409 Atomistilor street, Magurele, Ilfov, Romania, RO-077125 Email: contact@lpr-st.ro; secretariat@lpr-st.ro Tel: +4021 457 45 50



CETAL Seminar

- Near-surface hyperspectral remote sensing of northern trees and forests -

The impact of climate change on forests requires measurement multiple spatial scales. For decades, passive remote sensing at techniques, where reflected or emitted radiation is monitored from space or airborne platforms, have been at the heart of such efforts. Excitingly, several recent developments have propelled the field include rapid progress in Al, the forwards. These launch of constellations of CubeSats, new techniques such as sun-induced fluorescence, the rise of drones and proximal sensing and the emergence of small hyperspectral imaging systems. These technologies are best used in combination to examine processes that occur between the traditional sensing scales of laboratory and satellite pixel. For example, we address the role of individual trees, which were previously obscure, in contributing to remote sensing measurements of evergreen forests. To do this we deploy hyperspectral imaging in greenhouse and close-to-ground research station settings, using and drone-based platforms. In this talk I I will describe scientific background, measurements, calibration activities and upcoming field campaigns in this direction.



Location: Seminar Room 1st floor, Center for Advanced Laser Technology – CETAL National Institute for Laser Plasma and Radiation Physics Atomistilor 409, Magurele, Ilfov 077125, Romania

LPR-ST team