



# 第一届国际城市地质学术研讨会

## ——地面沉降与城市安全

1<sup>st</sup> International Symposium on Urban Geology

Shanghai, China, 2017

# 会议手册

Program

中国 上海 2017

4月 10 日 - 12 日

Apr. 10 - 12

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## 会议组织 / ORGANIZATION

### 主办单位 / SPONSORS

上海市地质调查研究院（上海市国土资源调查研究院）

Shanghai Institute of Geological Survey (Shanghai Institute of Land Resource Survey)

### 承办单位 / ORGANIZERS

国土资源部地面沉降监测与防治重点实验室

Key Laboratory of Land Subsidence Monitoring and Prevention, Ministry of Land and Resources of China

中国地质调查局地面沉降研究中心

Research Center of Land Subsidence, China Geological Survey

上海地面沉降控制工程技术研究中心

Shanghai Engineering Technology Research Center of Land Subsidence

### 指导单位 / GUIDANCE INSTITUTION

中国地质调查局

China Geological Survey

上海市规划和国土资源管理局

Shanghai Municipal Planning and Land Resources Administration

### 出席领导 / INVITED SPEAKERS AND PARTICIPANTS

中国地质调查局

China Geological Survey

上海市规划和国土资源管理局

Shanghai Municipal Planning and Land Resources Administration

第一届国际城市地质学术研讨会

1<sup>st</sup> International Symposium on Urban Geology in Shanghai, China, 2017

## 会议日程 / SCHEDULE

时间 Time	日程 Schedule	地点 Place	联络人 Contact
报到 CHECK	12:00-22:00	参会代表报到 <b>Experts Check in</b>	上海宝隆宾馆一楼大厅 Lobby on 1 <sup>st</sup> Floor, Baolong hotel
第一天 DAY 1	8:30-12:00	主题报告 <b>Subject Report</b>	上海宝隆宾馆二楼金色殿堂 Golden Ballroom on 2 <sup>nd</sup> Floor Baolong hotel
	12:00-13:30	午餐休息 Lunch&rest	上海宝隆宾馆一楼天地餐厅, 自助餐 Buffet at Tiandi Restaurant 1 <sup>st</sup> Floor
	13:30-18:00	主题报告 <b>Subject Report</b>	上海宝隆宾馆二楼金色殿堂 Golden Ballroom on 2 <sup>nd</sup> Floor Baolong hotel
	18:00-21:00	晚餐 Dinner	上海宝隆宾馆一楼天地餐厅, 自助餐 Buffet at Tiandi Restaurant 1 <sup>st</sup> Floor
第二天 DAY 2	8:30-17:00 (酒店大堂集合乘大巴准时出发考察) Please arrive before 8:30 am Hotel lobby	考察 <b>Investigating</b>	上海地面沉降监测展示馆 Shanghai Land subsidence monitoring pavilion
		午餐 Lunch	崇明长兴岛 Changxing Island
		考察 <b>Investigating</b>	青草沙水源地原水工程 Qing Caosha Reservoir
	18:00-21:00	晚餐 Dinner	上海宝隆宾馆一楼天地餐厅, 自助餐 Buffet at Tiandi Restaurant 1 <sup>st</sup> Floor
第三天 Day 3	参会代表返程 Return of Participants		

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## 会议议程 / SYMPOSIUM AGENDA

### 第一天 DAY 1

11/4/2017 8:30-18:00

### 学术研讨 / Academic Forum

<b>8:30-12:00</b> <b>上午</b> <b>Morning</b>	<p><b>会议主持:</b> 张阿根, 上海市地质学会理事长, 中国地质调查局地面沉降研究中心主任 Moderator: A'gen Zhang, Council President of Shanghai Geological Society, Director of Geological Survey Research Center, China Geological Survey</p>
<b>8:30-8:50</b>	<p><b>上海市地质调查研究院方国安院长致辞</b> Oration: Guo'an Fang, Director of Shanghai Institute of Geological Survey</p>
<b>8:50-9:20</b>	<p><b>报告1 / Speech One</b> 报告名称: 中国地裂缝研究 Topic: The study of earth fissure in China 主讲人: 彭建兵, 长安大学地质灾害防治研究院院长, 教授、博士生导师 Speaker: Jianbing Peng, Dean, Professor, Doctoral supervisor, Geological Disaster Prevention Research Institute of Chang'an University</p>
<b>9:20-9:50</b>	<p><b>报告2 / Speech Two</b> 报告名称/Topic: The UNESCO Working Group on land subsidence: activites aimed at improving global knowledge, related phenomena and social implications in urban areas, the case study of Mexico City. 主讲人/ Speaker: Dora Celia Carreón-Freyre 联合国教科文组织地面沉降工作组主席, 墨西哥国立自治大学地球科学中心研究员 Chair of UNESCO Working Group on Land Subsidence National Autonomous University of Mexico</p>

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9:50-10:20	<p><b>报告3 / Speech Three</b></p> <p>报告名称/Topic: Urbanization induced change of geological environment and land subsidence in Shanghai with impacts on infrastructures</p> <p>主讲人: 沈水龙, 上海交通大学土木工程系主任, 教授、博士生导师</p> <p>Speaker: <b>Shuiliang Shen</b>, Head, Professor, Doctoral supervisor, Department of Civil Engineering, Shanghai Jiao Tong University</p>
10:20-10:30	<b>茶歇/Tea Break</b>
10:30-11:00	<p><b>报告4 / Speech Four</b></p> <p>报告名称/Topic: Open challenges in modeling land subsidence due to subsurface fluid production</p> <p>主讲人/ Speaker: <b>Teatini Pietro</b></p> <p>联合国教科文组织地面沉降工作组副主席, 意大利帕多瓦大学土建工程学院研究员</p> <p>Vice-Chair of UNESCO Working Group on Land Subsidence , University of Padova</p>
11:00-11:30	<p><b>报告5 / Speech Five</b></p> <p>报告名称/Topic: Numerical simulation of land subsidence in the Yangtze Delta Area, China</p> <p>主讲人: <b>叶淑君</b>, 南京大学地球科学与工程学院, 教授、博士生导师</p> <p>Speaker: <b>Shujun Ye</b>, Professor, Doctoral supervisor, School of Earth Sciences and Engineering, Nanjing University</p>
11:30-12:00	<p><b>报告6 / Speech Six</b></p> <p>报告名称: 上海深基坑工程性地面沉降防治研究</p> <p>Topic: Study on control of land subsidence caused by deep foundation pit dewater in Shanghai</p> <p>主讲人: <b>杨天亮</b>, 上海市地质调查研究院, 所长, 博士, 高级工程师</p> <p>Speaker: <b>Dr. Tianliang Yang</b>, Director, Department of land subsidence research, Shanghai institute of geological survey</p>

12:00-13:30 午餐 Lunch	宝隆宾馆一楼天地餐厅，自助餐 Buffet in Tiandi Restaurant, 1 <sup>st</sup> Floor, Baolong Hotel
13:30-15:50 下午 Afternoon	会议主持/ Moderator: Dora Celia Carreón-Freyre 联合国教科文组织地面沉降工作组主席, 墨西哥国立自治大学研究员 National Autonomous University of Mexico
13:30-13:50	<b>报告1 / Speech One</b> 报告名称: 华北平原地面沉降与地下水资源调控 Topic: The land subsidence and groundwater regulation in the North China Plain 主讲人: 郭海朋, 中国地质环境监测院, 博士, 高级工程师 Speaker: Dr. Haipeng Guo, Senior engineer, China Institute of Geological Environment Monitoring
13:50-14:10	<b>报告2 / Speech Two</b> 报告名称/Topic: Fracturing mechanism identification in subsidence prone soils of Mexico by means of geological, geophysical, and geotechnical tools 主讲人/ Speaker: Mariano Cerca 墨西哥国立自治大学研究员 Researcher of National Autonomous University of Mexico
14:10-14:30	<b>报告3 / Speech Three</b> Topic: Monitoring subsidence and infrastructure deformation with time-series InSAR images 主讲人: 廖明生, 武汉大学, 教授、博士生导师 Speaker: Mingsheng Liao, Professor, Doctoral supervisor, Wuhan University
14:30-14:50	<b>报告4 / Speech Four</b> 报告名称: 上海地铁盾构隧道纵向变形分析及治理 Topic: Analysis and management of Shanghai subway shield tunnel longitudinal deformation 主讲人: 李家平, 上海地铁维护保障有限公司工务分公司, 副总经理, 教授级高工 Speaker: JiaPing Li, Deputy general manager, Professor of Engineering, Shanghai metro maintenance guarantee co., LTD works branch

14:50-15:10	<p><b>报告5 / Speech Five</b></p> <p>报告名称: 天津地面沉降临界水位确定方法及其意义</p> <p>Topic: The method and signification of critical groundwater level determination for land subsidence controlling in Tianjin</p> <p>主讲人: 王家兵, 天津市地质调查研究院总工程师, 教授级高工</p> <p>Speaker: <b>Jiabing Wang</b>, Chief engineer, Professor of Engineering, Tianjin geological survey institute</p>
15:10-15:30	<p><b>报告6 / Speech Six</b></p> <p>报告名称: 江苏省地面沉降防治与地下水科学利用研究</p> <p>Topic: The study of prevention &amp; control of land subsidence and groundwater science use in Jiangsu province</p> <p>主讲人: 于军, 江苏省地质调查研究院, 副院长兼总工程师, 研究员</p> <p>Speaker: <b>Jun Yu</b>, Deputy director, Chief engineer, Jiangsu institute of geological survey</p>
15:30-15:50	<p><b>报告7 / Speech Seven</b></p> <p>报告名称/Topic: Back rebound behavior of multi-aquifer and multi-aquitard system during foundation dewatering: field observation, physical model reproduction and numerical simulation</p> <p>主讲人: 王建秀, 同济大学地下建筑与工程系, 教授、博士生导师</p> <p>Speaker: <b>Jianxiu Wang</b>, Professor, Doctoral supervisor, Department of Geological Engineering, Tongji University</p>
15:50-16:00	<b>茶歇/Tea Break</b>
<b>下午 Afternoon</b>	<p><b>会议主持/ Moderator: 叶淑君, 南京大学, 教授、博士生导师</b></p> <p><b>Shujun Ye</b>, Professor, School of Earth Sciences and Engineering, Nanjing University</p>

16:00-16:20	<p><b>报告8 / Speech Eight</b></p> <p>报告名称: 城市地下空间信息化关键技术及典型应用</p> <p>Topic: Key Technology research of urban underground space informatization and typical application</p> <p>主讲人: <b>周顺平</b>, 中国地质大学(武汉)信息工程学院教授、博士生导师, 国家地理信息系统工程技术研究中心常务副主任</p> <p>Speaker: <b>Shunping Zhou</b>, Professor, Doctoral supervisor, Information Engineering School, China University of Geosciences (Wuhan); Deputy Office Director, National Engineering Research Center on Geographic Information System</p>
16:20-16:40	<p><b>报告9 / Speech Nine</b></p> <p>报告名称: 雷州半岛地面沉降调查与防治研究</p> <p>Topic: Investigation and research of the land subsidence prevention &amp; control in Leizhou Peninsula</p> <p>主讲人: <b>艾康洪</b>, 广东省地质局第四地质大队大队长, 高级工程师</p> <p>Speaker: <b>Kanghong Ai</b>, Captain, Senior engineer, Fourth Geological Brigade, Guangdong Geological Bureau</p>
16:40-17:00	<p><b>报告10 / Speech Ten</b></p> <p>报告名称: 台风暴雨条件下旗山滑坡变形特征和机理分析</p> <p>Topic: Deformation characteristics and mechanism analysis of Qi Mountain landslide under typhoon or rainstorm</p> <p>主讲人: <b>赖树钦</b>, 国土资源部丘陵山地地质灾害防治重点实验室, 主任, 教授级高工</p> <p>Speaker: <b>Shuqin Lai</b>, Professor of Engineering, Director of Key Laboratory of Geo-hazard Prevention of Hilly Mountains, Ministry of Land and Resources of China</p>
17:00-17:20	<p><b>报告11 / Speech Eleven</b></p> <p>报告名称 /Topic: Urban infrastructural health monitoring with spaceborne InSAR technologies</p> <p>主讲人: <b>史国强</b>, 香港中文大学太空与地球信息科学研究所, 博士</p> <p>Speaker: <b>Dr. Guoqiang Shi</b>, Institute of Space and Earth Information Science, Chinese University of Hong Kong</p>

17:20-17:40	<p><b>报告12 / Speech Twelve</b></p> <p>报告名称： 上海城市地质及地下空间开发利用评价</p> <p>Topic: Evaluation of development &amp; utilization on urban geology and underground space in Shanghai</p> <p>主讲人： <b>史玉金</b>，上海市地质调查研究院，所长，博士，教授级高工</p> <p>Speaker: <b>Yujin Shi</b>, Professor of Engineering, Director of Department geological engineering research, Shanghai institute of geological survey</p>
17:40-18:00	会议总结 Forum Summarize
18:00-21:00	晚餐 / Dinner 一楼天地餐厅/ Tiandi Restaurant, 1 <sup>st</sup> Floor

<p>第二天 DAY 2</p> <p>12/4/2017 8:30-17:00</p> <p>现场考察 / Field Investigation</p>	
8:30 am	<ul style="list-style-type: none"> <li>● 酒店大堂集合前往考察地点，8:30 乘大巴准时出发</li> </ul> <p>Shuttle bus will leave the hotel for field study trip at 8:30 am.</p> <p>Please arrive at the hotel lobby before that time.</p>
上午 Morning	<ul style="list-style-type: none"> <li>● 考察 “上海地面沉降监测展示馆”</li> </ul> <p>Investigating Shanghai land subsidence monitoring pavilion</p>
中午 Noon	<ul style="list-style-type: none"> <li>● 崇明长兴岛用餐</li> </ul> <p>Having lunch on Changxing Island</p>
下午 Afternoon	<ul style="list-style-type: none"> <li>● 下午：考察 “青草沙水源地原水工程”</li> </ul> <p>Investigating Qing Caosha Reservoir</p>
晚餐 Dinner	<ul style="list-style-type: none"> <li>● 宝隆宾馆一楼天地餐厅/ Tiandi Restaurant, 1<sup>st</sup> Floor, Baolong Hotel</li> </ul>

## 主题报告专家简介 / EXPERT AND INTRODUCTION

### 彭建兵 Jianbing Peng



长安大学地质灾害防治研究院院长, 教授、博士生导师; 西部矿产资源与地质工程教育部重点实验室主任; 中国地质学会工程地质专业委员会主任; 国家政府津贴专家。专业领域为工程地质、地震工程、地质灾害及岩土工程。

As the dean, professor and doctoral supervisor of the Geological Disaster Prevention Research Institute of Chang'an University, Prof. Peng has focused on engineering geology, earthquake engineering, geological disasters etc.

### Dora Celia Carreon-Freyre



墨西哥国立自治大学地球科学中心研究员, 联合国教科文组织地面沉降工作组主席。专业领域为地质材料的应力-应变关系分析等。

As the full time researcher at the Center for Geosciences at National Autonomous University of Mexico, Campus Juriquilla Queretaro, and Chair of UNESCO Working Group on Land Subsidence, Prof. Dora has focused on the study of stress-strain relationships in geological materials etc.

### 沈水龙 Shuilong Shen



上海交通大学土木工程系主任, 教授、博士生导师。专业领域为地下工程与地下空间开发等。

As the head, professor and doctoral supervisor in the Department of Civil Engineering, Shanghai Jiao Tong University, Prof. Shen has focused on land subsidence due to withdrawal of groundwater, and sustainability of coastal cities.

### Teatini Pietro



意大利帕多瓦大学土木、环境和建筑工程学院研究员, 联合国教科文组织地面沉降工作组副主席。专业领域为自然沉积物压实和泥炭氧化引起的地面沉降等。

As the researcher at the Department of Civil, Environmental and Architectural Engineering, University of Padova (Italy), and Vice-Chair of UNESCO Working Group on Land Subsidence, Prof. Pietro has focused on modelling of land subsidence due to natural sediment compaction and peat oxidation etc.

## 叶淑君 Shujun Ye



南京大学地球科学与工程学院教授, 联合国教科文组织地面沉降工作组成员。专业领域为地下水开采引起的地面沉降、复杂变形特征的三维区域地面沉降模拟。

As the professor of Hydrogeology in School of Earth Sciences and Engineering, Nanjing University, and Member of UNESCO Working Group on Land Subsidence, Prof. Ye has focused on ground deformation related to groundwater extraction etc.

## 郭海朋 Haipeng Guo



中国地质环境监测院高级工程师, 博士, 地面沉降调查监测专家, 中国地质调查局首批“优秀地质人才”, 荣获中国地质调查局地质科技奖一等奖。

As the senior engineer in China Institute of Geological Environment Monitoring, Dr. Guo is the PI of several important projects of China Geological Survey and has focused on investigation and monitoring of land subsidence.



## Mariano Cerca

墨西哥国立自治大学研究员, 专业领域为构造地质学、构造运动的模拟、岩石和沉积物的力学特性等。

As the full time researcher at National Autonomous University of Mexico, Prof. Mariano has focused on the study of structural geology, analogue modeling of tectonic processes, mechanics of rocks and sediments etc.

## 廖明生 Mingsheng Liao



武汉大学教授、博士生导师, 雷达遥感方向学术带头人, 欧洲空间局、德国、意大利和日本等多个遥感计划的国际合作项目责任科学家。

As the professor and doctoral supervisor in Wuhan University, Prof. Liao has focused on InSAR technology and its application in monitoring deformation and deriving elevation data from space-borne images.

### 李家平 JiaPing Li



上海地铁维护保障有限公司工务分公司副总经理，博士，教授级高级工程师。长期从事上海轨道交通安全保护区以及地铁桥梁、隧道的养护管理工作。  
As the deputy general manager in Shanghai metro maintenance guarantee co., LTD works branch, Prof. Li has been mainly responsible for rail transit security reserve, the maintenance and management work of bridge and tunnel in Shanghai.

### 王家兵 Jiabing Wang



天津市地质调查研究院总工程师，教授级高级工程师。主持完成了华北平原地下水资源调查评价、天津城市地质调查等多个重大项目，曾获多项省部级科学技术奖。

As the chief engineer of Tianjin geological survey institute, Prof. Wang has been responsible for many large projects, and won a lot of provincial science and technology awards.

### 于军 Jun Yu



江苏省地质调查研究院副院长兼总工程师，博士，研究员。主要从事水工环地质及地质灾害研究，主持完成国土资源大调查、省部级合作等重大项目6项。

As the deputy director and chief engineer of the Jiangsu Institute of Geological Survey, Mr. Jun Yu has been mainly engaged in the study of hydrogeology, engineering geology, environmental geology and geological disasters.

### 王建秀 Jianxiu Wang



同济大学地下建筑与工程系教授、博士生导师，专业领域为深基坑降水工程、地面沉降、深层地下空间开发地质保障工程、BIM+、工程集成智能CAD系统等。

As the professor and doctoral supervisor in Geological Engineering of Tongji University, Prof. Wang has focused on deep foundation pit dewatering engineering, land subsidence, geological environment protection BIM+, integrated intelligent CAD system etc.

## 周顺平 Shunping Zhou



中国地质大学（武汉）信息工程学院教授、博士生导师，国家地理信息系统工程技术研究中心常务副主任。专业领域为地理信息系统工程技术研究和产品开发。

As the professor and doctoral supervisor in Information Engineering School, China University of Geosciences (Wuhan), Deputy Office Director of National Engineering Research Center on Geographic Information System, Prof. Zhou has committed to the research and development of GIS technology.

## 艾康洪 Kanghong Ai

广东省地质局第四地质大队大队长。长期从事岩土工程勘察、地基与基础施工、地质灾害应急调查与防治以及地质勘查等专业技术工作。

As the captain of Fourth Geological Brigade of Guangdong Geological Bureau, Mr. Ai has been mainly engaged in geotechnical engineering, foundation construction, geological disaster emergency investigation etc.



## 赖树钦 Shuqin Lai



国土资源部丘陵山地地质灾害防治重点实验室主任，博士，教授级高级工程师。专业领域为水文地质与工程地质、岩土工程、地灾应急处置。

As the director of Key Laboratory of Geo-hazard Prevention of Hilly Mountains, Ministry of Land and Resources of China, Prof. Lai has engaged in hydrogeology and engineering geology etc.

## 史国强 Guoqiang Shi

香港中文大学太空与地球信息科学研究所博士，主要研究兴趣为多时相 SAR 干涉测量包括永久散射体干涉测量、分布式散射体干涉测量的算法研究及其在城市基础设施安全监测方面的应用。

As the Ph.D of the Institute of Space and Earth Information Science, The Chinese University of Hong Kong, Dr. Shi has focused on persistent scatterer and distributed scatterer interferometry and their application to infrastructural health monitoring.



第一届国际城市地质学术研讨会

1<sup>st</sup> International Symposium on Urban Geology in Shanghai, China, 2017



史玉金 **Yujin Shi**

上海市地质调查研究院地质环境研究所所长, 博士, 教授级高级工程师, 专业领域为水工环地质与海岸带地质。

As the director of geological engineering research department, Shanghai institute of geological survey, Prof. Shi has focused on hydrogeology and coastal geology.

杨天亮 **Tianliang Yang**

上海市地质调查研究院地面沉降研究所所长, 博士, 高级工程师, 专业领域为水工环地质与地质灾害防治。

As the director of land subsidence research department, Shanghai institute of geological survey, Dr. Yang has focused on hydrogeology and control of geological disaster.



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1<sup>st</sup> International Symposium on Urban Geology in Shanghai, China, 2017

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## 第一届国际城市地质学术研讨会

1<sup>st</sup> International Symposium on Urban Geology in Shanghai, China, 2017

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## 考察点简介 Field Investigation

### 上海地面沉降监测展示馆 Shanghai Land Subsidence Monitoring Pavilion

上海地面沉降监测展示馆坐落于上海世博园区内。展示馆基于最新研究成果内容形成了“地面沉降展厅”、结合分层标组建设了“地面沉降自动化监测展厅”以及“浅层地温能展厅”，是地面沉降专业领域的特色展厅。

Shanghai Land subsidence monitoring pavilion is located in the Shanghai EXPO Park, which consists of three characteristic exhibition hall in the field of land subsidence.



### 青草沙水源地原水工程 Qing Caosha Reservoir



青草沙水源地原水工程位于崇明长兴岛西北方。2011年6月，该工程全面建成通水。工程的建成和投入运行，改写了上海饮用水主要依靠黄浦江水源的历史。同时，该工程作为地下水开采替代工程，大幅压缩了地下水开采量，改变了上海市地下水开采量长期大于回灌量的格局，为上海地面沉降防治做出了重大贡献。

The Qing Caosha reservoir is located on northwest of Changxing Island. As a substitute for groundwater exploitation, the complete and operation of the project change the pattern that the production of groundwater was greater than recharge in Shanghai, and make a major contribution to the prevention and control of land subsidence.

#### ● 考察路线示意图

Sketch Map of  
Investigating Route



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## 会议服务 / NOTICE RELATED

用餐地点：宝隆酒店一楼天地餐厅

Dining Place: Tiandi Restaurant, 1<sup>st</sup> Floor of the Baolong Hotel

早餐：6:30—9:00 凭房卡就餐

Show Room Card to have Breakfast between 6:30—9:00.

午餐：11:30—14:00 凭餐券就餐

Show Voucher to have Lunch between 11:30—14:00.

晚餐：17:30—21:00 凭餐券就餐

Show Voucher to have Dinner between 17:30—21:00.

若有问题，可与会务组联系，会务组设在 316 房间：

For any un-expected circumstances or problems, please feel free to contact meeting affairs group (room number 316) :

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