**Referat wygłoszony w dniu 19 lipca 2021r. na posiedzeniu Komisji Nauk Geologicznych PAN Oddział w Krakowie**

**PhD Miguel Izquierdo Díaz**

Profesor Ayudante Doctor - Assistant Professor

ETSI de Minas y Energía (UPM) - School of Mining Engineering of Madrid

Prospección y Medio Ambiente (PROMEDIAM) - Prospecting and Environmental Laboratory

C/Alenza 4, 28003 Madrid (Spain)

e-mail: miguel.izquierdo@upm.es

**The importance of bioaccessibility in assessing pollutant availability**

Most soil quality guidelines, laboratory testing methods and risk assessments are based on the total concentration of contaminants, but that would not be the actual bioavailable concentration. Methods have long been developed to know the fraction to which different elements are associated (e.g. Tessier extractions), but they do not give an accurate estimate of what would be absorbed by humans.  Therefore, bioaccessible tests have been developed in recent years to estimate the fraction of a substance that is soluble in the gastrointestinal environment and is available for absorption. During the seminar it will be define what is bioaccessibility, the different methods to measure it, geochemical properties that might influence it, its importance for risk assessment and show some results we obtained in some studies that we carried out.