



水安全与可持续发展国际高端论坛
International Forum on Water Security & Sustainability

WELCOME TO NANJING

欢迎来南京

<https://estds.yicode.ac>

ABOUT THE FORUM

关于论坛

ABOUT THE FORUM

Background

Water lies at the heart of life and well-being, yet it is a finite resource which is quickly outpaced by the global demand in rapid growth. The UN-SDG 6 aims at "availability and sustainable management of water and sanitation for all", prioritizing the importance of water security and sustainability in the societal and environmental welfare. However, such welfare is challenged by the current water availability. On a global scale, more than two billion people live in countries experiencing high water stress. In China, 30% of its land area is suffering from high or extremely high-water stress. About two thirds of Chinese cities are having problems sustaining sufficient water supply. Therefore, properly managed water has a major stake in the future. Global changes are bringing immensely profound impacts to the earth system and hence the future.

Under a warming climate, extreme events like floods and droughts are staged at an increased intensity and frequency. The rising sea level poses major threat of coastal flooding, and impacts estuary systems drastically. These changes also stagger the ecological systems with symptoms such as biodiversity loss and rapid degradation. The success and resilience of water management is highly dependent on our technical innovations and institutional capacities. We need to change our ways of thinking, living and managing to adapt to such global changes.

In 2015 and 2017, two Forums on water security and sustainability have been held in Nanjing, attracting attention of researchers both in China and around the world. Hence, YICODE, HHU and NHRI, sponsored by the Chinese Academy of Engineering, are proudly announcing the 3rd Forum of the series in 2020 to continue our discussion on water security and sustainability. We sincerely hope this could provide an open, frank, productive and multi-disciplinary forum for researchers and practitioners in the field. Researchers and practitioners around the globe are welcome to take part in the three-day discussion from cross-cutting perspectives.

About ESTDS Forums

The Water Security and Sustainability Forum is one of the International Top-level Forums on Engineering Science and Technology Development Strategy (ESTDS) sponsored by the Chinese Academy of Engineering. The ESTDS Forums of the Chinese Academy of Engineering could date back to 2011 when the Academy started to vision the future development of engineering science in the upcoming 20 years and even further through strategic discussions and studies. ESTDS Forums are best-known for their inter-disciplinary and international ways of thinking. They try to break disciplinary boundaries for synergy in innovation and bridge the physical distances between world's leading experts for international cooperation. ESTDS Forums focus on themes that are macro-scale, strategically significant, and forward-looking.

Topics

- Integrated River Basin Management
- Climate Change and Risks
- Aquatic Ecology and Water Engineering
- Water resources protection and development

Sponsors

- Chinese Academy of Engineering
- Chine Three Gorges Corporation
- Chinese Hydraulic Engineering Society
- Jiangsu Development and Reform Commission (Yangtze Economic Belt Development Office)

Hosts

- CAE Division of Civil, Hydraulic and Architectural Engineering
- Yangtze Institute for Conservation and Development
- Hohai University
- Nanjing Hydraulic Research Institute
- State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering
- State Key Laboratory of High-Performance Civil Engineering Materials
- JRC Water Science and Water Engineering
- MWR Research Center for Climate Change
- National Engineering Research Center for Water Resources Efficient Utilization and Engineering Safety

Partners

- UNESCO-IHP
- International Association of Hydrological Sciences
- International Association for Hydro-Environment Engineering and Research
- Key Lab of Flood and Drought Hazard Control of MWR
- Key Lab of Reservoir and Dam Safety of MWR
- International Joint Lab of Global Changes and Water Circle, Ministry of Education
- National Cooperative Innovation Center for Water Safety & Hydro Science
- Nanjing Bo Ke New Material Industry Research Institute

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关于论坛

背景

水是生命之源、生产之要、生态之基，但是这一有限的资源正在快速地被全球迅猛增长的需求超越。联合国可持续发展目标（UN-SDG）第6项内容希望“为所有人提供水和环境卫生并对其进行可持续管理”，强调了水安全与可持续发展在社会与环境健康中的重要性。然而，全球目前的水资源现状正挑战这一目标。在全球范围内，20亿以上的人口生活在存在水资源短缺的国家。在中国，30%的区域内正在经历重度甚至极度的缺水，大约三分之二的城市存在用水困难的情况。如何管理好水资源，提升水资源的保障能力对于未来具有非常重要的战略意义。

全球变化正在给地球系统带来极其深远的影响。全球变暖背景下，流域暴雨洪水、城市洪涝、大范围持续性干旱等极端事件趋多增强，海平面上升给沿海地区防洪带来新的挑战，同时对河口和海岸带的生态系统带来严重影响。这些变化导致流域生态系统的恶化，表现出多样性损失和退化加速等症状。加强流域综合管理，增强流域系统的韧性，保障流域水安全保障，支撑经济社会可持续发展，极大程度上依赖我们的科学技术创新及体制能力建设，也需要我们考虑调整我们的思考、生活和管理的方式，以适应和应对全球变化及其带来的新挑战。

在2015、2017年成功举办两届水安全与可持续发展国际高端论坛的基础上，经中国工程院批准，由长江保护与绿色发展研究院（YICODE）、河海大学（HHU）和水利部 交通运输部 国家能源局 南京水利科学研究院（NHRI）共同举办的第三届“水安全与可持续发展国际高端论坛”将于2021年继续在南京举办。我们诚挚地希望论坛可以成为水管理领域的学者、科技工作者以及决策者、实践者之间开展开放、坦诚、有效、跨学科交流的平台。真诚地欢迎来自世界各地的从业者参加为期三天的讨论，带来更多视角的观点。

关于ESTDS论坛

“水安全与可持续发展高端论坛”是中国工程院“国际工程科技发展战略（ESTDS）高端论坛”的系列论坛。ESTDS论坛始于2011年，工程院希望通过战略性的讨论及研究，展望并规划未来20年及更长远的工程科技发展前景。ESTDS论坛具有鲜明的跨学科、国际化特征。论坛希望打破学科壁垒、形成协同创新，注重学科间的交叉融合；同时注重促进跨越物理距离的国际交流，增进全球顶级层次的国际合作。论坛的主题具有宏观性、战略性、前瞻性三大显著特点。

议题

- 流域综合管理
- 气候变化与风险
- 水生态与水工程
- 水资源保护与利用

主办

- 中国工程院
- 中国长江三峡集团有限公司
- 中国水利学会
- 江苏省发展和改革委员会（长江办）

承办

- 中国工程院土木、水利与建筑工程学部
- 长江保护与绿色发展研究院
- 河海大学
- 水利部交通运输部国家能源局南京水利科学研究院
- 水文水资源与水利工程科学国家重点实验室
- 高性能土木工程材料国家重点实验室
- 水科学与水工程国际联合研究中心
- 水利部应对气候变化研究中心
- 水资源高效利用与工程安全国家工程研究中心

协办

- 国际水文科学协会
- 国际水利与环境工程学会
- 水利部水旱灾害防御重点实验室
- 水利部水库大坝安全重点实验室
- 教育部全球变化与水循环国际联合实验室
- 水安全与水科学省部共建协同创新中心
- 南京博科新材料产业研究院

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PROGRAMME OVERVIEW

日程概览

PROGRAMME OVERVIEW

21 April

11:00-23:00
Registration

18:00-21:00
Dinner

22 April

08:30-09:00
Opening

09:00-12:00
Integrated River Basin Management (Plenary session)

12:00-14:00
Lunch

14:00-17:40
Climate change and risks (Plenary session)

18:00-21:00
Dinner

23 April

08:30-11:50
Aquatic ecology and water engineering (Plenary session)

11:50-14:00
Lunch

14:00-17:00
Water resource protection & development (Plenary session)

17:00-21:00
Dinner

24 April

09:00-12:00
Parallel & special sessions

Floors:

2F

60F

日程概览

4月 21 日

4月 22 日

4月 23 日

4月 24 日

11:00-23:00 注册报到

08:30-09:00 开幕式
09:00-12:00 流域综合管理 (全体会议)
12:00-14:00 午餐
18:00-21:00 晚餐

08:30-11:50 水生态与水工程 (全体会议)
11:50-14:00 午餐
14:00-17:00 水资源保护与利用 (全体会议)
17:00-21:00 晚餐

09:00-12:00 并行分会 特别分会

楼层说明：

2 楼
60 楼

PLENARY SESSIONS

全体会议

PLENARY SESSIONS

22 APRIL

08:30 Opening

Moderator

- **Hui Xu**, Prof
President of Hohai University

Opening speech

- **Jianyun Zhang**, Member of the Chinese Academy of Engineering, International Fellow of the British Royal Academy of Engineering
President of Yangtze Institute for Conservation and Development; Honorary President of Nanjing Hydraulic Research Institute; Chair of Organising Committee

Welcome speeches

- **Xianzhang Pan** Vice Governor
Jiangsu Provincial People's Government
- **Yaohui An**, Department Director
Chinese Academy of Engineering
- **Shengshui Chen**, Professor
President of Nanjing Hydraulic Research Institute

09:00 Integrated river basin management

Sub-topics of this session includes but not limited to:

- River Basin Sustainability
- Institutions
- Eco-compensation
- Modern Water Governance

Moderators

- **Shenglian Guo**, Prof
Wuhan University; Former Vice Governor of Hubei Province;
- **Yun Li**, Prof
Vice President of Nanjing Hydraulic Research Institute; Vice President of Yangtze Institute for Conservation and Development

09:00

Clean Energy and Ecology, the Two Wings for Water Security of the Yangtze

River

- **Mingshan Lei**, Chairman
China Three Gorges Corporation

09:30

The Yangtze Protection Law

- **Yong Jiao**, Dr
NPC Standing Committee Member; Former Vice Minister of Water Resources of China; Member of the Academic Committee of Yangtze Institute for Conservation and Development

10:00

Photo and tea break

Please remain seated and keep still for group photo

10:20

Planning for water security in the Fourteenth Fiver Year Plan

- **Annan Wang**, Chief Planner
Ministry of Water Resources of the People's Republic of China

10:50

Coordinated operation of the reservoir cascade on the Yangtze during the 2020 flood

- **Zhiyu Zhong**, Chief Engineer
Changjiang Water Resources Commission

11:20

Panel discussion

- **Zhenglin Lyu**, Former DG
Jiangsu Provincial Water Department; Chair of the Academic Committee of Yangtze Institute for Conservation and Development
- **Xiaotao Cheng**, Prof
China Institute of Water Resources and Hydropower Research
- And plenary speakers of this session

12:00

Lunch break

14:00

Climate Change and Risks

Sub-topics of this session include but are not limited to:

- Climate Change and Projections
- Extreme Climatic Events
- Scenarios and Uncertainties
- Climate Change Impacts and Adaptation
- Flood Monitoring, Forecasting an Early Warning
- Urban Flood Management and Sponge City

-
- Use of Flood Water as Resource
 - Decision Making and Risk Management

Moderators

- **Minjiang Deng**, Prof,
Xinjiang Irtysh River Basin Development Project Construction and Management Bureau
- **Xiaotao Cheng**, Prof,
China Institute of Water Resources and Hydropower Research

14:00

Climate Change and associated water risks – the global picture

- **Johannes Cullmann**, Director (online)
World Meteorological Organization

14:20

An analysis of causes of the record-breaking flooding in the Yangtze river in 2020 and related risk assessment

- **Yihui Ding**, Prof
China meteorological administration, National Climate Center

14:40

Unraveling the causes of excess lead in drinking water supply systems of densely populated high-rise buildings in Hong Kong

- **Jeseph Lee**, Fellow of the British Royal Academy of Engineering
Macau University of Science and Technology; President of International Association for Hydro-Environment Engineering and Research

15:00

Addressing challenge in the study of Tibetan plateau hydrologic cycle under climate change

- **Zhongbo Yu**, Prof
Hohai University; Yangtze Institute for Conservation and Development

15:20

Tea break

15:40

Global river runoff change induced by human activities and climate change

- **Guoqing Wang**, Prof
Nanjing Hydraulic Research Institute

16:00

Global Water Security and Sustainability: Integrated Hydro-epidemiological Management

- **Roger Falconer**, Fellow of the Brith Royal Academy of Engineering, International Fellow of the Chinese Academy of Engineering (online)
Chair Professor of Yangtze Institute for Conservation and Development; Emeritus Professor of Cardiff University

16:20 **Sustainable Water Resources Management Under Socio-economic and Climatic Change**

- **Enda O'Connell**, Fellow of the British Royal Academy of Engineering(online)
Professor of Newcastle University

16:40 **Coupled human-natural systems analysis of water security and sustainability: from transboundary competition to climate change in Jordan**

- **Steven M. Gorelick**, Fellow of the US National Academy of Engineering (online)
Professor of Stanford University

17:00 **Panel discussion**

- **Shenglian Guo**, Prof
Wuhan University; Former Vice Governor of Hubei Province
- **Zongxue Xu**, Prof
Beijing Normal University
- **Liliang Ren**, Prof
Hohai University
- **Fuqiang Tian**, Prof
Tsinghua University
- And plenary speakers of this session

全体会议

4月 22 日

08:30 开幕式

主持人

- 徐辉 教授
河海大学校长

开幕词

- 张建云 中国工程院院士、英国皇家工程院外籍院士
长江保护与绿色发展研究院院长；南京水利科学研究院名誉院长；论坛组委会主席

欢迎词

- 潘贤掌 副省长
江苏省人民政府
- 安耀辉 一级巡视员
中国工程院
- 陈生水 教授级高工
南京水利科学研究院院长

09:00 流域综合管理

这一单元的子话题包括但不限于：

- 保护与发展协同
- 法律与政策保障
- 生态补偿理论与实践
- 现代水治理

主持人

- 郭生练 挪威工程院院士
武汉大学教授；湖北省原副省长；湖北省科协主席
- 李云 教授级高工
南京水利科学研究院副院长；长江保护与绿色发展研究院副院长

09:00 两翼齐飞战略 助力长江水安全

- 雷鸣山 董事长
中国长江三峡集团有限公司

09:30

学好用好长江保护法

- 矫勇 教授级高工

全国人大常委；中华人民共和国水利部原副部长；长江保护与绿色发展研究院学术委员会主任委员

10:00

合影、茶歇

合影时请在原本就坐的座位坐定，请勿走动

10:20

“十四五”水安全保障规划问题

- 汪安南 教授级高工

中华人民共和国水利部总规划师

10:50

2020年长江洪水和水库群联合调度

- 仲志余 教授级高工

水利部长江水利委员会总工程师

11:20

小组讨论

- 吕振霖 教授级高工

江苏省人大原秘书长；长江保护与绿色发展研究院学术委员会委员

- 程晓陶 教授级高工

中国水利水电科学研究院

- 本单元报告人

12:00

午餐和休息

14:00

气候变化与风险管理

这一单元的子话题包括但不限于：

- 气候变化及其趋势预测

- 气候极端事件

- 变化情景及不确定性

- 气候变化影响及其对策

- 洪涝灾害监测与预警预报

- 城市洪涝防治与海绵城市

- 洪水资源化利用

- 调度决策与风险管理

主持人

- 邓铭江 中国工程院院士

新疆额尔齐斯河流域开发建设管理局

- 程晓陶 教授级高工

中国水利水电科学研究院

14:00	全球视角下的气候变化与水风险
	○ Johannes Cullmann 博士（线上） 世界气象组织水与冰冻圈综合协调司司长
14:20	2020 年长江流域特大洪涝事件的成因分析与风险评估
	○ 丁一汇 中国工程院院士（线上） 国家气候中心
14:40	香港「铅水事件」和公共健康的跨学科研究
	○ 李行伟 英国皇家工程院院士 澳门科技大学校长；国际水利与环境工程学会主席；香港研究资助局主席
15:00	气候变化背景下青藏高原水文循环研究的挑战
	○ 余钟波 教授 河海大学；长江保护与绿色发展研究院；水文水资源与水利工程科学国家重点实验室主任
15:20	茶歇
15:40	人类活动和气候变化对全球河流径流造成的影响
	○ 王国庆 教授级高工 南京水利科学研究院；长江保护与绿色发展研究院；水利部应对气候变化研究中心总工
16:00	全球水安全和可持续发展：水资源与流行病传播的综合管理
	○ Roger Falconer 英国皇家工程院院士、中国工程院外籍院士（线上） 长江保护与绿色发展研究院讲席教授；英国卡迪夫大学荣誉教授
16:20	社会经济以及气候变化背景下的水资源可持续管理
	○ Enda O'Connell 英国皇家工程院院士（线上） 英国纽卡斯尔大学
16:40	人类及自然系统综合视角下的水安全与可持续发展：约旦的跨境水资源竞争和气候变化
	○ Steven M. Gorelick 美国工程院院士（线上） 美国斯坦福大学
17:00	小组讨论
	○ 郭生练 挪威工程院外籍院士 武汉大学教授；湖北省人民政府原副省长；湖北省科协主席
	○ 徐宗学 教授 北京师范大学
	○ 田富强 教授

清华大学

○ 任立良 教授

河海大学

○ 本单元报告人

PLENARY SESSIONS

23 APRIL

08:30

Water Ecology and Water Engineering

Sub-topics of this session include but are not limited to:

- Aquatic Environment Protection and Improvement
- Ecological Protection and Restoration
- Eco-friendly Water Engineering
- Health Assessment of Rivers and Lakes
- Resilience of Water Infrastructures

Moderators

- **Huajun Li**, Member of the Chinese Academy of Engineering
Vice President of Ocean University of China
- **Jinhai Zheng**, Prof
Vice President of Hoha University; Vice President of Yangtze Institute for Conservation and Development

08:30

Lakes in a multiple-stressor world: Algal blooms on a warming planet

- **John Smol**, Fellow of the British Royal Society (online)
Professor of Queen's University

08:50

Environmental Intelligence: large-scale ecosystem management in an increasingly complex and dynamic environment

- **Peter Goodwin**, Prof (online)
University of Maryland

09:10

The key technology and application of hydraulic ship lift

- **Hongqi Ma**, Member of the Chinese Academy of Engineering
Huaneng Lancang River Hydropower inc.

09:30

The development of environment-friendly eco-concrete technology

- **Changwen Miao**, Member of the Chinese Academy of Engineering
Professor of Southeast University; Chair of Jiangsu Building Materials Research and Design Institute Co., Ltd.

09:50

Tea break

10:10

Practice and exploration of aquatic ecology engineering in the middle and

	lower reaches of Yangtze River
10:30	<ul style="list-style-type: none"> ○ Xinqiang Niu, Member of the Chinese Academy of Engineering President of Changjiang Survey, Planning, Design and Research Institute
	Some new findings of eco-environmental effects of river damming
10:50	<ul style="list-style-type: none"> ○ Qiuwen Chen, Prof Nanjing Hydraulic Research Institute; Yangtze Institute for Conservation and Development
	Smart Lakes initiatives to ensure water security in the North American Great Lakes
11:10	<ul style="list-style-type: none"> ○ Michael McKay, Dr (online) Great Lakes Institute for Environmental Research at University of Windsor
	Panel discussion
	<ul style="list-style-type: none"> ○ Qingzhong You, Former DG Jiangsu Provincial Department of Transport ○ Yun Li, Prof Vice President of Nanjing Hydraulic Research Institute; Vice President of Yangtze Institute for Conservation and Development ○ Zulin Hua, Prof Hohai University ○ And plenary speakers of this session
11:50	Lunch break
14:00	Water Resources Protection & Development
	Sub-topics of this session include but are not limited to:
	<ul style="list-style-type: none"> ○ Efficient Utilization of Water Resources ○ Water Saving Theory and Technology ○ Optimal Allocation of Water Resources ○ Unconventional Water Resources Utilization and Risk Control ○ Groundwater Protection and Sustainable Development
	Moderators
	<ul style="list-style-type: none"> ○ Renzhong Guo, Fellow of the Chinese Academy of Engineering Professor of Shenzhen University ○ Jianhua Wang, Prof Vice President of China Institute of Water Resources and Hydropower Research

14:00	Urban land use impact on source water quality: emerging challenges
	<ul style="list-style-type: none"> ○ Kumud Acharya, Prof (online) President of Desert Research Institute
14:20	Centennial trends of water-sand evolution and balance in Yellow River basin
	<ul style="list-style-type: none"> ○ Chunhong Hu, Fellow of the Chinese Academy of Engineering Vice President of China Institute of Water Resources and Hydropower Research
14:40	Mitigating Harmful Cyanobacterial Blooms in a Hotter, Hydrologically More Extreme World
	<ul style="list-style-type: none"> ○ Hans Paerl, Prof University of North Carolina
15:00	Tea break
15:20	Water adaptive agriculture and smart agriculture with high water utilization efficiency
	<ul style="list-style-type: none"> ○ Shaozhong Kang, Fellow of the Chinese Academy of Engineering Professor of China Agricultural University
15:40	Returning flow to the Murray-Darling – how it may be affected by water saving projects and groundwater sustainable diversion limits?
	<ul style="list-style-type: none"> ○ Quanjun Wang, Prof (online) University of Melbourne
16:00	ICT technologies and innovation for sustainable water management and improving water productivity
	<ul style="list-style-type: none"> ○ Amgad Elmahdi, Dr MENA Region- International Water Management Institute
16:20	Panel discussion
	<ul style="list-style-type: none"> ○ Ming Xu, Former Vice Governor Jiangsu Provincial Government; Vice Chair of the Consultative Committee of Yangtze Institute for Conservation and Development ○ Chunmiao Zheng, Prof Southern University of Science and Technology ○ Bing Zhang, Prof Vice President of Hohai University; Vice President of Yangtze Institute for Conservation and

Development

- **Shiqiang Wu, Prof**

Vice President of Nanjing Hydraulic Research Institute; Yangtze Institute for Conservation and Development

- And plenary speakers of this session

全体会议

4月 23 日

08:30 水生态与水工程

这一单元的子话题包括但不限于：

- 流域水环境保护与提升
- 生态保护与修复
- 生态水利工程
- 河流湖泊健康评价
- 水工程安全与韧性

主持人

- 李华军 中国工程院院士
中国海洋大学副校长
- 郑金海 教授
河海大学副校长；长江保护与绿色发展研究院副院长

08:30 多重压力因素下的湖泊：地球变暖下的藻类爆发

- John Smol 英国皇家学会院士（线上）
加拿大女王大学

08:50 环境智能：环境复杂性、不稳定性日趋增加下的大型生态系统管理

- Peter Goodwin 教授（线上）
美国马里兰大学；国际水利与环境工程学会前主席

09:10 水力式升船机关键技术及应用

- 马洪琪 中国工程院院士
华能澜沧江水电股份有限公司

09:30 环境友好生态混凝土技术的发展

- 缪昌文 中国工程院院士
东南大学教授；江苏省建筑科学研究院有限公司董事长

09:50 茶歇

10:10 长江中下游水生态工程探索与实践

- 钮新强 中国工程院院士
长江勘测规划设计研究院院长

- 10:30 河流建坝生态环境效应几点新认识
○ 陈求稳 研究员
南京水利科学研究院；长江保护与绿色发展研究院
- 10:50 北美五大湖区水安全保障：智能湖泊
○ Michael McKay 博士（线上）
加拿大温莎大学大湖环境研究所
- 11:10 小组讨论专家
○ 游庆仲 教授级高工
江苏省交通运输厅
○ 李 云 教授级高工
南京水利科学研究院副院长；长江保护与绿色发展研究院副院长
○ 华祖林 教授
河海大学；长江保护与绿色发展研究院
○ 本单元报告人

11:50 午餐和休息

14:00 水资源利用与保护

这一单元的子话题包括但不限于：

- 水资源高效利用
- 节水理论与技术
- 水资源优化配置
- 非常规水资源利用与风险调控
- 地下水保护与可持续开发

主持人

- 郭仁忠 中国工程院院士
深圳大学
- 王建华 教授级高工
中国水利水电科学研究院副院长

14:00 城市土地利用对水源地水质的影响及新挑战

- Kumud Acharya 教授（线上）
美国沙漠研究院

14:20 百年尺度黄河水沙演变与流域水沙平衡

- 胡春宏 中国工程院院士
中国水利水电科学研究院副院长

14:40

全球气候变暖、水文极端情形增加下如何应对蓝藻水华问题

- Hans Paerl 教授（线上）
美国北卡罗来纳大学

15:00

茶歇

15:20

农业适水发展与智慧高水效农业

- 康绍忠 中国工程院院士（线上）
中国农业大学

15:40

墨累-达令河的回流问题：节水以及地下水可持续开发限额对此的影响

- Quanjun Wang 教授（线上）
澳大利亚墨尔本大学

16:00

提升水资源可持续管理以及产出能力中的信息技术和创新

- Amgad ELmahdi 博士（线上）
国际水资源管理研究院中东和北非分院

16:20

小组讨论

- 徐鸣 原副省长
江苏省人民政府；长江保护与绿色发展研究院咨询委员会副主任
- 郑春苗 教授
南方科技大学；美国地球物理联合会会士
- 张兵 教授
河海大学总会计师；长江保护与绿色发展研究院副院长
- 吴时强 教授级高工
南京水利科学研究院副院长；长江保护与绿色发展研究院
- 本单元报告人

PARALLEL SESSIONS

并行分会

PARALLEL SESSIONS

24 APRIL

09:00 **Integrated river basin management**

Sub-topics of this session includes but not limited to:

- River Basin Sustainability
- Institutions
- Eco-compensation
- Modern Water Governance

Organisers

- **Junguo Liu**, Professor
Southern University of Science and Technology
- **Ke Zhang**, Professor
Hohai University; Yangtze Institute for Conservation and Development

09:00 **Advancing theoretical studies of vegetation-hydrological relations for sustainable watershed management and restoration**

- **Bai-Lian Larry Li**, Professor (online)
University of California, Riverside

09:15 **The role of integrated assessment and modelling in river basin management and water security**

- **Tony Jakeman**, Professor (online)
Australian National University

09:30 **Water Security for the Lancang-Mekong River Basin**

- **Junguo Liu**, Professor
Southern University of Science and Technology

09:45 **Challenges and Opportunities of Water Resources Management Facing in the Guangdong-Hong Kong-Macao Greater Bay Area, China**

- **Ji Chen**, Professor (online)
The University of Hong Kong

10:00 **Tea break**

- 10:20 **Effects of Permafrost Change in the Tibetan Plateau on Regional Water Resources and Carbon Budget**
- **Dawen Yang**, Prof
Tsinghua University
- 10:35 **Food Nexus for Basin-wide High-quality Development**
- **Humin Wang**, Professor (online)
Hohai University
- 10:50 **A Monitoring and Forecast System for Drought and Flood over China**
- **QiuHong Tang**, Professor (online)
Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- 11:05 **Integrated Management Strategy for the Yellow River Delta and its Ambient Sea Area**
- **Wanzhan Wang**, Prof
Yellow River Institute of Hydraulic Research
- 11:20 **Satellite-observed ecohydrological changes in Qinghai-Tibetan Plateau over the past four decades**
- **Ke Zhang**, Prof
Hohai University; Yangtze Institute for Conservation and Development
- 11:35 **Panel discussion**
- All participants

08:30

Climate change and risks

Sub-topics of this session include but are not limited to:

- Climate Change and Projections
- Extreme Climatic Events
- Scenarios and Uncertainties
- Climate Change Impacts and Adaptation
- Flood Monitoring, Forecasting an Early Warning
- Urban Flood Management and Sponge City
- Use of Flood Water as Resource
- Decision Making and Risk Management

Organisers

- **Zhongbo Yu**, Professor
Hohai University; Yangtze Institute for Conservation and Development; Director of State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering
- **Guoqing Wang**, Prof
Nanjing Hydraulic Research Institute; Yangtze Institute for Conservation and Development; Chief Engineer of the MWR Center on Climate Change

08:30

Welcome Speech

- **Zhongbo Yu**, Professor
Hohai University; Yangtze Institute for Conservation and Development; Director of State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering

08:40

Managing hydrological extremes in a changing climate and the need for national water information

- **Narendra Tuteja**, Professor
WP2C in WMO-HydroSOS, Bureau of Meteorology

09:00

An Evaporation Pan Based Study on Changes in Regional Hydrological Cycle of China

- **Lihua Xiong**, Professor
Wuhan University

09:20

Greenhouse gas emission from rivers in Tibet Plateau and its global importance

- **Xinghui Xia**, Professor
Beijing Normal University

09:40

Key problems in dealing with flood and drought hazards

- **Denghua Yan**, Professor

10:00	Tea break
10:20	How to reconcile climate and hydrological attributions for extremes? ○ Xing Yuan , Professor Nanjing University of Information Science & Technology
10:40	Impacts from Climate Change and Human Activities on Water Availability in the Yellow River Basin ○ Yueping Xu , Professor Zhejiang University
11:00	Assessing Climate Impact on Forest Cover and Runoff Change in a Humid Subtropical ○ Qinli Yang , Associate Professor University of Electronic Science and Technology of China
11:20	Response of global flood to different temperature rise conditions in the future ○ Jie Chen , Professor Wuhan University
11:40	Impacts of vegetation changes on regional and global evapotranspiration and related ecohydrological effects ○ Yongqiang Zhang , Professor Institute of Geographic Sciences and Natural Resources Research, CAS

09:00

Aquatic ecology and water engineering

Sub-topics of this session include but are not limited to:

- Aquatic Environment Protection and Improvement
- Ecological Protection and Restoration
- Eco-friendly Water Engineering
- Health Assessment of Rivers and Lakes
- Resilience of Water Infrastructures

Organized by

- **Qiuwen Chen**, Professor
Nanjing Hydraulic Research Institute; Yangtze Institute for Conservation and Development
- **Zulin Hua Professor**
Hohai University; Yangtze Institute for Conservation and Development

09:00

Mechanism of aeration and Numerical Simulation of high speed flow

- **Jianmin Zhang**, Prof
Sichuan University

09:20

Research progress of ecohydraulics

- **Yuhong Zeng**, Prof
Wuhan University

09:40

A Recent Trend of N:P stoichiometry in China's Freshwater Lakes and their Linkages with the Shifts in Anthropogenic Sources

- **Yindong Tong**, Associate Prof
Tianjin University

10:00

Tea break

10:20

Changes of Eco-hydrology process of Poyang Lake to river-lake relation: from 2003 to 2030

- **Xiaobo Liu**, Prof
China Institute of Water Resources and Hydropower

10:40

Changes of seawater invention situation in the Pearl River estuary and salinity reduction solutions

- **Fang Yang**, Prof
The Pearl River Hydraulic Research Institute

11:00

Environmental behaviors and effects of natural organic matters in aquatic

environments

- **Huacheng Xu**, Prof

Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences

11:20

**Rainfall-runoff Model Calibration for a Tributary of the Upper Yangtze River
Using Satellite Observations of River Water Surface Width**

- **Wenchao Sun**, Associate Prof

Beijing Normal University

11:40

**Long-term trend of intra-annual runoff uniformity and its effects on the
thermal structure in a large deep reservoir**

- **Wei He**, Prof

Hohai University

09:00

Water resource protection and development

Sub-topics of this session include but are not limited to:

- Efficient Utilization of Water Resources
- Water Saving Theory and Technology
- Optimal Allocation of Water Resources
- Unconventional Water Resources Utilization and Risk Control
- Groundwater Protection and Sustainable Development

Organisers

- **Chunmiao Zheng**, Prof
Southern University of Science and Technology; Fellow of the American Geophysical Union
- **Chunhui Lu**, Prof
Hohai University; Yangtze Institute for Conservation and Development

09:00

Groundwater Lens Development in Small Islands

- **Jian Luo**, Associate Prof (online)
Georgia Institute of Technology

09:20

Hydropower generation and ecological operation under climate change: a case study of the downstream cascade of Lancang River hydropower plants

- **Xiaohong Chen**, Prof
Sun Yat-sen University

09:40

Evolution of Hydrological Cycle and Attribution Analysis of Runoff Variation in the Yarlung Zangbo River Basin

- **Zongxue Xu**, Prof
Beijing Normal University

10:00

Tea break

10:20

A systematic study for the ecosystem restoration of Honghu wetland

- **Yanqing Lian**, Prof
Institute of Earth Environment, Chinese Academy of Sciences

10:40

Ecohydrological modeling and water resources management: from field scale to basin scale

- **Yi Zheng**, Prof
Southern University of Science and Technology

11:00

Applying a Regional Transport Modeling Framework to Manage Nitrate

Contamination of Groundwater

- **Lihong Yang**, Dr
China Energy Conservation DADI Environmental Remediation Co., Ltd.

11:20

Lake-River interactions in the middle Yangtze River

- **Qi Zhang**, Prof
Hohai University; Yangtze Institute for Conservation and Development

11:40

Comparing CMIP5 and CMIP6 Climate Change Simulations and Projections over the Pan Third Pole Environment (PTPE) Region

- **Qingyun Duan**, Prof
Hohai University; Fellow of the American Geophysical Union

并行分会

4月 24 日

09:00 流域综合管理

这一分会的子话题包括但不限于：

- 保护与发展协同
- 法律与政策保障
- 生态补偿理论与实践
- 现代水治理

召集人

- 刘俊国 欧洲科学院院士
南方科技大学
- 张珂 教授
河海大学；长江保护与绿色发展研究院副院长

09:00 可持续流域管理和修复中植被与水文关系的理论研究进展

- Bai-Lian Larry Li 教授（线上）
美国加州大学河滨分校

09:15 综合评估和模拟在流域管理与水安全中的作用

- Tony Jakeman 教授（线上）
澳大利亚国立大学

09:30 湄公河流域的水安全与可持续发展

- 刘俊国 欧洲科学院院士
南方科技大学

09:45 粤港澳大湾区水资源管理面临的挑战及机遇

- 陈骥 教授（线上）
香港大学

10:00 茶歇

10:20 青藏高原多年冻土层变化对地区水资源和碳预算的影响

- 杨大文 教授
清华大学

10:35 **流域高质量发展中的水·粮食·能源纽带关系协同治理**

○ 王慧敏 教授

河海大学

10:50 **一套中国干旱与洪涝检测预报系统**

○ 汤秋鸿 研究员

中国科学院地理科学与资源研究所

11:05 **黄河三角洲及其周边海域的综合管理策略**

○ 王万战 教授级高工

黄河水利科学研究院

11:20 **近 40 年内卫星监测的青藏高原生态水文变化**

○ 张珂 教授

河海大学；长江保护与绿色发展研究院副院长

11:35 **小组讨论**

○ 本分会参加人员

08:30 气候变化与风险

这一分会的子话题包括但不限于：

- 气候变化及其趋势预测
- 气候极端事件
- 变化情景及不确定性
- 气候变化影响及其对策
- 洪涝灾害监测与预警预报
- 城市洪涝防治与海绵城市
- 洪水资源化利用
- 调度决策与风险管理

召集人

- 余钟波 教授
河海大学；长江保护与绿色发展研究院；
- 王国庆 教授
南京水利科学研究院；长江保护与绿色发展研究院；水利部应对气候变化研究中心总工

08:30

欢迎词

- 余钟波 教授
河海大学；长江保护与绿色发展研究院

08:40

气候变化背景下的水文极端事件管理以及国家层面水资源信息体系的必要性

- Narendra Tuteja 教授
世界气象组织；澳大利亚国家气象局

09:00

基于蒸发皿蒸发的中国区域水循环演变规律分析

- 熊立华 教授
武汉大学

09:20

青藏高原江河温室气体排放机制及全球重要性

- 夏星辉 教授
北京师范大学

09:40

旱涝灾害应对的若干关键问题

- 严登华 教授级高工
中国水利水电科学研究院

10:00

茶歇

10:20

极端事件的气候和水文归因如何调和？

- 袁星 教授
南京信息工程大学

10:40

气候变化和人类活动对黄河流域水储量变化的影响

- 许月萍 教授
浙江大学

11:00

气候变化对亚热带潮湿林区流域森林覆盖和径流变化的影响

- 杨勤丽 副教授
电子科技大学

11:20

全球洪水对未来不同温升条件的响应研究

- 陈杰 教授
武汉大学

11:40

植被变化对区域和全球蒸散发的影响及其生态水文效应研究

- 张永强 研究员
中国科学院地理科学与资源研究所

09:00

水生态与水工程

这一分会的子话题包括但不限于：

- 流域水环境保护与提升
- 生态保护与修复
- 生态水利工程
- 河流湖泊健康评价
- 水工程安全与韧性

召集人

- 陈求稳 研究员
南京水利科学研究院；长江保护与绿色发展研究院
- 华祖林 教授
河海大学；长江保护与绿色发展研究院

09:00

高速水流精细数值模拟与掺气减蚀机理

- 张建民 教授
四川大学

09:20

生态水力学领域的研究进展

- 曾玉红 教授
武汉大学

09:40

中国淡水湖泊氮磷含量的最新趋势及其与人类相关污染源变化的关系

- 童银栋 副教授
天津大学

10:00

茶歇

10:20

江湖关系变化下鄱阳湖生态水文过程演变

- 刘晓波 教授级高工
中国水利水电科学研究所

10:40

珠江三角洲海水入侵情势变化以及降低盐碱度的措施分析

- 杨芳 教授级高工
珠江水利科学研究院

11:00

水环境中的天然有机物质对环境的作用及影响

- 徐华成 研究员
中国科学院南京地理与湖泊研究所

11:20

利用卫星监测河面宽度数据验证长江上游一支流流域的降水径流模型

- 孙文超 副教授
北京师范大学

11:40

大型水库年内径流分布变化及其对水温结构的影响研究

- 贺蔚 教授
河海大学

09:00

水资源保护利用

这一分会的子话题包括但不限于：

- 水资源高效利用
- 节水理论与技术
- 水资源优化配置
- 非常规水资源利用与风险调控
- 地下水保护与可持续开发

召集人

- 郑春苗 教授
南方科技大学
- 鲁春辉 教授
河海大学；长江保护与绿色发展研究院

09:00

小型岛屿的地下淡水透镜体生成

- 罗剑 副教授（线上）
佐治亚理工学院

09:20

气候变化下的水力发电以及生态调度：以澜沧江下游梯级电站为例

- 陈晓宏 教授
中山大学

09:40

雅鲁藏布江流域的水文循环过程以及径流变化成因分析

- 徐宗学 教授
北京师范大学

10:00

茶歇

10:20

洪湖湿地生态系统修复的系统研究

- 连炎清 教授
中科院地球环境研究所

10:40

生态水文模拟与水资源管理：从田间尺度到流域尺度

- 郑一 教授
南方科技大学

11:00

区域尺度模型框架在地下水硝酸盐污染管理中的应用

- 杨丽红 博士 总工
中节能大地环境修复有限公司

11:20

长江中游江-湖相互作用研究

- 张奇 教授
河海大学；长江保护与绿色发展研究院

11:40

青藏高原地区 CMIP5 和 CMIP6 气候变化模拟及预测结果对比分析

- 段青云 教授
河海大学

SPECIAL SESSION

特别分会

YANGTZE RIVER CONSERVATION AND GREEN DEVELOPMENT

长江保护与绿色发展

SPECIAL SESSION

24 APRIL

09:00 **Conservation and Development of the Yangtze**

Under global changes such as the warming climate, the Yangtze Basin and the Economic Belt faces more uncertainties and challenges. The Forum will be an in-depth discussion on these problems and solutions

Organized by

- **Yongjun Lu**, Prof
Nanjing Hydraulic Research Institute; Yangtze Institute for Conservation and Development
- **Yuliang Zhu**, Prof
Hohai University; Yangtze Institute for Conservation and Development

09:00 **Actualisations of the values of the aquatic ecological services of the Yangtze Economic Belt Region**

- **Changchun Cheng**, Prof
President of Jiangsu Yangtze River Economic Belt Research Institute

09:20 **Green water transport on the Yangtze: development and futures**

- **Luchun Zhu**, Prof
Transport Planning and Research Institute, Ministry of Transport

09:40 **Protection of the Yangtze and the future of the Yangtze finless porpoise**

- **Guang Yang**, Prof
Nanjing Normal University

10:00 **Tea break**

10:20 **Aquatic environment of lower Yangtze lakes: an analysis of long-term changes by satellite-based remote sensing**

- **Lian Feng**, Associate Prof
Southern University of Science and Technology

10:40

Protection and exploitation efficiency of the Yangtze coast lines

- **Da Chen**, Prof

Hohai University; Yangtze Institute for Conservation and Development

11:00

Studies of the eco-hydraulics of the Taihu Lake: instruments and techniques

- **Shikai Xu**, Prof

Nanjing Hydraulic Research Institute

11:20

Transforming and upgrading the chemical industry on the Yangtze

- **Xinhua Zhu**, Prof

Hohai University; Yangtze Institute for Conservation and Development

特别分会

4月 24 日

09:00 长江保护与绿色发展

在全球气候变暖和人类活动的影响下，长江流域以及长江经济带的可持续发展面临更多不确定性和挑战。针对这些问题，长江保护与绿色发展论坛将开展深入综合的讨论。

召集人

- 陆永军 教授级高工
南京水利科学研究院副总工；长江保护与绿色发展研究院
- 诸裕良 教授
河海大学；长江保护与绿色发展研究院

09:00 加快建立长江经济带水生态产品价值实现机制的思路与对策

- 成长春 教授
江苏长江经济带研究院院长

09:20 长江水运绿色发展成效及发展方向

- 朱鲁存 教授级高工
交通运输部规划研究院副院长

09:40 长江大保护与长江江豚的未来

- 杨光 教授
南京师范大学

10:00 茶歇

10:20 基于卫星遥感的长江中下游湖泊水环境长时序变化过程及机制研究

- 冯炼 副教授
南方科技大学

10:40 长江岸线保护范围及利用效率评价探讨

- 陈达 教授
河海大学；长江保护与绿色发展研究院

11:00 太湖水动力水环境研究平台及关键技术

- 徐世凯 教授
南京水利科学研究院

11:20

长江流域化工产业转型升级研究

○ 朱新华 教授

河海大学；长江保护与绿色发展研究院



Venue

All sessions of the Forum are convened in conference rooms on the second floor of Fairmont Nanjing hotel (333 Jiangdong Middle Road, Jianye District, Nanjing).

You may find the position of the hotel on the following map services:

Google Maps



<https://s.yicode.org.cn/6d1d2dc>

AutoNavi



<https://s.yicode.org.cn/5th2smw>

会场

论坛所有会议的举办地点均位于南京金奥费尔蒙酒店（江苏省南京市建邺区江东门中路 333 号）二楼的会议室。

您可以在以下地图服务中查阅会场的具体位置：

Google 地图



<https://s.yicode.org.cn/6d1d2dc>

高德地图



<https://s.yicode.org.cn/5th2smw>

TRANSPORT

Arrival in Nanjing Lukou Airport (NKG)

The airport is about 45 kilometers away from the venue. The most convenient way to get to the venue is by taxi at a cost between CNY 150-200. You can also take the light rail S1 to Nanjing South Railway Station to transfer to other metro routes to the downtown.

Arrival in Nanjing South Railway Station

Nanjing South Railway Station is about 12 kilometers away from the venue. Travelling between the station and the venue by taxi takes a cost around CNY 40. You can take metro Line 1 and transfer to Line 10 to Yuantong Station. From Exit 5 of the Station, you may take 500 meter walk to get to the venue.

Arrival in Nanjing Railway Station

Nanjing Railway Station is about 20 kilometers away from the venue. Travelling between the station and the venue by taxi takes a cost around CNY 70. You can take metro Line 1 and transfer to Line 10 to Yuantong Station. From Exit 5 of the Station, you may take 500 meter walk to get to the venue.

Commuting to the venue

Between the other partner hotel (Hanrun Nanjing 1882, approximately 2 kilometers away) and the venue, we have shuttle buses between them. Here are the schedules:

- 21 April: 12:00/13:00/14:00/15:00/16:00/17:00/18:00/19:00/20:00/21:00 Hanrun - venue
- 21 April: 12:30/13:30/14:30/15:30/16:30/17:30/18:30/19:30/20:30/21:30 venue - Hanrun
- 22 April: 08:00 Hanrun - venue
- 22 April: 19:00 venue - Hanrun
- 23 April: 08:00 Hanrun - venue
- 23 April: 19:00 venue - Hanrun
- 24 April: 08:30 Hanrun - venue
- 24 April: 13:30 venue - Hanrun

Additionally, from Hanrun Nanjing 1882, you may take metro Line 10 to get to the venue. Take entrance 2C of Zhongsheng station to take a one stop ride to Yuantong Station. From Exit 5 of the Station, you may take 500 meter walk to get to the venue.

交通

抵达南京禄口国际机场（NKG）后

机场距离会场大约 45 公里。由机场前往会场的最便捷方式是乘坐出租汽车，资费大约为 150-200 元人民币。您也可以从机场乘坐轻轨 S1 号线，在南京南站换成其他地铁线路前往会场。

抵达南京南站后

南京南站距离会场大约 12 公里。乘坐出租汽车由南京南站前往会场的资费大约为 40 元人民币。您也可以从南京南站乘坐地铁 1 号线，再换乘 10 号线至元通站下车，由 5 号出入口步行约 500 米即可抵达。

抵达南京站后

南京站距离会场大约 20 公里。从南京站乘坐出租汽车至会场的资费大约为 70 元。您也可以从南京站乘坐地铁 1 号线，再换乘 10 号线至元通站下车，由 5 号出入口步行约 500 米即可抵达。

会场通勤交通

在论坛的另一合作酒店（南京汉润 1882 酒店，距会场约 2km）与会场之间，我们将安排接驳班车保障通勤。以下是具体时间安排：

- 4 月 21 日：12:00/13:00/14:00/15:00/16:00/17:00/18:00/19:00/20:00/21:00 汉润—会场
- 4 月 21 日：12:30/13:30/14:30/15:30/16:30/17:30/18:30/19:30/20:30/21:30 会场—汉润
- 4 月 22 日：08:00 汉润—会场
- 4 月 22 日：19:00 会场—汉润
- 4 月 23 日：08:00 汉润—会场
- 4 月 23 日：19:00 会场—汉润
- 4 月 24 日：08:30 汉润—会场
- 4 月 24 日：13:30 会场—汉润

此外，从南京汉润 1882 酒店出发，由中胜站 2C 出入口进入，乘坐地铁 10 号线一站抵达元通站，由 5 号出入口步行约 500 米即可抵达会场。

CATERING

For registered participants of the Forum, the following six meals are included in your registration.

All meals are served in the **buffet restaurant on the 60F** of the venue.

Please be noted that you may be required to present your coupons for meals.

Lunch

- 22 April
- 23 April
- 24 April

Dinner

- 21 April
- 22 April
- 23 April

Additionally, the following tea breaks have been included in your registration as well. Tea breaks are served in the public space on 2F of the venue.

- Morning and afternoon, 22 April
- Morning and afternoon, 23 April
- Morning, 24 April

餐饮

对于正式注册参会的人员，以下六餐已包含至您的注册之中。

所有的餐饮服务将在会场 **60 楼的自助餐厅** 提供。

请注意您需要凭餐券进入餐厅用餐。

午餐

- 4月22日 12:00-14:00
- 4月23日 12:00-14:00
- 4月24日 12:00-14:00

晚餐

- 4月21日 18:00-21:00
- 4月22日 18:00-21:00
- 4月23日 18:00-21:00

此外，您的注册已包含以下茶歇服务。所有茶歇在会场 2 楼的公共区域提供。

- 4月22日上午、下午
- 4月23日上午、下午
- 4月24日上午

TECHNICAL TOURS

We are organizing technical tours on the afternoon of 24 April. The following site are going to be visited:

○ **Tiexinqiao Water Experiment Center of Nanjing Hydraulic Research Institute (NHRI):**

This is the place where NHRI conducts large scale physical model tests. The construction of the Center was started in 1983. The Center, taking a total area of 28 hectares, now hosts 35 large scale test facilities.

○ **Niushoushan S&T Park of Hohai University:**

This is an experiment park built by Hohai University. It is located in Jiangnin District of Nanjing, with a total area of 12.6 hectares and a planned building area of 80,000 square meters.

Sign up

Please sign up at the registration desk for free.

技术参观

4月24日下午我们将组织技术参观，参观的地点如下：

○ **南京水利科学研究院铁心桥试验基地**

该基地是南京水利科学研究院开展大型物理模型试验的场所，始建于1983年，位于南京市铁心桥，占地28公顷，目前总共有35座大型物理模型试验厅室。

○ **河海大学牛首山科技园：**

该科技园是河海大学建设的公共试验基地，位于南京市江宁区，占地189亩，总建筑面积约8万平方米。

报名参加

请在签到台免费报名。

CONTACT

In case of emergency, please contact:

○ **Organising:**

David Zhou
+86 178 3452 0356

○ **Accommodation:**

Zihan Yu
+86 151 5068 5723

○ **Catering:**

Sijia Zhou
+86 139 1303 0450

○ **Transport:**

Chen Chen
+86 187 6240 5303

联系人

如果您在参会期间遇到任何问题，请与我们会务组联络。

○ **组织协调:**

周天涛

+86 17834520356

○ **酒店住宿:**

郁子涵

+86 15150685723

○ **用餐安排:**

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