The Department of Civil and Environmental Engineering at the University of Houston presents...

Special Seminar

Isolation and identification of microorganisms from copper mining wastes

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10:30-11:30AM
Engineering Building 2- Room E132 (Materials Lab)

Abstract
Isolation and identification of microorganisms (bacteria and fungi) from copper mining wastes. The mine is on the Amazonas region. In this styd, Dr. Oller will present fungi that are able to produce nanoparticles of copper and nickel. These nanoparticles can be produced with live and dead nanoparticles. Different fungi produce nanoparticles with different sizes. Some of then produce nanoparticles inside of the cell (ex *Rhodotorula mucilaginosa*) another outside (ex. *Hypocrea Lixii*). Industrial process has been proposed for large scale production.

Bio
Claudio Augusto Oller Nascimento has been Full Professor of Chemical Engineering at the Polytechnic, School University of Sao Paulo, since 1990. He holds a PhD in Chemical Engineering from Salford University, UK (1982). He also has a Master of Science degree in Chemical Engineering at the University of Sao Paulo.
He has been working in mathematical modeling (chemical and photochemical process) and in the last years his investigations focusing in biotechnological problems (bioremediation, bio-process, biosynthesis of nanoparticles)
He Coordinates many projects sponsored by industry (ex. Petrobras, Vale, Alcoa Foundation) and by Brazilian Research Agencies (ex. Fapesp, Cnpq, CAPES)
He has been coordinator of the Chemical Engineering Program at FAPESP and CNPq.