



**The 13th Sino-French International Workshop on
Contaminated Soil Remediation:
*New Era of ECOLAND —
From Fruitful Past to Sustainable Future***

November 29th – December 1st, 2021

Online

Organizers

Sun Yat-sen University

University of Lorraine

French National Research Institute for Agriculture, Food and Environment



The 13th Sino-French International Workshop on Contaminated Soil Remediation: *New Era of ECOLAND* —

From Fruitful Past to Sustainable Future

November 29th – December 1st, 2021

Context of the workshop: The Laboratoire International Associé (LIA) Ecosystem Services provided by Contaminated Land (ECOLAND), created in December 2015, is the outcome of a fruitful cooperation between two laboratories, Laboratoire Sols et Environnement (LSE) of the University of Lorraine (UL) and the French National Research Institute for Agriculture, Food and Environment (INRAE) and the Guangdong Provincial Key Laboratory of Environmental Pollution Control and Remediation Technology (LEPCRT) of Sun Yat-Sen University (SYSU), around pollution issues and remediation of soil and water.

The main objectives of LIA ECOLAND joint Laboratory are to contribute to the knowledge of the functioning of contaminated land with persistent compound from mining or industrial operations, to identify and evaluate the ecosystem services that can be provided by land contaminated with persistent compound and also to developing strategies to enhance, restore or create new services from contaminated areas. The LIA ECOLAND leads many projects and supports the exchange of researchers and young talents, especially within the frame of Center of Excellence for Contaminated Soil and Groundwater Remediation (“111 Center”). It is also the gate for other partners and allows the creation of innovation opportunities not only in the field but also in other related fields.

Scope of this workshop: During the past 18 years, SYSU, UL and INRAE have successfully organized twelve Sino-French workshops in China and France. This upcoming workshop will celebrate the end of ECOLAND 1 and cherish the new era of ECOLAND 2 project. With the results of the period of fruitful collaboration that has just elapsed between 2015 and 2021, the perspectives will be presented and discussed. The workshop will thus present the scientific advances that the joint laboratory has achieved during ECOLAND 1 in the form of plenary conferences and flash presentations. During this workshop, we will also devote time to present the different facets of the ECOLAND 2 project, from the science to the functioning of the collaboration, with the aim of creating the best conditions and environments for carrying out fruitful work and contributing to the development of adapted strategies to support the ecosystem services provided by them.

Organizers

Sun Yat-sen University (SYSU)

University of Lorraine (UL)

French National Research Institute for Agriculture, Food and Environment (INRAE)

Supporters

Ministry of Science and Technology of P. R. China (MOST)
Embassy of France in Beijing, China
Consulate General of France in Guangzhou, China
South China Agricultural University (SCAU)
Guangdong Academy of Agricultural Sciences (GAAS)
Chinese Academy of Sciences (CAS)

Agenda

Date	Program
Nov. 29 Morning (FT) / Afternoon (CT)	Opening Ceremony Scientific Reports: Topic 1
Nov. 29 Afternoon (FT) / Evening (CT)	Scientific Reports: Topic 2
Nov. 30 Morning (FT) / Afternoon (CT)	Scientific Reports: Topic 3
Nov. 30 Afternoon (FT) / Evening (CT)	Scientific Reports: Topic 3&4
Dec. 1 Morning (FT) / Afternoon (CT)	Roundtable Discussion

Note: FT stands for French Time, CT stands for Chinese Time.

Participation

The workshop will be held online using ZOOM.
Please click the link below (or scan the QR code) to join:

Meeting ID: 685 453 1159

Code: 666777

<https://us02web.zoom.us/j/6854531159?pwd=MG01T3B2c28wTU95WFpuQnZONk5OZz09>



Organization Committee

Name	Affiliation
Rongliang Qiu	Professor, Director of <i>LIA</i> , <i>SYSU</i> , Vice President of <i>SCAU</i>
Jean-Louis Morel	Emeritus Professor of <i>UL</i> , Adjunct Professor of <i>SYSU</i>
Zheng Li	Chief Representative, Representation <i>INRAE en Chine</i>
Yetao Tang	Professor, Deputy Dean, <i>School of Environmental Science and Engineering (SESE)</i> , <i>SYSU</i>
Christophe Schwartz	Professor, Director of <i>LSE</i> , <i>UL-INRAE</i>
Shizhong Wang	Professor, Deputy Dean, <i>SESE</i> , <i>SYSU</i>
Chao Jin	Associate Professor, <i>SESE</i> , <i>SYSU</i>
Chunmei Zhao	Associate Professor, <i>SESE</i> , <i>SYSU</i>
Catherine Sirguy	Associate Professor, <i>LSE</i> , <i>UL-INRAE</i>
Yanhua Yang	Secretary, <i>SESE</i> , <i>SYSU</i>
Hermine Huot	Research Scientist, <i>LIEC</i> , <i>UL-CNRS</i>
Marie-Odile Simonnot	Professor, <i>LRGP</i> , <i>UL-CNRS</i>
Bofang Yan	Postdoctoral Fellow, <i>SESE</i> , <i>SYSU</i>
Wenshen Liu	Postdoctoral Fellow, <i>SESE</i> , <i>SYSU</i>
Stéphanie Ouvrard	Research Director, <i>LSE</i> , <i>UL-INRAE</i>
Geoffroy Séré	Professor, <i>LSE</i> , <i>UL-INRAE</i>
Liang Zeng	Ph.D candidate, <i>SESE</i> , <i>SYSU</i>

Contact Information

Dr. Catherine Sirguy: catherine.sirguy@univ-lorraine.fr

Dr. Wenshen Liu: liuwsh8@mail.sysu.edu.cn; 18933937862

SCHEDULE

29th November

Chairman, Directors of LIA, Rongliang Qiu and Christophe Schwartz

Opening Ceremony

Co-Host: Rongliang Qiu and Christophe Schwartz

08:00 – 08:40 (FT) / 15:00 – 15:40 (CT)

No.	Time	Presenters
Pre. 1	08:00 – 08:05 (FT) 15:00 – 15:05 (CT)	Ling Shi Director, Division of <i>European Affairs</i> , Department of <i>International Cooperation</i> , MOST of China
Pre. 2	08:05 – 08:10 (FT) 15:05 – 15:10 (CT)	Philippe Grieu Attaché for <i>Sciences & Technology</i> , in charge of <i>Life Sciences & Environment</i> , Embassy of France in Beijing, China
Pre. 3	08:10 – 08:15 (FT) 15:10 – 15:15 (CT)	Karl Tombre Vice President of <i>UL</i>
Pre. 4	08:15 – 08:20 (FT) 15:15 – 15:20 (CT)	Yutong Lu Director, <i>Office of International Cooperation & Exchange</i> , <i>SYSU</i>
Pre. 5	08:20 – 08:25 (FT) 15:20 – 15:25 (CT)	Jean-François Soussana Vice President of <i>INRAE</i>
Pre. 6	08:25 – 08:30 (FT) 15:25 – 15:30 (CT)	Lianpeng Sun Dean, <i>School of Environmental Science and Engineering</i> , <i>SYSU</i>
Pre. 7	08:30 – 08:35 (FT) 15:30 – 15:35 (CT)	Christophe Schwartz Director of <i>LIA</i> , <i>UL-INRAE</i>
Pre. 8	08:35 – 08:40 (FT) 15:35 – 15:40 (CT)	Rongliang Qiu Director of <i>LIA</i> , Vice President of <i>SCAU</i>

Tea Break and Group Photo (Chao Jin)

08:40 – 08:55 (FT) / 15:40 – 15:55 (CT)

Topic 1: Fundamental biogeochemistry and fate of the pollutants

Session 1: Biogeochemical processes

Session Chair: Shizhong Wang

08:55 – 10:00 (FT) / 15:55 – 17:00 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	08:55 – 09:15 (FT) 15:55 – 16:15(CT)	Shizhong Wang, SYSU Mechanisms of metal(loid) immobilization in biological aqua crust in poly-metal tailing pond of South China
Pre. 2 Flash	09:15 – 09:20 (FT) 16:15 – 16:20 (CT)	Hermine Huot, <i>UL-CNRS</i> Evolution of soil properties along a chronosequence of abandoned rare earth mine tailings under natural succession
Pre. 3 Flash	09:20 – 09:25 (FT) 16:20 – 16:25 (CT)	Chao Jin, <i>SYSU</i> Fate and transport of colloidal and nano particles in porous media: what really matters?
Pre. 4 Flash	09:25 – 09:30 (FT) 16:25 – 16:30 (CT)	Thibault Sterckeman, <i>UL-INRAE</i> Could root-excreted iron ligands contribute to cadmium and zinc uptake?
Pre. 5 Flash	09:30 – 09:35 (FT) 16:30 – 16:35 (CT)	Kengbo Ding, <i>SYSU</i> Simultaneous determination of the number concentrations and size distributions of kaolinite and goethite nanoparticles in soil nanoparticles by dual analyte single particle ICP-MS
Pre. 6 Flash	09:35 – 09:40 (FT) 16:35 – 16:40 (CT)	Serge Ilunga, <i>UL-INRAE</i> Impact of termites on copper and cobalt biogeochemical cycles in Katanga, Democratic Republic of Congo
Pre. 7 Flash	09:40 – 09:45 (FT) 16:40 – 16:45 (CT)	Wenjun Yang, <i>SYSU</i> Cadmium isotope fractionation during Cd adsorption on iron oxyhydroxides
	09:45 – 10:00 (FT) 16:45 – 17:00 (CT)	Q&A

Session 2: Fate of contaminants

Session Chair: Guillaume Echevarria

10:00 – 11:30 (FT) / 17:00 – 18:30 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	10:00 – 10:20 (FT) 17:00 – 17:20 (CT)	Guillaume Echevarria , <i>UL-INRAE</i> Biogeochemical cycling of Nickel and Nutrients in a tropical hyperaccumulator cropping system
Pre. 2 Flash	10:20 – 10:25 (FT) 17:20 – 17:25 (CT)	Miaoyue Zhang, <i>SYSU</i> Roles of flow interruption on the retention and remobilization of functionalized multi-walled carbon nanotubes in a natural soil
Pre. 3 Flash	10:25 – 10:30 (FT) 17:25 – 17:30 (CT)	Noémie Janot, <i>UL-INRAE</i> Spatial distribution and speciation of Rare Earth Elements in mine tailings from ion-adsorption deposits
Pre. 4 Flash	10:30 – 10:35 (FT) 17:30 – 17:35 (CT)	Xiaoqian Jiang, <i>SYSU</i> Transport and retention of phosphorus in soil with addition of Mg-Al layered double hydroxides
Pre. 5 Flash	10:35 – 10:40 (FT) 17:35 – 17:40 (CT)	Clément Layet, <i>UL-INRAE</i> Soil properties and formulation regulate the phytoavailability of CeO ₂ nanomaterials
Pre. 6 Flash	10:40 – 10:45 (FT) 17:40 – 17:45 (CT)	Shengsheng Sun, <i>SYSU</i> Speciation and transformation of Cr during the basalt weathering
Pre. 7 Flash	10:45 – 10:50 (FT) 17:45 – 17:50 (CT)	Xueqian Zhong, <i>UL-INRAE</i> Assessing the future trends of soil trace metal contents in French urban gardens
Pre. 8 Flash	10:50 – 10:55 (FT) 17:50 – 17:55 (CT)	Marie-Noëlle PONS, <i>UL-CNRS</i> From contamination to environmental impact: the global perspective of life cycle assessment
	10:55 – 11:10 (FT) 17:55 – 18:10 (CT)	Q&A

11:10 – 11:30 (FT) / 18:10 – 18:30 (CT) **General Discussions**

11:30 – 12:10 (FT) / 18:30 – 19:10 (CT) **Lunch/Dinner Break**

Topic 2: Soil ecology & ecotoxicology in contaminated environments

Session 1: Ecology under the exposure of contaminants

Session Chair: Shanquan Wang

12:05 – 13:15 (FT) / 19:05 – 20:15 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	12:05 – 12:25 (FT) 19:05 – 19:25 (CT)	Shanquan Wang, SYSU OHRB in polluted urban rivers employ novel bifunctional RDases to dechlorinate PCBs and PCE
Pre. 2 Flash	12:25 – 12:30 (FT) 19:25 – 19:30 (CT)	Emmeline D’Incau, <i>UL-INRAE</i> Possibilities of improving bioremediation of soils contaminated with hydrocarbons by using soils microorganisms
Pre. 3 Flash	12:30 – 12:35 (FT) 19:30 – 19:35 (CT)	Shurong Liu, <i>SYSU</i> Nitrogen kinetic isotope effects of nitrification by the complete ammonia oxidizer <i>Nitrospira inopinata</i>
Pre. 4 Flash	12:35 – 12:40 (FT) 19:35 – 19:40 (CT)	Emile Benizri, <i>UL-INRAE</i> Parameters driving the diversity of hyperaccumulator's rhizobacteria depend of the study scale
Pre. 5 Flash	12:40 – 12:45 (FT) 19:40 – 19:45 (CT)	Guobao Wang, <i>SYSU</i> Structure and diversity of microbial communities in biological aqua crust of Pb/Zn tailing wetland
Pre. 6 Flash	12:45 – 12:50 (FT) 19:45 – 19:50 (CT)	Loïc Yung, <i>UL-CNRS</i> Transfer of mercury within a sediment-nettle-insect food web at a chlor-alkali landfill
Pre. 7 Flash	12:50 – 12:55 (FT) 19:50 – 19:55 (CT)	Nichen Zhang, <i>SYSU</i> Removal pathway quantification and co-metabolic mechanism evaluation of alkylphenols from synthetic wastewater by phenolic root exudates in the rhizosphere of <i>Phragmites australis</i>
Pre. 8 Flash	12:55 – 13:00 (FT) 19:55 – 20:00 (CT)	Julien Jacquet, <i>UL-INRAE</i> New insights into the ecological recovery of wastelands of the glass industry
	13:00 – 13:15 (FT) 20:00 – 20:15 (CT)	Q&A

13:15 – 13:30 (FT) / 20:15 – 20:30 (CT) **Tea break**

Session 2: Ecotoxicology of contaminants

Session Chair: Catherine Sirguy

13:30 – 15:00 (FT) / 20:30 – 22:00 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	13:30 – 13:50 (FT) 20:30 – 20:50 (CT)	Alexis Durand, <i>UL-INRAE</i> Bacterial endophyte diversity for soil remediation
Pre. 2 Flash	13:50 – 13:55 (FT) 20:50 – 20:55 (CT)	Chunmei Zhao, <i>SYSU</i> Ecological risk assessment of rare earth elements in Gannan area, China
Pre. 3 Flash	13:55 – 14:00 (FT) 20:55 – 21:00 (CT)	Thierry Beguiristain, <i>UL-CNRS</i> Toxicity to AMF of REEs contaminated soils from ionic mine tailings in China
Pre. 4 Flash	14:00 – 14:05 (FT) 21:00 – 21:05 (CT)	Lei Wang, <i>SYSU</i> Ecotoxicological assessment of environmental contaminants based on metabolomics
Pre. 5 Flash	14:05 – 14:10 (FT) 21:05 – 21:10 (CT)	Pierre Leglize, <i>UL-CNRS</i> Impact of phenanthrene on primary metabolite profiling in root exudates and maize mucilage
Pre. 6 Flash	14:10 – 14:15 (FT) 21:10 – 21:15 (CT)	Shuangshuang Chu, <i>SYSU</i> Metagenomic profiles and health risks of pathogens and antibiotic resistance genes in various municipal sludge
Pre. 7 Flash	14:15 – 14:20 (FT) 21:15 – 21:20 (CT)	Qingqi Lin, <i>SCAU</i> Uptake and metabolism of typical quaternary ammonium compounds in plants
Pre. 8 Flash	14:25 – 14:30 (FT) 21:25 – 21:30 (CT)	Xue Xiao, <i>SYSU</i> Size-dependent accumulation and toxicity of polystyrene microplastics in terrestrial organism <i>Eisenia fetida</i>
Pre. 9 Flash	14:30 – 14:35 (FT) 21:30 – 21:35 (CT)	Dan Sun, <i>SYSU</i> The mycorrhizal pathway of arsenic accumulation in As-hyperaccumulator <i>Pteris vittata</i>
	14:35 – 14:40 (FT) 21:35 – 21:40 (CT)	Q&A

14:40 – 15:00 (FT) / 21:40 – 22:00 (CT) **General Discussions**

30th November

Topic 3: Soil remediation techniques

Session 1: Farmland

Session Chair: Yetao Tang

08:00 – 09:20 (FT) / 15:00 – 16:20 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	08:00 – 08:20 (FT) 15:00 – 15:20 (CT)	Qitang Wu , <i>SCAU</i> Reducing Cd in rice by agronomic measures: Field experiments
Pre. 2 Flash	08:20 – 08:25 (FT) 15:20 – 15:25 (CT)	Thibault Sterckeman, <i>UL-INRAE</i> How could phytoextraction reduce Cd content in soils under annual crops?
Pre. 3 Flash	08:25 – 08:30 (FT) 15:25 – 15:30 (CT)	Yue Cao, <i>SYSU</i> Molecular mechanism of efficient arsenic absorption in <i>P. vittata</i>
Pre. 4 Flash	08:30 – 08:35 (FT) 15:30 – 15:35 (CT)	Guillaume Echevarria, <i>UL-INRAE</i> Implementing nickel agromining at pilot-scale, lessons from the LIFE AGROMINE project
Pre. 5 Flash	08:35 – 08:40 (FT) 15:35 – 15:40 (CT)	Bofang Yan, <i>SYSU</i> Remobilization: an important source of cadmium and zinc accumulation in wheat grains
Pre. 6 Flash	08:40 – 08:45 (FT) 15:40 – 15:45 (CT)	Jean-Louis Morel, <i>UL-INRAE</i> Soil remediation strategies to improve ecosystem services
Pre. 7 Flash	08:45 – 08:50 (FT) 15:45 – 15:50 (CT)	Junxiu Chen, <i>NJU</i> Effect of <i>PvACR3s</i> genes on manipulating plant arsenic accumulation
Pre. 8 Flash	08:50 – 08:55 (FT) 15:50 – 15:55 (CT)	Françoise Watteau, <i>UL-INRAE</i> Contribution of micromorphology to the remediation of soils developed on ionic REE mine tailings
Pre. 9 Flash	08:55 – 09:00 (FT) 15:55 – 16:00 (CT)	Hongxiang Zheng, <i>SYSU</i> Uptake & translocation of neodymium in hydroponically grown <i>Dicranopteris linearis</i>
	09:00 – 09:20 (FT) 16:00 – 16:20 (CT)	Q&A

Session 2: Mine areas

Session Chair: Jean-Louis Morel

09:35 – 11:30 (FT) / 16:35 – 18:30 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	09:35 – 09:55 (FT) 16:35 – 16:55 (CT)	Hermine Huot , <i>UL-CNRS</i> Phytostabilization of ionic rare earth element mine tailings in South China
Pre. 2 Flash	09:55 – 10:00 (FT) 16:55 – 17:00 (CT)	Yetao Tang, <i>SYSU</i> Root traits explain response of different plant functional groups towards plant-soil feedbacks in abandoned REEs mine tailings
Pre. 3 Flash	10:00 – 10:05 (FT) 17:00 – 17:05 (CT)	Philippe Laval Gilly, <i>UL-INRAE</i> Phytomanagement of polluted soils: sustainable phytoremediation with <i>Miscanthus x giganteus</i>
Pre. 4 Flash	10:05 – 10:10 (FT) 17:05 – 17:10 (CT)	Tenghaobo Deng, <i>GAAS</i> Weathering progression and the effect on Cr enrichment in basalt-derived soils in the Leizhou Peninsula, South China
Pre. 5 Flash	10:10 – 10:15 (FT) 17:10 – 17:15 (CT)	Nicolas Brosse, <i>UL-INRAE</i> Cotton-like fibers from of bast plant growing on contaminated soil
Pre. 6 Flash	10:15 – 10:20 (FT) 17:15 – 17:20 (CT)	Wenshen Liu, <i>SYSU</i> Silicon plays a key role in rare earth elements detoxification in a hyperaccumulator fern
Pre. 7 Flash	10:20 – 10:25 (FT) 17:20 – 17:25 (CT)	Amélia Lee Zhi Yi, <i>UL-INRAE-University of Queensland</i> Socio-technological approaches for adaptive land-uses – A case study with Nickel agromining in Greece
Pre. 8 Flash	10:25 – 10:30 (FT) 17:25 – 17:30 (CT)	Meina Guo, <i>SYSU</i> Formation mechanism of macroaggregates and redistribution process of rare earth elements in REEs tailings
Pre. 9 Flash	10:30 – 10:35 (FT) 17:30 – 17:35 (CT)	Apolline Auclerc, <i>UL-INRAE</i> Why and how considering soil biodiversity and its functions in site remediation?
	10:35 – 10:55 (FT) 17:35 – 17:55 (CT)	Q&A

10:55 – 11:30 (FT) / 17:55 – 18:30 (CT) **General Discussions**

11:30 – 12:00 (FT) Lunch break / 18:30 – 19:00 (CT) **Lunch/Diner break**

Session 3: Industrial and urban areas

Session chair: Christophe Schwartz

12:00 – 13:20 (FT) / 19:00 – 20:20 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	12:00 – 12:20 (FT) 19:00 – 19:20 (CT)	Weihua Zhang , <i>SYSU</i> Integrated remediation of organic and As contaminated sites by in-situ chemical oxidation based on thermally activated persulfate
Pre. 2 Flash	12:20 – 12:25 (FT) 19:20 – 19:25 (CT)	Pierre Faure-Cattelain, <i>UL-CNRS</i> The GISFI scientific program dedicated to the knowledge and the development on remediation technologies for degraded and polluted lands
Pre. 3 Flash	12:25 – 12:30 (FT) 19:25 – 19:30 (CT)	Zhuobiao Ni, <i>SCAU</i> Improve biological reductive defluorination of poly- and perfluoroalkyl substances (PFASs) by coupling vitamin B ₁₂ and electrochemical cathode
Pre. 4 Flash	12:30 – 12:35 (FT) 19:30 – 19:35 (CT)	Geoffroy Séré, <i>UL-INRAE</i> Construction of Technosols to reclaim degraded lands
Pre. 5 Flash	12:35 – 12:40 (FT) 19:35 – 19:40 (CT)	Nan Zhao, <i>SYSU</i> Mechanisms of Cr (VI) removal by modified biochars
Pre. 6 Flash	12:40 – 12:45 (FT) 19:40 – 19:45 (CT)	Christophe Schwartz, <i>UL-INRAE</i> Pedological characteristics of artificialized soils: A snapshot
Pre. 7 Flash	12:45 – 12:50 (FT) 19:45 – 19:50 (CT)	Juan Gao, <i>Institute of Soil Science, CAS</i> The potential application of reactive electrodes in EK-Fenton reactions for PAHs contaminated soil remediation
Pre. 8 Flash	12:50 – 12:55 (FT) 19:50 – 19:55 (CT)	Stephanie Ouvrard, <i>UL-INRAE</i> Moderately contaminated soil phytomanagement using short rotation coppice: first return of experience from BIOSAINE project
Pre. 9 Flash	12:55 – 13:00 (FT) 19:55 – 20:00 (CT)	Kunyuan Liu, <i>SYSU</i> Enhance removal of tetracycline hydrochloride in wastewater by Fe ₃ C@Fe ₀ loaded biochar: Mechanism, degradation pathway and toxicity evaluation
	13:00 – 13:20 (FT) 20:00 – 20:20 (CT)	Q&A

13:20 – 13:35 (FT) / 20:20 – 20:35 (CT) **Tea break**

Topic 4: Resourcing and recycling

Session Chair: Marie-Odile Simonnot

13:35 – 15:20 (FT) / 20:35 – 22:20 (CT)

No.	Time	Presenter & title of presentation
Pre. 1 Keynote	13:35 – 13:55 (FT) 20:35 – 20:55 (CT)	Marie-Odile Simonnot , <i>UL-CNRS</i> Overview of rare earths and their recycling in the context of the circular economy
Pre. 2 Flash	13:55 – 14:00 (FT) 20:55 – 21:00 (CT)	Kai Yan, <i>SYSU</i> High value-utilization of biomass waste
Pre. 3 Flash	14:00 – 14:05 (FT) 21:00 – 21:05 (CT)	Bastien Jally, <i>UL-INRAE</i> Key figures for rare-earth element agromining potential
Pre. 4 Flash	14:05 – 14:10 (FT) 21:05 – 21:10 (CT)	Jujun Ruan, <i>SYSU</i> Recovery of nickel and cobalt from hyperaccumulator by vacuum step-by-step reduction and magnetic separation
Pre. 5 Flash	14:10 – 14:15 (FT) 21:10 – 21:15 (CT)	Baptiste Laubie, <i>UL-INRAE</i> Developing sustainable agromining systems in agricultural ultramafic soils for nickel recovery
Pre. 6 Flash	14:15 – 14:20 (FT) 21:15 – 21:20 (CT)	Ye Xiao, <i>SYSU</i> Preparation and performance of selective adsorbents for removal of heavy metal anions
Pre. 7 Flash	14:20 – 14:25 (FT) 21:20 – 21:25 (CT)	Victor Allory, <i>UL-INRAE</i> Meta-analysis of the soil organic carbon in Technosols
Pre. 8 Flash	14:25 – 14:30 (FT)/ 21:25 – 21:30 (CT)	Jie Zhu, <i>SYSU</i> Debromination of brominated resin by vacuum pyrolysis
Pre. 9 Flash	14:30 – 14:35 (FT) 21:30 – 21:35 (CT)	Sabine Houot, <i>UL-INRAE</i> Organic matter recycling in agricultural soils
	14:35 – 14:50 (FT) 21:35 – 21:50(CT)	Q&A

General Discussions

14:50 – 15:20 (FT) / 21:50 – 22:20 (CT)

1st December

Roundtable: “Lessons from the past and plans for the future”

Host: Christophe Schwartz, Shizhong Wang

08:00 – 10:25 (FT)/15:00 – 17:25 (CT)

No.	Time	Presenters & content of presentation
1	08:00 – 08:25 (FT) 15:00 – 15:25 (CT)	Ecoland 1 (2015-2021) - report Jean-Louis Morel (<i>UL-INRAE</i>)
2	08:25 – 08:45 (FT) 15:25 – 15:45 (CT)	Topic 1 Research area for future Hosted by Yetao Tang (<i>SYSU</i>) & Catherine Sirguy (<i>UL-INRAE</i>)
3	08:45 – 09:35 (FT) 15:45 – 16:35 (CT)	Topic 2 Extended partnership: Hosted by Alexandre Chagnes (<i>UL-CNRS</i>), Marie-Odile Simonnot (<i>UL-CNRS</i>) <i>LabEx</i> (Alexandre Chagnes, <i>UL-CNRS</i>) <i>LRGP</i> (Marie-Odile Simonnot, <i>UL-CNRS</i>) <i>SCAU</i> (Yongtao Li, <i>College of Natural Resources and Environment</i>) <i>CAS</i> (Juan Gao, <i>Institute of Soil Science</i>) <i>SYSU</i> (Junpeng Shi, <i>School of Agriculture</i>)
4	09:35 – 09:45 (FT) 16:35 – 16:45 (CT)	Tea break
5	09:45 – 10:05 (FT) 16:45 – 17:05 (CT)	Topic 3 Application for joint projects Hosted by Chao Jin (<i>SYSU</i>) & Stephanie Ouvrard (<i>UL-INRAE</i>)
6	10:05 – 10:25 (FT) 17:05 – 17:25 (CT)	Topic 4 Exchanging programs and visiting activities Hosted by Chunmei Zhao (<i>SYSU</i>) & Geoffroy Séré (<i>UL-INRAE</i>)



Join the Workshop (Attendees)

Join the workshop by clicking the link or scanning the QR code:

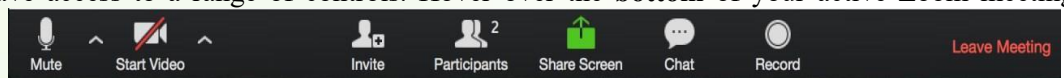
<https://us02web.zoom.us/j/6854531159?pwd=MG01T3B2c28wTU95WFpuQnZONk5QZz09>

If this is your first Zoom meeting on your device, click download and run Zoom. The *Zoom.exe* file will download, and you will need to **open** the file. **Please note: this only needs to be done once for any device on which you use Zoom for the first time.** DO THIS WELL IN ADVANCE OF THE SCHEDULED WORKSHOP.

Once set up: click *Join a Meeting* -> enter the **Meeting ID: 685 453 1159** -> then click *Join* -> enter **Password: 666777** -> then *Join Meeting*. Choose: *Join with Video* or *Join without Video*.

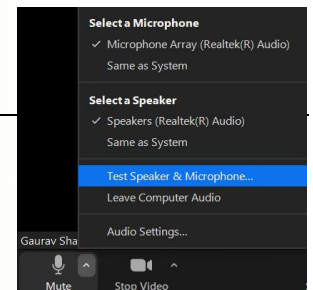
Note: You do not need a Zoom account to participate in the workshop.

Once you join, you will have access to a range of controls. Hover over the **bottom** of your active Zoom meeting window for the control bar.



MUTE/UNMUTE AND START/STOP VIDEO (Attendees)

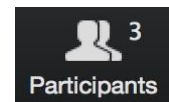
You can **Mute/Unmute** your microphone by clicking the microphone icon at the **bottom left of control bar**. If your device has a camera, you can turn it on/off by clicking the **Start/Stop** icon at the **bottom left**. TEST YOUR AUDIO AND VIDEO WELL BEFORE SPEAKING.



PARTICIPANTS (Attendees)

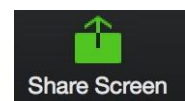
If you click on **Participants** (bottom tool bar), you can see who is currently in the meeting. The participants list also gives you the option to **raise your hand** or **rename yourself**.

- **Raise Hand** - notifies host and shows a prompt to simulate hand raise
- **Rename** - hover over your name to change it as it is seen in the participants list & video window



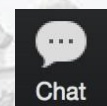
SHARE SCREEN (Speakers)

When you are ready to show a PowerPoint file or display a document, hover over the bottom of your Zoom screen and click on **Share Screen** — *and additionally be sure to click in the tiny check box, lower left, for Share computer sound*. Then click on **Share Screen** (lower right). Click on **Stop Share** when you are done sharing your screen (red button, top of your active window).



CHAT (Attendees)

Chat with individuals or everyone in the meeting. Click **Chat** to open up the chat window and chat with other participants or view chat messages. Select the drop down next to **To:** to change who you are chatting with.



For More Information

- Contact Technical Support <https://support.zoom.us/hc/en-us/articles/201362003-Zoom-Technical-Support>
Zoom Help Center <https://support.zoom.us/hc/en-us>
Getting Started <https://support.zoom.us/hc/en-us/categories/200101697-Getting-Started>
Tutorials <https://support.zoom.us/hc/en-us/sections/201740096-Training>
Mobile <https://support.zoom.us/hc/en-us/sections/200305413-Mobile>

· Cooperation History ·



6th Sino-French Workshop and summer school in Nancy (2013)

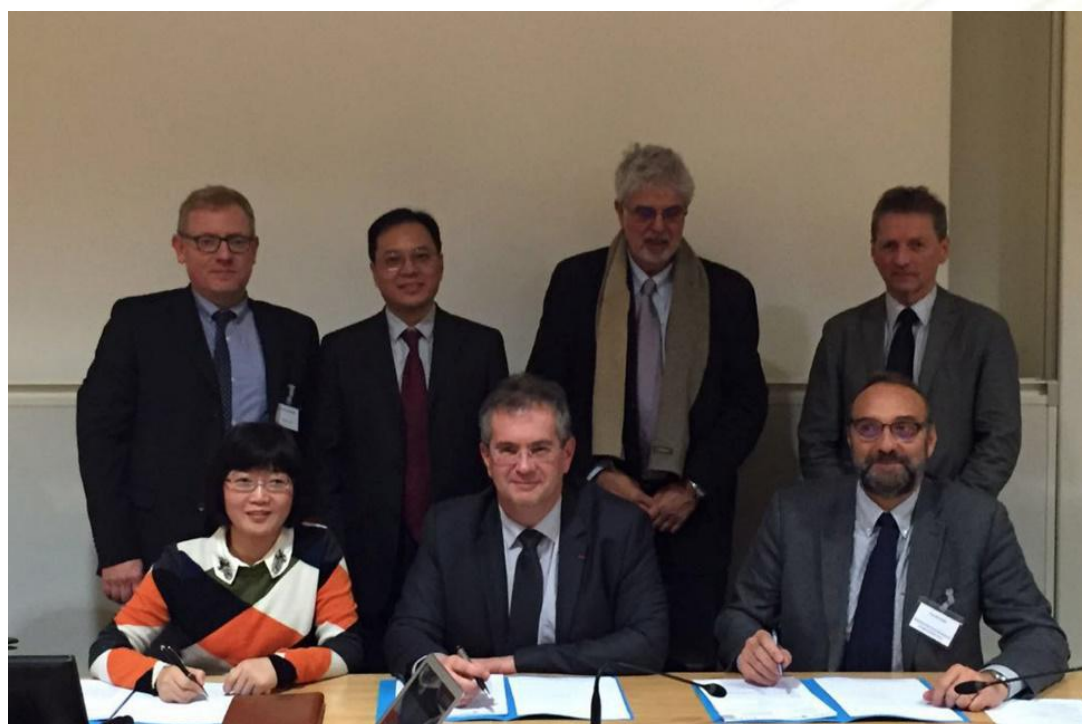


Prof. Jean-Louis Morel,
visiting professor of SYSU, at lecture (2013)

· Cooperation History ·



7th Sino-French Workshop in Guangzhou (2014)



Signing ceremony for the establishment of
ECOLAND in Nancy (2015)

· Cooperation History ·



Prof. Pierre Mutzenhardt, President of UL, and Prof. Karl Tombre, Vice President of UL, at SYSU (2016)



Prof. Olivier Le Gall, Deputy director for scientific affairs of INRA, at School of Environmental Science and Engineering, SYSU (2016)

· Cooperation History ·



9th Sino-French Workshop field excursion
(rare earth element mine tailings in Ganzhou city, 2016)



10th Sino-French Workshop field excursion
(GISFI base in Nancy, 2017)

· Cooperation History ·



11th Sino-French Workshop in Guangzhou (2018)



12th Sino-French Workshop in Nancy (2019)



中山大學
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