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International Professionals for
the Advancement of Chinese
Earth Sciences



中国科学技术大学
University of Science and Technology of China

地球与行星科学前沿国际研讨会 暨国际中国地球科学促进会 (IPACES) 2023年会

2023年7月2日—7月5日 安徽·合肥



1958

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会议简介

为更好地促进地球与行星科学领域前沿研究和国际交流，国际中国地球科学促进会 (IPACES) 联合中国科学技术大学将于2023年7月2日-7月5日在安徽省合肥市组织召开“地球与行星科学前沿国际研讨会暨国际中国地球科学促进会 (IPACES) 2023年会”。本次会议将围绕固体地球/行星科学、地球化学/生态环境等主题，邀请海内外IPACES成员及国内/国际知名科学家共同探讨未来地球与行星科学领域多学科交叉发展的新思路与新方向，同时非常鼓励国内外青年科学家及研究生线上线下参加研讨会。

国际中国地球科学促进会IPACES是成立于1999年的非营利组织，由海内外知名华人地球科学家组成，旨在促进中国地球科学的发展和国际交流。自创办以来，IPACES年会已成为海内外华人地球科学家交流的重要平台，学科领域涵盖广泛，交叉特色突出。

本次会议采用线下为主、线上相结合的方式举行，线上用腾讯平台，线下在中国科学技术大学水上报告厅（东区）同步进行，会议不收取注册费。会议交流方式包括科学规划与写作、特邀报告以及展板三部分。

会议时间

- ▶ 7月2日09:30—12:00：线下参会专家学生报到（东区专家楼一楼大厅）
- ▶ 7月2日14:00—17:00：科学规划与写作研讨
- ▶ 7月2日20:00—22:00：IPACES战略规划会议（IPACES成员）
- ▶ 7月3日08:20—18:00：固体地球/行星科学
- ▶ 7月3日19:00—22:00：海报展示
- ▶ 7月4日08:30—18:00：地球化学/生态环境
- ▶ 7月5日：实地考察，疏散

会议地点

- ▶ 线下地点：安徽省合肥市中国科学技术大学 水上报告厅（东区）
- ▶ 线上地点：ZOOM 会议号：644 912 3456

会议发起单位



International Professionals for
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中国科学技术大学
University of Science and Technology of China

会议承办单位

中国科学技术大学地球和空间科学学院

会议组委会成员

刘丽军 彭志刚 颜备战 姚华建 秦礼萍 孙道远

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会议日程表

July 2, 2023

July 2, 2023 Topic 1: Scientific Planning and Writing 7月2日下午, 专题一: 科学规划与写作

时间/Time	报告人/Speaker	报告题目/Topic	主持/Host
14:00-14:30	孙道远, 中国科学技术大学 SUN Daoyuan, University of Science and Technology of China	如何写论文和回应审稿人的意见 How to Write Papers and Respond to Reviewer's Comments	孙道远
14:30-15:00 (Online)	董海良, 中国地质大学(北京) DONG Hailiang, China University of Geosciences - Beijing	如何写基金 How to Write Proposals	
15:00-15:20	休息/Break		
15:20-15:50	彭志刚, 佐治亚理工学院 PENG Zhigang, Georgia Institute of Technology	如何开会/做报告 How to attend meeting and present	
15:50-16:20	周华伟, 休斯敦大学 ZHOU Huawei, University of Houston	如何做科研 How to conduct scientific research	
16:20-17:00	讨论/答疑 Open Discussions and Q/A		彭志刚
Beijing Time: 20:00-22:00 US EDT Time: 08:00-10:00	IPACES 战略规划会议 Strategic Planning Meeting 线下地点: 中国科学技术大学 教学行政楼708会议室 线上会议: ZOOM 会议号/644 912 3456 参会人员: IPACES 和特邀成员		

会议日程表

July 3, 2023

July 3, 2023 Topic 2: Solid Geophysics and Planetary Sciences 7月3日, 专题二: 固体地球/行星科学

08:20-08:30 IPACES 2023年年会开幕致辞

时间/Time	报告人/Speaker	报告题目/Topic	主持/Host
08:30-08:55	汪毓明, 中国科学技术大学 WANG Yuming, University of Science and Technology of China	木星磁场探测 Can we measure Jovian magnetic fields remotely?	彭志刚
08:55-09:20	潘路, 中国科学技术大学 PAN Lu, University of Science and Technology of China	寻找火星气候悖论的解决方式 Toward a solution to the early Mars climate paradox	
09:20-09:45	丁志, 澳门科技大学 DING Min, Macau University of Science and Technology	撞击盆地的粘弹性松弛 Viscoelastic relaxation of impact basins	
09:45-10:10 (Online)	张瑾, 德州农工大学 ZHANG Jin, Texas A&M University	角闪石的高 P-T 声速对上地幔低速异常的影响 High P-T sound velocities of amphiboles: Implications for low-velocity anomalies in metasomatized upper mantle	
10:10-10:30	合影/Photo Session		刘丽军
10:30-10:55 (Online)	陈晓玮, 德州农工大学 CHEN Xiaowei, Texas A&M University	美国地热能发展前景及地球物理监测的作用 Development and prospect of geothermal energy in the United States and the role of geophysical monitoring	
10:55-11:20	宋晓东, 北京大学 SONG Xiaodong, Peking University	地震层析成像模型的可靠性 How much can we trust seismic tomographic models?	
11:20-11:45 (Online)	牛耀龄, 崂山实验室 NIU Yaoling, Laoshan Laboratory	俯冲如何起始 Subduction initiation	

时间/Time	报告人/Speaker	报告题目/Topic	主持/Host
11:45-12:10 (Online)	刘澜波, 康涅狄格大学 LIU Lanbo, University of Connecticut	青藏高原东翼构造应力与重力联合载荷及其工程意义 Joint load of tectonic and gravitational stresses on the east flank of Tibet Plateau and its engineering implication	刘丽军
12:10-14:00	午餐/ Lunch		
14:00-14:25	钟时杰, 科罗拉多大学博尔德分校 ZHONG Shijie, University of Colorado at Boulder	由观测的岩石圈变形限制的岩石圈流变定律及其对板块构造起源的意义 Observational constraints on lithospheric rheology and generation of plate tectonics	姚华建
14:25-14:50	王国权, 休斯敦大学 WANG Guoquan, University of Houston	地面沉降何时休? 休斯顿和天津地面沉降研究 When will subsidence stop? Case study in Houston and Tianjin	
14:50-15:15	许效华, 中国科学技术大学 XU Xiaohua, University of Science and Technology of China	长期和瞬时地壳应变的空间大地测量 Space Geodetic Measurement on Secular and Transient Crustal Strain	
15:15-16:45	海报展示/Poster Presentation		
16:45-17:10	韦生吉, 新加坡南洋理工大学 WEI Shengji, Nanyang Technological University	断层摩擦的一些新思考, 近期地震和地震滑动过程观测的启示 Some new thoughts on fault friction, insights from recent observations on seismic and aseismic slip processes	宋晓东
17:10-17:35	朱露培, 圣路易斯大学 ZHU Lupei, Saint Louis University	在 Wabash Valley 地震带中检测采矿爆炸并模拟其地壳结构的波形 Detecting mining blasts and modeling their waveforms for crustal structure in the Wabash Valley Seismic Zone	
17:35-18:00	周华伟, 休斯敦大学 ZHOU Huawei, University of Houston	地震勘探的“绿色”挑战与机遇 "Green" Challenges and Opportunities in Seismic Exploration	
19:00-22:00	海报展示/Poster Presentation		

会议日程表

July 4, 2023

July 4, 2023 Topic 3: Geochemistry and Environmental Sciences

7月4日, 专题三: 地球化学/环境科学

时间/Time	报告人/Speaker	报告题目/Topic	主持/Host
08:30-08:55	郑永飞, 中国科学技术大学 ZHENG Yongfei, University of Science and Technology of China	俯冲带地球化学 Subduction zone geochemistry	董海良
08:55-09:20 (Online)	詹红兵, 德州农工大学 ZHAN Hongbin, Texas A&M University	地热能储存和回收的水文控制 Hydrological controls of geothermal energy storage and recovery	
09:20-09:45 (Online)	邓保林, 密苏里大学 DENG Baolin, University of Missouri	铬生物地球化学转化 Chromium Biogeochemical Transformation	
09:45-10:10 (Online)	张劲, 富山大学 ZHANG Jing, University of Toyama	使用放射性铯同位素量化西太平洋边界流区副热带模式水的水贡献及相关的等密度/跨密度水混合 Water Contribution of Subtropical Mode Water and Related Isopycnal/Diapycnal Water Mixing in the Western Pacific Boundary Current Area Using Radiocesium	
10:10-10:30	休息/Break		
10:30-10:55	郑旺, 天津大学 ZHENG Wang, Tianjin University	汞同位素指示古海洋氧化还原状态的机理和应用 The Mechanism and Application of Mercury Isotopes Indicates the Redox State of the Paleo-Ocean	胡钦红
10:55-11:20 (Online)	颜备战, 哥伦比亚大学 YAN Beizhan, Columbia University	纽约市水道中微塑料及相关病原体和污染物的分布 Distribution of microplastics and associated pathogens and pollutants in New York City waterways	
11:20-11:45 (Online)	许天福, 吉林大学 XU Tianfu, Jilin University	反应溶质运移数值模拟在CO ₂ 地质封存与资源化利用中的应用 Application of Numerical Simulation of Reactive Solute Transport in CO ₂ Geological Storage and Resource Utilization	

时间/Time	报告人/Speaker	报告题目/Topic	主持/Host
12:10-14:00	午餐/ Lunch		
14:00-14:25	孙静, 中科院地化所 SUN Jing, Institute Of Geochemistry, Chinese Academy of Sciences	天然矿物相转变驱动的地下水质量变化研究 Impacts of Mineral Transformation on Groundwater Quality	秦礼萍
14:25-14:50	董海良, 中国地质大学(北京) DONG Hailiang, China University of Geosciences - Beijing	矿物-微生物协同演化以及环境资源效应 Mineral-microbe interaction and co-evolution: mechanisms and applications	
14:50-15:15	胡钦红, 中国石油大学 (华东) HU QinHong, China University of Petroleum (East China)	美国能源独立与碳中和之路: (纳米)岩石物理研究的参与 American pathways to energy independence and carbon neutrality: Contributions from (nano)petro-physical studies	
15:15-16:15	海报展示/Poster Presentation		
16:15-16:40 (Online)	张传伦, 南方科技大学 ZHANG Chuanlun, Southern University of Science and Technology	古菌地球生物学 Geobiology of Archaea	彭志刚
16:40-17:05	秦礼萍, 中国科学技术大学 QIN Liping, University of Science and Technology of China	铬同位素对古环境的指示 The Application of Cr isotopes to trace the paleo-environment	
17:05-17:30	蔡平河, 厦门大学 CAI Pinghe, Xiamen University	北太平洋深海海底自生碳酸钙的形成 Formation of authigenic calcium carbonate on the deep North Pacific Ocean floor	
17:30-18:00	优秀Poster颁奖		

报告人简介



孙道远

SUN Daoyuan

教授, 中国科学技术大学

特邀报告: 如何写论文和回应审稿人的意见

How to Write Papers and Respond
to Reviewer's Comments

时 间: 14:00-14:20, 2 July

孙道远, 中国科学技术大学教授。2000年获中国科学技术大学固体地球物理学学士学位, 2009年博士毕业于加州理工学院, 2010-2011年在华盛顿卡内基学院地球磁场系(Carnegie Fellow), 2012-2014年在南加州大学地球科学系做博士后研究。主要从事地球深部地震学结构成像、地震波传播理论和计算、其他行星及月球内部结构等方面的研究。现为GRL主编。

报告人简介



董海良

DONG Hailiang

教授, 中国地质大学(北京)

特邀报告: 如何写基金

How to Write Proposals

时 间: 14:30-15:00, 2 July (Online)

特邀报告: 矿物-微生物协同演化以及环境资源效应

Mineral-microbe interaction and co-evolution: mechanisms and applications

时 间: 14:25-14:50, 4 July

Hailiang Dong is a professor at China University of Geosciences-Beijing. He received his B.S. and M.S. degrees from China University of Geosciences – Wuhan and Beijing, respectively, and PhD from the University of Michigan. He worked at Princeton University as a post-doctoral researcher and at Miami University as a faculty member. His research is Geomicrobiology, Geochemistry, and Mineralogy. He currently serves as editor-in-chief of Chemical Geology and Geo-Bio Interfaces, and Associate Editor of GCA, mLife, and Geomicrobiology Journal. He is a fellow of GSA and Geochemical Society/European Society of Geochemistry.

报告人简介



彭志刚

PENG Zhigang

教授, 佐治亚理工学院

特邀报告: 如何开会/做报告

How to attend meeting and present

时 间: 15:20-15:50, 2 July

Dr. Zhigang Peng is a professor of geophysics in the School of Earth and Atmospheric Sciences at Georgia Institute of Technology. His research mainly focuses on high-resolution fault zone structures, temporal changes of earth's properties, earthquake triggering, slow earthquakes, induced earthquakes, and machine learning. He was an associate editor for Journal of Geophysical Research and Bulletin of Seismological Society of America from 2011 to 2013, and the editor-in-chief for Seismological Research Letters from 2013 to 2019. He is currently serving as the Board of Directors for the Seismological Society of America (SSA), and chair of the International Professionals for Advancement of Chinese Earth Sciences (IPACES). In 2010 he received the NSF CAREER award and the Charles Richter Award from the Seismological Society of America (SSA). He received SSA's Distinguished Service Award in 2020.

报告人简介



周华伟

ZHOU Huawei

教授, 休斯敦大学

特邀报告: 如何做科研

How to conduct scientific research

时 间: 15:50-16:20, 2 July

特邀报告: 地震勘探的“绿色”挑战与机遇

"Green" Challenges and Opportunities in Seismic Exploration

时 间: 17:35-18:00, 3 July

周华伟, 美国休斯顿大学地球与大气科学系“谢里夫”(Sheriff) 冠名教授。中国地质大学数学学士。加州州立大学地学硕士; 加州理工地球物理学博士; 1989年任教休斯顿大学, 曾任休大AGL副主任、Exxon研究员、德州理工“匹威霍斯”(Pevehouse) 冠名教授、休大地球与大气科学系主任。主要研究地震波地下探测、层析成像、地壳和岩石圈俯冲带结构。

报告人简介



汪毓明

WANG Yuming

教授, 中国科学技术大学

特邀报告: 木星磁场探测

Can we measure Jovian magnetic fields remotely?

时 间: 08:30-08:55, 3 July

汪毓明, 中国科学技术大学教授。现任中国科学技术大学地球和空间科学学院执行院长、中科院比较行星学卓越创新中心主任、中科院B类先导专项“类地行星的形成演化及其宜居性”领衔科学家。主要从事空间物理学研究, 同时围绕国家深空探测计划, 带领团队开展空间粒子与磁场探测技术的研发。曾任国际期刊《JGR: Space Physics》Editor、美国地球物理学会杰出教育奖评奖委员会委员、国家自然科学基金委地学部第七届专家咨询委员会委员。先后获教育部自然科学一等奖、首届科学探索奖等奖项和荣誉。

报告人简介



潘 路

PAN Lu

特任教授, 中国科学技术大学

特邀报告: 寻找火星气候悖论的解决方式

Toward a solution to the early Mars climate paradox

时 间: 08:55-09:20, 3 July

Dr. Lu Pan is an appointed professor of planetary sciences in the School of Earth and Space Sciences at University of Science and Technology of China. Her research aims at understanding planetary evolution and habitability using remote observations of surface processes, with a focus on early Mars geology, climate, and impact history. She received a doctoral degree at California Institute of Technology in 2017 and worked as a postdoc at University of Lyon and University of Copenhagen. She has worked as a collaborator on InSight and MSL mission science teams and contributed to the landing site selection of Mars 2020 and ExoMars. She is a recipient of the Marie Skłodowska-Curie Actions Fellowship in 2017, and is currently serving as a youth editor for Earth and Planetary Physics.

报告人简介



丁 忞

DING Min

助理教授, 澳门科技大学

特邀报告: 撞击盆地的粘弹性松弛

Viscoelastic relaxation of impact basins

时 间: 09:20-09:45, 3 July

Min Ding, Assistant Professor at State Key Laboratory of Lunar and Planetary Sciences, Macau University of Science and Technology, since 2019. Received Bachelor's degree from University of Science and Technology of China in 2009; and graduated from Massachusetts Institute of Technology / Woods Hole Oceanographic Institution Joint Program in 2015. Then worked as Postdoc Associate at MIT and Peking University. As a planetary geophysicist, she is intrigued by the interaction between long-term tectonic evolution and short-term catastrophic processes on terrestrial planets (Moon, Mars, and Earth). By combining computational geodynamics with geodetic observations, her research focuses on thermo-mechanical evolution of the lithosphere and its response to various external and internal loading processes (e.g., impacts, volcanoes and earthquakes) on time scales from minutes to millions of years.
Personal website: www.dingmin.ink.

报告人简介



张 瑾

ZHANG Jin

副教授, 德州农工大学

特邀报告: 角闪石的高 P-T 声速对上地幔低速异常的影响

High P-T sound velocities of amphiboles: Implications for low-velocity anomalies in metasomatized upper mantle

时 间: 09:45-10:10, 3 July (Online)

Jin Zhang received her BSc from Nanjing University in 2008 and PhD from University of Illinois at Urbana-Champaign in 2014. She was the COMPRES technology officer at Advanced Photon Source, Argonne National Laboratory and University of Hawaii from 2014 to 2016, and became an assistant professor at University of New Mexico in 2016. She is currently an associate professor in Department of Geology and Geophysics at Texas A&M University. She received the NSF career award in 2019, served as the secretary for AGU Mineral and Rock physics section from 2019-2020, and was COMPRES distinguished Speaker from 2020-2021. She is an associate editor for Science Advances, and serves on the editorial board of Earth and Planetary Science Letters. Her research focuses on exploring the structures, composition and dynamics of the Earth and other planets through high pressure-temperature experiments using spectroscopy, synchrotron X-rays, Electron microscopy, diamond anvil cell and large volume press.

报告人简介



陈晓玮

CHEN Xiaowei

副教授, 德州农工大学

特邀报告: 美国地热能发展前景及地球物理监测的作用

Development and prospect of geothermal energy in the United States and the role of geophysical monitoring

时 间: 10:30-10:55, 3 July (Online)

Dr. Xiaowei Chen is an associate professor of Geophysics at the Department of Geology and Geophysics at Texas A&M university since August 2022. Dr. Chen has been an assistant and associate professor at the University of Oklahoma from 2015 to 2022. Her research is in the field of observational seismology, and focuses on earthquake physics, earthquake triggering, induced seismicity, fiber optics, etc. She is currently serving as an editor for Earth, Planet and Space, and has served as guest editors for several special issues.

报告人简介



宋晓东

SONG Xiaodong

教授, 北京大学

特邀报告: 地震层析成像模型的可靠性

How much can we trust seismic tomographic models?

时 间: 10:55-11:20, 3 July

Xiaodong Song focuses his research on seismology and studies of the Earth's deep interior. He is currently Chair Professor and National Distinguished Scholar at School of Earth and Space Sciences, Peking University. He received his B.S. degree (1986) from University of Science and Technology of China and Ph.D. degree from Caltech (1994) and did his postdoc at Lamont-Doherty Earth Observatory of Columbia University. He later served on the faculty (Assistant Professor, and Associate and Full Professor with tenure) at University of Illinois at Urbana-Champaign for 20+ years. His work on the inner core differential rotation was named as a breakthrough of the year by Science (1996). He received Doornbos Prize by the Studies of Earth Deep Interior Committee of the International Union of Geophysics and Geodesy (1996), Outstanding Overseas Young Scientist Award by the Natural Science Foundation of China (1998), Chinese National Distinguished Visiting Scholar (2010), Solid Earth Distinguished Lectureship by the Asia Oceania Geosciences Society (AOGS) (2016). He currently serves as the Editor-in-Chief of Earthquake Science. His homepage: <http://geophy.pku.edu.cn/people/songxiaodong/>

报告人简介



牛耀龄

NIU Yaoling

教授, 崂山实验室

特邀报告: 俯冲如何起始

Subduction initiation

时 间: 11:20-11:45, 3 July (Online)

Yaoling Niu is currently an honorary professor at Laoshan Laboratory, China. He has been both an educator and a researcher in Earth Science. He taught crystallography, optical mineralogy, mineralogy, igneous and metamorphic petrology, elemental and isotope geochemistry, ore deposits, thermodynamics for geologists, global tectonics and field geology at both undergraduate and postgraduate levels in China (1982-1985), Australia (1993-2001), USA (1986-1987, 2003-2004) and UK (2005-2022). His research includes: (1) petrology and geochemistry of mantle peridotites, basalts and basaltic rocks, granites and granitoid rocks, high- and ultra-high-pressure metamorphic rocks and ore deposits; (2) ocean ridge magmatism, intraplate magmatism, subduction-zone processes, magmatism associated with continental collision and continental crust accretion; (3) causes and effects of seafloor subduction and global tectonics, chemical geodynamics and mantle circulation; (4) elemental and isotope geochemistry, geochronology and geological applications.

报告人简介



刘澜波

LIU Lanbo

教授, 康涅狄格大学

特邀报告: 青藏高原东翼构造应力与重力联合载荷及其工程意义

Joint load of tectonic and gravitational stresses on the east flank of Tibet Plateau and its engineering implication

时 间: 11:45-12:10, 3 July (Online)

刘澜波, 美国康涅狄格大学地球科学系荣休教授, 北京大学地球物理学本科、硕士, 斯坦福大学土木与环境工程硕士, 地球物理学博士, 卡耐基研究院博士后。在国际学术期刊发表SCI 论文百余篇, 总他引次数超过 5000 次。刘澜波教授的研究内容包括理论地球物理、工程地球物理和震害评估等多个领域。在《科学》杂志上发表的“利用现代GPS观测技术和传统的大地测量技术来研究板内地震震间应变积累并由此估算大地震重发周期”的开创性工作引起了学界的广泛注意。刘教授是富布赖特奖学金 (Fulbright Scholarship) 获得者。曾担任《Geophysics》, 《Journal of Environment and Engineering Geophysics》, 《Journal of Applied Geophysics》, 《Journal of Earth Science》, 《Journal of Geodesy and Geodynamics》等多家杂志副主编、编委。

报告人简介



钟时杰

ZHONG Shijie

教授, 科罗拉多大学博尔德分校

特邀报告：由观测的岩石圈变形限制的岩石圈流变定律及其对板块构造起源的意义

Observational constraints on lithospheric rheology and generation of plate tectonics

时 间：14:00-14:25, 3 July

Dr. Shijie Zhong is a professor of Physics in the department of Physics at the University of Colorado at Boulder. His research area is on Geodynamics and Planetary Science, more specifically on mantle and lithospheric dynamics, mantle structure, rheology, glacial isostatic adjustment, and Quaternary sea-level change. His work is on Earth, the Moon, Mars and other terrestrial planets. He is the primary developer of publicly available computer modeling packages CitcomS for planetary mantle convection and CitcomSVE for planetary viscoelastic deformation in response to tidal and surface loadings.

报告人简介



王国权

WANG Guoquan

教授, 休斯敦大学

特邀报告：地面沉降何时休？休斯顿和天津地面沉降研究

When will subsidence stop? Case study in Houston and Tianjin

时 间：14:25-14:50, 3 July

王国权博士是美国休斯顿大学地球与大气科学系和土木与环境工程系的教授，长期从事地震、滑坡、地面沉降、城市活断层等地质灾害的观测研究。王国权博士于1996年在中国地质大学（武汉）获得地质学学士学位，1998年在南京大学获得水文地质和工程地质硕士学位，2001年在中国地震局地质研究所获得固体地球物理学博士学位。目前担任休斯顿GNSS台网中心主任，休斯顿大学海岸带研究中心助理主任，主要从事城市地面沉降和海岸带自然灾害的研究。

个人主页：<https://www.uh.edu/nsm/earth-atmospheric/people/faculty/guoquan-wang/index.php>

报告人简介



许效华

XU Xiaohua

特任教授, 中国科学技术大学

特邀报告: 长期和瞬时地壳应变的空间大地测量

Space Geodetic Measurement on Secular
and Transient Crustal Strain

时 间: 14:50-15:15, 3 July

Xiaohua Xu is a specially appointed professor of geophysics at the School of Earth and Space Sciences, University of Science and Technology of China (USTC). He received his B.S. degree in geophysics from USTC in 2012 and Ph.D degree in Earth Sciences at Scripps Institution Oceanography, University of California San Diego in 2017. He continued working at Scripps as a postdoctoral researcher, and then joined Institute for Geophysics at University of Texas Austin as a research associate. Dr. Xu studies crustal deformation with satellite geodesy. His main research interests are fault slip rates, strain/moment accumulation, on/off-fault strain partitioning and how these evaluations are related to seismic hazards. He also works on imaging large earthquakes and modeling surface change due to magma activities, reservoir depletion, ice motion and hydrological activities, etc. He is a developer of the open source InSAR processing software GMTSAR.

报告人简介



韦生吉

WEI Shengji

副教授, 新加坡南洋理工大学

特邀报告: 断层摩擦的一些新思考, 近期地震和地震

滑动过程观测的启示

Some new thoughts on fault friction,
insights from recent observations on
seismic and aseismic slip processes

时 间: 16:45-17:10, 3 July

Wei Shengji is a PI at the Earth Observatory of Singapore and an associate professor at the Asian School of the Environment, NTU. He graduated from USTC and had been a postdoc at Caltech Seismolab before working at NTU. He is an associate editor of BSSA and Geoscience Letters, and an editorial board member of Tectonophysics. His research focusses on earthquake source and the properties of earth structures to better understand earthquake physics, tectonic and geodynamic processes. His approach to resolving the kinematic nature of earthquakes involves a combination of geodesy, geology, and seismology to better constrain the spatial-temporal evolution of seismic rupture properties. His team develops techniques that allow waveform inversion/modelling to be extended to a higher frequency (>1Hz) range of relevance for damage assessment.

报告人简介



朱露培

ZHU Lupei

教授, 圣路易斯大学

特邀报告：在 Wabash Valley 地震带中检测采矿爆炸并模拟其地壳结构的波形

Detecting mining blasts and modeling their waveforms for crustal structure in the Wabash Valley Seismic Zone

时 间：17:10-17:35, 3 July

Lupei Zhu is currently a Professor of Geophysics at Department of Earth and Atmospheric Sciences of Saint Louis University (SLU) in Missouri, USA. He got his Ph.D. at Caltech in 1998 under the supervision of Professor Don Helmberger. He then did his post-doctoral research at University of Southern California and Caltech before joining SLU as an assistant professor in 2001. He is the recipient of the F. Bach Leighton Fellowship in geophysics at Caltech in 1996, Citation of the SLU President and Dean of the Graduate School for excellent in research in 2005 and was appointed as a fellow of Research Institute of SLU in 2022. His webpage can be found at <https://www.eas.slu.edu/People/LZhu/home.html>.

报告人简介



郑永飞

ZHENG Yongfei

教授, 中国科学技术大学

特邀报告：俯冲带地球化学

Subduction zone geochemistry

时 间：08:30-08:55, 4 July

郑永飞, 地球化学家, 中国科学院院士, 第三世界科学院院士, 中国科学技术大学地球化学与行星科学系教授, 中国科学院壳幔物质与环境重点实验室主任, 中国矿物岩石地球化学学会副理事长, 《中国科学: 地球科学》主编。中国科学院“百人计划”首批入选者, “国家杰出青年科学基金”首批获资助者。先后获中国青年科技奖、中国青年科学家奖、国家自然科学基金二等奖, 何梁何利科技进步奖、获长江学者成就奖、教育部自然科学奖一等奖, 先后当选美国矿物学会 (MSA) 会士、美国地球化学学会 (GS) / 欧洲地球化学学会 (EAG) 联合会士。作为责任作者在国际SCI刊物上发表论文220余篇, 部分论文已经被Nature和Science等国际SCI刊物他人引用18000余次 (ISI论文引用排名榜进入世界地球科学家前100名)。长期从事同位素地球化学与化学地球动力学研究。在板块俯冲带地球化学与化学地球动力学、同位素体系理论模式及其地球化学应用、矿物同位素分馏系数理论计算和实验测定等方面取得了系统创新性重要成果。

报告人简介



詹红兵

ZHAN Hongbin

教授, 德州农工大学

特邀报告: 地热能储存和回收的水文控制

Hydrological controls of geothermal
energy storage and recovery

时 间: 08:55-09:20, 4 July (Online)

Dr. Hongbin Zhan (詹红兵) is a Professor of Geology and Geophysics, Professor of Water Management and Hydrological Science, Professor of Energy Institute at Texas A&M University (TAMU). He is the Holder of Endowed Dudley J. Hughes Chair in Geology and Geophysics at TAMU. His teaching and research interests are in fundamental processes of groundwater hydrology, chemical and heat transport in geological formations and their applications in water resources and geothermal resource management, and geological, environmental, and petroleum engineering. He has published more than 321 peer-reviewed articles in his specialty with a google scholar citation of 7200. He has graduated 54 graduate students (38 PhD and 16 MS) and has supervised 25 visiting scholars and postdoctoral scientists. He was the recipient of Distinguished Achievement Award in Faculty Teaching (2009) and Distinguished Achievement Award in Faculty Research (2016) from College of Geosciences at TAMU. He is an elected Fellow of Geological Society of America (2006).

报告人简介



邓保林

DENG Baolin

教授, 密苏里大学

特邀报告: 铬生物地球化学转化

Chromium Biogeochemical Transformation

时 间: 09:20-09:45, 4 July (Online)

Dr. Baolin Deng is William A. Davidson Professor in the University of Missouri (MU) and Co-Director, Missouri Water Center. His research concerns with low-temperature geochemical processes, kinetics and mechanism of contaminant transformation in aquatic systems, and water treatment. He has been PI/co-PI for over three dozen research projects including the NSF CAREER award and published over 130 journal articles and book chapters. He is the Asian regional editor for the AEEESP journal - Environmental Engineering Science and served on the Science Advisory Board Drinking Water Committees of the US Environmental Protection Agency.

报告人简介



张 劲

ZHANG Jing

教授, 富山大学

**特邀报告: 使用放射性铯同位素量化西太平洋边界流
区副热带模态水的水贡献及相关的等密度
/跨密度水混合**

Water Contribution of Subtropical Mode
Water and Related Isopycnal/Diopycnal
Water Mixing in the Western Pacific
Boundary Current Area Using Radiocesium

时 间: 09:45-10:10, 4 July (Online)

张劲教授的研究方向为化学海洋学和环境地球化学。她在东京大学获得硕士和博士学位, 并在国立放射线研究所进行了博士后研究。她于1998年入职富山大学, 自2008年起担任教授。张劲的研究兴趣旨在通过分析痕量元素和同位素组成, 阐明水圈中物质的起源、分布和循环机制, 以及与全球环境变化的关联。她研究边缘海与开阔大洋之间物质的输运与相互作用; 海底地下水排放和浅层热液系统; 与全球气候变化相关的海洋环流; 人为物质的来源和长期输运; 以及化学合成群落 (如微生物和冷泉以及气体/油泄漏区) 的形成机制。

张劲教授长期工作在海洋科考的第一线, 累积出海超过 1500 天, 使用有人/无人深潜器和 ROVs 超过 20 次, 担任过数十次科考航次的首席科学家。以第一作者和合作作者身份发表学术论文 140 余篇, 其他著作 60 篇。她于 2018 年获得日本海洋学会颁发的海洋环境科学奖, 以及 2020 年的海洋化学奖。她在多个国际科学机构中担任各种职务。

报告人简介



郑 旺

ZHENG Wang

教授, 天津大学

**特邀报告: 汞同位素指示古海洋氧化还原状态的机理
和应用**

The Mechanism and Application of
Mercury Isotopes Indicates the Redox
State of the Paleo-Ocean

时 间: 10:30-10:55, 4 July

郑旺, 天津大学地球系统科学学院, 教授, 博士生导师。本科毕业于中国科学技术大学, 博士毕业于加拿大特伦特大学, 先后在美国橡树岭国家实验室、加拿大多伦多大学和美国亚利桑那州立大学担任博士后和助理研究员。2018年入选天津大学“北洋学者”英才计划长聘教授。入选国家“万人计划”青年拔尖人才, 获第18届“侯德封矿物岩石地球化学青年科学家奖”、国际地球化学协会(IAGC)新锐科学家奖 (Emerging Investigator), 以及天津市科学技术奖自然科学一等奖 (排名 6/10)。主要研究方向为金属稳定同位素环境地球化学, 重点研究汞同位素分馏机理、环境重金属污染的同位素示踪, 以及利用汞等金属同位素重建古环境和生命演化。已在PNAS、Nature Geoscience、Nature Communications、EPSL、GCA、ES&T等地球科学高水平期刊发表论文60余篇, 引用近3000次。

报告人简介



颜备战

YAN Beizhan

副教授, 哥伦比亚大学

特邀报告: 纽约市水道中微塑料及相关病原体和污染物的分布

Distribution of microplastics and associated pathogens and pollutants in New York City waterways

时 间: 10:55-11:20, 4 July (Online)

Dr. Beizhan Yan received his Ph.D. in 2004 from Rensselaer Polytechnic Institute (RPI), Troy, NY and currently, he is a Lamont Associate Research Professor at Lamont-Doherty Earth Observatory (LDEO) of Columbia University. In 2007, he joined LDEO, and since then, he has established an Environmental Organic Geochemistry Lab from scratch with the ability to extract, isolate, and identify organic contaminants and biomarkers from environmental and biological samples. He is leading collaborative studies in measuring the microplastic and nanoplastics in NYC waterways and air and characterizing their exposures, and linking exposures to various adverse health outcomes, including neurodegeneration diseases.

报告人简介



许天福

XU Tianfu

教授, 吉林大学

特邀报告: 反应溶质运移数值模拟在CO₂地质封存与资源化利用中的应用

Application of Numerical Simulation of Reactive Solute Transport in CO₂ Geological Storage and Resource Utilization

时 间: 11:20-11:45, 4 July (Online)

许天福, 吉林大学教授。1984年获长春地质学院水文地质专业学士学位, 1993年获荷兰Delft国际水文和环境学院硕士学位, 1996年获西班牙La Coruña大学博士学位。长期从事多相流反应溶质运移数值模拟、地热能开发、CO₂地质封存等研究和开发工作。发表SCI论文140余篇, 2014年以来连续入选爱斯维尔中国高被引学者。报告将涉及多相流体流动和反应溶质运移数值模拟理论、程序开发, 及封存能力和安全评价的应用案例。

报告人简介



孙 静

SUN Jing

研究员, 中科院地化所

特邀报告: 天然矿物相转变驱动的地下水质量变化研究

Impacts of Mineral Transformation on
Groundwater Quality

时 间: 14:00-14:25, 4 July

孙静, 中国科学院地球化学研究所研究员、博导; 入选中科院“百人计划”, 获国家自然科学基金优秀青年科学基金(海外)资助; 曾获“侯德封矿物岩石地球化学青年科学家奖”, 任“中国科协青年科学家论坛”执行主席; 迄今共发表学术论文50余篇, 其中第一/通讯作者论文20篇; 现任Frontiers in Water、Solid Earth Sciences副主编,《地质科技通报》编委等。

报告人简介



胡钦红

HU Qinhong

讲席教授, 中国石油大学(华东)

特邀报告: 美国能源独立与碳中和之路: (纳米)岩石物理研究的参与

American pathways to energy independence
and carbon neutrality: Contributions from
(nano)petrophysical studies

时 间: 14:50-15:15, 4 July

胡钦红, 中国石油大学(华东)讲席教授, 美国地质协会(2013)和美国科学促进会(2020)会士,《Marine and Petroleum Geology》主编(2017-2025), 荣获美国德州大学阿灵顿分校“杰出学者学院”院士与学校杰出教授(2022)及“2020年度杰出研究成就奖”(2021)、美国政府“富布赖特全球学者奖”(2021)、美国石油地质学家协会“杰出教育家奖”(2018)等 22个奖项, 已在国际主流刊物上发表219篇SCI收录论文, “最近6年H指数创造力榜单”全球科学家排名前2.3%。

报告人简介



张传伦

ZHANG Chuanlun

国家特聘教授, 南方科技大学

特邀报告: 古菌地球生物学

Geobiology of Archaea

时 间: 16:45-17:10, 4 July (Online)

张传伦, 南方科技大学海洋与工程系讲座教授和国家特聘教授 (2012-), 2019创立了“深圳海洋地球古菌组学重点实验室”, 在国际地球科学和生命科学期刊上 (包括“Science”、“PNAS”、“Nat. Ecol. Evol.”、“Mol. Biol. Evol.”、“Geology”、“Geochim. Cosmochim. Acta”、“ISME J”、“Environ. Microbiol.”) 发表学术论文300余篇, Google Scholar引用次数超过11200次, H-index为61。目前担任欧洲“微生物前沿-古菌生物学 (Frontiers in Microbiology-Biology of Archaea)”期刊主编, “古菌 (Archaea)”和“中国科学: 地球科学”期刊编委。

报告人简介



秦礼萍

QIN Liping

教授, 中国科学技术大学

特邀报告: 铬同位素对古环境的指示

The Application of Cr isotopes to trace the paleo-environment

时 间: 17:10-17:35, 4 July

中国科学技术大学地球和空间科学学院地化专业教授。2001 年本科毕业于中国科学技术大学地球和空间科学系, 2007年于美国芝加哥大学地球物理系取得博士学位。2007 - 2012年期间分别得到美国卡耐基研究所和劳伦斯伯克利国家实验室博士后奖学金从事博士后研究工作。现任中国科学技术大学地球和空间科学学院教授、博导。自2004年以来, 秦礼萍博士主要致力于同位素地球化学和宇宙化学的研究。专长是建立和发展非传统同位素体系并实现高精度的同位素分析。

I 报告人简介



蔡平河

CAI Pinghe

教授, 厦门大学

特邀报告: 北太平洋深海海底自生碳酸钙的形成

Formation of authigenic calcium carbonate on the deep North Pacific Ocean floor

时 间: 17:35-18:00, 4 July

Dr. Pinghe Cai is a professor of Chemical Oceanography in the School of Ocean and Earth Sciences at Xiamen University. His research mainly focuses on the geochemistry of naturally occurring radioisotopes in the Uranium- and Thorium-decay chains, the ocean's biological pump, carbon removal and burial in the modern ocean, sediment-water interactions, and the early sedimentary diagenesis. In 2012, His research team developed a novel $^{224}\text{Ra}/^{228}\text{Th}$ disequilibrium approach that has been widely used to quantify solute exchange at the sediment-water boundary in the coastal ocean. Most recently, he and his co-worker has developed a novel $^{226}\text{Ra}/^{230}\text{Th}$ technique, by which they unveiled a new geochemical pathway for carbon burial on the deep ocean floor.