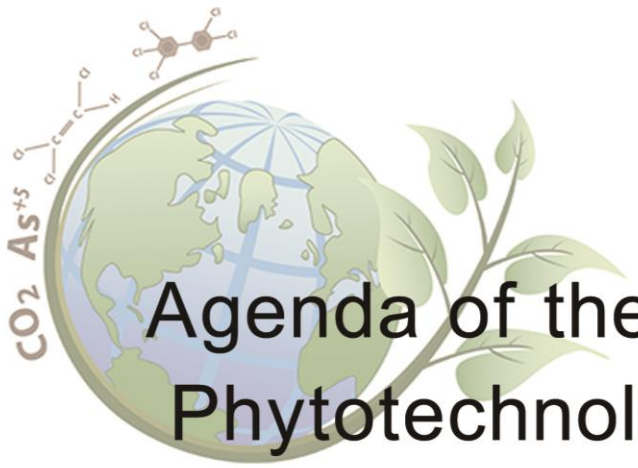
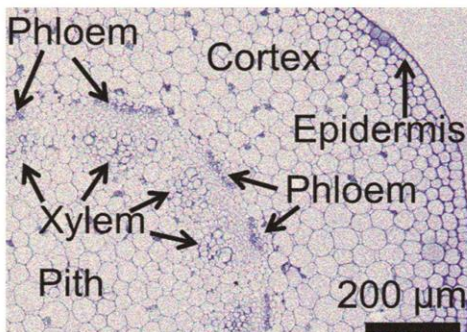




Agenda of the 13th International Phytotechnologies Conference

——Plant-Based Solutions for Environmental Problems:
From Lab to Field



26-29 September, 2016
Hangzhou, China.



Welcome to
The 13th International Phytotechnologies Conference
(PHYTOTECH 2016)

Venue: Zhijiang Hotel

Address: No. 188-200, Moganshan Road, Gongshu District, Hangzhou, China.

Conference secretariat:

- Registration and accommodation:

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欢迎各位代表参加“第十三届国际植物技术会议”

会议地点：之江饭店

地址：杭州市拱墅区莫干山路 188-200 号

会务联系人

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The 13th International Phytotechnologies Conference

September 26-29, 2016 Hangzhou China

Conference Agenda

Monday September 26th

Arrival and on-site registration	10:00-21:00
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Tuesday September 27th

Opening ceremony: (Reporting Hall 3rd floor)	
Opening ceremony Chaired by Prof. Yongming Luo	09:00-09:20
Group photo	09:20-09:50
Plenary session 1: Co-chairs: Prof. Yongming Luo & Dr. David Tsao	
Introduction to the Gordon Award by Prof. Lee Newman	09:50-10:00
Prof. Ming-hung Wong / Ecological restoration of man-made habitats, with emphasis on metal contaminated sites and completed landfills	10:00-10:30
Dr. David Tsao / Examining the feasibility of using constructed wetlands for produced water treatment	10:30-11:00
Prof. Fangjie Zhao / Mechanisms of arsenic uptake and translocation in plants	11:00-11:30
Prof. Xiaoe Yang / Phytoremediation for metal contaminated soils - A review	11:30-12:00
Lunch	12:00-13:00

Tuesday September 27th

Time	Room 103	Room 201	Room 202	Room 301
	S1: Phytoextraction of heavy metal contaminated soils	S2: Emerging contaminants	S3: Constructed wetlands and wastewater treatment	S4: Mechanisms for metal tolerance and accumulation
Co-chairs	Prof. Caixian Tang & Prof. Yanqun Zu	Prof. Tomas Vanek & Dr. Elizabeth Rylott	Dr. David Tsao & Prof. Xiangliang Pan	Prof. Frederic Pitre & Dr. Lingli Lu
13:30-14:00	Prof. Caixian Tang / Cadmium phytoextraction by Australian native species <i>Carpobrotus rossii</i>	Prof. Tomas Vanek / Phytoremediation of pharmaceuticals in laboratory and real scale	Prof. Xiangliang Pan / Phytoremediation of heavy metals contaminated water using calcifying algae	Prof. Frederic Pitre / Meta-transcriptomics of 10 phytoremediating willow cultivars show the importance of an open annotation strategy
14:00-14:20	Prof. Yanqun Zu / Phytoremediation of agricultural soil contaminated by heavy metals around mining areas in Yunnan province, China	Dr. Elizabeth Rylott / Uncovering the in planta detoxification pathways for the environmental explosive and pollutant 2,4,6-trinitrotoluene (TNT)	Dr. Mojiri Amin / Using constructed wetland technique for copper removal from landfill leachate and wastewater	Dr Lingli Lu / Understanding mechanisms of cadmium uptake and accumulation in a hyperaccumulator <i>Sedum alfredii</i> for soil remediation
14:20-14:40	Prof. Michel Labrecque / Selection of Chinese plant species promising for phytoextraction of trace elements in a large-scale experimental trial in Shanghai	Ms. Feiran Chen / Removal and metabolism of the sunscreen agent oxybenzone in <i>Cyperus alternifolius</i> from water	Ms. Oustriere Nadege / Copper removals from Bordeaux mixture effluents using <i>Arundo donax</i> root mat while producing recoverable biomass	Dr. Wenzhong Xu / Heavy metal ATPase 3 (HMA ₃) confers Cd-hypertolerant capacity for hyperaccumulator <i>Sedum plumbizincicola</i>
14:40-15:00	Mr. Peng Liu / The potential of phytoremediation applied in environmental remediation in China	Dr. Elizabeth Rylott / Monodehydroascorbate reductase mediates TNT toxicity in plants	Mr. Diego Cicero-Fernandez / <i>Phragmites australis</i> seasonal and inter-annual (years) efficiency on heavy metal phytoremediation of estuarine sediments	Dr. Lianzhen Li / Pathways of Cadmium Uptake and Membrane Transport in Roots of the Zn/Cd hyperaccumulator <i>Sedum plumbizincicola</i>
15:00-15:20	Dr. Jing Song / Enhancing understanding and improving prediction of metal uptake by Chinese cabbage (<i>Brassica pekinensis</i> L.) based on a soil-plant stepwise analysis	Ms. Lu Yang / Dissipation of antibiotics in three different agricultural soils after repeated amendment with biosolids	Ms. Farzana Rahman / Phytofiltration potential of <i>Pteris multifida</i> for Accumulating As, Pb, Cd and Se from mixed metal solution	Ms. Yanping Zhao / Bioaccumulation and biotransformation of CuEDDS by <i>Lolium multiflorum</i> using synchrotron-based μ -XRF and XANES techniques
15:20-15:40	Tea break (Mid-size Hall, 1 st floor)			

Tuesday September 27th

Time	Room 103	Room 201	Room 202	Room 301
	S1(cont.): Phytoextraction of heavy metal contaminated soil	S5: Phytostabilization and chemical immobilization of soil metals	S3(cont.): Constructed wetlands and wastewater treatment	S4(cont.): Mechanisms for metal tolerance and accumulation
Co-chairs	Prof. Zueng-Sang Chen & Prof. Michel Labrecque	Prof. Michel Mench & Prof. Joel Burken	Prof. Siti Rozaimah Sheikh Abdullah & Dr. Priyanka Saha	Prof. Xinyuan Huang & Dr Marta Marmiroli
15:40-16:10	Prof. Zueng-Sang Chen / Using herbal plants for phytoremediation of heavy metals- contaminated soils: from pot to field experience in Taiwan	Prof. Michel Mench / Modulation of trace element bioavailability, yield and seed quality of rapeseed (<i>Brassica napus</i> L.) by biochar addition to a contaminated technosoil	Prof. Siti Rozaimah Sheikh Abdullah / Biopolishing of COD and colour in recycled paper mill wastewater through phytoremediation	Prof. Xinyuan Huang / Use of plant ionomics to investigate genetic variation in trace element accumulation
16:10-16:30	Dr. Xiaoming Wan / The latest problems encountered in the application of arsenic phytoremediation technology in China	Prof. Joel Burken / The potential of biosolids and soil amendments for revegetation of lead mine tailings for biomass crops	Dr. Priyanka Saha / Phytoremediation of cyanide containing steel industrial wastewater by <i>Eichhornia crassipes</i>	Dr. Marta Marmiroli / <i>Solanum lycopersicum</i> cultivars response to As and As+Si from a physiologic and proteomic perspective
16:30-16:50	Prof. Qitang Wu / Remediation of heavy metals-contaminated soil by chemical washing and amending: field experiments	Ms. Oustriere Nadege / Influence of biochars, compost and iron grit, alone and in combination, on copper solubility and phytotoxicity in a Cu-contaminated soil from a wood preservation site	Mr. Yin Sim Ng / Phytoremediation Capabilities of <i>Spirodela polyrhiza</i> and <i>Salvinia molesta</i> in Synthetic Wastewater: A Comparative Study	Mr. Xi Sun / Spatial and Temporal pH Dynamics in the Rhizosphere of the Zn/Cd Hyperaccumulator <i>Sedum plumbizincicola</i>
16:50-17:10	Dr. Markus Puschenreiter / Phytomining of metals from waste incineration bottom ash – potentials and challenges	Dr. Jintian Li / Changes of microbial community structure following phytostabilization of an extremely acidic copper mine tailings	Dr. Hassimi Abu Hasan / Polishing of Palm Oil Mill Effluent (POME) through phytoremediation using <i>Scirpus Grossus</i>	Dr. Shufeng Wang / Transcriptome-based gene sequencing and expression analysis of Cd responsive genes in different organs of <i>Salix integra</i>
17:10-17:30	Dr. Ying Jiang / Experimental and thermal kinetic study of conversion parameters affecting the thermochemical behaviour of <i>Pteris vittata</i> biomass from phytoremediation field applications	Dr. Haihong Gu / The arbuscular mycorrhizal fungus <i>Funneliformis mosseae</i> affects growth and trace metal accumulation of four plant species in lead/zinc tailings for phytostabilization	Dr. Ayaz Ahmad / Enhanced phytoremediation of cadmium polluted water through two aquatic plants <i>Veronica anagallis aquatica</i> and <i>Epilobium laxum</i>	Dr. Fazal Hadi / Expression analysis of CBF/DREB genes under molybdenum treatments and their role in cadmium phytoextraction by <i>Ricinus communis</i>
17:30-18:20	Poster session 1 (Mid-size Hall, 1 st floor)			
18:30-21:00	Dinner			

Wednesday September 28th

Time	Room 103	Room 201	Room 202	Room 301
	S6: Microbes assisted phytoremediation of soil metals	S7: Plant nanoparticles interactions	S8: Methods to enhance plant tolerance to mixed contaminants	S9: Phytoremediation of organic contaminants (1)
Co-Chairs	Prof. Ying Teng & Prof. Yahua Chen	Prof. Jason White & Prof. Om Parkash Dhankhe	Dr. David Tsao & Ms. Carolina Dahmer	Prof. Lee Newman & Dr. Zhihong Xie
8:30-09:00	Prof. Ying Teng / Phytoremediation of DPAA-contaminated soil by <i>Pteris vittata</i> combined with <i>Phyllobacterium myrsinacearum</i> RC6b	Prof. Jason White / Accumulation and transfer of engineered nanoparticles in terrestrial food chains: Correlating physiological and molecular response	Dr. David Tsao / Comparative study of soil amendments and plant species to manage the revegetation of brine scars from oil and gas production	Dr. Zhihong Xie / Enhanced phytoremediation of soils contaminated with PAHs by arbuscular mycorrhiza and rhizobium
09:00-09:20	Dr Suphiya Khan / <i>Ex-situ</i> microbe assisted phytoremediation of a soil contaminated with fluoride (F) by <i>Prosopis Juliflora</i> – A field experiment	Dr. Wenjie Ren / Sulfonated graphene-induced hormesis are mediated through oxidative stress in roots of maize seedlings	Dr. Muhammad Anees / Bioremediation of saline soil using soil borne halotolerant bacteria	Mr. Michael Waigi / Endophytic Applications of Reducing Polyaromatic Hydrocarbons Contamination in Plants
09:20-09:40	Prof. Yahua Chen / Phytoremediation assisted by ECM-fungi and the reuse of remedying plants	Prof. Om Parkash Dhankher / Toxicity of metal-based engineered nanoparticles in crops and their impact on global food security and safety	Prof. Barbara Zeeb / Phytoremediation of salt and hydrocarbon impacted soils using biochar augmentation: implications of salt tolerance mechanisms	Ms.Xiaomi Wang / Rhizobium alleviate polychlorinated biphenyls-induced stress by activating brassinosteroid signaling in <i>Medicago sativa</i>
09:40-10:00	Prof. Li Wang / Stabilization of Cadmium: role of plant root interactions with arbuscular mycorrhizal fungi	Dr. Cheng Peng / Transformation of copper oxide nanoparticles in the system of paddy soil and rice (<i>Oryza sativa</i> L.)	Ms. Mahleh Eghbalinejad / The assessment of cross-tolerance potential between salinity and polycyclic aromatic hydrocarbon in a halophyte plant: Phytoremediation application	Ms. Nele Eevers / Using copper nanoparticles for phytoremediation of DDE-contamination: a screening for new possibilities
10:00-10:20	Dr. Muhammad Jamil / Halophilic bacteria mediated bioremediation of metal contaminated soils	Dr. Marta Marmiroli / CdS quantum dots and CdSO ₄ salts behave as different types of stressors on <i>A. thaliana</i> w.t.		Ms. Charlotte Marchand / Pilot scale study phytoremediation of organic and inorganic polluted soil using <i>Medicago sativa</i> and <i>Helianthus annuus</i>
10:20-10:40	Tea break (Mid-size Hall, 1 st floor)			

Wednesday September 28th

Time	Room 103	Room 201	Room 202	Room 301
	S10: Phytotoxicity & phytomonitoring of environmental pollutants	S7(cont.): Plant nanoparticles interactions	S11: Air phytoremediation	S9(cont.): Phytoremediation of organic contaminants (2)
Co-Chairs	Prof. Joel Burken & Prof. Slawo Lomnicki	Prof. Jorge Gardea-Torresdey & Prof. Elena Maestri	Prof. Stanislaw Gawronski & Dr. Nele Weyens	Dr. Zhihong Xie & Dr. Jing Dong
10:40-11:10	Prof. Slawo Lomnicki / Phytosampler – new solution for particulate air monitoring with high sampling density	Prof. Jorge Gardea-Torresdey / Environmental implications of nanomaterials in the environment. effects of nanoceria on common bean: an spectroscopic and proteomic analysis	Prof. Stanislaw Gawronski / Phytoremediation as Toolbox for Improving Indoor Air Quality	Ms. Carolina Dahmer / DDT phytoextraction at Point Pelee National Park: <i>in situ</i> and greenhouse trials using native grasses
11:10-11:30	Mr. Lauge Clausen / Toxicity testing with the willow tree transpiration test - 15 years of results	Dr. Golam Jalal Ahammed / Brassinosteroids alleviate zinc oxide nanoparticles-induced phytotoxicity in <i>Solanum lycopersicum</i> L.	Dr. Chairat Treesubsuntorn / Development of toluene phytoremediation system: effect of mixed and individual plants and CO ₂	Dr. Jing Dong / The Effect of <i>Funnelliformis mosseae</i> inoculation on the photosynthesis of atrazine-treated <i>Canna indica</i> L. var. <i>flava</i> Roxb.
11:30-11:50	Dr. Kankan Shang / Response of naturalized weeds on heavy metal pollution at field trial site in Shanghai, China	Prof. Elena Maestri / Mitochondrial disruption as a molecular mechanism of toxicity of metal-containing nanoparticles	Dr. Nele Weyens / Plant-Microbe synergy: an innovative, sustainable tool to improve air quality	Ms. Chitra Srikantan / Hairy roots of <i>Helianthus annuus</i> for phytoremediation of xenobiotic azo dyes
11:50-12:10	Mr. Imad El-Alam / Agricultural soil pollution monitoring using ecotoxicological and toxicological biomarkers	Dr. Hao Qiu / Nanospecific phytotoxicity of CuO nanoparticles in soils disappeared when bioavailability-modifying factors are considered		Mr. Imran Hussain / Do biochar and compost application levels influence rhizoremediation of petroleum hydrocarbons in freshly spiked soils?
12:10-13:30	Lunch			

Wednesday September 28th

Time	Reporting Hall (3rd floor)	Room 102	Room 203	27 th floor	
	S12: Ecological restoration & soil revitalization	S13: Bioenergy, biofuels & bio-products	S14: Special session on the potential of international collaboration in a Center of Excellence on Bioremediation	S15: Special session for PhytoScholars	
Co-chairs	Prof. Nicholas Dickinson & Dr. Marta Marmiroli	Prof. Nelson Marmiroli & Prof. Cinzia Forni	Prof. Xiaoe Yang & Dr. Jan Japenga	Prof. Jason White & Prof. Alan Baker	
13:30-14:00	Prof. Nicholas Dickinson / Plant-based solutions: harnessing biological and ecological variability	Prof. Nelson Marmiroli / Industrial biotechnologies for renewable energy: plants for biomass production and contaminated sites cleaning	Prof. Xiaoe Yang / Phytoremediation engineering for purifying eutrophic waters and resource reutilization	13:30-13:42	14:30-14:42
				Mr. Matt Limmer / Arsenic Uptake by Rice: Competition with Silicon	Ms. Tianxi Yang / Evaluation of Multi-Class Pesticide Penetration in Edible Plant Tissues Using Surface-Enhanced Raman Scattering Mapping
14:00-14:20	Mr. Desjardins Dominic / Functional complementarity of a multi-crop system for remediation of co-contaminated soil	Dr. Jihong Li / Cost-effective phytoremediation of Cd-contaminated soil by sweet sorghum via its double use for fuel and power production	Dr. Gary Banuelos / Use of phytotechnologies to manage selenium under high boron stress and salinity on a sustainable basis.	13:42-13:54	14:42-14:54
				Mrs. Wenjun Cai /A screening study: Phytotoxicity of uncoated metal nanoparticles to crop plants compared to their corresponding bulk particles and salts	Mr. Zhiyun Zhang / In situ and real time investigation of silver nanoparticles and spinach leaves interaction using surface enhanced Raman spectroscopy
14:20-14:40	Dr. Marta Marmiroli / Urban Open Green Space Project: Reclamation though Phytoremediation of the Industrial area of Crotone (Italy)	Prof. Cinzia Forni / Phytoremediation and duckweed biomass: use of chlorophylls extracted from biomass for natural dye-sensitized solar cells (DSSC)	Prof. Lee Newman / Phytoremediation of organics: The state of the science	13:54-14:06	14:54-15:06
				Mr. Hesham M. Abdullah / Comparative transcriptome and metabolome analysis of the oilseed crop <i>Camelina sativa</i> during the seed development	Ms. Huiyuan Guo / Formation of Silver Nanoparticles by live plant root systems: mechanisms and implication to plant toxicity
14:40-15:00	Mr. Hongtao Zhong / Mediation of soil C, N and P on a restoration trajectory in South Island, New Zealand	Dr. Marta Pogrzeba / Phytoremediation driven energy crop production – from the biomass cultivation to the residues management	Prof. Paul Bardos / The value-of low input remediation technologies, soft re-use of brownfields land and low (carbon) input remediation. – Tools for China (presented by Dr. Jan Japenga)	14:06-14:18	15:06-15:18
				Mr. Paul V Manley, II / Hyperspectral assessment of plant stress for detecting environmental pollutants	Dr. Chuanxin Ma / Effect of enhanced levels of glutathione in transgenic <i>Crambe abyssinica</i> overexpressing a bacterial γ -glutamylcysteine synthase to toxicity of metal oxide nanoparticles in Lanthanide series
15:00-15:20	Ms. Shanshan Li / The unusual role of native legumes and soil nutrients in restoration in New Zealand: phytotechnology applications	Dr. Ying Jiang / LCA of willow cultivation on contaminated land and the subsequent biomass to energy conversion		14:18-14:30	15:18-15:30
				Mr. Rahul Sukharia / Phytostabilization and phytomonitoring for landfill applications	Dr. Roberto De La Torre-Roche / Engineered Nanomaterials and Agricultural crops: Co-contaminant Interactions
15:20-16:20	Poster session 2 (Mid-size Hall, 1 st floor)				
16:20-16:40	Tea break (Mid-size Hall, 1 st floor)				

Wednesday September 28th

Plenary session 2: Reporting Hall (3rd floor)	
Co-chairs: Prof. Ming-hung Wong & Prof. Peter Christie	
16:40-17:10	Prof. Erik Smolders / Bioavailability of toxic trace metals in soil: concepts, data and implementation in environmental legislations
17:10-17:40	Prof. Yongming Luo / Phytotechnologies used for control and remediation of toxic pollutants in agricultural soils in China: field demonstration
17:40-18:10	Award ceremony and conference closure Chair: Prof. Lee Newman
	Award presented by Dr. David Tsao
	14 th IPC presentation by Prof. Michel Labrecque
	Closing remarks by Prof. Yongming Luo
18:30-20:30	Dinner

Thursday September 29th

Practicing Phytotechnologies Training Course A hands-on introduction to using plant for environmental clean up	
Room 201	
Trainer: Dr. David Tsao	
9:00-9:30	General Introduction
9:30-10:15	Mechanisms and Applications
10:15-10:30	Break
10:30- 11:45	PART 1 – Upland Systems Assessment – Exercise #1 Remedy Selection – Exercises #2, #3
11:45-12:45	Lunch
12:45-14:00	Design and Implementation – Exercise #4
14:00-14:15	Break
14:15-15:15	Operation, Maintenance & Monitoring Closure and Wrap-Up
15:15-15:30	Break
15:30-16:45	PART 2 – Constructed Treatment Wetlands Overview of CTW Technology Wetland Sizing – Exercise #5 Closure and Wrap-Up

第十三届国际植物技术会议

2016 年 9 月 26-29 日 中国 杭州

会议日程

9 月 26 日 星期一

报到注册	10:00-21:00
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9 月 27 日 星期二

开幕式：三楼报告厅	
开幕式 主持人：骆永明 研究员	09:00-09:20
合影	09:20-9:50
全体大会 1 主持人：骆永明 研究员 & David Tsao 博士	
Lee Newman 教授介绍戈登奖（The Gordon Award）	09:50-10:00
黄铭洪 教授：人为栖息地的生态修复，重点关注重金属污染场地和垃圾填埋场	10:00-10:30
David Tsao 博士 / 应用人工湿地处理油田回注污水的可行性研究	10:30-11:00
赵方杰 教授：植物对砷吸收和转运的机制	11:00-11:30
杨肖娥 教授：重金属污染土壤的植物修复-综述	11:30-12:00
午餐	12:00-13:00

9月27日 星期二				
时间	103 会议室	201 会议室	202 会议室	301 会议室
	S1: 重金属污染土壤的植物吸取修复	S2: 新兴污染物	S3: 人工湿地和废水处理	S4: 重金属耐受和积累的机制
主持人	唐才贤 教授 & 祖艳群 教授	Tomas Vanek 研究员 & Elizabeth Rylott 博士	David Tsao 博士 & 潘响亮 教授	Frederic Pitre 教授 & 卢玲丽 博士
13:30-14:00	唐才贤 教授 / 澳大利亚本土植物 <i>Carpobrotus rossii</i> 对Cd的植物吸取修复	Tomas Vanek 研究员 / 实验室和真实条件下药物的植物修复	潘响亮 教授 / 利用钙化海藻修复重金属污染水体	Frederic Pitre 教授 / 10个柳树品种的环境转录组研究表明基因功能注释的重要性
14:00-14:20	祖艳群 教授 / 中国云南矿区周边重金属污染农田土壤的植物修复	Elizabeth Rylott 博士 / 揭示植物体内对环境中的炸药和TNT污染物质的解毒途径	Mojiri Amin 博士 / 利用人工湿地技术去除垃圾填埋场淋出液和污水中的铜	卢玲丽 博士 / 超积累植物东南景天吸收和积累土壤Cd的机制
14:20-14:40	Michel Labrecque 教授 / 具有重金属吸取修复潜力的中国本土植物——上海的大规模试验	陈菲然 女士 / 风车草 (<i>Cyperus alternifolius</i>) 对水体中防晒剂氧苯酮的代谢和去除	Oustriere Nadege 女士 / 在产出可回收生物量的同时使用芦竹根丛去除波尔多液废水中的铜	徐文忠 博士 / 重金属 ATP 酶 (HMA ₃)赋予超积累植物伴矿景天对Cd的高耐受能力
14:40-15:00	刘鹏 先生 / 植物修复在中国环境修复应用的潜力	Elizabeth Rylott 博士 / 单脱氢抗坏血酸还原酶缓解植物体中TNT毒性	Diego Cicero-Fernandez 先生 / 芦苇对河口沉积物中重金属植物修复的季节性和年际效率	李连祯 博士 / 锌镉超积累植物伴矿景天根系Cd吸收和跨膜运输途径
15:00-15:20	宋静 博士 / 基于土壤-植物逐步分析法预测大白菜 (<i>Brassica pekinensis</i> L.) 对重金属的吸收	杨璐 女士 / 抗生素在使用污泥连续修复后的三种不同农业土壤上的消减	Farzana Rahman 女士 / 井栏边草 (<i>Pteris multifida</i>) 对富含As、Pb、Cd和Se混合溶液的植物过滤潜力研究	赵艳萍 女士 / 使用基于同步辐射的 μ -XRF和XANES技术研究黑麦草对CuEDDS的生物积累和生物转化
15:20-15:40	茶歇 (一楼中厅)			

9月27日 星期二				
时间	103 会议室	201 会议室	202 会议室	301 会议室
	S1(cont.): 重金属污染土壤的植物吸取修复	S5: 土壤重金属的植物固定和化学固定	S3(cont.): 人工湿地和废水处理	S4(cont.): 重金属耐受和积累机制
主持人	陈尊贤 教授 & Michel Labrecque 教授	Michel Mench 教授 & Joel Burken 教授	Siti Rozaimah Sheikh Abdullah 教授 & Priyanka Saha 博士	黄新元 教授 & Marta Marmiroli 博士
15:40-16:10	陈尊贤 教授 / 利用草本植物修复重金属污染土壤: 台湾从盆栽到野外试验的经历	Michel Mench 教授 / 在污染熟化土壤上添加生物炭调节微量元素的生物有效性、油菜 (<i>Brassica napus</i> L.) 产量以及油菜籽的质量	Siti Rozaimah Sheikh Abdullah 教授 / 通过植物修复技术去除再生造纸废水中的 COD 和色度	黄新元 教授 / 使用植物离子组学研究重金属积累的基因变异
16:10-16:30	万小铭 博士 / 中国砷污染植物修复技术应用面临的最新问题	Joel Burken 教授 / 铅锌尾矿植物复垦中污泥和土壤改良剂的应用潜力	Priyanka Saha 博士 / 利用凤眼莲 (<i>Eichhornia crassipes</i>) 修复含氰化物的钢铁工业废水	Marta Marmiroli 博士 / <i>Solanum lycopersicum</i> 番茄品种对 As 和 As+Si 处理的生理学和蛋白组学响应
16:30-16:50	吴启堂 教授 / 野外试验条件下通过化学淋洗和改良修复重金属污染土壤	Oustriere Nadege 女士 / 生物炭、堆肥和铁砂单独使用或者联合使用对木材保存点铜污染土壤的铜可溶性以及植物毒性的影响	Yin Sim Ng 先生 / 对比研究浮萍 (<i>Spirodela polyrhiza</i>) 和槐叶萍 (<i>Salvinia molesta</i>) 在合成工业废水的植物修复潜力	孙曦 先生 / 锌镉超积累植物伴矿景天根际 pH 的时空动态变化
16:50-17:10	Markus Puschenreiter 博士 / 垃圾焚烧底灰植物冶金: 潜力和挑战	李金天 博士 / 极酸性铜尾矿植物稳定修复后微生物群落结构变化	Hassimi Abu Hasan 博士 / 利用 <i>Scirpus Grossus</i> 修复净化棕榈油废水(POME)	王树凤 博士 / 基于转录组基因测序和表达分析的杞柳 (<i>Salix integra</i>) 不同器官中 Cd 响应基因研究
17:10-17:30	Ying Jiang 博士 / 影响野外修复应用中的蜈蚣草生物量的热力学化学行为的变换参数的试验和热力学研究	谷海红 博士 / 丛枝真菌 <i>Funneliformis mosseae</i> 影响四种用于植物固定修复铅锌矿土壤的植物的生长和微量重金属积累	Ayaz Ahmad 博士 / 通过两种水生植物 <i>Veronica anagallis aquatica</i> 和 <i>Epilobium laxum</i> 强化修复 Cd 污染废水	Fazal Hadi 博士 / 钼处理下 CBF/DREB 基因的表达分析及在蓖麻 (<i>Ricinus communis</i>) 吸取修复 Cd 中的作用
17:30-18:20	展板 1 (一楼中厅)			
18:30-21:00	晚餐			

9 月 28 日 星期三				
时间	103 会议室	201 会议室	202 会议室	301 会议室
	S6: 微生物辅助的土壤重金属污染植物修复	S7: 植物纳米粒子间相互作用	S8: 提高植物对混合污染物耐性的方法	S9: 有机污染物的植物修复(1)
主持人	滕应 研究员 & 陈亚华 研究员	Jason White 研究员 & Om Parkash Dhankhe 教授	David Tsao 博士 & Carolina Dahmer 女士	Lee Newman 研究员 & 解志红 博士
08:30-09:00	滕应 研究员 / 蜈蚣草和 <i>hylobacterium myrsinacearum</i> RC6b 联合修复二苯肿酸污染土壤	Jason White 研究员 / 工程纳米粒子在食物链中的积累和转移: 相关的生理和分子反应	David Tsao 博士 / 土壤改良剂和植物种类对于石油天然气生产污染区植被恢复影响的比较性研究	解志红 博士 / 利用菌根真菌和根瘤菌强化多环芳烃污染土壤的植物修复
09:00-09:20	Suphiya Khan 博士 / 外源微生物辅助 <i>Prosopis Juliflora</i> 修复氟污染土壤的田间试验	任文杰 博士 / 磺化石墨烯的毒物兴奋效应缓解玉米幼苗根系的氧化胁迫	Muhammad Anees 博士 / 利用土壤耐盐菌修复盐渍土	Michael Waigi 先生 / 内生微生物减少植物中多环芳烃污染
09:20-09:40	陈亚华 教授 / ECM 真菌辅助的植物修复及修复植物的再利用	Om Parkash Dhankher 教授 / 工业纳米粒子在作物中的毒性和其对全球食品安全的影响	Barbara Zeeb 教授 / 利用改性生物炭辅助植物修复盐和烃类污染土壤: 耐盐机制	王笑咪 女士 / 根瘤菌通过激活紫花苜蓿中的油菜素甾醇信号缓解多氯联苯诱导胁迫
09:40-10:00	王立 教授 / 镉的稳定化: 植物根系与丛植菌根真菌的协同作用	彭程 博士 / 水稻土-水稻 (<i>Oryza sativa</i> L.) 系统中纳米氧化铜的转化	Mahleh Eghbalinejad 女士 / 盐生植物对于盐和多环芳烃的复合耐受潜力评价: 植物修复应用	Nele Eevers 女士 / 采用纳米铜强化植物修复 DDE 污染: 新的修复可能性
10:00-10:20	Muhammad Jamil 博士 / 嗜盐菌介导的重金属污染土壤生物修复	Marta Marmiroli 博士 / 硫化镉和硫酸镉盐对 <i>A. thaliana</i> 表现的不同胁迫效应		Charlotte Marchand 女士 / 利用紫花苜蓿和向日葵修复有机物和无机物污染土壤的中试研究
10:20-10:40	茶歇 (一楼中厅)			

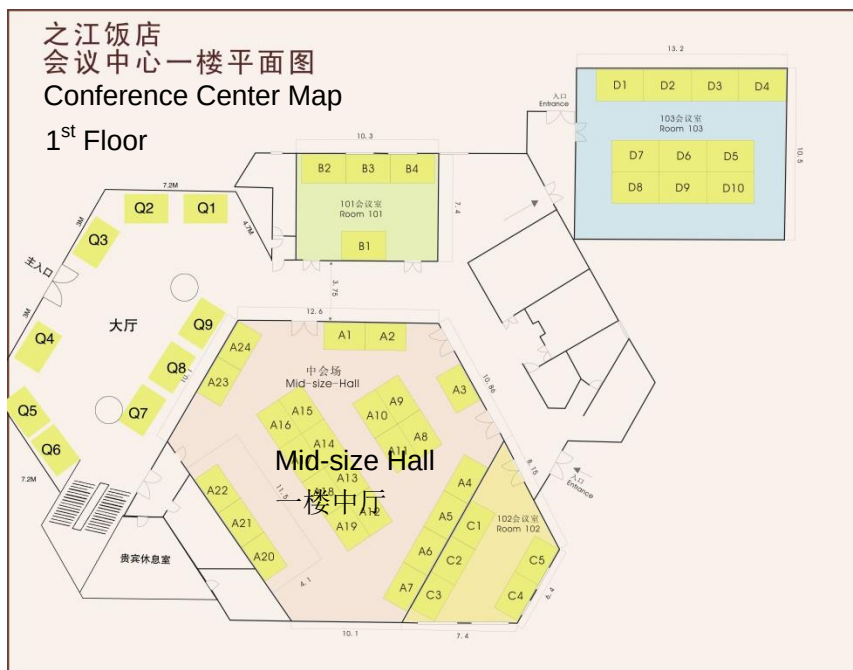
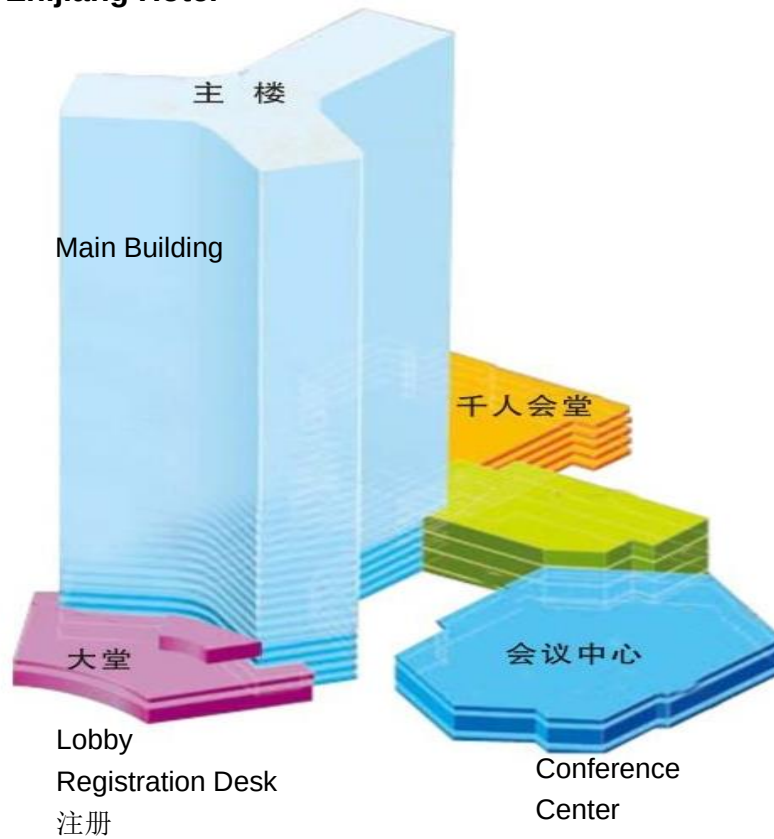
9 月 28 日 星期三				
时间	103 会议室	201 会议室	202 会议室	301 会议室
	S10: 环境污染物的植物毒性和植物监测	S7(cont.): 植物-纳米粒子交互作用	S11: 空气植物修复	S9(cont.): 有机污染物的植物修复(2)
主持人	Joel Burken 教授 & Slawo Lomnicki 教授	Jorge Gardea-Torresdey 教授 & Elena Maestr 教授	Stanislaw Gawronski 教授 & Nele Weyens 博士	解志红博士 & 董静 博士
10:40-11:10	Slawo Lomnicki 教授 / 植物采样器: 高密度采样监测大气颗粒物的新解决方案	Jorge Gardea-Torresdey 教授 / 纳米材料的环境意义——纳米二氧化铈对扁豆的影响: 光谱和蛋白组学分析	Stanislaw Gawronski 教授 / 植物修复——提高户外空气质量的工具箱	Carolina Dahmer 女士 / 霹雳角国家公园 DDT 污染的植物吸取修复: 土著野生牧草的原位及温室试验
11:10-11:30	Lauge Clausen 先生 / 采用柳树蒸腾作用进行毒性测试——15 年的试验结果	Golam Jalal Ahammed 博士 / 油菜素内酯缓解氧化锌纳米粒子对番茄的毒性	Chairat Treesubsuntorn 博士 / 甲苯植物修复方法的研究进展: 混作与单作植物及二氧化碳的影响	董静 博士 / 苔藓接种对莠去津处理水稻光合作用的影响
11:30-11:50	商侃侃 博士 / 野外试验场地中自然化杂草对重金属污染物的响应 (中国, 上海)	Elena Maestri 教授 / 线粒体干扰是金属掺杂纳米粒子毒性的分子机制之一	Nele Weyens 博士 / 植物-微生物协同效应: 提高空气质量的创新性可持续方法	Chitra Srikantan 女士 / 向日葵的毛状根对偶氮染料的修复作用
11:50-12:10	Imad El-Alam 先生 / 用生态毒理学和毒理学标记物监测农业土壤污染	仇浩 博士 / 整合生物有效性因素后土壤中纳米氧化铜颗粒不再具有纳米专属植物毒性		Imran Hussain 先生 / 生物炭和堆肥施用剂量是否影响石油烃类新添加土壤的根系修复?
12:10-13:30	午餐			

9月28日 星期三					
时间	三楼报告厅	102 会议室	203 会议室	27 楼	
	S12: 生态恢复与地力提升	S13: 生物能源, 生物燃料和生物产品	S14: 生物修复国际卓越中心(筹) 专场	S15: 植物奖学金获得者专场	
主持人	Nicholas Dickinson 教授 & Marta Marmiroli 博士	Nelson Marmiroli 教授 & Cinzia Forni 教授	杨肖娥 教授 & Jan Japenga 博士	Jason White 研究员 & Alan Baker 教授	
13:30-14:00	Nicholas Dickinson 教授 / 植物修复: 治理生物和生态变异	Nelson Marmiroli 教授 / 工业生物技术生产可再生能源: 生物质生产及污染场地修复	杨肖娥 教授 / 植物修复工程净化富营养化水体与资源回用	13:30-13:42	14:30-14:42
				Matt Limmer 先生 / 水稻的砷的吸收: 砷与硅的竞争	杨天溪 女士 / 表面强化拉曼散射光谱评估杀虫剂在蔬菜组织中的多级渗透
14:00-14:20	Desjardins Dominic 先生 / 多作物系统修复的功能互补修复复合污染土壤	李纪红 博士 / 甜高粱修复土壤镉污染同时进行燃料和能源生产是一种经济的植物修复技术	Gary Banuelos 博士 / 可持续植物技术管理高硼高盐胁迫下的硒	13:42-13:54	14:42-14:54
				Wenjun Cai 女士 筛查研究: 未包裹金属纳米粒子对作物的毒性及其与普通粒子和金属盐的比较	Zhiyun Zhang 先生 / 表面强化拉曼光谱原位实时调查纳米银和菠菜叶的交互作用
14:20-14:40	Marta Marmiroli 博士 / 城市开放性绿色空间计划: 通过植物修复复垦克罗托内工业区(意大利)	Cinzia Forni 教授 / 植物修复与浮萍生物质: 提取叶绿素制作染料敏化太阳能电池	Lee Newman 教授 / 有机污染的植物修复现状	13:54-14:06	14:54-15:06
				Hesham M. Abdullah 先生 / 油籽作物亚麻荠发育过程中的比较基因组和代谢组研究	Huiyuan Guo 女士 / 活体植物根系形成的银纳米颗粒: 机理以及对于植物毒性的意义
14:40-15:00	钟宏韬 先生 / 碳氮磷调控对新西兰南岛修复轨迹的影响	Marta Pogrzeba 博士 / 植物修复驱动的能源作物生产: 从生物质种植到残渣处理	Paul Bardos 教授/ 低投入修复技术的价值、污染场地的再利用及低碳修复: 中国的工具(Jan Japenga 博士汇报)	14:06-14:18	15:06-15:18
				Paul V Manley, II 先生 / 植物胁迫的高光谱评估来检测环境污染物质	马传鑫 博士 / 转基因海甘蓝在镧系金属氧化纳米粒子毒性胁迫下谷胱甘肽水平提高的效应: 导致细菌中 γ -谷氨酰半胱氨酸合成酶的过量表达
15:00-15:20	李珊珊 女士: 新西兰土著豆科植物和土壤养分在修复中的特殊作用: 植物修复技术应用	Ying Jiang 博士 / 污染场地柳树种植的生命周期评估及产后能量转化		14:18-14:30	15:18-15:30
				Rahul Sukharia 先生 / 植物稳定化与植物检测技术在垃圾填埋中的应用	Roberto De La Torre-Roche 博士 / 工程纳米材料和农作物: 复合污染物交互作用
15:20-16:20	展板 2 (一楼中厅)				
16:20-16:40	茶歇 (一楼中厅)				

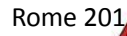
9 月 28 日 星期三	
全体会议 2：三楼报告厅	
主持人：黄铭洪 教授 & Peter Christie 研究员	
16:40-17:10	Erik Smolders 教授：土壤中有毒微量重金属的生物有效性——概念、数据和在环境法规中的应用
17:10-17:40	骆永明 研究员 / 中国耕地土壤污染控制与植物修复：田间示范
17:40-18:10	颁奖典礼及闭幕式 主持人：Lee Newman 教授
	David Tsao 博士 颁奖
	第十四届国际植物技术大会介绍：Michel Labrecque 教授
	闭幕致辞：骆永明 研究员
18:30-20:30	晚餐

9 月 29 日 星期四	
植物技术培训 环境污染植物修复技术实操训练	
201 会议室	
主讲人: David Tsao 博士	
9:00-9:30	总体介绍
9:30-10:15	原理和应用
10:15-10:30	休息
10:30- 11:45	第一部分 – 旱作系统 评估 – 练习 #1 修复选择 – 练习 #2, #3
11:45-12:45	午餐
12:45-14:00	设计和实施 – 练习 #4
14:00-14:15	休息
14:15-15:15	运行、维护与监测 总结
15:15-15:30	休息
15:30-16:45	PART 2 –人工湿地 人工湿地技术综述 湿地规模 – 练习 #5 总结

Zhijiang Hotel



2nd Floor



3rd Floor

