Seminars 2022

Dr. Bojan Batinić

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in Waste Management,
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Cycle of Seminars

Day		Topic
Monday, 19 Dec 2022	*14:00-16:00 Aula B.2.4*	Management of WEEE and fate of critical metals (CM) within treatment chain
Wednesday, 21 Dec 2022	*11:00-13:00 Aula Seminari Dip. DICATAM*	Food waste characteristics and importance of its proper management in line with circular economy principles

UNIVERSITÀ DEGLI STUDI DI BRESCIA

CeTAmb LAB – UniBS – Via Branze 43, Brescia

Brief presentation of the seminars

Management of WEEE and fate of critical metals (CM) within treatment chain

Waste electrical and electronic equipment (WEEE) represent one of the fastest growing waste streams in the world, with an annual growth rate of 3% to 5%. In addition to containing potentially hazardous substances, it also contains valuable secondary raw materials which can be recovered by adequate recycling and recovery treatment. Pre-treatment is a key step in e-waste management to ensure the efficiency of subsequent processes and the quality of recyclable materials . Currently, conventional recycling methods are largely based on recovering ferrous and non-ferrous metals, plastic and glass, but majority of critical metals (CM) and rare earth elements (REE) are lost during the pre-treatment processes. Through this seminar, general principles of WEEE management with focus on currently applied pre-treatment methods and fate of CMs and REEs within the WEEE treatment chain, will be addressed.

Food waste characteristics and importance of its proper management in line with circular economy principles

Food waste has been marked as one of the most important waste streams in sustainable waste management systems. Its improper management can have a great potential negative effect on the environment and human health. Nowadays, food waste is a significant global problem, which is evidenced by the fact that about 1.3 billion tons, or one third of edible food produced by humans is thrown away every year, i.e., it ends up as waste. Apart from food waste in households, significant amounts of this waste flow are generated from the commercial and hospitality sector sources, including restaurants. Within seminar, methodology to quantify the amount and composition of generated food waste from restaurants, as well as possibilities for its prevention and treatment options in line with circular economy principles will be elaborated.

Brief presentation of Dr. Bojan Batinić

Bojan Batinić (1981) is Associate Professor at the University of Novi Sad (Serbia) - Faculty of Technical Sciences - Department of environmental engineering. His field of research is designing and development of waste management systems. His key research areas are related to waste amount and composition analysis, modelling and projection of future waste characteristics, possibilities for utilization of different waste materials, waste collection, transportation and transfer analysis, design and development of waste management systems in line with EU Directives, local and regional waste management planning, Environmental Risk Assessment, etc. He is author and co-author of over 50 scientific papers related to topic of solid waste management, published in SCI Journals and International conferences. In previous professional work he was engaged in more than 30 national and international projects in the field of environmental protection and waste management.