



4th WORKSHOP ON ENVIRONMENTAL ENGINEERING
Environmental Engineering Program (PEA)
POLI/EQ/UFRJ
June 11 - 15, 2018
SUSTAINABLE TECHNOLOGICAL INNOVATIONS

June 11 - 13 – SHORT COURSES

LOCAL: UFRJ – Centro Tecnológico – Bloco D – sala 220 (Auditório André Rebouças)

	11/06/2018 Subject: Technological Innovation on Waste Management	12/06/2018 Subject: Life Cycle Assessment	13/06/2018 Subject: Technological Innovation and environment
Morning (9-12h)	Urban Mining <u>Lucia Helena Xavier and Francisco Mariano Lima</u> Centro de Tecnologia Mineral (CETEM) - Brasil	Life cycle assessment: methodological aspects and case studies <u>Loles Bovea</u> Universitat Jaume I – Espanha	Impact of global change on primary production <u>Mario Giordano</u> Università Politecnica delle Marche – Italy
Afternoon (13-16h)	Urban Mining <u>Lucia Helena Xavier and Carlos Peiter</u> Centro de Tecnologia Mineral (CETEM) - Brasil	Life cycle assessment: methodological aspects and case studies <u>Irma Teresa Mercante</u> Facultad de Ingeniería. Universidade Nacional de Cuyo – Argentina	Climate change and energy transition <u>Neven Duic</u> University of Zagreb – Croatia



June 14 - 15 – LECTURES

LOCAL: UFRJ – Centro Tecnológico – Bloco D – sala 220 (Auditório André Rebouças)

14/06/2018		15/06/2018	
Subject: Technological Innovation in Environment		Subject: Technological Innovation on residues	
08:15h	Opening session		
08:30-09:30h	<p><i>Producing algal biomass of controlled quality requires a deep understanding of basic metabolism</i></p> <p><u>Mario Giordano</u> Universit� Politecnica delle Marche (Italy)</p>	08:30-9:30h	<p><i>The role of carbon capture and utilization in smart energy systems</i></p> <p><u>Neven Duic</u> University of Zagreb (Croatia)</p>
09:30- 10:00h	<p>Development and analysis of technological alternatives for carbon reduction in thermal power generation and CO₂-rich natural gas purification</p> <p><u>George Victor Brigag�o</u> PEA/UFRJ</p>	09:30-10:00h	<p>A study of the risks existent in silos and the investigative methodology of their accidents</p> <p><u>Ana Carolina Souza Rosa</u> PEA/UFRJ</p>
10:00-10:15h	Coffee Break	10:00-10:15h	Coffee Break
10:15-10:45h	<p>RED DE INGENIER�A EN SANEAMIENTO AMBIENTAL REDISA</p> <p><u>Maria Cristina Moreira, Loles Bovea, Irma Mercante</u></p>	10:15-11:15	<p>E-waste urban mining</p> <p><u>Lucia Helena Xavier</u> Centro de Tecnologia Mineral (CETEM) - Brasil</p>
10:45-11:30h	<p>Household waste electrical and electronic equipment: characterization, consumer habits and end-of-life scenarios</p> <p><u>Loles Bovea</u> Universitat Jaume I – Espanha</p>		
11:30-13:00h	Lunch	11:15-13:00h	Lunch
13:00-13:30h	<p>LCA methodology and optimization of energy output of PV modules in a complete BIPV system towards nZEB via experimental design</p> <p><u>Mohammd K. Najjar</u> PEA/UFRJ</p>	13:00-13:30h	<p><i>Towards Sustainable Development Measurement: Life Cycle Assessment</i></p> <p><u>Cassia Maria Lie Ugaya</u> Universidade Tecnol�gica Federal do Paran� (UTFPR) - Brasil</p>
13:30-14:15h	<p>Recycling of waste materials in concrete building elements</p> <p><u>Irma Teresa Mercante</u> Facultad de Ingenier�a. Universidade Nacional de Cuyo – Argentina</p>	13:30-14:30h	<p>Greenhouse gas emissions related to biodiesel from traditional soybean farming compared to integrated crop-livestock systems</p> <p><u>Elisa Maria Mano Esteves</u> PEA/UFRJ</p>
14:15-14:45h	<p>CO₂ management: a comparative sustainability analysis</p> <p><u>Igor Lapenda Wiesberg</u> PEA/UFRJ</p>	14:30-15:00h	ART AND PHOTO EXPOSITION
14:45-15:00h	Coffee Break	15:00-15:15h	Coffee Break
15:00 – 16:30h	Poster presentation PEA/UFRJ Students	15:00 – 16:30h	Poster presentation PEA/UFRJ Students
16:30-18:00h	REDISA MEETING		



ORGANIZING COMMITTEE:

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ELEN BEATRIZ ACORDI VASQUES PACHECO
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LIDIA YOKOYAMA
MAGALI CHRISTE CAMMAROTA
OFELIA DE QUEIROZ FERNANDES ARAUJO
SELMA GOMES FERREIRA LEITE

SCIENTIFIC COMMITTEE

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SUPPORT

