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IUCLAND - International University Cooperation of Land Protection in European-Asiatic Countries

(No. 561841-EPP-1-2015-1-IT-EPPKA2-CBHE-JP, 1/10/2015 to 1/10/2018)

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INTERNATIONAL SUMMER SCHOOL ON LAND DEGRADATION IN CHINA



Huazhong Agricultural University

Institute of Soil Science, Chinese Academy of Sciences

Fujian Normal University

Wuhan, P. R. China

27th May - 2nd June 2018



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Course descriptions

The “International Summer School on Land Degradation in China” will be held on 27th May - 2nd June 2018 at Huazhong Agricultural University, Wuhan, China. The topic of the summer school is “Soil Pollution and Remediation”.

The summer school will last one week, providing a wide range of intensive courses on Interfacial process of contaminants and soil remediation, Risk assessment of soil contaminants.

The standard course will be developed over 48 hours, including lectures and technical activities (on field), for a total 4 ETCS credits.

Objective and background

The Summer School is supported by the Education, Audiovisual and Culture Executive Agency (EACEA). It involves 12 Partners:

P1: Università degli studi del Molise (coordinator) - Italy

P2: Slovak university of Agriculture in Nitra Programme Country - Slovakia

P3: University of Zagreb Faculty of Agriculture Programme Country - Croatia

P4: FORMIT Programme Country - Italy

P5: Huazhong Agricultural University Partner Country - China

P6: Institute of Soil Science, Chinese Academy of Sciences Partner Country - China

P7: Fujian Normal University Partner Country - China

P8: Kyrgyz State Technical University named after I. Razzakov Partner Country - Kyrgyzstan

P9: Osh Technological University Partner country - Kyrgyzstan

P10: East-Kazakhstan State Technical University Partner country - Kazakhstan

P11: Studiogiuliano srl Programme Country - Italy

P12: M.Auezov South Kazakhstan State University Partner country - Kazakhstan

IUCLAND aims to improve the effectiveness of development and land protection strategies by increasing both cooperation capacity and best practices’ productivity, through educational patterns involving High Education Institutions (HEIs) and potential stakeholders, e.g. farmers’ association, development agencies, agricultural organizations, nongovernmental organizations (NGOs), decision-makers. The main objective is to create an international network in land degradation topics among universities and other organizations of the society at large aimed at:

- Establishing a structured cooperation for scientific research and knowledge transfer.
- Offering summer schools and workshops will train the actual and future generation of academics



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and students, able to do research and produce innovation in the framework of land degradation.

- Exchanging experiences and good practices related to educational programs among involved Programme and Partner countries.

Learning Model

- The learning model includes lectures, case studies, group projects, simulations. The evaluation system is based on written tests, and classroom work. The programme is held in English.
- Final work and final examination – 3 hours. The 10 minutes Group presentation and a closed-book exam will be arranged on 1st June and 2nd June, respectively. Both Chinese students and foreign students will be evaluated by the board of director and the summer school coordinator.
- Attendance is mandatory. To achieve satisfactory attendance a student must attend both scheduled lectures and planned training activities.

Scholarships & Selection of student candidates

Participation in the International Summer School in Wuhan is open to Chinese candidates from Huazhong Agricultural University, Institute of Soil Science, Chinese Academy of Sciences, and Fujian Normal University in a limit of 20×3 students with an Academic Master Degree or PhD program. The International Summer School in Wuhan offers a 30-40 number of foreign participation from IUCLAND participants (4-6 for each partners) with equivalent academic title and qualification according to the school system of the country where it has been awarded. The scholarships for candidates from China and foreign countries will be evaluated according to the criteria set by the IUCLAND academic institutions partners.

A maximum of 50-80 external auditors (students or stakeholders) will be admitted to a course on a space-available basis. The auditor that attends at class do not acquire credits. Auditors can attend classes regularly, and participate in discussions, but they are excluded from examinations.

Application

The application will be sent by e-mail addressed to Dr. Chuanqin Huang (hcq@mail.hzau.edu.cn) and in copy to Prof. Wenfeng Tan (tanwf@mail.hzau.edu.cn). In order to apply, it is necessary to submit a CV describing the academic and research career.

Payment of tuition & Accommodation

No registration fee is required.



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Lodging expenses and field trip of successful applicants will be covered by the IUCLAND project (No. 561841-EPP-1-2015-1-IT-EPPKA2-CBHE-JP) for the selected student by all Partners. Reservations for the participants during the week of the course having place in the International Academic Exchange Center of Huazhong Agricultural University (No. 1, Shizishan Street, Hongshan District, Wuhan 430070, P. R. China).

Summer School Information

Summer School Coordinator

Xianlong Zhang (Vice-president of Huazhong Agricultural University)

Board of Directors

Claudio Colombo (University of Molise)

Qiaoyun Huang (Huazhong Agricultural University)

Chenxiao Hu (Huazhong Agricultural University)

Wenfeng Tan (Huazhong Agricultural University)

Xin Song (Institute of Soil Science, Chinese Academy of Science)

Jinming Sha (Fujian Normal University)

Project manager

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Xiuhua Chen: chenxh@mail.hzau.edu.cn;

Chuanqin Huang: hcq@mail.hzau.edu.cn

Program & Schedule

The International Summer School (27th May-2nd June 2017) consists of 6 days of classroom lectures at the Huazhong Agricultural University and a 1 day on field activities, for an overall duration of 48 hours (4 ETCS credits). The classroom of the summer school will consist of lectures and discussions. Faculty Staff from the Seven universities involved in IUCLAND project and international experts will provide updated overviews on research at the frontier of interfacial process of contaminants, soil remediation technology and risk assessment of soil contaminants.

On 30th May, the group will travel to a field trip in Huangshi National Mine Park. The objectives of field trip are to increase awareness on soil pollution and remediation; providing a platform to share



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existing efforts and current developments on heavy metal contaminated site restoration; and promoting new teaching material in this topic. At the end of the course a certification of the acquired credits will be released.

Sunday 27 th May		
9:00-9:30	Opening of Summer School & Taking group photos	Prof. Xianlong Zhang Vice president of Huazhong Agricultural University
9:40-10:00	Questionnaires	Alina Utma Fondazione FORMIT
10:20-12:20	Trace elements and food quality	Prof. Fangjie Zhao Nanjing Agricultural University
14:00-16:00	Overview of land degradation in China	Dr. Yangbo He Huazhong Agricultural University
16:20-17:00	Discussion and evaluation	
Monday 28 th May		
9:00-11:00	Reactivity and transfer of soil contaminants: processes and modeling	Prof. Zhenqing Shi South China University of Technology
11:20-12:20	Soil information system as a tool of land protection	Prof. Pavol Bielek Slovak University of Agriculture in Nitra
14:00-16:00	Interaction of ions at the mineral-water solution interface	Prof. Xionghan Feng Huazhong Agricultural University
16:20-17:00	Discussion and evaluation	
Tuesday 29 th May		
9:00-11:00	The effect of microorganisms on the transformation of pollutants	Prof. Qiaoyun Huang Huazhong Agricultural University
11:20-12:20	Degradation of land resources in Kyrgyzstan: analysis of factors and ways of solving problems	Prof. Shamshiev Bakytbek OSH Technological University
14:00-16:00	Organic contaminants in soil-plant system	Prof. Yanzheng Gao Nanjing Agricultural University
16:20-17:00	Discussion and evaluation	
Wednesday 30 th May		
8:00-18:00	Field trip	Prof. Fan Liu, Prof. Wenfeng Tan Huazhong Agricultural University



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Thursday 31 st May		
9:00-11:00	Advances in soil quality standards of trace elements for agricultural land in China	Prof. Yibing Ma Chinese Academy of Agricultural Sciences
11:20-12:20	Soil contamination by trace metals	Prof. Marjia Romic University of Zagreb Faculty of Agriculture
14:00-16:00	Soil/groundwater contamination and remediation: fundamentals and engineering applications	Prof. Xin Song Institute of Soil Science, Chinese Academy of Sciences
16:20-17:20	Meeting with stakeholders (professors, local government officer, company employee et al.)	
Friday 1 st June		
9:00-11:00	Research on soil organic matter monitoring on dry degradational land	Prof. Jinming Sha Fujian Normal University
11:20-12:20	Soil and land degradation in Italy	Prof. Erika Di Iorio Molise University
14:00-15:00	Legislation related with Land Degradation in China	Dr. Mingxia Wang Huazhong Agricultural University
15:20-17:20	Group presentation	
Saturday 2 nd June		
9:00-10:30	Long-term regional monitoring of soil-rice contamination by heavy metals with implications for target remediation and food safety	Dr. Xingmei Liu Zhejiang University
10:50-11:50	Final test	
11:50-12:20	Awarding certificate and summarizing	