



2. Schedule

2.1 MONDAY 16 JULY 2018

8:30-9:30 REGISTRATION	
9:30-10:15 PRESENTATION	
	<p>MAR LORENZO - Vice-Rector University of Santiago de Compostela</p> <p>CARMEN FERNÁNDEZ MORANE - Dean of the education faculty.</p> <p>CECILIA VÁZQUEZ SUÁREZ - Director of the Department of Youth, Social Engagement and Volunteering, Xunta de Galicia; Spain</p> <p>PIETRO BERTOLOTTO - Landcare Student Delegate-Agronomy, University of Pisa, Italy</p> <p>COLLEEN FUGATE - Landcare Student Delegate-Education, University of Santiago de Compostela, Spain.</p>
	<p>Land Degradation and Rehabilitation in Mediterranean Environments-Landcare Project - AGUSTÍN MERINO, Coordinator of the LandCare project, University of Santiago de Compostela, Spain</p> <p>Society of ecological restoration mission in Europe - JORDI CORTINA, Chair of the Society for Ecological Restoration</p>
10:15-11:30 METHODOLOGIES AND TOOLS FOR EDUCATION AND TRAINING ON LANDCARE	
Chair person: Madalena Dias Ferreira, Landcare Student, University of Lisboa	
10:15-10:30	Understanding ecological restoration with hand-drawn videos - JORDI CORTINA, University of Alacant, Spain
10:30-10:45	Methodologies and ICT: New ways of learning in Landcare Project - BEATRIZ CEBREIRO AND CAROL GILLANDERS, University of Santiago de Compostela, Spain

10:45-11:00	Active, self-reflective and active student learning: the portfolio - ANDREA GHONEIM, Danube University Krems, Austria
11:00-11:15	Keys to success and challenges of the Master's Programme on Ecosystem Restoration - JOSÉ M. REY-BENAYAS, University of Alcalá de Henares, Spain
11:15-11:30	DISCUSSION Presentation of the poster session: Colleen Fugate
11:30-11:45 COFFEE BREAK (not included in the conference fee)	
11:45-12:30 POSTER PRESENTATIONS: THE VISION OF THE STUDENTS	
Chair person: : Colleen Fugate, Landcare student, University of Santiago de Compostela	
Poster 1.1	Enhancement of the abandoned chestnut woodlands by quality swine productions - PIETRO BERTOLOTTI, University of Pisa, Italy
Poster 1.2	Terraces degradation and restoration in the Cinque Terre National Park - PIETRO BERTOLOTTI, University of Pisa, Italy
Poster 1.3	Soil indicators to assess the recovery and restoration strategies in <i>Pinus canariensis</i> c.sm. ex dc. ecosystems - IRENE DE LARA DEL REY, University of Pablo Olavide, Spain
Poster 1.4	Rewilding in rural areas and conflictual coexistence with population: the case of feral horses in Aveto regional park (Italy). communication and scientific approach - EVELINA ISOLA, University of Genova, Italy
Poster 1.5	Vermicomposting as a sustainable tool for environmental equilibrium - EVA LÓPEZ, University of Vigo, Spain
Poster 1.6	Sowing and contribution of organic matter, a route of recovery of fire floods - XURXO VÁZQUEZ MONTENEGRO, University of Santiago, Spain
Poster 1.7	Microplastics in water sources of Samos, Greece - JOANA MARINHEIRO JORGE, University of Lisboa, Portugal
Poster 1.8	Degradation of forest ecosystems by fire and alien species in Galicia. germinative behaviour of <i>Daucus carota</i> (native) face to <i>Oenothera glazioviana</i> and <i>Helichrysum foetidum</i> (alien species) - SHEILA RIVEIRO, University of Santiago de Compostela
Poster 1.9	Coastal erosion and land uses in Mediterranean countries, in the context of The Landcare Project - ELINA VASILAKI, National and Kapodistrian University of Athens
Poster 1.10	Application of geophysical methods in the solution of environmental issues - IGNATIOS BAFAS, National and Kapodistrian University of Athens
Poster 1.11	Assessment of the post fire erosion in a planted site - MADALENA DIAS FERREIRA, University of Lisbon, Portugal
Poster 1.12	Landcare project: an involving experience - LORENZO DOMENICHINI, University of Pisa, Italy

12:30-13:30 DEGRADATION AND RESTORATION OF ENVIRONMENTS: THE VISION OF THE STUDENTS	
Chair person: : Pablo Ríos, Landcare Student, University of Santiago de Compostela	
12:30-12:45	The young georgofili blog: sharing ideas for the agriculture of the future - PIETRO BERTOLOTTI, University of Pisa, Italy
12:45-13:00	Landcare project, Pisa 2018 - IGNATIOS BAFAS, National and Kapodistrian University of Athens, Greece
13:00-13:15	Biochar as amendment for trace elements contaminated soils: The Guadiamar case study - PALOMA CAMPOS, Instituto de Recursos Naturales y Agrobiología de Sevilla, Spain
13:15-13:30	Toxicological bioassays to evaluate the effectiveness of a decontamination technique for arsenic contaminated waters - ANTONIO AGUILAR, University of Granada, Spain
13:30-13:45	DISCUSSION
13:30-15:00 LUNCH BREAK (not included in the conference fee)	
15:00-16:00 ENVIRONMENTAL EDUCATION AND AWARENESS	
Chair person: Ignatios Bafas, Landcare Student, University of Athens	
15:00-15:15	Involvement of small farmers in developing new agronomic technologies to prevent soil degradation and to increase food production and income - JORGE ETCHEVERS, Colegio de Postgraduados, Mexico
15:15-15:30	Coming to terms with ecological grief and walking to reconnect - ANNA PIGOTT, Swansea University, , United Kingdom
15:30-15:45	LandCare conversations for Tour Guides - SARA BARRENTO, Swansea University, United Kingdom
15:45-16:00	Learning about coastal areas rehabilitation in the Landcare project - ANNA KARKANI, University of Athens
	DISCUSSION
	Organization of the Campfire session: Pablo Ríos
16:00-17:30 CAMPFIRE SESSION: LANDCARE FOR THE FUTURE	
Chair person: Colleen Fugate, Pietro Bertolotto, Pablo Ríos, Madalena Dias, Patricia Domenech, Ignatios Bafas, Noemí Santiago; Joana Marinheiro Jorge	
16:00-17:00	The attendants will work in groups to discuss the following questions: <ul style="list-style-type: none"> ● Land degradation and their causes and consequences are properly perceived by the society? ● There is enough restoration effort of degraded lands carried out in your country? ● Is the teaching of land restoration properly addressed (university/country/...)?

17:00-17:30	<ul style="list-style-type: none"> ● Are the available teaching material appropriated to address the current environmental problems in Europe. What do you miss ● Might Land restoration be an emerging labor market and source on employment? ● What should be the role of stakeholders (companies, NGO, research center, universities, association, administration,...)? ● Do you think that an international network for education and training might contribute to improve the environment quality and fulfil the demands of an emerging labour market. <p>GENERAL DISCUSSION</p> <p>Presentation of the poster session: Madalena Días</p>
17:30-18:30 POSTER SESSION: ENVIRONMENTAL EDUCATION AND AWARENESS	
Chair person: Madalena Días, Landcare Student, University of Lisboa	
Poster 2.1	Landcare trips on the edge of reality - SARA BARRENTO, Center for Sustainable Aquatic Research (CSAR), Swansea, UK
Poster 2.2	Educational activities in the center of conservation and study of nature "Casa das Insúas" - ROSARIO BASANTA, I. E.S. Frei Martín Sarmiento, Pontevedra, Spain
Poster 2.3	The desertification is a global environmental problem, but it requires a local education training - FELIPE GARCÍA-OLIVA, Universidad Nacional Autónoma de México (UNAM), México
Poster 2.4	Landscape restoration for leisure parque do Lago: mount Gaiás, city of culture. Santiago 2015 - MERCEDES MÁQUEZ, Research Group Escola Galega da Paisaxe da Fundación Juana de Vega, Spain
Poster 2.5	The restored mine of As Pontes (Spain): the educational possibilities - AGUSTÍN MERINO, University of Santiago de Compostela, Spain
Poster 2.6	Combining scientific analysis and education to raise awareness about environmental contamination and degradation - VERÓNICA PIÑEIRO, University of Santiago de Compostela, Spain
Poster 2.7	Fire impacts and soil painting: a teaching project ESTELA MINTOS MOREU, I.E.S. Pontepedriña, Santiago de Compostela, Spain
Poster 2.8	The traveling forest: taking the preservation of biodiversity out for a field trip - CONCHI SÁNCHEZ, Instituto de Investigaciones Agrobiológicas de Galicia (IAG-CSIC), Santiago de Compostela, Spain
Poster 2.9	Lessons learnt after mining restoration: success and failure through PBL cases in el Bierzo coalfield (NW León, Spain) - SARA ALCALDE, University of León, Spain
Poster 2.10	Heritage based restoration of a former mining site, Rudabánya, Hungary - GABRIELA SÓGOR, Jardim Botânico da Ajuda, Lisboa

Poster 2.11	Activities of the teaching section of soil science in relation to soil knowledge and protection - MARÍA D. SORIANO, Universitat Politècnica de València, Valencia, Spain
Poster 2.12	The educational challenges in environmental degradation, in the framework of the LANDCARE PROJECT - MARTA MARTÍNEZ, NOEMÍ SANTIAGO, University of Santiago de Compostela
Poster 2.13	When teens meet toads: secondary school students and the conservation of amphibians - SEBASTIANO SALVIDIO, DISTAV, Earth Science, Environment, Life Department, University of Genova, Italy (Presented by SILVIA OLIVARI)
Poster 2.14	Land conversion and animal husbandry: increasing anxieties on soil and ecosystem health - GINA PANGGA, University of the Philippines Los Baños, Laguna, Philippines
Poster 2.15	Indigenous and restorative farming technologies for the improvement of soil quality: learning experiences with farmers - GINA PANGGA, University of the Philippines Los Baños, Laguna, Philippines
Poster 2.16	Student network of ecological restoration: a scientific niche for young Costa Rican researchers interested in endemic species vulnerable to climate change - WALTER HERNÁNDEZ, Student Network of Ecological Restoration, San José, Costa Rica
Poster 2.17	Tourism opportunities along the berg river – a journey from source to sea - NICOLE WAGNER, Western Cape Department of Agriculture, Western Cape, South Africa
Poster 2.18	Macao's Mangroves: from scientific research to environmental education - KAREN TAGULAO, University of St. Joseph, Macao SAR China

2.2 TUESDAY 17 JULY 2018

9:00-10:30 DEGRADATION AND RESTORATION OF ENVIRONMENTS: THE VISION OF THE EDUCATORS	
Chair person: Noemí Santiago, Landcare Student, University of Santiago de Compostela	
9:00-9:15	Bringing soil- and geo-sciences to society from different positions during an academic career - JORGE MATAIX SOLERA, Spanish Soil Science Society
9:15-9:30	The AEET working group on ecological restoration - CAROLINA MARTÍNEZ, Spanish Association of Terrestrial Ecology
9:30-9:45	Learning to argue about socioenvironmental issues through the practices of modeling. the case of bees - BLANCA PUIG, University of Santiago de Compostela, Spain
9:45-10:00	FLUVIO: a breaking-through international training doctoral program to restore rivers and riverscapes - TERESA FERREIRA, University of Lisbon, Portugal
10:00-10:15	Learning about contamination and decontamination in the framework of the LANDCARE Project - GRAZIA MASCIANDARO, University of Pisa and ILARIA MINARDI, West System, Italy
10:15 - 10:30	DISCUSSION Presentation of the poster session: Ignatios Bafas and Xurxo Vázquez
10:30-11:00 BREAK	
11:00-12.00 POSTER SESSION: 1) THE VISION OF EDUCATORS AND 2) THE SOCIETY ENGAGEMENT	
Chair person: Vicente Otero, Landcare student, University of Santiago de Compostela	
Chair person: Xurxo Vázquez, Landcare student, University of Santiago de Compostela	
	1) THE VISION OF EDUCATORS
Poster 3.1	Ecological restoration in Mexico: Efforts and perspectives - JULIO CAMPO, Universidad Nacional Autónoma de México (UNAM), México
Poster 3.2	Educational actions related with the effects of wildfire and different rehabilitation techniques on the soil-plant system (Galicia, NW Spain) - MONTSERRAT DÍAZ-RAVIÑA, Instituto de Investigaciones Agrobiológicas de Galicia (IIAG-CSIC), Santiago de Compostela, Spain
Poster 3.3	The territorial delegation of the Spanish soil society in Galicia (NW Spain): educational activities - MONTSERRAT DÍAZ-RAVIÑA, Instituto de Investigaciones Agrobiológicas de Galicia (IIAG-CSIC), Santiago de Compostela, Spain
Poster 3.4	Degraded land rehabilitation experience in the republic of Rwanda - MARIA L. FERNÁNDEZ MARCOS, University of Santiago de Compostela, Spain
Poster 3.5	Experiences in research & post-graduated education in latin-America - JUAN F. GALLARDO, C.S.I.C., Ex-Prof. & Senior Researcher, Salamanca, Spain

Poster 3.6	Testing the short-term hydroseeding effect on plant diversity after mining restoration - CAROLINA MARTÍNEZ, University of Valladolid, Spain
Poster 3.7	Innovative soil strategies for addressing knowledge gaps and enhancing training capabilities in post-mining restoration - MIRIAM MUÑOZ-ROJAS, University of Western Australia, Crawley, Australia
Poster 3.8	The educational activities of the Galician institute of agrobiological research (IIAG) - CONCHI SÁNCHEZ, Instituto de Investigaciones Agrobiológicas de Galicia (IIAG-CSIC), Santiago de Compostela, Spain
Poster 3.9	Designing your own experiment on fire effects on soils - CRISTINA SANTÍN, Swansea University, Swansea, United Kingdom
Poster 3.10	Designing of educational activities in Nature, Master at the USC - EUGENIO OTERO URTAZA, , University of Santiago de Compostela, Spain
Poster 3.11	Teaching land restoration at the Department of Soil Science-USC - MARÍA T. BARRAL, University of Santiago de Compostela, Spain
Poster 3.12	The application of sewage sludge for soil remediation: the educational possibilities of young soil scientists - COLLINS OGUTU MIRUKA, Sol Plaatje University, Kimberley, South Africa
Poster 3.13	Water movement and potential conductivity in the root zone of agricultural soils - AMEER ABDELMONEM, Menoufia university, Egypt
	2) THE SOCIETY ENGAGEMENT
Poster 4.1	Life evergreen with volunteer-lewo project life - MARÍA J. LÓPEZ CERNADAS, Dirección Xeral de Xuventude, Participación e Voluntariado, Xunta de Galicia, Spain
Poster 4.2	Living Lands, volunteer experience - PABLO RIOS, University of Santiago de Compostela, Spain
Poster 4.3	Ibaitik Badiara, from the river to the bay, soil and water bioengineering and training workshops - PAOLA SANGALLI, European Federation of Soil and Water Bioengineering
Poster 4.4	Forestry volunteering for the recuperation of burned areas in Tourón (Melón, Ourense) - ÁNGEL VÁZQUEZ DORRIO, Amigos da Terra, Spain
Poster 4.5	"Plantando cara ó Lume" university volunteering against wildfires in Galicia - NOEMÍ SANTIAGO, University of Santiago de Compostela, Spain
Poster 4.6	Risk areas for climate stress in coffee crops in Veracruz, Mexico - JOSÉ GERVA-SIO PARTIDA-SEDAS, Universidad Autónoma Chapingo, Veracruz, México
Poster 4.7	OINEZ BASOA: A network of afforested land by schools in Navarre. assessment and development of educational projects - ISABEL DE SOTO, Universidad Pública de Navarra, Spain

**12:00-13:30 DEGRADATION AND RESTORATION OF ENVIRONMENTS:
THE SOCIETY ENGAGEMENT**

Chair person: Joana Marinheiro Jorge, Landcare Student, University of Lisboa

12:00-12:15	Service-Learning and Social Responsibility of the University - MIGUEL A. SANTOS, University of Santiago de Compostela, Spain
12:15-12:30	Collaborative NGO-academic teaching experience in Landcare for native vegetation conservation - PATRICIA RODRÍGUEZ-GONZÁLEZ, University of Lisboa, Portugal
12:30-12:45	Soil and Water bioengineering in the Mediterranean AREA: The ECOMED Project - PAOLA SANGALLI, European Federation for Soil Bioengineering
12:45-13:00	Education in nature and eco-therapy as guides to refugee education - COLLEEN FUGATE, University of Santiago de Compostela, Spain
13:00-13:15	NATURA OBSERVA: an environmental volunteer program in Sintra-Cascais natural park - RITA MARAU, University of Lisboa, Portugal
13:15-13:30	Possibilities of education on River restoration in EDIA in the framework of the LANDCARE Project - LUISA PINTO, Empresa de Desenvolvimento e Infra-estruturas do Alameda-EDIA
13:30-13:45	The design of the arboreum stratum in cafetals based on local knowledge: learning experience in agroforestry - EMILIANO PÉREZ PORTILLA, Universidad Autónoma Chapingo, Mexico
	DISCUSSION

13:30-15:00 LUNCH BREAK(not included in the conference fee)

15:00-18:00 SHORT TRAINING COURSES

EDUCATIONAL VIDEO PRODUCTION FOR FLIPPED LEARNING AND MOOCS	EMPLOYMENT AND ENTREPRENEURSHIP IN LANDCARE
<p>CONTENTS</p> <ul style="list-style-type: none"> ● Flipped learning. ● MOOCs vs SPOCs (Massive Open Online Courses vs Small Private Online Courses) ● Educational video basics: <ul style="list-style-type: none"> - Script, still images, video sequences, sounds. - Audio / video devices to record video and still images - Recording the video: light, focus, sizes, formats. - Chroma effect. Basic use. - Basic editing video with free / Open Source software - Free image / sound repositories. Licenses and uses. <p>M. JOSÉ RODRÍGUEZ MALMIERCA, Director of Department e-learning-CESGA, Research Group Educational Technology, University of Santiago de Compostela</p> <p>LORENA CASAL OTERO, Faculty of Education Sciences, Research Group Educational Technology, University of Santiago de Compostela</p> <p>DIEGO NIETO CARIDE, Technical analyst of e-learning CESGA</p>	<p>CONTENTS</p> <p><u>EMPLOYABILITY</u></p> <ul style="list-style-type: none"> ● Job search and internships. ● Situation of the labor market. ● Labor market demands. university profiles. ● Create your: curriculum vitae europass, European skills passport (the Language passport) and cover letter. ● European resources for employment, professional practice and training. <p>GLORIA CRUZ, Labour orientation area, University of Santiago</p> <p><u>ENTREPRENEURSHIP</u></p> <ul style="list-style-type: none"> ● Introduction off concepts: what is a start-up; what is a business model? ● A new philosophy: lean startup. ● Introduction to business model canvas. ● Introduction to value proposition canvas. ● Practical application with real case studies. <p>JOSÉ M. REBOLO AND PATRICIA GONZÁLEZ ALONSO, Knowledge transfer and entrepreneurship office, University of Santiago</p>

2.3 WEDNESDAY 18 JULY 2018

9:00-19:00 SHORT TRAINING COURSES: FIELD TRIPS (lunch not included)	
SOIL CONTAMINATION: THE TOURO MINE IN PROCESS OF RESTORATION	EDUCATIONAL POSSIBILITIES OF AS PONTES MINE
<p>What we are going to learn?</p> <ul style="list-style-type: none"> ● The environmental problems associated with pyrite oxidation. ● The influence of geochemistry on the mobility of heavy metals. ● Techniques to restore contaminated areas. ● What is a technosol and how it can be used. <p>What we are going to discuss?</p> <ul style="list-style-type: none"> ● Techniques to work with students in contaminated areas (learning by doing). ● Education and awareness strategies to encourage the restoration of contaminated areas. 	<p>What we are going to learn?</p> <ul style="list-style-type: none"> ● The environmental problems associated with pyrite oxidation in mine reclamation. ● Techniques to restore large mine areas. ● Landform design in mine rehabilitation. <p>What we are going to discuss?</p> <ul style="list-style-type: none"> ● Techniques to work with students in restored mine areas (learning by doing). ● Education and awareness strategies to encourage the restoration of contaminated areas.
EMERGENCY TREATMENTS AFTER FOREST FIRES: THE CASE OF MONTE FARO	DONIÑOS'S DUNE SYSTEM AND WETLANDS: FACING UP THE GLOBAL CHANGE AND THE TOURISM CHALLENGES
<p>What we are going to learn?</p> <ul style="list-style-type: none"> ● The behavior of the fire and fire fighting strategy. ● Some causes of the wildfire in the region: fuel load, forest management, others. ● The damages of the fire on the vegetation and wildfires. ● To distinguished different soil burnt severities which can will useful to design the emergency stabilization planning and techniques. ● The plant revegetation: species and its relation with the soil burn severities <p>What we are going to discuss?</p> <ul style="list-style-type: none"> ● Techniques to work with students in burnt areas (learning by doing). ● Education and awareness strategies to prevent wildfires and encourage the restoration of burnt areas (visits, social engagement, . . .). 	<p>What we are going to learn?</p> <ul style="list-style-type: none"> ● The environmental problems of dune systems associated with global change and tourism. ● Strategies to preserve dune systems. ● The dynamics of coastal ecosystems as a basis for their sustainable management. <p>What we are going to discuss?</p> <ul style="list-style-type: none"> ● Techniques to work with students/population in dune systems (learning by doing). ● Education and awareness strategies to preserve and restore dune areas.

2.4 LANDCARE FOR THE FUTURE STANDS

1. LANDCARE PROJECT

UNIVERSITY OF SANTIAGO DE COMPOSTELA-USC

Learning about post-fire treatments in the Landcare project.

LANDCARE STUDENTS

FOREST RESEARCH CENTRE OF LOURIZÁN

Educational actions related with the effects of wildfire and different rehabilitation techniques on the soil-plant system.

M. TERESA FONTÚRBEL

NATIONAL AND KAPADISTRIAN UNIVERSITY OF ATHENS-UoA

- A flexible personal learning environment to foster learner-centred pedagogical approaches in land rehabilitation.
- Learning about coastal areas rehabilitation in the Landcare project.

NIKI EVELPIDOU, ANNA KARKANI

CNR-ISE PISA

- Soil contamination and decontamination in the Landcare project.
- Educational videos as a tool in the Landcare project.

GRAZIANA MASCIANDARO, SERENA DONI

UNIVERSITY OF LISBOA-ULISBOA

- Learning about rivers and wetlands conservation in the Landcare project.
- Dissemination activities in the Landcare Project.

TERESA FERREIRA, PATRICIA RODRÍGUEZ GONZÁLEZ

EMPRESA DE DESENVOLVIMENTO E INFRA-STRUCTURA DO ALQUEDA-EDIA

- Development of measures to minimize environmental impacts in Alqueva irrigate areas: hedge planting, riparian galleries and intercropping.
- Support in education and sensitization environmental area - alqueva projet.

LUISA PINTO, HELENA BARBOSA

ARCHIPELAGO

- Landcare students participating in land restoration, environmental education and marine and terrestrial monitoring.
- Volunteering as a strategy to align youth formation with society and environment.

ANASTASIA MILIOU

WEST SYSTEM

- Landfill biogas monitoring: a procedure to evaluate environmental sanitary risk assessment.
- Activities of Landcare students at west systems.

ILARIA MINARDI AND SARA VICIGUERRA

2. FUNDACIÓN, FIRE

- FIELDS FOR LIFE

MIRIAM PAJARES

3. THE EUROPEAN FEDERATION OF SOIL BIOENGINEERING EFIB

PAOLA SANGALLI

4. SPANISH SOIL SCIENCE SOCIETY-GALICIA

MONTSERRAT DÍAZ-RAVIÑA, M. TERESA BARRAL

5. GAME THEORY AND SOCIAL CARTOGRAPHY FOR LANDSCAPE RESTORATION

ANTONIO SUÁREZ

6. XUVENCIENCIA – PROMOTING SCIENCE AMONG YOUNG PEOPLE

WAJIH AL-SOUFI, University of Santiago de Compostela