We will be happy to welcome you in El Barco de Ávila ([https://en.wikipedia.org/wiki/El\\_Barco\\_de\\_%C3%81vila](https://en.wikipedia.org/wiki/El_Barco_de_%C3%81vila)) and provide an excellent environment for the exchange of ideas and initiation of collaborations within and across research fields. El Barco de Ávila is a relatively small village in center Spain, 200 km west Madrid, at the skirts of Sierra de Gredos in its northwestern end. This location for PEDOFRACTs has been tried in the past, and has proven to be excellent for good interactions and reflections. A PEDOFRACT typically goes for three full days, a half day excursion to visit the spectacular surroundings will be organized. Buses for the roundtrip El Barco de Ávila – Madrid will be provided.

The workshop will run from July 9 to July 12. The workshop website is <http://blogs.upm.es/pedofractix/>

On behalf of the organizers,

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