



**RIO18**  
21st World Congress  
of Soil Science

**21 WORLD CONGRESS OF SOIL SCIENCE**  
Sunday 12 – Friday 17 August 2018  
Rio de Janeiro, Brazil

Rio de Janeiro August | 12 - 17

## POSTER SESSION – DIVISION 1

| Monday (Aug, 13)               |      | TOTEN 2  |                                  |
|--------------------------------|------|--|----------------------------------|
| <b>C1.1.2</b><br><b>C1.1.3</b> |      | Structural indicators of soil quality using X-ray computed tomography<br>Using soil morphology and micromorphology indicators of soil health |                                  |
| Schedule                       | ID   | Title  | Presenter                        |
| 13:30 – 13:40                  | 1499 | Quantifying Soil Structure Dynamics in Agroforestry Riparian Buffers using X-ray Computed Tomography   | Anastassia Lagounova             |
| 13:40 – 13:50                  | 1071 | Renting the same room: Do roots repeatedly reoccupy the same spaces?   | Ivanah Oliver                    |
| 13:50 – 14:00                  | 3218 | Surface characterization of an entisol using microtomography   | Cassia Bezerra Machado           |
| 14:00 – 14:10                  | 857  | Using X-ray Computed Tomography to assess how plant roots can remediate compacted soils via reorganisation of the rhizosphere                | Jasmine Burr-Hersey              |
| 14:10 – 14:20                  | 1040 | X-ray computed microtomography against retention curve for assessing porosity in Latossolos (Ferralsols) with contrasting vegetation cover   | Marcelo Wermelinger Aguiar Lemes |
| 14:20 – 14:30                  | 3216 | X-Ray Computed Tomography applied to analyze soil structure under different infiltration techniques  | Larissa F Costa                  |
| 14:30 – 14:40                  | 271  | X-ray microtomography analysis of lime application effects on soil porous system   | Talita R. Ferreira               |
| 14:40 – 14:50                  | 1867 | Visualization of soil microstructure under conventional tillage and fallow using micro-focus x-ray computed tomography.                      | Isaiah IC Wakindiki              |
| 14:50 – 15:00                  | 1376 | Features of Fe-Mn nodules in southern Indiana Loess with a fragipan horizon  | Zhong-Xiu Sun                    |
| 15:00 – 15:10                  | 954  | Micromorphological description for final diagnosis of a non-lithified paleosol ? a case in Brazil  | Camila Fernandes Miranda         |



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