



CEA Green Lab

The CEA Green Lab is an initiative of the Centre for Environmental Sciences of Vitoria-Gasteiz to research on innovative ideas for the city's environmental improvement. Under its goals is the organization of training and information activities in areas of sustainable development, such as the summer course here presented. Since 2017, a scholarship program has incorporated young researchers in various fields, such as is the protection and restoration of municipal soils.



PhytoSUDOE project

The European cooperation project PhytoSUDOE (2016-2018) has co-funded this course within its communication activities. Its objective is to advance in the management and restoration of degraded spaces through new techniques of phytoremediation. www.phytosudoe.eu



Director

Juan Vilela Lozano

Coordinator of CEA Green Lab
City council of Vitoria-Gasteiz.
Forestry Engineer by the UPM and Master in Landscape Architecture by the SUNY-ESF at Syracuse (USA) he works ecological planning and restoration of degraded soils.



Enrollment: www.uik.eus

	Until 31-07-2018	Until 09-10-2018
General	60,00 €	70,00 €
Exemption	20,00 €	20,00€

More information

UDA IKASTAROKA CURSOS DE VERANO SUMMER COURSES

Miramar Jauregia - Mirakontxa Pasealekua, 48 - 20007 Donostia / San Sebastián
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Speakers

Jesús Fernández Cascán
(Gobierno de Aragón)

Paula Maria Da Luz Figueiredo De Alvarenga
(Universidade de Lisboa)

Paula Garrido
(AFESA Medio Ambiente)

Michel Labrecque
(Université de Montréal)

Víctor Matamoros
(CSIC)

José Julio Ortega-Calvo
(CSIC)

Carlos Pachón
(EPA)

Bertrand Pourrut
(Lille Catholic University)

Carlos Rad Moradillo
(Universidad de Burgos)

Jaco Vangronsveld
(Hasselt University)

José Luis Vilas Vilela
(UPV/EHU)

Ane Zabaleta Lopetegui
(UPVEHU)



NEW TRENDS IN RESTORATION OF DEGRADED SOILS III: TRACE ELEMENTS, ORGANIC POLLUTANTS AND CONSTRUCTED WETLANDS

09.oct - 10.oct



Code: M04-18

Type of activity: Professional conference

Cycle: Science and technology, Energy and Environment

Location: Casa de la Dehesa de Olárizu (Vitoria-Gasteiz)

Languages: English / Spanish (simultaneous translation)

Academic validity: 20 hours

Laguntzaile nagusiak / Colaboradores principales / Main collaborators



Ikastaroaren laguntzaileak / Colaboradores del curso / Course collaborators



Description

The course will focus on the latest trends used for soil decontamination, examples from Europe and Canada. A case of phytoremediation practices (decontamination mediated by plants and soil microorganisms) for trace elements and organic pollutants is shown, including a specific session for the case of lindane. A session on artificial wetlands built to purify contaminated water is also included. Field visits to contaminated and degraded sites of the Vitoria-Gasteiz surroundings will be done (gravestones of Lasarte, Jundiz industrial polygon), where these techniques are being implemented or can be done in the short term.

Objectives

This third edition of Restoration of Degraded Soils will offer a global vision to the problem of soils and water remediation, here are included trace elements, organic pollutants and constructed wetlands. In this way, it is intended to communicate about the importance of the soil and the need for its conservation, focusing on the relationship between soil-plant-microorganisms and their decontaminating potential. In addition, one of the main objectives is to know new in situ decontamination technologies concerning phytoremediation and constructed wetlands; and also learn to apply phytotechnologies to degraded soils and contaminated waters through practical cases, including persistent organic pollutants such as lindane.

Program

October 09

08:45 - 09:00 Reception of assistants.

09:00 - 09:30 Opening session.

Iñaki Prusilla Muñoz. Councilor for Environment and President of CEA.

Luis Andrés Orive. Director of CEA

Juan Vilela Lozano. CEA Green Lab Coordinator

09:30 - 10:20 Keynote Speaker:

“EPA’s Green Remediation. Principles and Field Cases”

Carlos Pachón (EPA, USA)

10:20 – 11:00 “Bioremediation and bioavailability of organic chemicals”.

José Julio Ortega-Calvo (CSIC, Spain)

11:00 - 11:40 “The lindane case in Aragón. Lindane and water”

Jesús Fernández Cascán (Gobierno de Aragón, Spain)

11:40 – 12:00 Coffee break.

12:00 - 12:40 “Soil organic pollutants in the Basque Country Experiences and challenges”.

Paula Garrido (AFESA Medio Ambiente, Spain)

12:40 - 13:20 “Nanotechnology for decontamination: lindane and other organic pollutants”.

José Luis Vilas Vilela (UPV/EHU, Spain)

13:20 - 13:45 Round table.

Moderator: **Unai Artetxe** (UPV/EHU, Spain)

13:45 - 15:45 Lunch break.

15:45 - 17:45 Fiel trip. Visits to pilot projects: Graveras de Lasarte and experimental sites in Jundiz

Bus departure:

Parque de La Florida (C/Monseñor Cadena y Eleta)

Languages

English/Spanish with simultaneous translation.

October 10

08:45 - 09:00 Opening.

09:00 - 10:00 Keynote speaker.

“Willows for small community wastewater treatment: constructed wetlands or short-rotation plantations”.

Michel Labrecque (Université de Montréal, Canada)

10:00 - 10:45 “The use of constructed wetlands for pollution removal. Cases from Catalunya”.

Victor Matamoros (CSIC, Spain)

10:45 - 11:15 Coffee break.

11:15 - 12:00 “Soil: a view from the water”.

Ane Zabaleta Lopetegui (UPVEHU, Spain)

12:00 - 12:45 “Toward a sustainable phytomanagement of the metal contaminated megasite of Metaleurop Nord (France)”.

Bertrand Pourrut (Lille Catholic University, France)

12:45 - 13:15 Round table.

Moderator: **Michel Mench** (University of Bordeaux, France)

13:15 - 15:30 Lunch break.

15:30 - 16:15 “Organic amendments for metal chemical/phyto stabilization in soils. Cases from Portugal”.

Paula Figueiredo De Alvarenga (Universidade de Lisboa, Portugal)

16:15 - 17:00 “Management strategies of organic wastes for environmental protection against trace metal contamination”.

Carlos Rad Moradillo (Universidad de Burgos, Spain)

17:00 - 17:45 “Plants and their associated bacteria: partners in remediation of contaminated soils and groundwater. Field examples”

Jaco Vangronsveld (Hasselt University, Belgium)

17:45 - 18:15 Round table.

Moderator: **Iñigo Zuazagoitia** (CEA Green Lab, Spain)