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# 2018 年第九届全国储层声学与深部钻测技术前沿研讨会会议通知(第二号)

"全国储层声学与深部钻测技术前沿研讨会"是由中国声学学会、中国地球物理学会和中国科学院声学研究所暨中国科学院海洋信息技术创新研究院等联合举办的全国性学术会议,并先后得到了中国科学技术协会、国家自然科学基金委和北京市海洋深部钻探测量工程技术研究中心的资助。

自2010年以来,会议已连续成功举办了8次,参会代表逾1200人次,有150余位国内外知名专家学者应邀到会做大会报告。该会议已成为我国储层声学理论和应用、深地科学与资源钻探测量等研究领域最活跃和最具影响力的国际性学术会议之一,会议为推动相关领域的学术交流、增进物理学、地球物理学以及地质学的学科交叉与融合、拓展新的学科生长点、推动深地钻探测量理论与技术的发展,做出了重要的贡献。

会议在储层声学研究方面,对声波在非均匀、各向异性、粘弹性、多相孔隙地层中传播规律及其应用,以及声波与储层相互作用及效应等学术问题,如储层孔隙度、孔隙结构、孔隙中的流体含量及其声学特性、渗透率、固体骨架的组分及其声学特性对声波传播的影响,开展了深入的交流;同时,在地震勘探、声学测井、井中VSP、时移声波监测、固井质量检测、地应力预测、解堵解蜡和提高采收率等应用方面发挥了重要作用。

会议在深地科学、资源与能源钻探测量(简称"深部钻测")方面,主要围绕井中、跨井和井地(地井)等信息的探测、采集和处理等热点或关键问题,也开展了深入的交流,为深地科学钻探以及深部资源与能源探测和评价等起到了积极的推动作用。

目前,透明深地地质结构、实现深地岩石圈可视化、探索深部地质行为特征规律和岩石力学特性表征以及微生物变异规律、探测与评价深地资源等是我国深地钻探的重大战略需求。通过三维钻孔周向由近及远的层析理论与方法创新,明晰测量数字岩芯剖面与实际岩芯剖面的内在规律,搭建地球物理和岩石物理的桥梁,研究地质旋回、盆地演化,透明井外地质空间,研究不同深度的地质行为特征规律差异,促进多学科前沿交叉融合,是必需要解决的问题。

2018年第九届全国储层声学与深部钻测技术前沿研讨会定于11月05日至07日,在金秋北京城区香山脚下的世纪金源香山商旅酒店举行。今年的会议由中国声学学会、中国地球物理学会和中

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## 国科学院声学研究所联合举办,并得到国家自然科学基金委员会和北京市海洋深部钻探测量工程技术研究中心资助。

依照惯例,今年的大会组织委员会将特邀约15名在相关领域取得突出成绩且具有极高学术造诣的国内外知名学者到会做大会报告,同时也邀请在相关研究领域做出突出成绩的3-5名国内外优秀青年学者代表做专题报告。大会报告建议使用语言为中英文。鉴于有国外代表参会,建议大会报告的PPT用英文,并鼓励用英文进行交流。

#### 会议研讨的主要内容包括:

- 1) 深地科学钻探和资源钻探中的关键问题;
- 2) 非常规储层声学探测新理论、新方法与新技术;
- 3) 储层岩石物理研究,包括数字岩心、岩心测量及建模;
- 4) 储层测井评价新原理与新方法;
- 5) 深部钻测仪器原理与设计,包括但不局限于随钻测量,单井、跨井、井地和地井等井孔地 球物理的新理论、新技术、新方法及新应用;
- 6) 其它与储层地震预测相关的新理论、新方法和新应用等。

会议欢迎从事深地科学、资源与能源钻探测量、储层声学理论及应用、数据处理及地质评价等方面的学者、科技人员和在校师生等参加会议,也欢迎从事相关科技管理工作的领导莅临指导。

#### 1. 主要特邀报告及主讲人

主讲人	报 <del>告</del> 题目
李阳 (Yang Li) 中国石化股份公司副总工程师,中国工程院院士 Academician of the Chinese Academy of Engineering, and Deputy Chief Engineer of Sinopec, China	中石化页岩气技术发展与挑战 Developments and challenges of shale gas techniques of Sinopec

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Arthur Cheng 新加坡国立大学,教授 Professor of National University of Singapore, Singapore	The applications and challenges of LWD acoustics
José Carcione 意大利国家海洋与地球物理研究所,首席科学家 Principle Scientist of National Institute of Oceanography and Applied Geophysics (OGS), Italy	Rock-physics templates based on seismic Q
Maxim Lebedev 澳大利亚科廷大学,教授 Professor of Curtin University, Australia	Digital rock under stress
Juan Santos 阿根廷拉普拉塔国立大学,教授 Professor of National University of La Plata, Argentina	A finite element upscaling procedure to characterize hydrocarbon reservoir formations
Tobias Müller 澳大利亚联邦科学与工业研究组织,首席科学家 Principle Scientist of Commonwealth Scientific and Industrial Research Organization(CSIRO), Australia	Fluid pressure diffusion in deformable porous media
唐晓明(Xiaoming Tang) 中国石油大学(华东)教授 Professor of China University of Petroleum at East China (UPC), China	套管井声学测井技术新进展: 理论、实验和现场测量 Progress of sonic logging techniques in cased wellbores: Theories, experiments, and field cases

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余 刚 (Gang Yu)	
中国石油东方地球物理公司 Scientific Advisor of Bureau of Geophysical Prospecting (BGP) Inc. in CNPC, China	微地震监测前沿进展 Progress on micro-seismic monitoring
赵先然(Xianran Zhao) 美国,北京斯伦贝谢公司分部,首席岩石物理学家 Principle Petrophysicist of Schlumberger Limited at Beijing, USA	斯伦贝谢声波测井最新进展和应用 Progress & application of Schlumberger on sonic logging
<b>胡恒山(Hengshan Hu)</b> 哈尔滨工业大学教授 Professor of Harbin Institute of Technology, China	井孔内外声场的几个互易原理 Reciprocity theorems for acoustic wave fields inside and outside the borehole
乔文孝(Wenxiao Qiao) 中国石油大学(北京)教授 Professor of China University of Petroleum at Beijing(CUPB), China	相控阵技术与随钻声波测井 Phased array techniques and acoustic LWD
Xingyao Yin Professor of China University of Petroleum at East China(UPC), China	基于岩石物理的地震叠前反演与流体识别 The pre-stack seismic inversion and fluid recognition based on rock physics
<b>宋延杰(Yanjie Song)</b> 东北石油大学教授 Professor of Northeast Petroleum University, China	骨架导电低阻油层人造岩心岩石物理实验与导电模型 Rock physics experiments on artificial cores for low resistivity oil layers with conductive frames and the electric conduction model
巴 晶 (Jing Ba)	基于超声测试的储层波传播特征分析

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河海大学教授	Analysis on wave propagation		
Professor of Hohai University, China	characteristics in reservoirs based on		
	ultrasonic measurements		
陈 浩 (Hao Chen)	小直径声波测井仪器研发及测试进展		
中国科学院声学研究所研究员	Progress of research and tests of a sli		
Research Professor of the Institute of Acoustics			
in Chinese Academy of Sciences(IACAS), China	diameter multipole acoustic logging tool		

#### 2. 组织委员会 (排名不分先后)

**主 席**: 王秀明, 中国科学院声学研究所超声技术中心暨北京市海洋深部钻探测量工程技术研究中 心主任

委 员: 张春华, 中科院声学所所党委书记, 中国声学学会副理事长

张守著,中国声学学会秘书长

郭 建,中国地球物理学会秘书长

汤天知, 中国石油集团测井有限公司总工程师

郭海敏,长江大学副校长

张 波,中石化胜利石油工程有限公司测井公司总经理

赵齐辉, 中石油长城钻探工程公司副总工程师

周灿灿, 中石油勘探开发研究院测井与遥感技术研究所所长

孙 亮, 中石油大庆油田测试技术服务分公司副总工程师

刘西恩, 中海油服油田技术研究院总工程师

邓少贵,中国石油大学(华东)地球科学与技术学院副院长

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丛健生, 中国科学院声学研究所超声技术中心学技委副主任

于其蛟, 中石化胜利石油工程有限公司随钻测控技术中心副经理

孙建孟,中国石油大学(华东)教授

巴 晶,河海大学教授

张秀梅, 中国科学院声学研究所研究员

**秘 节**: 陈德华,中国科学院声学研究所超声技术中心副主任,中国地球物理学会并孔地球物理 专业委员会秘书长

#### 3. 学术委员会 (排名不分先后)

主 席:李阳,中国石化股份公司副总工程师,中国工程院院士

副主席:朱日祥,中国科学院地质与地球物理研究所研究员,中国科学院院士

汪承颢, 中国科学院声学研究所研究员, 中国科学院院士

**委** 员:李剑浩,中国石油集团测井有限公司总经理,教授级高工

唐晓明,中国石油大学(华东)教授

余 刚,中国石油集团东方物探高级顾问

Arthur C. H. Cheng, 新加坡国立大学教授

Tobias M. Müller, 澳洲联邦科学与工业组织首席科学家

José M. Carcione, 意大利国家海洋与地球物理研究所 (OGS) 首席科学家

Juan E. Santos, 阿根廷拉普拉塔国立大学天文和地球物理学院教授

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李 宁,中石油勘探开发研究院教授级高工

董经利, 中石化胜利石油工程有限公司首席专家、教授级高工

朱留方,中石化胜利石油工程有限公司高级专家、教授级高工

肖立志, 中国石油大学(北京)教授

肖加奇,齐鲁工业大学教授

乔文孝,中国石油大学(北京)教授

范宜仁, 中国石油大学(华东)教授

金宁德, 天津大学教授

刘国强,中国科学院电工研究所工程电磁场及其应用研究部主任、研究员

胡恒山, 哈尔滨工业大学教授

林伟军、中国科学院声学研究所职代会主席、研究员

陈 浩,中国科学院声学研究所研究员

**秘 书**:何 晓,中国科学院声学研究所超声技术中心主任助理,副研究员

方鑫定, 南方科技大学副教授

#### 4. 参会报名信息

1) 会议时间: 2018年11月5日-11月7日 (11月5日为报到时间)。

2) 会议地点:北京"世纪金源香山商旅酒店"。具体地址:北京市海淀区北正黄旗 59 号,

酒店前台电话: 010-59898888。

会议地点具体位置见下图:

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北京世纪金源香山商旅酒店附近地图

- 3) 报名方式:请参会代表填写所附报名回执表,并于2018年10月22日前按下面方式发至:
  - a) 电子邮件: suchang@mail.ioa.ac.cn。
  - b) 联系人: 苏畅, 关珺, 电话: 010-82547759, 传真: 010-82547759。
- 4) 会务费:每人收取会议费 2600 元(学生 1300 元),食宿统一安排、费用自理。

特别提示:会务费只能以现金、微信或支付宝形式收取,不能刷卡,酒店没有 ATM 机,给 您带来不便敬请谅解。





2018.10.10

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2018 the 9th China National Symposium on Reservoir Acoustics and Deep

Drilling Exploration Technology Frontiers(RA &DETF)

(Second Announcement)

China National Symposium on Reservoir Acoustics and Deep Drilling Exploration Technology

Frontiers (RA & DETF) is organized by the Acoustical Society of China (ASC), Chinese

Geophysical Society (CGS), and Institute of Acoustics, Chinese Academy of Sciences (IACAS). It

has been sponsored by China Association for Science and Technology (CAST), National Natural

Science Foundation of China (NSFC) and the Beijing Engineering and Technology Research Center

for Deep Drilling Exploration.

Since 2010, RA & DEFT Symposium has been successfully organized for 8 times. Around 1200

delegates attended the series of symposiums, and more than 150 internationally recognized scientists

have been invited for the symposium presentations. This symposium has become one of the most

active and influential events in reservoir acoustics and borehole logging technology studies. It plays

an essential role in pushing forward pertinent academic communications, promoting interaction

among physics, geophysics, and geology, and advancing in deep drilling exploration measurements

and logging technologies.

In reservoir acoustics researching, the RA & DETF has conducted in-depth academic and

technical exchanges in various subjects, including wave propagation and applications in

inhomogeneous, anisotropic, viscoelastic and multiphase porous formations, as well as interactions

and effects between acoustic waves and reservoirs, such as effects of reservoir porosity, pore

structure, content and acoustic characteristics of pore fluid, permeability, and components and

acoustic characteristics of solid skeleton, on wave propagation. Meanwhile, the symposium has

played an important role in applications such as seismic exploration, acoustic logging, downhole

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VSP, time-lapse seismic monitoring, cementing quality detection, formation stress prediction,

blockage relieving such as borehole ceresin wax purging in EOR.

In the field of deep drilling exploration and measurements for sciences and resources, the

symposium has also conducted in-depth communications around hot spot or key issues such as

information detection, acquisition and processing from in-well, cross-well, well-ground and

ground-well measurements, and has positively promoted deep scientific drilling, deep resource and

energy exploration and evaluation, as well as effective utilization of urban underground space.

Presently, the perspective of deep geological structure, visualization of deep lithosphere,

exploration of the characteristics of deep geological behaviors, rock mechanical properties, and

microbial variation, as well as exploration and evaluation of deep resources, are primary strategic

requirements for deep drilling in China. In this context, problems that would be resolved include:

innovation of tomography theory and method by three-dimensional drilling in radial direction from

near to far, clarifying the internal law of measuring the digital core profile versus the actual core

profile, building a bridge between geophysics and rock physics, studying geological cycle and basin

evolution, perspective geological space outside the hole, studying the differences in geological

behavior characteristics among different depths, and promoting multidisciplinary frontier

cross-integration.

The 9th China National Symposium on RA & DETF will be held from 5 to 7 November in 2018

at the Fragrant Hill Empark Hotel (59 North Zhenghuangqi, Haidian, Beijing, 100093). This year,

the symposium is jointly organized by the Acoustical Society of China (ASC), Chinese Geophysical

Society (CGS), and Institute of Acoustics, Chinese Academy of Sciences (IACAS), and partly

sponsored by the National Natural Science Foundation of China (NSFC) and the Beijing Engineering

and Technology Research Center for Deep Drilling Exploration.

As usual, the organizing committee will invite 15 internationally recognized research scientists

who have gained an outstanding achievement and high academic attainment in related fields to give

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plenary presentations. The committee will also invite 3 to 5 representatives of excellent young

scholars who have made significant achievements in related research fields to give presentations. The

official languages are Chinese (with English PPT) and English. Presentations in English are

encouraged so that the English-speaking delegates can communicate directly with the invited

speakers.

The major topics of this symposium include:

1) Key scientific issues and challenging on deep earth drilling and exploration.

2) Novel theories, methods, and techniques of acoustic measurements in unconventional

reservoirs.

3) Rock physics including digital cores, sample tests, and reservoir modeling.

4) Innovative theories and methods for logging evaluations.

5) Principles and designs of deep drilling exploration equipments, including but not limited to

new principles, techniques, methods and as well as new applications in LWD and borehole

geophysics engaged in single-well, cross-hole, well-ground and ground-well techniques.

6) Other research frontiers of reservoir acoustics or borehole geophysics.

The organizing committee would like to welcome all of the those who are engaged in deep earth

science and resource drilling exploration and measurements, reservoir acoustic theories and

applications, data processing, as well as geologic interpretations and evaluations to participate in this

symposium. Also, the organizing committee would like experts engaged in pertinent scientific and

technological administration and management in these areas to attend this meeting.

1.Inviated Speakers and Presentation Topics

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Invited Speakers	Presentation Topics		
Yang Li  Academician of the Chinese Academy of Engineering, and Deputy Chief Engineer of Sinopec, China	Developments and challenges of shale gas techniques of Sinopec		
Arthur Cheng  Professor of National University of Singapore,  Singapore	The applications and challenges of LWD acoustics		
José Carcione  Principle Scientist of National Institute of Oceanography and Applied Geophysics (OGS), Italy	Rock-physics templates based on seismic Q		
Maxim Lebedev  Professor of Curtin University, Australia	Digital rock under stress		
Juan Santos  Professor of National University of La Plata,  Argentina	A finite element upscaling procedure to characterize hydrocarbon reservoir formations		
Tobias Müller Principle Scientist of Commonwealth Scientific and Industrial Research Organization(CSIRO), Australia	Fluid pressure diffusion in deformable porous media		
Xiaoming Tang Professor of China University of Petroleum at East China(UPC), China	Progress of sonic logging techniques in cased wellbores: Theories, experiments, and field cases		

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Gang Yu			
Scientific Advisor of Bureau of Geophysical Prospecting (BGP) Inc. in CNPC, China	Progress on micro-seismic monitoring		
Xianran Zhao Principle Petrophysicist of Schlumberger Limited at Beijing, USA	Progress & application of Schlumberger of sonic logging		
Hengshan Hu	Reciprocity theorems for acoustic wave		
Professor of Harbin Institute of Technology, China	a fields inside and outside the borehold		
Wenxiao Qiao  Professor of China University of Petroleum at  Beijing(CUPB), China	Phased array techniques and acoustic LWD		
Xingyao Yin Professor of China University of Petroleum at East China(UPC), China	The pre-stack seismic inversion and fluid recognition based on rock physics		
Yanjie Song Professor of Northeast Petroleum University, China	Rock physics experiments on artificial cores for low resistivity oil layers with conductive frames and the electric conduction model		
Jing Ba Professor of Hohai University, China	Analysis on wave propagation characteristics in reservoirs based on ultrasonic measurements		
Hao Chen  Research Professor of the Institute of Acoustics in Chinese Academy of Sciences(IACAS), China	Progress of research and tests of a slim diameter multipole acoustic logging tool		

## 2. Organizing Committee (names not listed in order)

时间: 2018.11.5-11.7; 地点: 世纪金源香山商旅酒店,北京香山

2018 the 9th China National Symposium on RA & DETF

Date: From 05/11/2018 to 07/11/2018; Venue: Fragrant Hill Empark Hotel, Beijing

#### **President:**

Xiuming Wang, Institute of Acoustics, Chinese Academy of Sciences

#### **Committee Members:**

Chunhua Zhang, Institute of Acoustics, Chinese Academy of Sciences

Shouzhu Zhang, Acoustical Society of China

Jian Guo, Chinese Geophysical Society

Haimin Guo, Yangtze University

Guoping Wang, CNPC Logging

Bo Zhang, Sinopec Shengli Petroleum Engineering Company

Qihui Zhao, CNPC Greatwall Drilling Company

Cancan Zhou, Research Institute of Petroleum Exploration & Development, CNPC

Liang Sun, Testing Technical Service Branch, Daqing Oilfield, CNPC

Xi'en Liu, Oilfield Technology Research Institute, COSL

Shaogui Deng, China University of Petroleum

Jiansheng Cong, Institute of Acoustics, Chinese Academy of Sciences

Qijiao Yu, Sinopec Shengli Petroleum Engineering Company

JIanmeng Sun, China University of Petroleum (UPC) at East China

Jing Ba, Hohai University

Xiumei Zhang, Institute of Acoustics, Chinese Academy of Sciences

#### **Secretary:**

Dehua Chen, Institute of Acoustics, Chinese Academy of Sciences

Yuanda Su, China University of Petroleum

时间: 2018.11.5-11.7; 地点: 世纪金源香山商旅酒店,北京香山

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#### 3. Scientific Committee (names not listed in order)

#### Chair:

Yang Li, Member of Chinese Academy of Engineering, Sinopec

#### **Deputy Chairs:**

Rixiang Zhu, Member of Chinese Academy of Sciences, Institute of Geology and Geophysics, Chinese Academy of Sciences

Chenghao Wang, Member of Chinese Academy of Sciences, Institute of Acoustics, Chinese Academy of Sciences

#### **Committee Members:**

Jianhao Li, CNPC Logging

Xiaoming Tang, China University of Petroleum

Gang Yu, BGP Inc., CNPC

Arthur C. H. Cheng, National University of Singapore

Tobias M. Müller, CSIRO

Jos éM. Carcione, Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Italy

Juan E. Santos, Universidad Nacional de La Plata, Argentina

Ning Li, Research Institute of Petroleum Exploration & Development, CNPC

Lizhi Xiao, China University of Petroleum – Beijing

Jingli Dong, Sinopec Shengli Petroleum Engineering Company

Liufang Zhu, Sinopec Shengli Petroleum Engineering Company

Jiaqi Xiao, Qilu University of Technology

时间: 2018.11.5-11.7; 地点: 世纪金源香山商旅酒店,北京香山

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Ningde Jin, Tianjin University

Wenxiao Qiao, China University of Petroleum – Beijing

Yiren Fan, China University of Petroleum

Guoqiang Liu, Institute of Electrical Engineering, Chinese Academy of Sciences

Hengshan Hu, Harbin Institute of Technology

Hao Chen, Institute of Acoustics, Chinese Academy of Sciences

Weijun Lin, Institute of Acoustics, Chinese Academy of Sciences

#### **Secretary:**

Xiao He, Institute of Acoustics, Chinese Academy of Sciences

Xinding Fang, Southern University of Science and Technology

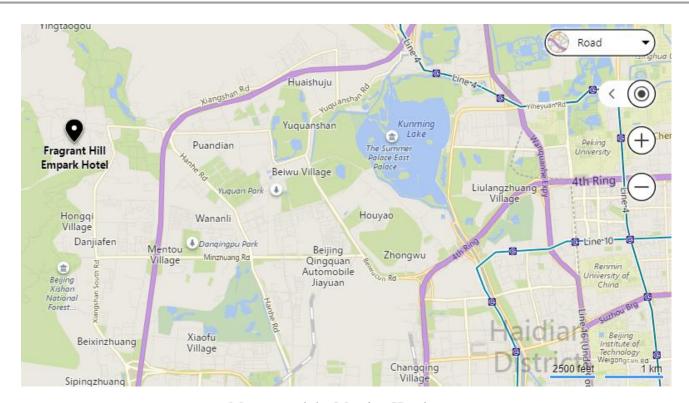
#### 4. General Information

- 1) Meeting Date: From 05/11/2018 to 07/11/2018 (Registration on 05 Nov.)
- 2) Meeting Venue: Fragrant Hill Empark Hotel.
- 3) Hotel Address: 59 North Zhenghuangqi RD, Haidian District, Beijing 100093.
- 4) Front Desk Tel: 010-59898888.
- 5) Venue Location on Map:

时间: 2018.11.5-11.7; 地点: 世纪金源香山商旅酒店,北京香山

2018 the 9th China National Symposium on RA & DETF

Date: From 05/11/2018 to 07/11/2018; Venue: Fragrant Hill Empark Hotel, Beijing



Map around the Meeting Hotel

#### 6) Registration Correspondents:

Name	E-mail	Telephone	
Xiao He	hex@mail.io.ac.cn	86-10-82547781	
Chang Su	suchang@mail.ioa.ac.cn	86-10-82547780	
Jun Guan	guanjun@mail.ioa.ac.cn	86-10-82547759	

Registration Fees: 2600 RMB (Overseas invited speakers are free of charge).

时间: 2018.11.5-11.7; 地点: 世纪金源香山商旅酒店,北京香山

2018 the 9th China National Symposium on RA & DETF

Date: From 05/11/2018 to 07/11/2018; Venue: Fragrant Hill Empark Hotel, Beijing

## "2018年第九届全国储层声学与深部钻测技术前沿研讨会"参会回执

姓名	性别	职务/职称	工作单位		联系电话/手机	
通讯联系	地址:邮编:					
电子邮件						
住宿要求			単间		□双人间	
住宿时间		□11月	□11月5日		□11月	7⊟
备注						

请参会代表填写所附回执,并于10月22日之前发给联系人(电子邮件、传真、邮寄均可),以便会务安排。谢谢!