

# 中德可持续能源转型国际论坛

Sino-German Workshop on Sustainable Energy Transition

## 发起单位/Hosted by:

[中]中国科学院沈阳应用生态研究所/Institute of Applied Ecology, Chinese Academy of Sciences (IAE-CAS)

[德]波茨坦高等可持续研究所/Institute for Advanced Sustainability Studies (IASS) Potsdam

## 协办单位/Organizers:

[中]辽宁省对外科技交流中心/Center for International Sci. & Tech. Exchanges of Liaoning Province (CISTE, Liaoning Province)

[中]沈阳市科学技术局/ Shenyang Bureau of Science & Technology

[中]启迪科技园（沈阳）/Tuspark (Shenyang)

[中]中国驻德使馆教育处/Education Section, Chinese Embassy in Berlin

[德]德中环境能源促进中心/German-Chinese Promotion Center for Environment and Energy, Germany (DCZUE, Germany)

[德]气候保护、能源与交通研究所/Institute for Climate Protection, Energy and Mobility, Germany (IKEM, Germany)

[中]中国科学院青年创新促进会/Youth Innovation Promotion Association CAS

[中]辽宁省能源研究所/Institute of Energy Research, Liaoning Province

[中]辽宁省环境计算与可持续发展重点实验室/Provincial Key Lab for Environment Computation and Sustainability, Liaoning Province, China

**2017年10月13日-15日, 沈阳, 中国**

Oct 13<sup>th</sup>-15<sup>th</sup>, 2017, Shenyang, Liaoning, China

## 会议背景/Background

能源转型已经成为中德两国的长期国家战略，中国迫切需要从开放合作等诸多方面推动能源转型向纵深发展，而德国自本世纪初推行能源转型战略后一直走在世界的前列。2014年10月，中德两国政府联合发表《中德合作行动纲要：共塑创新》，明确提出中德两国要深化能源对话，优先考虑跨学科和系统性方案，联合推进可持续发展。2016年，德国联邦教研部资助的迄今为止最大的能源转型研究十年计划 Kopernikus 项目正式启动，德国能源产学研界累计超过 260 个合作单位参与其中，其重要任务之一就是从小-经济-环境-技术-制度等视角尽可能精确地确定短期、中期和长期的具体措施对能源系统的影响，并通过跨学科对话，确定有效行动。“中德可持续能源转型国际论坛”，由中国科学院沈阳应用生态研究所和德国波茨坦高等可持续研究所共同发起，辽宁省对外合作交流中心等机构协办，旨在邀请中德能源相关领域的科研机构、政府机关、行业组织、社会团体等开展跨学科多方对话，深入了解能源转型过程中的环境-经济-社会的复杂网络体系并为长期可持续合作奠定基础。

Energy Transition has become a long-term national strategy for both China and Germany. China needs to proceed energy transition from various aspects, while Germany has played a leading role at global level since she began to implement the energy transition strategy (Energiewende) at the beginning of this century. In Oct 2014, Chinese Premier Li Keqiang and German Chancellor Angela Merkel agreed to put emphasis on innovation cooperation so as to further promote bilateral ties, and emphasized that both China and Germany will work together to deepen energy-dialogues and figure out the systemic solutions towards sustainable future. In 2016, funded by the BMBF, the Kopernikus project was launched, one of its key objectives is to gain a deeper understanding of the complex networked energy system in the energy sector and related fields, to show options for action on how the components of the future energy system can be systematically integrated taking into account the energy policy objectives and boundary conditions as precisely as possible, the consequences of a specific measure in the short, medium and long term on the energy system, and finally, in the transdisciplinary discourse, to generate options for effective measures. This workshop is proposed and organized by IAE-CAS and IASS, for gathering disciplinary understandings as well as for creating new knowledge towards a multi-stakeholders-based dialogues for sustainable energy transition.

# 会议概要/Program

报到时间/Registration : 10月13日(周五) /13<sup>th</sup> Oct (Friday) 2017

会议时间/Workshop : 10月14日(周六) /14<sup>th</sup> Oct (Saturday) 2017

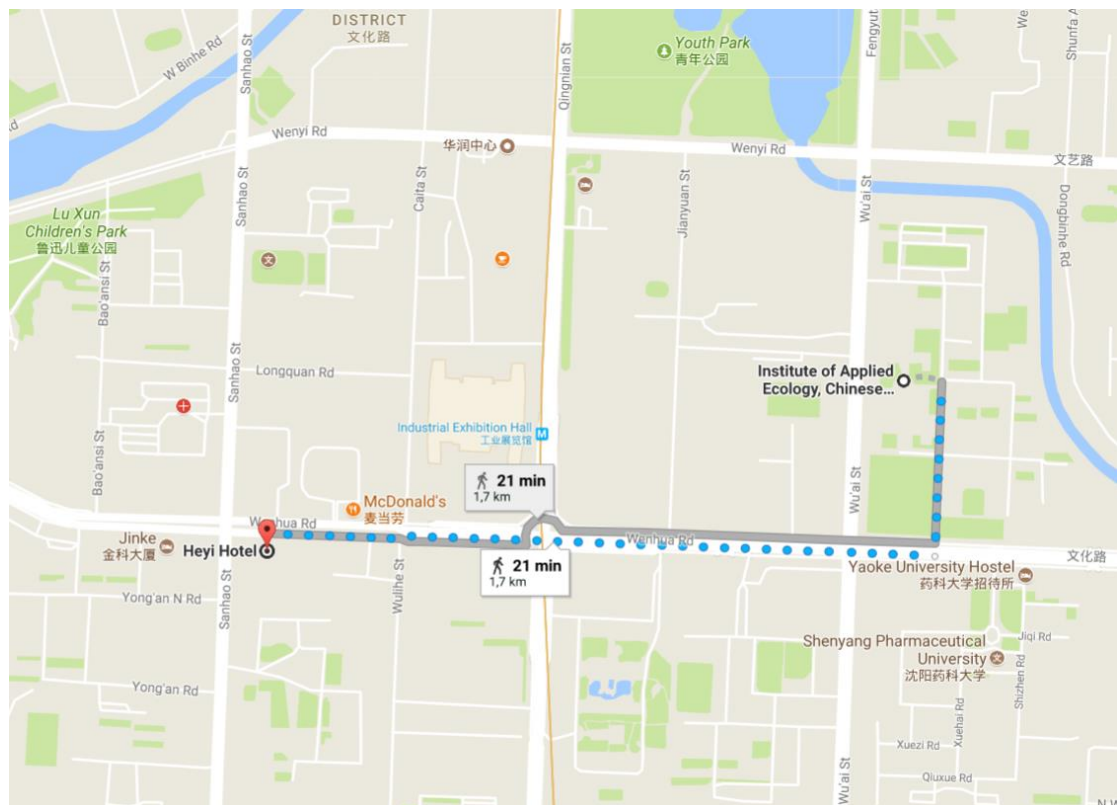
实地考察/On-site visiting : 10月15日(周日) /15<sup>th</sup> Oct (Sunday) 2017

离会/Departure : 15日(周日) 或 16日(周一) /15<sup>th</sup> or 16<sup>th</sup>, Oct, 2017

地点/Location : 辽宁省沈阳市沈河区文化路72号中国科学院沈阳应用生态研究所学术报告厅/Academic Hall, IAE-CAS, Nr.72, Wenhua Rd, Shenyang

语言/Language : 英语 + 中文、德语/English + German、Chinese

住宿/Hotel : 沈阳市文化路41号和颐酒店 (Heyi Hotel, Nr.41, Wenhua Rd)



## 会议议程(Agenda)

13 日 (13 <sup>th</sup> Fri)	
18:30-20:00	欢迎简餐/Reception Dinner
14 日 (14 <sup>th</sup> Sat)	
08:00-08:30	注册报到/Registration
08:10-08:30	早咖啡/Morning Coffee
08:30-09:00	领导致辞/Welcome Speeches 主持/Moderator: 薛冰(Dr. XUE Bing)
	中国科学院沈阳应用生态研究所所长 <b>朱教君</b> /President of IAE-CAS; Prof. Dr. <b>ZHU Jiaojun</b> <b>(tbc/Prof. Dr. FANG Yunting?)</b>
	德国波茨坦高等可持续研究所/IASP Potsdam; <b>Dr. Stefan Stückrad (斯特冯·斯堆克哈德)</b>
	辽宁省对外科技交流中心主任 <b>罗乃明</b> /Director of CISTE, Liaoning Province; <b>Prof. LUO Nai'ming</b>
	德国德中环能中心理事长 <b>周旷昕</b> /Chairman of DCZUE, Germany; <b>Dr. ZHOU Kuangxin</b>
	tbc. (待确认)
	tbc. (待确认)
09:00-09:10	会休/Coffee Break
09:10-12:20	主题报告/Keynote Speech
09:10-09:30	上海交通大学环境学院院长 (杰青) <b>耿涌</b> 博士/College of Environmental Sciences, Shanghai Jiao Tong University; <b>Dean. Prof. Dr. GENG Yong</b>
09:30-09:50	柏林自由大学环境政策中心创始主任 <b>耶内克</b> 博士/ Free University of Berlin; <b>Prof. Dr. Martin Jänicke</b>
09:50-10:10	清华大学环境学院 <b>石磊</b> 博士/College of Environment, Tsinghua University; <b>Prof. Dr. SHI Lei</b>

10:10-10:30	德国宇航中心亚哈斯/波茨坦高等可持续研究所 贝克博士/DLR; <b>Julia JARASS</b> & IASS Potsdam; <b>Dr. Sophia Becker</b>
<b>10:30-10:50</b>	<b>交流与咖啡/Exchange &amp; Coffee Time</b>
10:50-11:10	辽宁省能源研究所所长 (国务院津贴获得者) <b>张大雷</b> 研究员/Institute of Energy Research of Liaoning Province; <b>Director. Prof. Dr. ZHANG Dalei</b>
11:10-11:30	中科院广州能源研究所 <b>蔡国田</b> 研究员/ Institute of Energy Conversion, CAS; <b>Prof. Dr. CAI Guotian</b>
11:30-11:50	德国气候保护、能与与交通研究所所长 <b>西蒙-夏费-斯塔道斯基</b> /Director of IKEM, <b>Simon Schaefer-stradowsky</b>
11:50-12:10	Kopernikus-ENavi 项目协调人, <b>斯特冯·斯堆克哈德</b> /Kopernikus-ENavi, IASS Potsdam; <b>Dr. Stefan Stuckrad</b>
12:10-12:30	<b>讨论与交流 Discussion &amp; Exchange</b>
<b>12:30-13:30</b>	<b>午餐 (快餐) /Lunch: snacks and finger food</b>
<b>13:30-18:30</b>	<b>圆桌研讨会/Roundtable Meeting</b>
13:30-14:30	<b>主题 1: 能源发展战略与规划/ Session 1: Energy Developmental Strategies &amp; Plan</b>
主持人/Moderator	<b>蔡国田</b> 研究员 (Prof. Dr. <b>CAI Guotian</b> ) (tbc)
记录人/Secretary	姜璐 (Dr. <b>JIANG Lu</b> ) + 肖骁 (Ms. <b>XIAO Xiao</b> )
7 分钟主题报告 7' leading speech	全国人大环资委 <b>穆治霖</b> 处长/CERC, National People Congress; Dr. <b>MU Zhilin</b>
7 分钟主题报告 7' leading speech	
7 分钟主题报告 7' leading speech	国家电网公司天津公司智能电网处 <b>于建成</b> 处长/Tianjin Company of State Grid, <b>Dr. YU Jiancheng</b>
7 分钟主题报告 7' leading speech	齐鲁工业大学 (山东省科学院) <b>石峰</b> 主任/Shandong Academy of Sciences; Prof. Dr. <b>SHI Feng</b>
7 分钟主题报告 7' leading speech	沈阳工程学院 <b>鞠振河</b> 教授/Shenyang Institute of Engineering, Prof. Dr. <b>JU Zhenhe</b>
20 分钟讨论 20' Discussion	交流与讨论/Questions, Comments and Answers
14:30-15:30	<b>主题 2: 能源系统指标与评价/ Session 2: Indicators &amp; Measurement of Energy System</b>
主持人/Moderator	<b>黄蓓佳</b> (Prof. Dr. <b>HUANG Beijia</b> )

记录人/Secretary	薛冰 (Dr. XUE Bing) + 韩彬 (Ms. HAN Bin)
7 分钟主题报告 7' leading speech	中国科学院沈阳应用生态研究所 <b>任婉侠</b> 博士/ IAE-CAS, Prof. Dr. <b>REN Wanxia</b>
7 分钟主题报告 7' leading speech	大连理工大学 <b>吴国睿</b> 博士/ Dalian Uni. of Sci. & Tech.; Dr. <b>WU Kuo-rui</b>
7 分钟主题报告 7' leading speech	中国科学院城市环境研究所 <b>杨德伟</b> 博士/ Institute of Urban Environment, CAS; Prof. <b>YANG Dewei</b>
7 分钟主题报告 7' leading speech	沈阳航空航天大学 <b>刘祚希</b> 博士/ Shenyang Aerospace University; Dr. <b>LIU Zuoxi</b>
7 分钟主题报告 7' leading speech	ICIS 集团中国碳市场部 <b>刘亮</b> 总监/ ICIS Group; <b>LIU Liang</b>
20 分钟讨论 20' Discussion	交流与讨论/Questions, Comments and Answers
15:30-16:00	<b>会休与咖啡/Coffee Break</b>
16:00-17:00	<b>主题 3: 社会维度的能源转型探析/ Session 3: Social Dimensions Investigation</b>
主持人/Moderator	<b>索菲娅</b> (Dr. Sophia Becker; IASS Potsdam)(tbc)
记录人/Secretary	任婉侠 (Prof. Dr. REN Wanxia) + 谢潇 (Dr. XIE Xiao)
7 分钟主题报告 7' leading speech	西北师范大学 <b>赵雪雁</b> 教授/ Northwest Normal University; Prof. Dr. <b>ZHAO Xueyan</b>
7 分钟主题报告 7' leading speech	绿色和平北京代表处 <b>严菁</b> 女士/ Beijing Office, Green Peace; Ms. <b>YAN Jing</b>
7 分钟主题报告 7' leading speech	兰州大学 <b>张子龙</b> 教授/ Lanzhou University; Prof. Dr. <b>ZHANG Zilong</b>
7 分钟主题报告 7' leading speech	法国 AETS 集团 <b>王川蓉</b> 总监/ AETS Group, France; Manager <b>Rena Chuanrong Wang</b>
7 分钟主题报告 7' leading speech	德国气候保护、能源与交通研究所 <b>马提亚斯-哈特维格</b> 研究员/IKEM Germany, <b>Matthias Hartwig</b>
20 分钟讨论 20' Discussion	交流与讨论/Questions, Comments and Answers
17:00-18:00	<b>主题 4: 能源-经济-环境系统探析/ Session 4: Energy-Economic-Environment Analysis</b>
主持人/Moderator	<b>吴国睿</b> (Dr. WU Kuo-rui; DLUT)
记录人/Secretary	任婉侠(Prof. Dr. REN Wanxia) + 谢潇 (Dr. XIE Xiao)
7 分钟主题报告 7' leading speech	上海理工大学 <b>黄蓓佳</b> 博士/ Shanghai Uni. of Sci. & Tech.; <b>Prof. Dr. HUANG Beijia</b>
7 分钟主题报告	宏鑫达管理咨询公司 <b>赵敬敬</b> 女士/

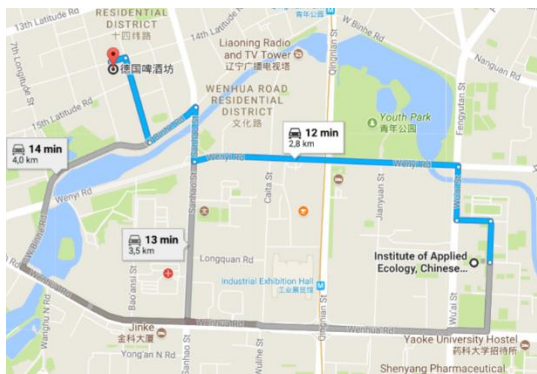
7' leading speech	Hongxinda Consulting Ltd.; Ms. <b>ZHAO Jingjing</b>	
7 分钟主题报告 7' leading speech	武汉大学经济学院 <b>杨冕</b> 博士/ Wuhan University; Prof. Dr. <b>YANG Mian</b>	
7 分钟主题报告 7' leading speech	西南交通大学 <b>赵锐</b> 博士/ Southwest Jiaotong University; Prof. Dr. <b>ZHAO Rui</b>	
7 分钟主题报告 7' leading speech	大石桥市科学技术局 <b>罗启东</b> 先生/ Department of Sci. & Tec. of Dashiqiao City; <b>LUO Qidong</b>	
20 分钟讨论 20' Discussion	交流与讨论/Questions, Comments and Answers	
<b>18:00-18:30</b>	<b>讨论与展望/Summary</b>	
	主持人/Moderator	Stefan, Heiko, Bing? Prof. Dr. C.C.Chan?
	记录人/Sectary	任婉侠 (Prof. Dr. REN Wanxia)
<b>18:30-24:00</b>	<b>晚餐与交流/dinner, beer, &amp; networking</b>	
<b>15 日 (15<sup>th</sup> Sun)</b>		
<b>10:00-12:30</b>	<b>实地考察/On-site visiting</b>	
<b>12:30-14:30</b>	<b>地方特色小吃/Local Food for Lunch</b>	
<b>14:30-17:30</b>	<b>实地考察/On-site visiting</b>	
<b>17:30-19:00</b>	<b>地方特色小吃/Local Food for Supper</b>	
<b>19:00-</b>	<b>自由活动/Free Leisure Time</b>	
<b>16 日 (16<sup>th</sup> Mon)</b>		
<b>06:00-</b>	<b>离会时间/Say "good-bye"</b>	



## 14 日晚餐地点/Restaurant (14<sup>th</sup> Oct, 2017)

饭店/Restaurant: 麟-德国啤酒坊/Lynn-German Beer House

地址/Location: 十四纬路 15-1 号(Nr. 15-1, 14<sup>th</sup> Latitude Rd)





## Participants/参会嘉宾

(排名不分先后, 暂由随机录入顺序拟定)

No.	Name, Given Name	Title	Affiliation
01	Stückrad, Stefan/ 斯特凡-斯堆克哈德	Dr. Mr./博士 Kopernikus-ENavi 协调官	Institute for Advanced Sustainability Studies (IASS Potsdam)/ 波茨坦高等可持续研究所
02	Thomas, Heiko/ 海柯-托马斯	Dr. Mr./博士 Kopernikus-ENavi Manger	IASS Potsdam/波茨坦高等可持续研究所
03	Becker, Sophia/ 索菲娅-贝克	Dr. Ms./博士、研究员	IASS Potsdam/波茨坦高等可持续研究所
04	Jarass, Julia/ 尤利娅-尤哈斯	R.A. Ms./研究员	German Aerospace Center (DLR)/德国宇航中心交通研究所
05	Jaenicke, Martin/ 马丁-耶内克	Prof. Dr. Mr./ 环境政策中心创始主任	Free University Berlin/柏林自由大学
06	Schaefer-stradowsky, Simon/ 西蒙-夏费-斯塔道斯基	Mr. Director/所长	Institute for Climate Protection, Energy and Mobility (IKEM) Germany/ 德国气候保护、能源与交通研究所
07	Hartwig, Matthias/ 马提亚斯-哈特维格	Senior Scientist, Mr./ 高级研究员	IKEM, Germany/ 德国气候保护、能源与交通研究所
08	Chan, Ching-chuen/ 陈清泉	Prof. Dr./ 中国工程院院士	The Hong Kong University/香港大学
09	Rena Wang/ 王川蓉	Ms. Project Manager/ 亚太项目总监	AETS Consultants, France/法国 AETS 集团
10	Yannick Le Gonidec/ 雅尼克-乐-格尼德	Head/ 核电部门总监	Nuclear Business Line of APAVE Group, France/法国 APAVE 集团

11	Kuangxin Zhou/周旷昕	Dr. President/ 理事长、博士	German-Chinese Promotion Center for Environment & Energy , Germany/德国德中环境能源促进中心
12	张大雷/ZHANG Dalei	Prof. Dr. Director/所长	辽宁省能源研究所/ Liaoning Institute of Energy Research; 辽宁省垃圾 资源化创新联盟/Association of Waste-to-Energy of Liaoning Province
13	耿 涌/GENG Yong	Prof. Dr./教授, 院长	上海交通大学环境学院/Shanghai Jiao Tong University
14	石 磊/SHI Lei	Prof. Dr./研究员、主任	清华大学绿色跨越研究中心/Tsinghua University
15	蔡国田/CAI Guotian	Prof. Dr./研究员	中国科学院广州能源所/Guangzhou Institute of Energy Conservation, CAS
16	穆治霖/MU Zhilin	Dr. Director/博士、处长	全国人大环资委办公室/General Office, Commission of Environment and Resources Conservation, National People Congress
17	于建成/Yu Jiancheng	Dr. Director/博士、处长	国家电网天津公司智能电网处/Department of Smart Grid, Tianjin Company of State Grid
18	姬兰柱/JI Lanzhu	Prof. Dr./研究员, 副院长	中国科学院沈阳分院/Shenyang Branch of CAS
19	仲 丽/ZHONG Li	Director /处长	辽宁省可持续发展实验区管理办公室 /Management Office for Sustainable Communities, Dep. of Sci and Tech of Liaoning Province
20	罗乃明/LUO Naiming	Prof. Director/主任	辽宁省对外科技交流中心 /Center for International Sci. & Tech. Exchanges of Liaoning Province
21	于红砚/YU Hongyan	Section Chief/处长	沈阳市科技局国际合作处 /Section of International Cooperation, Shenyang Bureau of Science and Technology
22	尹春瑜/YIN Chunyu	Director/局长	辽宁省大石桥市科技局/Department of Sci & Tech of Dashiqiao City, Liaoning Province
23	鞠振河/JU Zhenhe	Prof. Dr. /教授、国务院特 殊津贴获得者	沈阳工程学院新能源研究中心/Center for New Energies, Shenyang Institute of Engineering

24	严 菁/YANG Jing	Ms. Director/项目官员	绿色和平北京代表处能源项目主管/Beijing Office, Green Peace
25	杨德伟/YANG Dewei	Prof. Dr./研究员	中国科学院城市环境研究所/Institute of Urban Environment, CAS
26	杨 冕/YANG Mian	Prof. Dr. /教授	武汉大学能源经济研究中心/Center for Energy Economics, Wuhan University
27	黄蓓佳/HUANG Beijia	Prof. Dr./教授	上海理工大学建筑环境学院授/Shanghai University of Sci. & Tech.
28	吴国睿/WU Kuo-ruì	Dr. /博士	大连理工大学商学院副教授/Dalian University of Sci. & Tech.
29	宋 伟/SONG Wei	Sectary-General/秘书长	辽宁省大石桥市政协/ Political Consultative Conference of Dashiqiao City
30	赵雪雁/ZHAO Xueyan	Prof. Dr./教授	西北师范大学地理环境学院/Northwest Normal University
31	宝 林/BAO Lin	G. M./总裁	驰奈生物能源系统有限公司董事长/Chinai Biomass Energy Co. Ltd.
32	郭四代/GUO Sidai	Prof. Dr./教授、主任	西南科技大学循环经济中心/Southwest University of Sci and Tech.
33	赵 锐/ZHAO Rui	Prof. Dr./教授, 环境系主任	西南交通大学环境系/Southwest Jiao Tong Univeristy
34	石 峰/SHI Feng	Prof. Dr. Director/研究员	山东省科学院/Shandong Academy of Sciences
35	温宗国/WEN Zongguo	Prof. Dr./教授、主任	清华大学中国循环经济产业研究中心/Tsinghua University
36	张子龙/ZHANG Zilong	Prof. Dr. /教授	兰州大学资源环境学院/Lanzhou University

37	姜 月/JIANG Yue	Ms. Engineer/高级工程师	辽宁省能源研究所高级工程师/Liaoning Institute of Energy Research
38	鹿晨昱/LU Chenyu	Prof. Dr. /教授	西北师范大学地理学院/Northwest Normal University
39	刘祚希/LIU Zuoxi	Prof. Dr. /副教授	沈阳航空航天大学/ Shenyang Aerospace University
40	田力威/TIAN Liwei	Prof. Dr. /教授	沈阳大学/Shenyang University
41	李京忠/LI Jingzhong	Prof. Dr. G.M./教授	许昌学院遥感与地理信息系统教研室/Lab for RS & GIS, Xuchang University
42	吕 达/LV Da	Director/主任	启迪科技园（沈阳）技术转移中心/TusPark(Shenyang)
43	李济夏/LI Jixia	R.P./中国区代表	中德工业 4.0 联盟/Sino-German Association for Industrial 4.0
44	周志华/ZHOU Zhihua	G. M./总裁	江苏德道尔环保科技有限公司/Jiangsu Dedaoer Environmental Protection, Co. Ltd.
45	李 辉/LI Hui	Mr. GM/总裁	中科碳能（北京）技术有限公司/Beijing Zhongke-Tanneng, Co., Ltd
46	张永军/ZHANG Yongjun	Prof. Dr./教授	南京工业大学/Nanjing Tech University
47	罗启东/LUO Qidong	Section Chief/科长	大石桥市科技局/Dep. of Sci & Tech of Dashiqiao
48	赵敬敬/ZHAO Jingjing	Consultant/战略顾问	供应链金融管理公司创业者/Supply-Chain Financing Co. Ltd.
49	刘 亮/LIU Liang	Business Director/商务总监	安迅思中国碳市场部/Department of China Carbon Market, ICIS
50	王志峰/WANG Zhifeng	Journalist/记者	辽宁电视台国际部/Internation Depart. Liaoning TV Station.

51	拓学森/TUO Xuesen	Chief Planner/主任咨询师	北京巅峰嘉业旅游文化投资有限公司/ Beijing Dianfengjiaye Tourism & Cultural Creativity Investment, Co., Ltd.
52	Hadi Badri Ahmadi/哈迪·巴德里·艾哈迈迪	博士生/PhD Student	大连理工大学管理学院/Dalian University of Technology
待定嘉宾/participants to be confirmed/invited (排名不分先后)			
01	沈长青/SHEN Changqing	处长/Director	辽宁省科技厅高新二处/Section of High-Tech (II), Department of Sci and Tech of Liaoning Province
02	李海峰/LI Haifeng	副总经理/Deputy GM	辽宁省能源投资集团/Liaoning Energy Group
03	熊金辉/XIONG Jinhui	处长/Section chief	沈阳市发展改革委能源处 / Energy Section, Commission of Development and Reform of Shenyang City
04	杨丽君/YANG Lijun	副处长/deputy-section - chief	沈阳市发展改革委能源处 / Energy Section, Commission of Development and Reform of Shenyang City
05	付永良/FU Yongliang	处长/Section chief	辽宁省发展改革委环资处处长/Section of Environment & Resources, Commission of Development and Reform of Liaoning Province
06			
所内出席领导及代表			
01	朱教君/ZHU Jiaojun	Prof. Dr. President/所长	中国科学院沈阳应用生态研究所/IAE-CAS
02	金昌杰/JIN Changjie	Prof. Dr./书记、副所长	中国科学院沈阳应用生态研究所/IAE-CAS
03	方运霆/FANG Yunting	Prof. Dr. /副所长	中国科学院沈阳应用生态研究所/IAE-CAS
04	庄 杰/ZHUANG Jie	Prof. Dr. Director/主任	中国科学院污染生态与环境工程重点实验室/Key Lab of Pollution Ecology and Environmental Engineering, CAS

05	卓君臣/ZHUO Junchen	Dr. Director/处长	中国科学院沈阳应用生态研究所科技处/Department of Sci & Tech., IAE-CAS
06	叶汉峰/YE Hanfeng	Director/处长	中国科学院沈阳应用生态研究所人事处/Department of Human Resources, IAE-CAS
07	景红双/JING Hongshuang	Deputy Director/副处长	中国科学院沈阳应用生态研究所科技处/ Department of Sci & Tech., IAE-CAS
08	赵曼如/ZHAO Manru	Section Chief/业务主管	中国科学院沈阳应用生态研究所科技处/ Department of Sci & Tech., IAE-CAS
09	任婉侠/REN Wanxia	Prof. Dr. /副研究员	中国科学院沈阳应用生态研究所/IAE-CAS
10	姜 璐/JIANG LU	Dr.	中国科学院沈阳应用生态研究所/IAE-CAS
11	逯承鹏/LU Chengpeng	Dr.	中国科学院沈阳应用生态研究所/IAE-CAS
12	张云松/ZHANG Yunsong	Dr.	中国科学院沈阳应用生态研究所/IAE-CAS
13	谢 潇/XIE Xiao	Dr.	中国科学院沈阳应用生态研究所/IAE-CAS
媒体支持			
01	新华社辽宁分社	Xinhua Press	姜璐负责 (Contact : Dr. JIANG Lu)
02	沈阳日报	Shenyang Daily	
03	辽沈晚报	Liaoshen Daily	
04	晨报	Morning News	
05	网络媒体	New Media	



## 主要嘉宾简历/Profiles of Participants

(未完待续/to be completed soon)

### 陈清泉 (CHAN Ching-Chuen)



陈清泉先生是我国著名的新能源与电动车专家，中国工程院院士、英国皇家工程院院士、乌克兰工程院院士，英国洛夫堡大学荣誉技术博士。1982年获香港大学哲学博士。提出了电动车研究核心和总体指导思想，使现代电动车学这一新兴交叉学科从理论到实践形成了一个完整的体系。陈清泉院士先后荣获世界工程师组织联盟杰出工程师勋章、英国皇家工程院菲利普亲王勋章、英国电机工程师学会国际演讲勋章、香港工程师学会最高荣誉金勋章；被《亚洲新闻》评为亚洲最佳创新者，Global View 赞誉其为“亚洲电动车之父”。多次担任国内外著名大学的名誉或客座教授、政府顾问、著名企业科技战略顾问或独立董事。近年来，陈清泉院士在竭力推动新能源研究及电动汽车发展应用的同时，积极投身于博雅教育，着力培养创新型青年人才。【语言：中文、英语、基础德语】

**Prof. C. C. Chan** holds BSc, MSc, PhD, HonDSc, HonDTech degrees. Honorary President and Council Chairman of Bohai University. Former Chair Professor and Head of the Department of Electrical and Electronic Engineering of the University of Hong Kong; Visiting Professor of MIT, University of Cambridge, etc; Founding President of the World Electric Vehicle Association; Senior Consultant to governments and industries; Fellow of the Royal Academy of Engineering, U.K., Chinese Academy of Engineering, IEEE, IET and HKIE. Recipient of Royal Academy of Engineering Prince Philip Medal; World Federation of Engineering (WFEO) Medal of Engineering Excellence; Gold Medal of Hong Kong Institution of Engineers; IEE International Lecture Medal; “Asia’s Best Technology Pioneers” by Asiaweek; published 11 books, over 300 technical papers and holds 10 patents.

### Martin Jänicke (马丁·耶内克)



博士，教授  
柏林自由大学环境政策研究中心创始主任  
德国波茨坦高等可持续研究所高级研究员  
“生态现代化理论”主要创立者，历任德国总理办公室规划顾问、柏林州议会议员、德国 UNESCO 委员，中国政府环境政策顾问、德国联邦政府教育科研部创新与技术分析专家组成员等。出版著作十余部，其中《*Environment Governance in Global Perspective*(全球视角下的环境治理)》被翻译成包含中文在内的多种语言在全球范围内广泛出版。【语言：英语、德语】

Prof. Dr. Martin Jänicke (married, two children) has forty years of experience as professor for comparative politics, scientific author, and senior policy advisor. 1975-76: advisor of the planning staff of the Chancellor's Office. 1980-: Member of the Berlin state parliament and member the German UNESCO Commission. 1986-2007: Director of the

Environmental Policy Research Centre, Freie Universität Berlin. 1999-2008: member and Vice President (2000-2004) of the government Expert Council on the Environment. Expert Reviewer / Review Editor of the IPCC (4 th and 5th Assessment Report), member of the International Advisory Board of the Wuppertal Institute and of the Board of the Deutsche Bundesstiftung Umwelt. Books on State Failure, Ecological Modernisation, Capacity-Building, Green Industrial Revolution and Global Environmental Governance have been translated into other languages. In 1998, he won the Prize of the Nature Protection Foundation in Berlin, and in 2013, he won the Urban Mining Award. Since 2013: member of the German Federal Ministry of Education and Research's ITA (innovation and technology analysis) expert group. [Language: English, German]

## **Stefan Stückrad (斯特冯·斯堆克哈德)**



博士, Kopernikus-ENavi 项目总协调人, IASS Potsdam 研究所研究员。

Stefan is the Scientific Manager of the Coordination Office, Kopernikus-Project ENavi (Navigation System for the Energy Transition),

## **Heiko Thomas (海柯·托马斯)**



博士, Kopernikus-ENavi 项目项目经理 (执行负责人), IASS Potsdam 研究所研究员。【未完待续/to be collected】

Thomas is the Project Manager - Coordination Office Kopernikus Projekt -Navigation System for the Energy Transition (ENavi), at the IASS Potsdam. ……

## Sophia Becker (索菲娅·贝克)



Kopernikus-ENavi 项目 AP6 (社会行为分析课题) 主要执行人, IASS Potsdam 研究所研究员。索菲娅先后在明斯特和巴黎学习心理学, 并即将在近日完成斯图加特大学博士学位学习课程 (科技与环境的社会学), 导师为奥特文-任 (Prof. Dr. Ortwin Renn, 现为 IASS Potsdam 所长)。她的博士论文主题是面向小汽车的行为分析, 由亥姆霍兹学会 ENERGY TRANS 项目资助。索菲亚在攻读博士学位期间, 被苏珊沙恩教授 (Prof. Susan Shaheen) 邀请在加州大学伯克利分校工作, 担任交通可持续发展研究中心创新移动部门的访问学者。[语言: 德语, 英语, 法语]

**Sophia** works at the IASS Potsdam in the *Energiewende Navigation* project. She studied psychology in Münster and Paris and recently completed her PhD at the University of Stuttgart (2013-2016), at the department for Sociology of Technology and the Environment (Prof. Dr. Ortwin Renn). The topic of her dissertation project is rebound behavior in car-based mobility. Her research was funded by the interdisciplinary program Helmholtz Alliance ENERGY TRANS. During her PhD, Sophia was invited by Prof. Susan Shaheen to work at the University of California at Berkeley as a visiting scholar at the department for Innovative Mobility in the Transportation Sustainability Research Center. [Language: German, English, French]

## Julia JARASS (尤莉亚·亚哈斯)



德国宇航中心交通研究所研究员。尤莉娅拥有德国地理学专业 Diploma 文凭, 并且即将完成关于市内公共交通行为的研究论文。她的研究兴趣主要是城市可持续交通出行行为及其能源-环境-社会影响。在 2015 年, 尤莉娅负责执行了德国关于电动车使用者的最大调查。【语言: 德语, 英语】

Julia Jarass is a research associate at the German Aerospace Center, Institute of Transport Research. She holds a diploma in Geography and recently finished her dissertation on travel behavior in new inner-city areas. Her research focuses on sustainable travel behavior in cities. In 2015, she conducted the largest survey of early adopters of electric vehicles in Germany. [Language: German, English]

## Matthias HARTWIG (马提亚斯·哈特维格)



**马提亚斯**自 2011 年起担任 IKEM 的高级研究员，并 2014 年起担任交通研究部门负责人。马提亚斯目前主要涉及不同的欧洲资助项目，重点是电动车辆（可再充电和燃料电池），车辆自动化和自动驾驶，移动性的联网和数字化，以及将新的移动形式整合到公共交通和运输系统。此外，马提亚斯代表 IKEM 协调能力网络联运自动化项目。马提亚斯在马德里的汉堡大学，格雷夫斯瓦尔德和阿尔卡拉德埃纳雷斯大学学习经济学和法学。目前，他也正在攻读博士学位，在格雷夫斯瓦尔德大学公共财政与税法（Michael Rodi 博士）主席指导下撰写关于“e-高速公路：公共交通系统货物运输与电动车辆”的论文。【语言：英语、德语】

**Matthias** is a Senior Research Associate at IKEM since 2011. Since 2014 he is the head of the Mobility department. Among other things, he is currently largely involved in different European funded projects focusing on electro mobility (re-chargeable and fuel cell), vehicle automation and autonomous driving, networking and digitization of the mobility, as well as integration of the new mobility forms into the public transport and freight traffic systems. Moreover, Mr. Hartwig coordinates the Competence Network Intermodal Automated Mobility on behalf of IKEM. He studied economics and law at the universities of Hamburg, Greifswald and Alcalá de Henares in Madrid. Alongside his work he is writing a Ph.D. dissertation on “eHighway – electro mobility for freight traffic in public transport system” at the Chair of Public, Finance and Tax Law (Prof Dr. Michael Rodi) of the University of Greifswald. [Language: English, German]

## **Simon SCHÄFER-STRADOWSKY（西蒙·夏费-斯塔道斯基）**



西蒙博士是德国气候保护，能源和交通研究所所长，是能源系统优化、自动驾驶和可再生能源投资领域的知名专家，拥有柏林自由大学的法律学位。西蒙先后在德国联邦议会工作 1 年，BeckerBüttnerHeld 律师事务所工作两年，这对他可再生能源领域的法律生涯起到了很大的助益。他参与了德国“可再生能源法”（Erneuerbare Energien Gesetz EEG）的修改完善工作，对可再生能源可变投资制度进行了国际比较分析。自 2014 年以来，他一直担任 IKEM 所长。他是 Greifswald 大学 Rodi 教授的博士生，获得能源储存博士学位论文。他在各种专业期刊上发表了多篇学术论文。

【语言：英语、德语】

**Simon** is the Head and Director of the Institute for Climate Protection, Energy and Mobility (IKEM). A renowned expert in the area of Energy Sector optimization, autonomous driving and investments into renewable energy, holding his law degree from the Free University of Berlin. His legal career is complemented by extensive professional experience in renewable energy law: one year at the German parliament and two years at the law firm Becker Büttner Held. He has been involved in the further development of the Act on Renewable Energies (Erneuerbare Energien Gesetz EEG) and carried out an international comparative analysis of the variable investment regimes for Renewable Energy. Along with his principle occupation with energy law, Mr. Schäfer-Stradowsky completed a study of measures increasing the flexibility of the electricity market in 2013 (with the focus on Power to Gas and Power to Heat). Since 2014 he has been the managing director of IKEM. He is a PhD candidate with Prof. Dr. Rodi at the Greifswald

University with the doctoral thesis on energy storage. He has published multiple academic papers in various professional journals. [Language: English, German]

## Yannick Le Gonidec (雅尼克·乐·格尼戴克)



Le Gonidec 先生是拥有 150 年悠久历史的法国 APAVE 集团的核电业务部总监，负责 APAVE 核电业务全球的战略设计、市场开发、业务指导。牵头核电项目标准和规范应用、质量控制服务的开发。同时，他是国际原子能机构，欧洲和法国核安全标准的专家。对核电标准的法规要求、程序操作及相关方的关联等在核电项目中的应用有丰富的经验。参与了法国 EPR FA3 项目，英国 HPC 项目，EDF 台山 EPR，和国际热核聚变实验性反应堆 (ITER) 等项目的实施。他还是法中电力协会(PFCE) 的董事成员。【语言：英语、法语】

Yannick is the director of the Nuclear Business Line Director of APAVE Group (150 years establishment), responsible of the APAVE global nuclear business strategy design, market development, business advice. He leads the project development of the services on application of the nuclear regulation and standards, implementation of the quality control. He is expert member of AIEA, EC and French nuclear standards. He is proficient of nuclear power plant regulation requirements, operational procedure, the stakeholder management. He managed the France EPR Flamanville, China Taishan, and UK Hinckley point C projects in the terms of the qualification of the nuclear islands components, as well as the ITER (International thermonuclear experimental reactor) project. He is also the board member of the PFCE. [Language: English, French]

## Rena Chuanrong Wang (王川蓉)



王川蓉是主要负责开发和实施联系欧洲与亚太地区的项目，业务范围涵盖气候变化，环境，能效等。在公共资金项目（如欧盟，欧洲投资银行，亚洲开发银行，法国开发署等）的开发和管理上具有丰富的经验。曾担任欧盟 SWITCH-Asia 斯里兰卡可持续消费和生产政策支持项目主任，2013 中国国际环境和发展合作委员会（国合会）可持续消费和发展课题组国际协调员，美国开发署支持的中美气候伙伴关系项目和英国繁荣基金支持的广东公共建筑能效伙伴关系项目的项目经理，中欧清洁能源中心的政策和能力建设事务官员，UNEP/UNESCA 亚太地区可持续消费和生产技术支持中心主任。同时她还参与欧盟相关项目招标和实施的评估工作。【语言：中文、英语及基础法语】

**Rena** is a Senior Expert focusing on promoting sustainable development and green economy in developing countries, develops and implements projects related to Climate Change, Environment, and Energy Efficiency, especially linking Europe to Asia and Pacific regions. She has more than 20 years rich experiences on donor funded projects (EC, ADB, WB, AFD, USAID, EIB, EBRD, AfDB, IADB). She served as the Project Director for EU Switch-Asia Policy National Support Component for Sri Lanka and International Coordinator of 2013 CCICED (China Council for International Cooperation on Environment and Development). She also worked on EU-China Clean Energy Center (EC2) as the Policy and



Capacity Building Officer creating and updating a clean energy policy knowledge base and related advisory services. She also was managing director of UNEP/UNESCAP Regional Helpdesk on Sustainable Consumption and Production in Asia and the Pacific. Evaluator of EU funded projects. [Language: Chinese, English and basic French]

## 张大雷 (ZHANG Dalei)



研究员，博士生导师，国务院特殊津贴获得者  
辽宁省能源研究所所长

辽宁省垃圾资源化技术创新战略联盟理事长  
兼任中国生物质能技术开发中心秘书长，辽宁省可再生能源学会理事，中国可再生能源学会理事，国家可持续发展实验区专家委员会委员。主持承担或参加国家“863”课题、国家科技支撑计划课题、国际科技合作计划课题、“948”课题、部省级科技攻关和重点项目课题多项，获辽宁省科技进步二等奖 2 次。先后入选辽宁省第一批百千万人才工程人才，辽宁省优秀专家、辽宁省优秀科技工作者。[语言：中文]

Prof. Dr. Zhang Dalei is the Director of the Institute of Energy Research, Liaoning Province, and the President the Association for Waste-to-Energy Technologies and Strategies. He also serves as Secretary-General of China Biomass Energy Technology Development Center, Vice President of the Renewable Energy Society of Liaoning Province, board member of China Renewable Energy Society, and a national-level Expert for the National Sustainable Community. Dalei has conducted various national-level research grants and projects, such as 863 Project, national Sci & Tech Project, etc. He has won several distinguished prizes, and has strong solid knowledge on biomass technologies and development. [language: Chinese]

## 耿涌(GENG Yong)



上海交通大学特聘教授、博士生导师；国家杰出青年基金获得者，中国科学院百人计划入选者（A 类），联合国气候变化委员会第五次评估报告主要作者（IPCC-AR5），联合国工发组织等多个国际机构的专家成员。1992 年获东南大学学士学位，1997 年获大连理工大学硕士学位，2004 年获得加拿大达尔胡西大学化学工程哲学博士（PH.D）学位。主要研究领域为环境管理与产业生态学及循环经济，已在相关领域发表学术论文 170 余篇，发表在包括“Science”、“Nature”、“Nature-Climate Change”、“Environmental Science & Technology”等在内的 SCI/SSCI 检索文章近 90 篇。曾获得包括辽宁省科技进步奖二等奖等在内的各类学术奖项 7 项，并与德国、美国、日本、意大利等国有着密切的国际合作关系。【语言：中文、英语】

Prof. Geng is a distinguished professor and became to serve as the dean of the College of Environment at Shanghai Jiao Tong University in January 2015. He obtained his bachelor, master and doctorate from Southeast University, Dalian University of Technology and Dalhousie University in Canada, respectively. He is the winner of national fund for distinguished young scientist and excellent 100-talent program of Chinese Academy of Sciences. He served as a lead author for IPCC-AR5, and an expert for



UNIDO's Resource Efficient Cleaner Production program. He has undertaken various research projects, funded by National Natural Science Foundation of China, Chinese Academy of Sciences and Ministry of Science and Technology (MOST). He has published over 100 research papers in the peer-reviewed international journals, including the prestigious journals of "Science" and "Nature". [Language: Chinese, English]

## 鞠振河 (JU Zhenhe)



国务院特殊津贴获得者，二级教授。

沈阳工程学院新能源研究中心主任，辽宁省太阳能光伏应用技术重点实验室主任，辽宁省太阳能光伏工程实验室主任，辽宁太阳能研究应用有限公司董事兼总工程师，欧洲太阳能工程学院太阳能工程硕士生导师。1990年毕业于东北电力学院获学士学位；2004年毕业于瑞典达拉纳大学太阳能工程专业获硕士学位。国家检标委太阳能专业组委员，国家低碳照明中心评审专家，辽宁省“十百千高端人才引进工程”百人层次获得者，辽宁省高层次科技专家库专家。获辽宁省科技进步一等奖、沈阳市科技进步一等奖各1项，公开发表学术论文近30篇，申请并获授权太阳能光伏应用相关专利共22项，其中国家技术发明专利9项。近年相继研制成功太阳能路灯、太阳能独立电站、风光互补供电系统、太阳能电动车等多项科技产品。先后主持国家发改委、省市发改委、省市科技厅（局）、省市经委等委托科研项目10余项。【语言：中文、英语】

Prof. Dr. JU, received his double master's degree from Sweden in Solar Energy. As a Level II professor at the Institute of New Energy, JU is a recipient of the Chinese State Council Special Allowance. He is also the founder, CEO and Chief Engineer of the Liaoning Solar Energy Company. In 2005, JU was awarded a patent for his breakthrough in solar street lights, which provided the technological foundation for the wide application of solar street lights in China. With his technological expertise, JU founded the Liaoning Energy Investment Group and the Industry Academia Research Cooperation Company. In addition, JU is the founder of the first full-time Solar Energy Bachelor's Program and the first New Energy Bachelor's Program in China. [Language: Chinese, English]

## 穆治霖 (MU Zhilin)



中国人民大学环境法学博士，德国亚历山大·冯·洪堡基金获得者(洪堡学者)，现任职于全国人大环境与资源保护委员会办公室。德国柏林洪堡大学法学院访问学者(2013-2014)。已独立和合作发表中英文核心期刊文章20余篇(其中SCI/SSCI收录2篇，CSSCI收录12篇)；专著《环境立法利益论》(武汉大学出版社，2017年3月出版)；参编著作等6部；先后参与了《水污染防治法(修改)》、《循环经济促进法》、《可再生能源法》、《环境保护法(修改)》、《大气污染防治法(修改)》、《核安全法》、《土壤污染防治法》等10余部法律草案的起草和审议工作，担任主要执笔人起草立法研究报告20余篇；获得省部级以上各类奖项10余次。多次赴德国、英国、日本、韩国、奥地利等国进行交流访问。【语言：中文、英语、基础德语】

**Zhilin** is now working at the General Office of the Commission of Environment and Resources Conservation, under the National People Congress. He has a doctor degree in legislation from the Renmin University of China, and awarded as a Humboldtian by the Alexander von Humboldt Foundation in 2014. During 2013 to 2014, he conducted research activities at the Humboldt University of Berlin. Dr. Mu has been involved in dozens of legislation activities at national level, such as Renewable Energy Law, Law of Promoting Circular Economy, Law on Nuclear Safety, etc. He has published more than 20 papers in renowned journals and one book entitled with "Research on the Benefits of Environmental Legislation". [Language: Chinese, English, Basic German]

## 石磊(SHI Lei)



清华大学环境学院副教授、国家环境保护生态工业重点实验室副主任, 清华大学绿色跨越研究中心副主任, 清华大学环境学院清洁生产与生态工业研究中心副主任, 中国生态经济学会工业生态经济与技术专业委员会常务理事, 国际工业生态学物质流分会委员, 第四届工业生态学国际大会共同主席, 第三届工业生态学亚太会议共同主席, 《生态学报》编委。主要研究领域为工业生态系统复杂性、物质代谢、生态创新。主持完成 7 项生态工业园区规划, 7 项循环经济发展规划, 4 项环保产业发展规划, 2 项生态文明及环境友好型社会研究, 2 项国家自然科学基金, 2 项国家自然科学基金, 3 项水体污染控制与治理重大专项, 2 项国家科技支撑计划等。参编著作 8 部, 发表文章 70 余篇。【语言: 中文、英语】

**Lei** is now an associate professor working at the College of Environmental Sciences, Tsinghua University. He is also the Deputy Director of National Key Laboratory of Environmental Protection and Eco-Industry, Deputy Director of Green Crossing Research Center of Tsinghua University, and Deputy Director of Clean Production and Eco-Industry Research Center, Tsinghua University. Lei is very active in international scientific community, for example, he serves as executive director of the Industrial Ecology Economy and Technology Committee of China Eco-Economic Society, member of the material flow analysis commission under the International Society of Industrial Ecology, and Co-Chairman of the 4th International Conference on Industrial Ecology. His main research areas are industrial ecosystem complexity, material metabolism, ecological innovation. As a chief investigator and planner, he has completed dozens eco-industrial park planning, circular economy development plan, and environmental protection industry development plan. Lei has published more than 70 articles in renowned journals. [Language: Chinese, English]

## 蔡国田(CAI Guotian)



研究员、理学博士、博士生导师。

2007 年获中国科学院大学理学博士学位，2010.11-2011.11 年参加中组部博士服务团挂任乌鲁木齐高新区产业发展局副局长，2010 年、2015 年分别在日本国立环境研究所、美国肯特州立大学访问学习，2007 年至今在中科院广州能源研究所从事能源发展战略与低碳发展方面的研究工作，涉及能源规划、能源科技路线图、能源政策评价、能源地理、低碳经济发展战略等领域。自 2007 年 6 月以来主持和参与“中国至 2050 年能源科技路线图”、“广东省能源平衡时空演化及其利益协调机制”、“广东省能源互联网产业技术路线图”、“海南省十三五能源规划”等国家级、省部级、地市级课题 20 多项，发表论文 20 多篇，出版《广东能源平衡时空演化及其利益协调机制研究》(独著, 2015)、《中国工业化进程能源保障时空协调过程研究》(独著, 2009)、《能源安全—欧洲外交新挑战》(译著, 2011)、《Energy Science & Technology in China: A Roadmap to 2050, Springer; 2010 edition》(主要执笔人, 2009) 等专著 6 部。在国家、省、市、区不同空间层面的能源战略—能源规划—能源政策体系制定方面有丰富经验。【语言：中文、英语】

Guotian is an energy expert and a full Professor working at the Guangzhou Institute of Energy Conversion(GIEC), CAS. He graduated and got the master's degree in the School of Geography Science, South China Normal University in 2004; graduated and got the doctor degree in the Institute of Geographical Sciences and Natural Resources Research (IGSNRR), CAS in 2007. Since 2007 Guotian Cai began to work in Energy Strategy Center, GIEC, CAS. During the past ten years, Guotian has presided over more than twenty researching projects about energy strategy and low carbon development at local or national level. Guotian Cai has published six monographs and thirty papers. [Language: Chinese, English]

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## 于建成 (YU Jiancheng)



博士，智能电网领域专家，天津电力公司智能电网处处长，中新天津生态城智能电网综合示范工程主要实施者。中新天津生态城是中国、新加坡两国政府间的战略性合作项目，要求可再生能源自发自用比例达到 20%以上，天津生态城智能电网综合示范工程是国家电网公司第二批智能电网示范项目中的唯一一个综合示范试点项目：实施面积世界之首，实现了中新天津生态城 31 平方公里的全区域覆盖；功能最全，包括了发电、输电、变电、配电、用电、调度、通信信息网络“六个环节一个平台”，涵盖了电力系统的全过程。【语言：中文、英语】

Jiancheng, a Senior Engineer in Smart Grid of Tianjin Electric Power Company of the State Grid, China. In March 2006, he graduated from Tianjin University of China, with a doctor degree in technical economic and management. Since May 2006 he works for the Tianjin Electric Power Company of the State Grid and the main tasks for him is to develop and manage the smart grid strategy. One of his remarkable works is in charge of building the Integrated Smart Grid Demonstration Project of the Sino-Singapore Eco-city. This Integrated Smart Grid Project include intelligent distributed power generation systems

with grid energy storage and diversified access, intelligent transmission systems with line digitization, standardization and safety, intelligent substations with integrated digital information and communication platform for networking, information sharing, standardization, advanced interactive applications, intelligent distribution network with intelligent self-healing, flexible, adjustable intelligent based on distribution automation, intelligent end use containing information collection system, two-way interactive marketing system, intelligent power district, building, home and electric car charging and discharging station, intelligent control and operation center with intelligent operational risk assessment, early warning and coordinated control of power supply security and optimal scheduling functions, and the dynamic multi-dimensional virtual visualization platform to provide the smart grid with geographic information integration, analysis and visualization function for operation. Dr. Yu has also involved in state-level S&T grant such as the "863 Project", acting as an author and editor of "White Paper on Sino-US Smart Grid's Economic Performance and Evaluation". [Language: Chinese, English]

## 温宗国(WEN Zongguo)



清华大学环境学院教授，博士生导师  
教育部“长江学者计划”青年学者，国家第二批“万人计划”科技创新领军人才，国家优秀青年科学基金获得者，科技部国家中青年科技创新领军人才。中国环境科学学会环境地学分会副主任委员，“两网融合”（垃圾分类处理与再生资源利用）产业创新协作体专家委员会副主任，“互联网+资源循环利用”产业促进联盟副理事长、首席科学家，中国系统工程学会能源资源系统工程分会常务理事，全国环保产品标准化技术委员会委员，Asian Journal of Energy、再生资源与循环经济等编委会委员。研究领域为行业节能减排管理与政策、环境互/物联网系统及管理、循环经济发展规划与管理。主持国家自然科学基金、国家发改委、工信部、科技部等 20 余项国家级、省部级重大课题。已出版学术著作 8 部，发表论文 113 篇，获科技成果奖励 8 项，申请计算机软件著作权 30 项。【语言：中文、英语】

**Zongguo** is a full professor in circular economy and environment management, working at the Tsinghua University. He has dozens of national-level renowned honors, awards and grants, such as National Natural Science Fund for Outstanding Young Scholars of China, Award of Young Scholar of Distinction by Tsinghua University, China Young and Middle-aged Talented Scholar on Scientific and Technical Innovation by the Ministry of Science and Technology of China, First Prize of Scientific and Technological Advancement Award by China's Ministry of Education for work in development and application of the key technologies to promote urban circular economy at so on. Zongguo mainly focuses on the research of 1) Industrial policy and management on pollution control, energy conservation and CO<sub>2</sub> emissions, 2) Methodology on technology-based bottom-up modeling to analyze the potential of pollutants reduction and energy conservation in China's key industries, 3) Technology selection problems with multi-objective point of view and technique assessment methodologies with cost-



effectiveness analysis, and 4) Internet of Things (IoT) Monitoring System Development of Energy Consumption, Carbon Emission and Waste Flows. [Language: Chinese, English]

## 石峰 (SHI Feng)



博士，山东省科学院研究员，山东省泰山学者海外特聘专家，第六届国际产业生态学会亚太会议主席。现兼任中国生态经济学会工业生态经济与技术专业委员会常务理事、国际工业生态学会会员，山东省循环经济促进会副秘书长。主要研究领域为物质代谢和循环经济等研究领域，已发表论文专著多篇，主持多项科研课题。【语言：中文、英语、日语】

Prof. Dr. SHI, distinguished and principal investigator working at the Shandong Academy of Sciences, he is also titled as Taishan-Scholar for Oversea Expert of Shandong Province, and served as the Chair of the International Society for Industrial Ecology 6th Asia-Pacific Conference. He is a broad member of the executive director of the Joint Circular Economy and Ecological Industry Symposium cum Ecological & Economic Society of China, a board member of the International Society for Industrial Ecology, the vice secretary-general of the Shandong Province Circular Economy Association. His research focuses on material metabolism and circular economy, with many published papers. [language: Chinese, English, Japanese]

## 姬兰柱 (JI Lanzhu)



中国科学院沈阳分院副院长、分党组书记；  
中国科学院沈阳应用生态研究所研究员，博士生导师；  
兼任中国生态学会常务理事、辽宁省生态学会、辽宁省昆虫学会副理事长，奥地利维也纳甲虫学会会员，《生态学杂志》副主编。主要研究方向为昆虫生态学、水生鞘翅目昆虫分类学、森林生态系统健康与管理，植物源生物杀虫剂开发与应用技术研究。2005 年以来，围绕以上研究发表（含通讯作者）研究论文 30 余篇，其中 SCI 论文 10 余篇。【语言：中文、英语】

Prof. Dr. JI is Vice President of the Shenyang Branch of the Chinese Academy of Sciences, and the Party Secretary of the CCP of the Shenyang Branch of the Chinese Academy of Sciences. He is an famous biologist, with a focus on the insect ecology, aquatic coleoptera insect taxonomy, forest ecosystem health and management, plant biological insecticide development and application of technology research. He is also the executive director of the Chinese Society of Ecology, the Ecology Society of Liaoning Province, the vice president of the Liaoning Provincial Entomological Society, the member of the Vienna Beetle Society, and the deputy editor of the Journal of Ecology. Since 2005, he has published (including communications author) more than 30 papers, of which more than 10 SCI-indexed papers. 【Language: Chinese, English】

## 张永军 (ZHANG Yongjun)

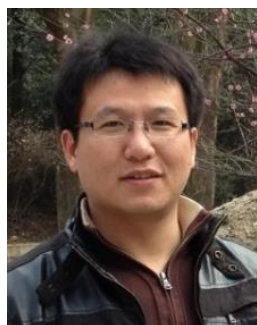


工学博士，南京工业大学教授。国际水协会工业污水预处理专家组管理委员，国际学术期刊 Heliyon 编委。2002 年获河北科技大学工学学士学位，2004 年获英国诺丁汉大学理学硕士学位。2005 年赴德国柏林工业大学攻读博士学位，期间获柏林优秀青年奖学金 (NaFöG)、中国优秀自费留学生奖学金；2009 年被柏林工业大学聘为研究人员，2013 年被任高级研究人员，同年获工学博士学位。2016 年 4 月获聘南京工业大学教授。已完成德国教研部、德国经济部等多项科研项目，拥有从基础研究到工程化的全流程经验。目前，已在行业著名期刊发表 16 篇 SCI 论文，包括 1 篇 ESI 高引用论文。【语言：中文、英语】

【语言：中文、英语】

Yongjun received his doctorate degree (Dr.-Ing.) from Technical University of Berlin in 2013 where he had worked as a research associate and a senior research associate later. In 2016, Dr. Zhang was appointed as a Professor in Nanjing Tech University and a Research Fellow in IAE-CAS. His research interestis focused on wastewater treatment technologies and he has published 16 publications in peer-reviewed journals so far, such as Water Research, Chemosphere, Journal of Hazardous Materials, Bio-resource Technology, etc. Dr. Zhang also actively serves the community by taking roles as a committee member of the IWA specialist group "Industrial Wastewater Pretreatment", an editorial board member of the journal Heliyon, and an invited reviewer for many journals. [Language: Chinese, English]

## 杨冕 (YANG Mian)



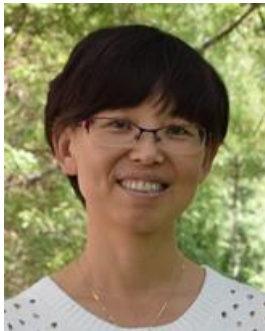
武汉大学经济管理学院教授，博士生导师。2006 年获数学学士学位；2012 年毕业于兰州大学获理学博士学位。2010 年 9 月至 2012 年 3 月，赴美国杜克大学开展联合培养项目。主要研究领域为要素市场扭曲的资源环境效应、节能减排长效机制设计等。先后主持国家自然科学基金项目、教育部人文社会科学基金项目、国家社科基金重大项目子课题等多项项目。在《European Journal of Operational Research》、《Energy》、《Applied Energy》、《Renewable Energy》等期刊发表学术论文近 30 篇。出版专著（科学出版社）1 部。【语言：中文、英语】

Mian is currently an associate professor at Wuhan Yniversity, China. Mian obtained his bachelor degree in the major of applied mathematics from Lanzhou University in 2006, and the Ph.D degree in the major of human geography from Lanzhou University in 2012. During 2010-2012, Mian went to Duke University for a joint training Ph.D program with the funding support from China Scholarship Council. Mian mainly focuses on three topics including (1) the resource and environmental effects of China's factor market distortions, (2) designing the long-term mechanism for China's energy saving and emissions



reduction, and (3) total factor productivity analysis. Up to now, Mian has presided over several research fundings, such as 2 Natural Science Foundations of China, 1 Humanities and Social Science Fund from Ministry of Education, and 1 sub-project of Major Projects of the National Social Science Foundation. Mian has published nearly 30 academic papers in various prestigious journals, such as 《European Journal of Operational Research》、《Energy Policy》、《Energy》、《Applied Energy》、《Renewable Energy》. [Language: Chinese, English]

## 赵雪雁(ZHAO Xueyan)



西北师范大学教授、博士生导师。2003 年于兰州大学获得经济学博士学位, 主要从事寒旱区生态经济研究, 先后入选甘肃省领军人才、教育部新世纪优秀人才支持计划。曾主持和参与完成国家自然科学基金项目、国家社科规划项目、教育部科学技术重点项目、教育部新世纪优秀人才支持计划项目、霍英东教育基金项目、甘肃省社科规划重点项目等项目多项。在《地理学报》、《地理研究》、《地理科学》、《自然资源学报》等期刊上发表学术论文 130 余篇, 出版专著 4 部, 获得多项省部级科研奖励。【语言: 中文、基础英语】

**Xueyan** is a full Professor in Sustainability & Ecological Economics at Northwest Normal University, Lanzhou, China. Zhao obtained her doctor degree in Economics from Lanzhou University in 2003. She is an outstanding woman scientist, for example, she was selected as a new-century-talent by the Ministry of Education, one of the leading experts selected by the government of Gansu Province. Currently, her research mainly focuses on four topics including: (1) livelihood transition and its environmental impact, (2) social capital and region development, (3) ecological compensation, and (4) farmers' perception and adaptation to climate change. ZHAO has presided more than 20 grants, including China Natural Science Foundation projects, China Philosophy and Social Science Foundation projects, New Century Talented Person Support project, Fok Ying Tung Education Foundation Support project, etc. She has published almost 130 papers in various renowned journals, such as Acta Geographica Sinica, Geography Research, Chinese Journal Applied Ecology. [Language: Chinese, basic English]

## 刘亮 (LIU Liang)



安迅思的中国碳市场的初创成员之一。他主要负责中国碳市场的从业者商务合作，主要包括大中型控排企业、投资及咨询公司、CCER 业主，关注中国碳市场的外企等。近年多次为省市发改委系统、大型控排企业和各交易所、社会机构培训讲授碳排放数据管理和碳资产管理。在加入安迅思之前，就职于瑞士碳资源管理公司 (Vitol2011 年收购)，司职 CDM 项目商务管理工作，具有在项目业主、咨询公司和项目买方多方面的碳资产开发管理经验，碳资产管理行业 10 年以上经验，非常了解中国碳市场的发展历程。在瑞士碳资源工作前，先后在安徽海螺集团和英国 CAMCO 公司工作。毕业于西安建筑科技大学环境工程专业。【语言：中文、英语】

Liu Liang - Commercial Director of China Carbon Market and funder of ICIS's carbon market in China. He is mainly responsible for the commercial cooperation with practitioners in China's carbon markets, including medium and large compliance enterprises, investors, consulting firms, CCER owners and foreign enterprises focusing on China's carbon market. In recent years, he has, for many times, provided training to PDRCs, large compliance enterprises, exchanges, and public institutions on the data management of carbon emissions and the management of carbon assets. Before joining ICIS, he worked with Carbon Resource Management. S. A (purchased by Vitol in 2011) for its commercial management work of CDM project. In the development and management of carbon assets, he has multi aspect experience with the project owners, consulting firms and project buyers. With over 11 years of experience, he is very familiar with the history of China's carbon market. Prior to this, he worked with Anhui CONCH Group and CAMCO (Britain). He graduated from Xian University of Architecture and Technology, majoring in Environmental Engineer. [Language: Chinese; English]

## 黄蓓佳(HUANG Beijia)



上海理工大学环境与建筑学院副教授。2006 年本科毕业于吉林大学，2012 年博士毕业于同济大学。先后在肯塔基大学、东京工业大学留学访问。主要研究方向为环境评价、环境规划、低碳与可持续发展、清洁能源技术。主持国家自然科学基金项目、地方省部级科研项目 10 余项。以第一作者在《Journal of Cleaner Production》、《Journal of Industrial Ecology》、《Resource, Conservation and Recycling》等 SCI 期刊，《环境科学研究》、《环境科学与技术》等中文核心期刊上发表论文 20 余篇，参与编写专著 1 部。【语言：中文、英文】

**Beijia** is currently an associate professor at Shanghai University of Science and Technology, China. Beijia Huang got her bachelor degree from Jilin University in 2006 and PhD degree from Tongji University. She has visiting scholar experience in Kentucky University and Tokyo Institute of Technology. Beijia Huang's key research fields

are Environmental assessment and planning, Low carbon and Sustainable development. She is Project Investigator for more than 10 projects. She has published more than 20 papers as first author in journals such as Journal of Cleaner Production, Journal of Industrial Ecology, Resource, Conservation and Recycling, and Research of Environmental Sciences (Chinese), Environmental Science and Technology (Chinese). [Language: Chinese; English]

## 严菁 (YANG Jing)



中国科学院研究生院管理学硕士，现就职于绿色和平东亚北京办公室，负责同可再生能源及电力相关的政策研究。在绿色和平期间，她参与了“中国风电和光伏发电的协同效益研究”、“河北高比例可再生能源发展路线图”等课题。在加入绿色和平前，严菁就职于中国风能协会，参与了“保定市节能减排财政政策综合示范城市实施方案”等课题，并以秘书的身份参与国际能源署风能实施协议和中国可再生能源电力并网研究联盟的工作。【语言：中文、英语】

**Jing** is a Climate and Energy Campaigner of Greenpeace East Asia based in Beijing office. She takes charge of analyzing policy related to renewables and power sector. In Greenpeace, Jing leads research project such as Co-benefits of Wind and Solar PV Power in China and Roadmap on High-Integration-Proportion in Hebei Province. Before joining Greenpeace, she worked in Chinese Wind Energy Association as a researcher, during which time she led case study on financial policies promoting the low-carbon industry development, supported International Energy Agency Wind Implementation Agreement and China Variable-generation Integration Group as a Secretary. She graduated from Graduate University of Chinese Academy of Science, with a master degree on Management. [Language: Chinese, English]

## 宝林 (BAO Lin)



驰奈生物能源系统有限公司总裁，专业从事餐厨垃圾资源化处理设备的研发、生产、销售和配套技术服务。2001年起开始从事家用餐厨垃圾处理机的设计和制造，2005年结合中国餐厨垃圾的现状，推出餐厨垃圾资源化处理系统，最大限度地将餐厨垃圾中可利用的资源全部回收与转化，回收餐厨废弃油脂、产出生物燃气和有机肥料，使餐厨垃圾实现“三化”的处理效果（减量化、资源化、无害化）。2006年12月，公司在兰州成立国内首家专业进行餐厨垃圾处理工艺和设备研发的实验室，并于2008年被批准为兰州市生物质能工程技术中心，2011年被批准为甘肃省餐厨垃圾资源化工程技术研究中心。相比市场平均水平，公司的餐厨废弃油脂出油率高30%，能耗降低50%，维修成本节约70%。【语言：中文】

Lin is the owner and General Manager of Gansu Chi'nai Bio-Energy System, Co., Ltd. His main works focus on the technology development, equipment manufacturing, factory construction

and operation of kitchen waste (food waster, organic waste). He has closed cooperation with German partners, by introducing advanced kitchen waste-to-energy technologies to China, and put it into practice. In 2006, he established the first laboratory on kitchen waste recycling technologies and equipment development. Now, his company has being one of the leading enterprise in kitchen waste-to-energy. [Language: Chinese]

## 李辉 (LI Hui)



工商管理硕士，中科碳能（北京）技术有限公司总裁。  
公司主要专注于中国低碳技术转移、碳排放管理与政策工具包开饭等领域，致力于发展成为国内领先的低碳综合服务商，以通过创新实践推动企业的低碳发展。近年来，公司业务主要覆盖碳排放清单编制、合同能源管理、低碳社区规划等领域，最近开始涉及国际低碳技术转移与代理推广，特别是能源节约技术与管理等的综合服务。【语言：中文、基础英语】

Hui is the Owner and the General Manager of the Zhongke-Tanneng Technology (Beijing) Co., Ltd. Hui owns a MBA degree from Renmin University of China. Now, his company mainly focus on the carbon emission trading, low carbon technologies, and energy policy packages development, aiming to be a leading supplier in low carbon China. He has a strong willing to expand the international cooperation in the field of energy-related business development, particularly with Germany. [language: Chinese, Basic English]

## 郭四代 (GUO Sidai)



博士，副教授，四川循环经济研究中心常务副主任。  
2012年在中国地质大学（北京）地球科学与资源学院获工学博士学位，主要从事资源环境政策、能源可持续发展及环境行为研究，在中国循环经济研究领域具有丰富的理论基础与实践经验。先后主持和参与国家社会科学基金、四川省科技厅软科学课题、四川省社科规划项目等纵向课题 30 余项，发表学术论文 30 余篇，负责多地的生态循环农业发展规划、科技创新发展规划等多项横向课题，有效发挥智库建言献策作用，积极服务地方经济建设。【语言：中文、英语】

Sidai is an associate professor and deputy director of the Sichuan Province Cyclic Economy Research Center. In 2012, he received a doctor degree in Engineering from the earth science and resources institute of China University of Geoscience (Beijing). He is mainly engaged in resource environment policy, energy sustainable development and environmental behavior research. He has abundant theoretical foundation and practical experience in the research field of circular economy in China. He has presided and participated in more than 30 longitudinal projects such as the national social science foundation, the soft science project of Sichuan provincial science and technology department, and the Sichuan social science planning project. Besides, he is also

responsible for multi-lateral projects such as the development planning of agro-ecological circulation and the development plan of scientific and technological innovation. By the way, he has published more than 30 papers. Finally, he plays an effective role of think-tank and serves local economic development actively. [language: Chinese, English]

## 赵锐 (ZHAO Rui)



教授，博士研究生导师，毕业于英国赫尔大学(University of Hull)科学学院工程系，获可持续设计与技术博士学位，任西南交通大学环境科学与工程系系主任。入选四川省“千人计划”青年学者。主要从事环境系统工程，环境风险与安全的研究；特别对低碳减排政策，以及政策实施的利益主体行为交互有着浓厚的研究兴趣。主持有国家自然科学基金，四川省科技支撑计划项目等。以第一作者和通讯作者的身份在 SCI/SSCI 期刊发表学术论文 30 余篇，包括 Environmental Research Letters, Journal of Cleaner Production, Ecological Indicators 等。【语言：中文，英文】

Rui is a full professor at Southwest Jiaotong University (SWJTU), and he is also a PhD supervisor in environmental engineering. Rui received his Bachelor and Master Degree from SWJTU in 2006 and 2009, respectively. In 2013, Rui received his PhD in Sustainable Design and Technology from University of Hull, UK. Currently, Rui is the Dean of Department of Environmental Science and Engineering at SWJTU. Rui's research mainly focuses on computational approaches applied to environmental engineering and management. A significant proportion of his research is interdisciplinary study, while having a particular interest in low carbon development and its associated stakeholders' behavior, to increase sustainable performance of energy system. Rui has served as principal investigator for a number of projects, such as Natural Science Foundations of China, Sichuan Provincial Key Technology Support etc. He has published nearly 30 academic papers in SCI/SSCI indexed journals, including Environmental Research Letters, Journal of Cleaner Production, Ecological Indicators etc. [Language: Mandarin, English].

## 杨德伟 (YANG Dewei)



理学博士，中国科学院城市环境研究所研究员。2003-2009 年在中国科学院成都山地灾害与环境研究所自然地理学专业学习，先后获得理学硕士与理学博士学位。2009 年进入中科院城市环境研究所工作，2014.11-2015.11 美国密歇根州立大学系统综合与可持续性研究中心，国家公派访问学者。先后承担或参与了国家自然科学基金、国家科技支撑计划项目、中国科学院重要方向项目、中科院西部行动计划项目等各级项目 30 余项，发表学术文章近 30 篇。研究领域为城市—区域系统生态过程与持续性，跨域物质代谢及其环境效应、生态系统规划与管理。【语言：中文、英语】



**Dewei** is an associate Professor in urban metabolism and energy sustainability at the Institute of Urban Environment, Chinese Academy of Sciences. He obtained the PhD degree from CAS in 2009, during 2014 to 2015, he worked as a visit fellow at the Center for Systems Integration and Sustainability, Michigan State University. Dewei mainly focuses on topics including the urban-regional ecological process and sustainability, regional-crossing material metabolism and environment effects, and ecological planning and management. Up to now, Dewei has presided over 30 research grants, supported by the Natural Science Foundations of China, MOST, CAS, etc, and he has published nearly 30 academic papers in various prestigious journals. [Language: Chinese, English]

## 张子龙 (ZHANG Zilong)



博士，兰州大学资源环境学院副教授、中国西部循环经济研究中心副主任。主要从事人地系统物质代谢与可持续发展、产业生态与循环经济方面的研究工作。主持和参与完成国家自然科学基金、社科基金、教育部博士点基金项目 5 项，地方委托合作课题 20 余项，以第一或通讯作者在国内外核心期刊上发表论文 20 余篇，出版专著 2 部。【语言：中文、英文】

Zilong is an associated professor at College of Earth and Environmental Sciences and deputy-director of Institute of Circular Economy in Western China, Lanzhou University. Zilong received his Ph.D. degree from Lanzhou University in 2011. He has visiting scholar experience in Gun Institute for Ecological Economics, The University of Vermont and Institute of material flow management (IfaS), University of Applied Sciences Trier. Zilong mainly focuses on the research of 1) material metabolism in coupled human-land system and sustainable development; 2) industrial ecology and circular economy. As an investigator and planner, he has completed more than 20 projects. He has published more than 20 paper and 2 books. [Language: Chinese, English]

## 罗启东 (LUO Qidong)



2009 年于法国洛林理工大学留学，现任辽宁省大石桥市科技局工业科科长，长期从事技术市场、产学研合作、科技服务、民营科技企业等管理工作。起草了 2 项支持当地企业科技创新的文件，连续 4 次参与和组织了全国科技进步先进县（市）考核工作，参与了大石桥市镁产业节能减排研究等国家 863 计划、国家科技支撑计划等多项科技项目的申报与管理，联络协调大石桥国家可持续发展实验区建设工作。【语言：中文、基础英文】

**Qidong** is the Section Chief of the Section for Industries, Department of Sciences and Technology of Dashiqiao City, Liaoning Province. He has strong local knowledge regarding the industrial energy consumption, particularly with a

focus on the Mg industries in Dashiqiao city, which is well-known as the “China’s Magnesium Industrial Center”. [Language: Chinese, basic English]

## 拓学森 (TUO Xuesen)



北京巅峰嘉业旅游文化投资有限公司主任咨询师，接受了系统性的区域经济与城市规划教育，获得理学硕士学位。具有多年的咨询工作经历，专注于产业、旅游、城市、园区开发等领域的研究，熟练掌握战略研究、发展模式与策略、产品与项目策划、商业与运营模式等方面的研究方法和工具，对政策及行业热点问题保持持续关注，积淀了敏锐的洞察力。【语言：中文，基础英语】

As a Chief Planner working at the Beijing Dianfengjiaye Tourism & Cultural Creativity Investment, Co., Ltd., Xuesen has a strong knowledge and skills in regional and urban planning, particularly in the field of low carbon industries, tourism industries and industrial parks design and development. He has already involved in dozens projects, with a various local distribution from south China to north China. In recent years, one of his main interests is to combine the sustainable energy transition into regional development, by taking it as a whole regional transformation process. [Language: Chinese, Basic English]

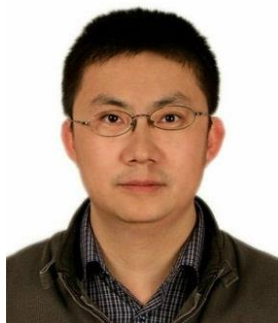
## 周志华 (ZHOU Zhihua)



江苏德道尔环保科技有限公司总裁。主要从事环保设备、气化炉成套设备、畜禽粪便处理与生物有机肥设备、废气烟气净化处理设备研发与制造，以及工业废弃物资源化处理设备制造、秸秆资源化处理与发电、污泥资源化利用与发电、沼气生物天然生产、能源合同管理、新能源技术研发和环保设备进出口业务。近年来，公司研发的生物质上气式气化炉，突破了国内生物质气化炉的多项技术瓶颈，实现了生物质气化技术设备的大型化、工业连续化运行 4000 小时无检修。【语言：中文】

**Zhihua** is the owner and general manager of Jiangsu De'dao'er Environmental Technology Co. Ltd. Her company mainly focus on the research, development and manufacturing of advanced environmental protection equipment and new energy facilities. In recent years, one of her remarkable work is to develop and apply a new advanced biomass-to-gas equipment at industrial level, with a 4000 hours operation without maintenance. [Language: Chinese]

## 鹿晨昱 (LU Chenyu)



西北师范大学教授，硕士研究生导师。2004年在兰州大学获理学学士学位。2009年在兰州大学获理学博士学位。2015年7月至2016年7月，美国亚利桑那大学访问学者。主要研究领域为：人地关系与区域可持续发展。主持国家自然科学基金项目2项、甘肃省科技支撑计划项目1项、兰州市社科规划项目1项。已合作发表学术论文40余篇。【语言：中文，英语】

**Chenyu** is an associate professor in Sustainability at Northwest Normal University, China. He obtained his bachelor degree in geography information system from Lanzhou University in 2004, and the PhD degree in the major of human geography from Lanzhou University in 2009. During 2015-2016, he went to University of Arizona for a visiting scholar program with the funding support from China Scholarship Council. His research interests mainly focus on the interactions analysis on human-environmental system and regional sustainability. Up to now, he has presided over several research grants, such as 2 Natural Science Foundations of China. He has published about 40 academic papers. [Language: Chinese, English]

## 吴国睿 (WU Kuo-Jui)



博士，副教授。主要从事可持续供应链、绿色创新与可持续发展指标体系研究。兼任国际商业创新与科技管理期刊副主编与协会秘书长。2006年在台湾稻江科技暨管理学院获学士学位；2011年在菲律宾德拉萨大学获硕士学位；2016年毕业于台湾科技大学获博士学位。并参与过欧盟购物中心能源效率与成本竞争改善计划以及购物商场智能型绿能混合照明系统之建置，已合作发表学术论文三十余篇。【语言：中文、英语】

**Kuo-Jui** is an associate professor working at the Dalian University of Technology. His research area focuses on sustainable supply chain management, eco-innovation and sustainable development. At the same time, he is general secretary of international society for business innovation and technology management and associate editor of journal of Asia Pacific Business Innovation and Technology Management. He received his PhD degree in industrial management in 2016 from Taiwan University of Science and Technology. Kuo-Jui has experiences with EU-FP7 projects, which are Eco-Shopping energy efficient & cost competitive retrofitting solutions for shopping buildings and cost-effective tools for better indoor environment in retrofitted energy efficient buildings. In addition, he has been published 30 around papers in the international journals.



## 姜月 (JIANG Yue)



辽宁省能源研究所有限公司工程咨询部主任。2019年硕士毕业于东北林业大学微生物专业。专业从事工程咨询，主要业务为项目可行性研究报告，节能评估报告，资金申请报告，为政府部门提供各类评估工作及编制各类规划和碳核算核查等。【语言：中文，基础英语】

Yue is the section chief of the Department of Engineering Consulting, Liaoning Institute of Energy Research. She graduated from the Northeast Forest University, with a master degree in microorganism science. In recent years, she mainly focus on energy transition research, the carbon market, and GHG Inventory at local level, by providing consulting service and decision support for local governments, enterprises, and other stakeholders. [Language: Chinese, basic English]

## 李京忠 (LI Jingzhong)



博士，教授；许昌学院遥感与 GIS 教研室主任。2017 年毕业于西北大学获得理学博士学位。主要研究领域在环境大数据，环境遥感、环境 GIS 等方面。主持完成省自然科学基金 2 项、主持完成厅级项目 4 项目。作为核心成员参与国家自然科学基金、国防科工委民用项目、国家 973 子项目、农业部公益项目多项。共发表相关论文 30 余篇。参编教材 2 部。 [语言：中文、英语]

Prof. Dr. **LI Jingzhong**, Director of the Lab for GIS and RS in Xuchang University. He received Ph. D. in Geography from Northwestern University in 2017. His research interests mainly focus on the big data of environment-energy, remote sensing, and decision support system. He has presided dozens of grants and projects. He has published more than 30 academic papers in journals, and owns two patterns. [Language: Chinese, English]

## 赵敬敬 (ZHAO Jingjing)



供应链金融管理公司创业者/战略信息化顾问。毕业于瑞典布莱京理工大学，管理科学硕士。曾在德国生活和工作 3 年，曾在华晨宝马工作 6 年，主持过 42 个供应链 IT 项目，其中 10 个为工业 4.0 数字化创新项目。现作为能源行业供应链金融项目的首席信息流专家顾问。【语言：英语，中文，德语】

Jingjing, working at the Entrepreneur of supply chain Finance management company, as a Strategy and IT Consultant. She graduated with a Master Degree of Science, and Business Administration from Blekinge Institute of Technology, Sweden. She had lived and worked in Germany for 3 years, had worked in BMW Brilliance Automotive industry for 6

years, lead 42 supply chain IT projects, and 10 of them are industry 4.0 digitalization innovation projects. Currently she is chief information flow consultant in the energy industry supply chain finance Project. [Language: English, Chinese, German]

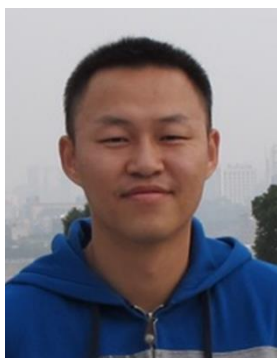
## 任婉侠 (REN Wanxia)



博士，副研究员，辽宁省环境计算重点实验室副主任。2008年毕业于中国科学院获生态学博士学位，2016年晋升为中国科学院沈阳应用生态研究所副研究员。2016年4月至2017年4月赴德国高等可持续发展研究所开展青年访问学者计划。主要研究领域为城市环境管理与区域可持续发展。先后支持国家自然科学基金项目、科技部科技支撑项目子课题等多项项目。发表文章50余篇。  
【语言：中文、英文】

**Wanxia** is an Associate Professor for Ecology at the Institute of Applied Ecology, Chinese Academy of Sciences. Her main research focuses on Environmental Management and Urban Sustainable Development. She joined the IASS in April 2016 as a visiting scholar to work on Multi-level Governance of Climate Change in Renewable Energy system of China and Germany and worked as a fellow in the IASS until April 2017. She has published over 50 papers. [language: Chinese, English]

## 吕达 (LV Da)



启迪科技园（沈阳）中俄技术转化创新基地主任，长期从事科技外事管理、科研管理和软科学研究工作，曾多次主持、参与省部级重点科研项目，参与辽宁省十二五、十三五国际科技合作发展规划、大三好街区域发展规划等重要规划编制工作。【语言：中文、英文】

Da is the Director of Tuspark(Shenyang) Sino-Russian Technology Transfer and Innovation Base. Experienced in scientific and technological foreign affairs management, scientific research management and natural-science research, has repeatedly host and been member of provincial and ministerial level key scientific research projects, participates in the 12th and 13th Five-Year International Science and Technology Cooperation plan of Liaoning Province, the Sanhao street regional development plan and other important planning work. [language: Chinese, English]

## 张云松 (ZHANG Yunsong)



博士，中国科学院沈阳应用生态研究所产业生态组首席工程师，辽宁省环境计算重点实验室副主任。主要研究方向为环境计算与决策支持系统开发。先后获上海海事大学管理工程专业学士学位和大连海事大学管理工程专业硕士学位，大连理工大学管理科学专业技术经济方向博士在读。2000 年任东软集团大连东软信息技术学院技术总监，2009 至今任中国科学院沈阳应用生态研究所产业生态组高级工程师，城市与环境计算实验室主任。已合作发表文章 10 余篇，开发各类决策支持系统 10 余项，拥有国家软件著作权 5 项。

【语言：中文、英文】

**Yunsong**, PhD in Management, is an Engineer-in-Chief working at the *Research Center for Industrial Ecology and Sustainability* (RCIES) of the Institute of Applied Ecology at the Chinese Academy of Sciences; he is the Director of the *Lab for Urban and Environmental Computing* of the RCIES. He has published more than 10 peer-reviewed papers in academic journals. He has rich experiences in the techniques application of GIS and Decision Support System Development. [language: Chinese, English]

## 谢潇 (XIE Xiao)



工学博士，中国科学院沈阳应用生态研究所辽宁省环境计算与可持续发展重点实验室副主任。2009 年 6 月获武汉大学地理信息系统与管理学双学士学位；2014 年 9 月受国家公派赴德国慕尼黑工业大学访学，2016 年 6 月获武汉大学工学博士学位。主要研究方向为环境大数据与虚拟现实，研究兴趣包括时空大数据建模与组织管理、应急测绘与防灾减灾、视频 GIS 与公共事件感知控制，先后参与国家 973、863 和科技支撑计划课题 4 项，主持自然科学基金 1 项、开放研究课题 2 项，获“博士研究生国家奖学金”、“王之卓创新人才奖”、“中国测绘学会优秀地图作品裴秀奖”、“高校 GIS 新秀奖”、“湖北省勘察设计行业优秀软件设计奖”等 10 多项荣誉。

【语言：中文、英语】

**Xiao** received her Ph.D. degree in photogrammetry and remote sensing in 2016 from Wuhan University, China. She was also a joint-educational Ph.D. student and a research fellow at the Department of Cartography of Technical University of Munich, Germany from 2014 to 2016. She is now serving as an Assistant Professor in Urban and Environmental Computation at the Research Center for Industrial Ecology & Sustainability, Institute of Applied Ecology, Chinese Academy of Sciences and the Vice Director in Key Laboratory for Environment Computation & Sustainability of Liaoning Province. Her research interests mainly focus on the Virtual Geographic Environments (VGE) and Dynamic and Multi-dimensional GIS (DMGIS). She documented in 22 academic contributions and received dozens honors such as Chinese government scholarship for studying abroad, the National scholarship and the Best Young GISer Award in recent years. [language: Chinese, English]

## 杨东 (YANG Dong)



中国科学院生态环境中心博士，齐鲁工业大学（山东省科学院）助理研究员。主要研究领域为产业生态学、物质流分析与生态工业园规划。先后主持国家自然科学基金、山东省自然科学基金等多项研究课题，发表论文 10 篇。【语言：中文、英语】

**Dong** received his PHD in industrial ecology from research center of Eco-Environmental Science of Chinese Academic of Science (RCEES-CAS) and is now an assistant research fellow at Shandong Academic of Science. He is mainly working on industrial, material flow analysis and ecology industrial park plan. As a project leader, he has conducted some projects from Natural Science Foundation of China and Shandong province, and has published 10 papers in journals. [language: Chinese, English]

## 逯承鹏 (LU Chengpeng)



博士，助理研究员。2013 年 6 月获得兰州大学理学博士学位，主要研究领域为产业生态与可持续发展，包括能源效率与城市气候变化，同时，在中国循环经济研究与实践方面具有丰富的经验。主持国家自然科学基金等多项项目，累计发表期刊文章 50 余篇，曾获联合国环境规划署 2012 年 Klaus Toepfer 环境创新竞赛二等奖。【语言：中文，英文】

**Chengpeng** is currently an assistant professor at Institute of Applied Ecology, Chinese Academy of Sciences, received the PhD degree from Lanzhou University of China in 2013. His research interests mainly focus on industrial ecology and sustainable development in China, develops and implements projects related to Energy Efficiency and Urban Climate Change, and he has rich experience in Chinese circular economy development as well as the institutional systems. He has presided over several research funding, such as National Science Founding of China, and has published about 50 peer-reviewed papers. In 2011, he received the second class of the Prof. Dr. Klaus Toepfer Environmental Innovation Competition. [Language: Chinese, English]

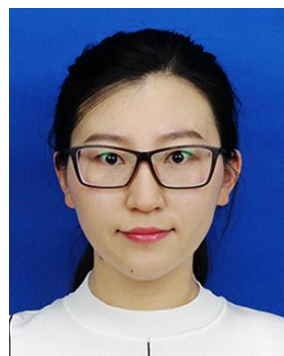
## 会务组/Organizers:

### 姜璐 (JIANG Lu)



中德可持续能源转型国际论坛会务组负责人。  
中国科学院沈阳应用生态研究所产业生态组行政秘书。  
2013 年获兰州大学新闻学硕士学位, 兰州大学人文地理专业在读博士研究生。研究领域为家庭能源消费结构转型及环境政策。主持省部级项目 2 项, 发表国内核心期刊文章 2 篇。【语言: 中文、英语】  
Lu, (of course), is the head of the organization team for the Sino-German Workshop on Sustainable Energy Transition (Cheers). Currently, she is the Head of the Administration, Communication and Press Unit of the Research Center on Industrial Ecology and Sustainability, as well as the Assistant to Director of the Key Lab for Environmental Computation and Sustainability of Liaoning Province. Jiang Lu got her master degree in News from Lanzhou University in 2013 and she is pursuing a doctoral degree in Human Geography. She is also one of the participants of the IASS 2017 Summer School. Her key research fields focus on Household Energy Consumption Transition and Energy Policy. She is Project Investigator for 2 projects and has published 2 papers. [Language: Chinese; English]

### 韩彬 (HAN Bin)



城市规划硕士, 助理研究员, 规划师  
2013 年 7 月于天津城建大学获规划与建筑学院工学学士学位, 2016 年 1 月于沈阳建筑大学获建筑与规划学院工学硕士学位, 研究方向为城乡规划学。2016 年 1 月起加入中国科学院沈阳应用生态研究所产业生态研究组 (辽宁省环境计算与可持续发展重点实验室), 任助理研究员, 主要参与项目有辽宁省节能减排规划、抚顺本溪可持续发展创新示范区规划等, 主要从事可持续发展规划、产业规划、区域规划等方向研究。【语言: 中文、英语】

Bin is assistant professor in sustainable development planning at the Research Center for Industrial Ecology & Sustainability (RCIES). She graduated with a Bachelor degree from School of planning and architecture of Tianjin Chengjian University in July 2013 and then received the Master Degree from School of Architecture and Planning of Shenyang Jianzhu University in January 2016. Her research field is urban and rural planning, sustainable development planning, industry planning. She has strong knowledge on local planning, and participated in several projects, such as The 13<sup>th</sup> five-year plan of Liaoning Energy-Saving and Emission Reduction, The Fushun & Benxi IDZSD Plan, etc. [Language: Chinese, English]



## 唐呈瑞 (TANG Chengrui)



中国科学院沈阳应用生态研究所，助理研究员。2011年毕业于黑龙江八一农垦大学生命科学技术学院生物技术专业，获理学学士学位；2015年6月获理学硕士学位。2015年7月起加入中国科学院沈阳应用生态研究所产业生态与循环经济学科组（辽宁省可持续发展重点实验室），主要从事生物产业、农业循环经济与可持续发展等研究。参与国家自然科学基金、国家科技支撑计划子课题、省科技计划课题等科研课题，发表文章7篇。[语言：中文、英语]

Chengrui graduated with a Bachelor degree from Biotechnology major of Heilongjiang Bayi Agricultural University in June 2011, then received the Master Degree in Biochemistry and molecular biology in June 2015. In June 2015, He joined in the Research Center for Industrial Ecology & Sustainability (RCIES) as assistant researcher, mainly engaged in Bio Industry, agricultural recycling economy and sustainable development. Participate in the National Natural Science Foundation, the national science and technology support plan sub topics, the provincial science and technology plan issues and other research topics, published 7 articles. [Language : Chinese, English]

## 肖骁 (XIAO Xiao)



中国科学院沈阳应用生态研究所产业生态学科组助理研究员。2012年获沈阳建筑大学学士学位。2014年7月至2016年6月在地理空间信息工程国家测绘地理信息局重点实验室联合培养研究生，2016年毕业于辽宁工程技术大学，获摄影测量与遥感硕士学位。主要研究领域为自然生态遥感监测、大数据空间分析与人-地耦合系统研究等。曾参与重要地理国情监测——沿海滩涂变化监测试点、京津冀重点大气颗粒物污染源空间分布等项目，作为主要技术人员赴山东、江苏、广东、辽宁等省测绘局开展试验。发表国内核心期刊文章2篇。[语言：中文、英语]

Xiao is currently an Assistant Professor in the Institute of Applied Ecology, Chinese Academy of Sciences. In 2012, Xiao obtained her bachelor degree from Shenyang Jianzhu University. During 2014-2016, Xiao was a joint training postgraduate in the Geographic Spatial Information Engineering key laboratory of National Administration of Surveying, Mapping and Geoinformation. She obtained her master degree in photogrammetry and remote sensing from Liaoning Technical University. Xiao's main research interests are natural ecological remote sensing monitoring, large data spatial analysis and human-natural coupling system research. She has been involved in several important projects, such as key particulate matter pollution sources' spatial distribution in Beijing-Tianjin-Hebei. She has published 2 papers in Chinese core journals so far. [Language: Chinese, English]

## 孔云霄 (KONG Yunxiao)



中国科学院沈阳应用生态研究所科研助理。2017年毕业于宁夏大学，获人文地理学硕士学位，研究方向为区域可持续发展、旅游开发与规划。参与国家自然科学基金项目 2 项，教育部人文社会科学研究青年基金项目 1 项，参编著作 1 部，发表论文 1 篇，参与景区规划 3 项。【语言：中文、英语】

Yunxiao is a research assistant at Institute of Applied Ecology, Chinese Academy of Sciences. Yunxiao obtained her master's degree in the major of human geography from Ningxia University in 2017. Yunxiao mainly focuses on sustainable development, tourism development and planning. Yunxiao has taken part in 2 Natural Science Foundations of China, 1 Humanities and Social Science Fund from Ministry of Education. Yunxiao has published 1 academic papers. [Language: Chinese, English]

## 学生助理/Students Assistant:

### 李文磊 (LI Wenlei)



西北师范大学在读研究生，2017年3月赴中国科学院沈阳应用生态研究所开展联合培养项目。参与国家自然科学基金等多个项目。论文《资源型城市经济发展中的资源诅咒效应比较研究》获第九届全国地理学研究生学术年会优秀论文。【语言：中文、英语】

Wenlei is enrolled in the graduate division of the College of Geography and Environmental Science at Northwest Normal University. Wenlei now is studying at the Institute of Applied Ecology, Chinese Academy of Sciences as a joint training master student. She has participated in several projects. [Language: Chinese, English]

### 黄裕普 (Huang Yupu)



2011年毕业于上海海洋大学获学士学位。2015年于中国科学院沈阳应用研究所攻读硕士学位至今。参与国家自然科学基金等课题的数据采集、处理、建模和分析等研究工作。目前开展资源型城市产业生态系统演化路径和环境效应的研究。发表文章 1 篇。【语言：中文、英语】

Yupu graduated from Shanghai Ocean University and received a bachelor's degree in 2011. Now he is a master student at the IAE-CAS from 2015, with a focus on evolution paths and environmental effects of industrial ecology system in resource-based cities and has published one paper. [Language: Chinese, English]

## 董书恒 (DONG Shuheng)



2016年毕业于大连海洋大学并获理学学士学位；现担任中国科学院沈阳应用生态研究所产业生态与循环经济学科组(辽宁省可持续发展重点实验室)科研助理。研究方向主要涉及产业代谢与评价、循环经济与空间地理分析等。【语言：中文、英语】

Shuheng, is a master student majored in industrial ecology at University of Chinese Academy of Sciences (UCAS), received the bachelor degree from Dalian Ocean University in 2016, and now serving as a Student Assistant in the Research Center for Industrial Ecology & Sustainability (RCIES) of IAE-CAS. His research mainly focuses on industrial ecology, recycling economy and spatial geographic analysis. [Language: Chinese, English]

## 邢冉 (XING Ran)



中国科学院沈阳应用生态研究所产业生态组/中国科学院大学资源环境学院在读硕士研究生，2017年于长沙理工大学获理学学士学位。目前主要从事产业生态与循环经济方面的研究。【语言：中文、英语】

Ran is a master student in industrial ecology, studying at the College of Resources and Environment, University of the Chinese Academy of Sciences. Ran obtained her bachelor degree in the major of science from Changsha University of Science and Technology in 2017. Her research interests mainly focus on industrial ecology and sustainability research. [Language: Chinese, English]



## 波茨坦高等可持续研究所/Introduction of IASS Potsdam

The Potsdam Nobel Laureates Symposium “Global Sustainability – A Nobel Cause” brought together internationally renowned scientists and decision-makers under the patronage of German Chancellor Dr Angela Merkel in 2007. The symposium produced the highly regarded Potsdam Memorandum, which calls for a joint effort to tap into “all sources of innovation and invention” to meet the challenges of the twenty-first century. Specifically, it identifies the need for a new “global contract” to increase sustainability in the age of the Anthropocene.

From this starting point, representatives of the German Science Alliance developed a concept for a novel research institute in 2008, from which the Institute for Advanced Sustainability Studies (IASS) emerged. The IASS was officially founded in 2009 as a joint initiative of the German Federal Government, the Federal State of Brandenburg and the research organizations of the German Science Alliance.

In its research the IASS aims to merge all relevant types of knowledge – both within and outside science – in order to jointly find solutions that help us initiate, support and scientifically accompany the transformation to sustainable development.

IASS vision is a just and peaceful world in which the Earth System, as well as social and economic systems, are understood and governed in a way that enables sustainable development for all. We envision the IASS as a forerunner of a new form of research which empowers societies to face the challenges of the Anthropocene.

IASS mission is to develop transformative knowledge which is needed to pave the way towards sustainable societies. Our research is transdisciplinary, conducted together with scientific, political and societal partners, in order to develop solutions for urgent sustainability challenges and to support national and international decision-making processes.

The IASS does not merely work to create the knowledge needed for action; it also discusses its findings with representatives of politics, industry and civil society and furthers the transformation process through this kind of consultation.

At present the Board of IASS Directors comprises the Scientific Directors – Mark Lawrence, Patrizia Nanz, and Ortwin Renn.

More info in: <http://www.iass-potsdam.de>

## 中国科学院沈阳应用生态研究所/Introduction of IAE-CAS

Institute of Applied ecology (IAE), Chinese Academy of Sciences was founded as Institute of Forestry and Soil Sciences, on 15 October, 1954.

In 1987 the institute was renamed as IAE CAS according to the strategic deployment of CAS for strengthening the research on ecology, resources and environment. IAE has been approved as a test unit for National Knowledge Innovation in 2001 and approved as a test unit for Feature Institute of CAS. In 1998, according to the international trend of development in applied ecology, national requirement in eco-environmental construction, the strategic deployment of CAS and the subject advantage and accumulation, scientific subject of IAE was set as: Taking applied ecology as main target, experimental ecology as main means, focusing on the research on matter cycling process in forest ecology, pollution ecology and agricultural ecology and sustainable development of regional agriculture. In 2015, according to the unified deployment of CAS in Being First Plan, IAE entered the test unit for Featured Institute and entered a new historical period in development.

Since founding, the institute has developed research around sustainable development of urgent and important problems in ecological and environmental construction and for the demand in discipline development of applied ecology. Two hundred and thirty rewards were obtained from national or provincial level, including 32 national and 198 provincial. Two hundred and eighty three monographs were published, more than 7300 papers were published, including 2057 SCI papers, 474 patents were authorized.

Currently, The Institute has 5 research centers, 1 National Engineering Laboratory, 1 key Lab of IAE, 6 Provincial key laboratory and 8 field ecological research stations, a Northeast China Bio-specimen Room and a Shenyang Arboretum. The 5 research centers, respectively for Forest and Forestry Ecological Engineering, Soil Ecology and Agricultural Ecological Engineering, Landscape Ecology and Regional Planning, Bio-Resources and Bio Technology. IAE has 392 employees, therein 292 are researchers or supporting workers. There are 74 professors or equivalent, 95 associate professors or equivalent engineers.

Besides, IAE has an innovation team, conferred by China's Ministry of Agriculture, 2 innovative cross team, conferred by CAS. IAE has developed efficient cooperation and exchange with universities and other research organizations of USA, UK, Germany, Belgium, Russia, Swedish, Japan et al. IAE has cooperative relations also with domestic famous universities and enterprises.

More info.: <http://www.iae.cas.cn>

## 产业生态研究组(辽宁省环境计算与可持续发展重点实验室)/

### Profiles of RCIES, IAE-CAS

研究组成立于 2008 年 9 月，是中国科学院“引进海外杰出人才计划”创新研究组，主要从事人地关系与区域可持续发展研究。拥有专职及客座科研人员 17 人，专业背景涵盖产业生态、能源经济、环境管理、污染生态、环境政策、产业规划、遥感与地理信息系统、应对气候变化等相关学科领域，成立至今已发表高水平学术文章 300 余篇，完成区域发展规划或决策咨询报告 100 余份，开发完成决策支持系统软件近 20 套，累计科研经费超过 1500 万元。研究组的主要研究任务是系统解析区域人类活动与环境系统演化的生态耦合关系，阐明“环境—资源—产业”在区域发展中的关联作用过程，揭示区域“社会-经济-环境”体系的形成机制与拓扑机理，创新环境-经济协调发展的政策干预原理，构建区域资源循环利用体系、可持续的产业生态网络和生态安全策略自动生成系统，建成可持续管理决策支持服务平台。研究组与德国 IASS 研究所、IfaS 研究所，加拿大滑铁卢大学，法国 CNRS，日本 NIES 等国际知名研究机构具有非常紧密的合作关系，与辽宁、甘肃、江苏等省份的部分地方政府建立了务实的院地合作关系，与上海交通大学、兰州大学、西北师范大学等国内科研院校机构建立了科研合作关系，与浪潮集团沈阳大数据创新应用中心、中科碳能（北京）技术有限公司、沈阳中科联创环境技术有限公司等建立了密切的产学研合作关系。根据研究组发展规划，至 2020 年，产业生态组将发展成为研究力量雄厚、理论基础扎实、计算方法先进、国内一流的区域可持续发展研究中心和具有重要国际影响力的研究基地，成为既能居国际学术研究前沿，又能切实服务地方发展的智库平台。

As one of the 48 research groups at IAE-CAS, RCIES was established in November 2008, supported by “The One Hundred Talents Program of the Chinese Academy of Sciences”. The main research areas include industrial ecology and sustainability science, by focusing on the interactions in the coupled human-natural complex system. We undertake our research in the field of developing simulation and decision support system, evaluating the overall eco-efficiency of various industrial ecosystems, proposing environmental management tools, and offering the roadmaps for addressing long-term sustainability. The main directions and strategies for our work at the RCIES are currently addressed in four research sub-groups and one lab:

**Sub-group I:** Industrial Ecology and Industrial Ecosystem Management;

**Sub-group II:** Sustainable Interactions with the Human-Natural System;

**Sub-group III:** Environmental Policy and Management;

**Sub-group IV:** Climate Change Governance and Low Carbon Development;

**Laboratory:** Provincial Key Lab for Environmental Computation & Sustainability

See: <http://rcies.iae.ac.cn>

## 会议联系/Contact:

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中国科学院沈阳应用生态研究所产业生态研究组/Research Center on Industrial Ecology & Sustainability, IAE-CAS

