



2024空间技术和平利用（健康）国际研讨会

2024 International Symposium on the Peaceful Use
of Space Technology - Health

会议手册

SYMPOSIUM MANUAL

2024年12月10日-12日 海口
DEC. 10 - 12, 2024, Haikou

主题

THEME

和平的未来、未来的和平

PEACE FOR THE FUTURE, THE FUTURE THROUGH PEACE

宗旨

MOTTO

同一个太空，同一个家园

ONE SPACE, ONE HOME

关键词

KEYWORDS

科学、科创、科普

SCIENTIFIC RESEARCH, TECHNOLOGICAL INNOVATION, POPULAR SCIENCE



IPSPACE 2024

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IPSPACE Introduction

大会简介

空间技术和平利用（健康）国际研讨会（IPSPACE）是唯一由国际八大空间组织领导者担任联合主席的大会，自 2018 年以来已连续举办六届，成为得到世界广泛认可的以“空间技术和平利用”为永久主题的国际性年度盛会。

IPSPACE 2024 是由联合国外空委观察员组织国际和平联盟（太空）联合中国电子商会、中国遥感应用协会、中国卫星导航定位协会、中国通信工业协会、海南空天信息研究院、海南省航天技术创新中心等共同主办，得到国际宇航科学院、国际宇航联合会、空间研究委员会、美国航天基金会、太空探索者协会、国际空间大学、莱斯大学国际空间医学峰会、乔治布什美中关系基金会、巴黎萨克雷大学基金会等九家国际机构和组织的鼎力支持。

IPSPACE 2024 以“和平的未来，未来的和平”为主题，汇聚国内外科学家、专家学者、宇航员、企业领袖等，聚焦空间技术和平“利用”，深入探讨空间技术与健康，教育，空间信息，产业投资等多个领域的技术融合与应用，以及月球探索、开发及保护，搜寻地外文明，太空电梯等前沿话题。

The International Symposium on Peaceful Uses of Space Technology - Health (IPSPACE) is a large-scale annual international symposium co-sponsored by the International Peace Alliance (Space), an observer organization at UN COPUOS, in cooperation with the Chinese Chamber of Commerce in Electronics (CCCE), the China Association of Remote Sensing Applications (CARSA), GNSS and LBS Association of China (GLAC), China Communications and Industry Association (CCIA), Aerospace Information Research Institute, Hainan Space Technology Innovation Center, The American Chamber of Commerce in South China (AmCham South China), and other organizations. The symposium has become an international space event led by scientists, and the purpose of the symposium, “One Space, One Home” , has been widely recognized and has formed an international brand.

IPSPACE is the only conference that has been jointly prepared and organized by nine leading international organizations, namely, the International Academy of Astronautics, the International Astronautical Federation, the Committee on Space Research, the Space Foundation, the Association of Space Explorers, the International Space University, Rice University's Baker Institute's International Space Medicine Summit (ISMS), the George W. Bush Foundation for U.S.-China Relations, Fondation de l'Université Paris-Saclay, and other organizations ensuring it to be an international conference boasting authorities and wide participation.

With the theme of “Peace for the Future, the Future through Peace” , IPSPACE 2024 will bring together global scientists, experts, scholars, astronauts and business leaders to discuss the opportunities and challenges amid the development of the world's space technology and peaceful use industry, explore the paths and solutions for the transformation of space technology, and promote international cooperation and exchanges in the peaceful use of space technology. The symposium has been held annually for six consecutive years from 2018 to 2023.

主办单位 Host



国际和平联盟（太空）
International Peace Alliance (Space) (IPA)

联合主办单位 Co-Hosts



中国电子商会
CHINA ELECTRONICS CHAMBER OF COMMERCE

中国电子商会
China Electronics Chamber of Commerce (CECC)



中国遥感应用协会 (CARSA)
China Application of Remote Sensing Application



中国卫星导航定位协会
GNSS & LBS Association of China

中国卫星导航定位协会
GNSS & LBS Association of China (GLAC)



中国通信工业协会
China Communications Industry Association (CCIA)



中国宇航学会
China Society of Astronautics (CSA)



海南空天信息研究院 (HNAIR)
Hainan Aerospace Information Research Institute (HNAIR)



海南省航天技术创新中心 (HATIC)
Hainan Aerospace Technology Innovation Center (HATIC)



海南中实（集团）有限公司
Hainan China International Industry and
Commerce Co. Ltd.(CIIC)

国际支持单位

International Supporters



国际宇航科学院

International Academy of Astronautics



国际宇航联合会

International Astronautical Federation



空间研究委员会

Committee on Space Research



美国航天基金会

Space Foundation



太空探索者协会

Association of Space Explorers



国际空间大学

International Space University



莱斯大学贝克研究院
国际空间医学峰会

Rice University's Baker Institute's International
Space Medicine Summit



乔治布什美中关系基金会

George H. W. Bush Foundation
for U.S.-China Relations



巴黎萨克雷大学基金会

Fondation de l'Université Paris-Saclay

战略合作伙伴

Strategic Partners



中国航空器拥有者及驾驶员协会

Aircraft Owners and Pilots Association of China
(AOPA-China)



中关村领创商业航天产业发展联盟

ZGC COMMERCIAL AEROSPACE INDUSTRY INNOVATION ALLIANCE

中关村领创商业航天产业联盟

ZGC Commercial Aerospace Industry Innovation Alliance

承办单位

Organizer



STATE-GUEST
ENTREPRENEURS' CLUB
国宾企业家俱乐部

国宾企业家俱乐部

State-Guest Entrepreneur Club

会议日程

PROGRAM English on page (27-49)

2024年12月10日(星期二) Tuesday, December 10, 2024

IPSPACE 大会是以科学家为主导的国际空间年度盛会，以“同一个太空，同一个家园”为宗旨，聚焦“科学、科创、科普”，积极探讨通过和平利用空间技术促进社会和经济可持续发展。大会是唯一由八大国际空间组织领导人担任联合主席的全球性年度盛会。IPSPACE2024 年会聚焦“健康、教育、可持续发展”等领域的空间技术应用转化和市场化创新解决方案与空间教育和人才培养，以“和平的未来，未来的和平”为主题，积极关注世界的和平与未来，促进全球空间领域的和平、合作与交流。

主论坛

14:30-17:30

海口万豪酒店大宴会厅 1+2

主办单位：国际和平联盟(太空)

联合主办单位：中国电子商会、中国遥感应用协会、中国卫星导航定位协会、中国通信工业协会、中国宇航学会、海南空天信息研究院、海南省航天技术创新中心、海南中实(集团)有限公司

国际支持单位：国际宇航科学院、国际宇航联合会、国际空间研究委员会、美国航天基金会、太空探索者协会、国际空间大学、莱斯大学贝克研究院国际空间医学峰会、乔治布什美中关系基金会

主持人 ▶ 于海宁 / 原广州电视台栏目主持人

14:30-14:33

开场视频

致辞

14:34-14:37

大会本地主席

罗格 / 中国遥感应用协会理事长、国际宇航科学院院士

14:38-14:41

大会国际主席

克里斯蒂安·费施廷格 / IPSPACE 联合主席，国际宇航联合会执行主任、国际宇航科学院院士

14:42-14:45

海南省政府领导

- 14:45-15:05** ○ **绿色空间，共同家园**
让 - 米歇尔 康坦 / IPSPACE 联合主席，国际宇航科学院秘书长
- 15:05-15:20** ○ **光谱地球感知技术和发展思考**
王建宇 / 中国科学院院士、国科大杭州高等研究院院长、物理与光电工程学院首席教授、国际光学工程学会会士，COS-BAR 中国委员会委员，SPIE 亚太遥感会议、多光谱 / 超光谱遥感技术及应用会议主席
- 15:20-15:35** ○ **高等教育的创新与变革极其对新时代太空探索的影响**
李达伟 / 莱斯大学第七任校长
- 15:35-15:50** ○ **逐日工程新进展**
段宝岩 / 中国工程院院士、西安电子科技大学教授
- 15:50-16:05** ○ **主旨报告**
奥列格·奥尔洛夫 / IPSPACE 联合主席、俄罗斯生物医学问题研究院院长、俄罗斯科学院院士、国际宇航科学院院士
- 16:05-16:15** ○ **茶歇**
- 16:15-16:30** ○ **医工融合、航天转化，打造航空医疗救援“转、监、检、智、治”一体化装备创新体系**
邓玉林 / IPSPACE 联合主席、国际宇航科学院院士、北京理工大学讲席教授
- 16:30-16:45** ○ **科创，科普和空间可持续性**
帕斯卡尔·埃亨弗劳德 / IPSPACE 联合主席，空间研究委员会（COSPAR）主席，国际宇航科学院院士
- 16:45-17:00** ○ **空间环境治理：挑战与机遇**
龚自正 / 深空探测实验室高级研究员
- 17:00-17:30** ○ **宇航员对现代社会太空探索的理解**
奥尔加·班诺瓦 / 笹川国际空间建筑中心主任、休斯顿大学卡伦工程学院研究教授
焦立中 / NASA 宇航员、原国际空间站指挥官
- 17:30** ● **结束语，合影**

开幕式

2024 年 12 月 10 日 20:00-22:35 海口万豪酒店大宴会厅 1+2

主 办 单 位：国际和平联盟（太空）

联合主办单位：中国电子商会、中国遥感应用协会、中国卫星导航定位协会、中国通信工业协会、中国宇航学会、海南空天信息研究院、海南省航天技术创新中心、海南中实（集团）有限公司

国际支持单位：国际宇航科学院、国际宇航联合会、空间研究委员会、美国航天基金会、太空探索者协会、国际空间大学、莱斯大学贝克研究院国际空间医学峰会、乔治布什美中关系基金会、巴黎萨克雷大学基金会

● **主持人** ▶ 于海宁 / 原广州电视台栏目主持人○ **20:00-20:15** **开场节目**



- 20:15-20:20 开场视频
- 20:20-20:25 海南省领导
- 20:25-20:30 王天怡 /IPSPACE 执行主席、国际和平联盟（太空）执行主席、国际宇航科学院院士致欢迎辞
- 20:30-20:35 林宗棠 /IPSPACE 名誉主席、原中国国家航空航天工业部部长致贺词
- 20:35-20:40 刘纪原 / 原中国国家航天局局长、国际宇航科学院（IAA）原副主席
- 20:40-20:45 常启德 / 联合国驻华总协调员
- 20:45-20:50 王宁 /IPSPACE 常务主席、中国电子商会会长
- 20:50-20:55 阿尔蒂·霍拉 - 迈尼 / 联合国外层空间事务办公室 (UNOOSA) 主任
- 20:55-21:00 罗晖 / 中国科协党组成员兼国际合作部部长
- 21:00-21:05 克里斯蒂安·费施廷格 /IPSPACE 联合主席、国际宇航联合会执行主任、国际宇航科学院院士
- 21:05-21:10 航天局领导
- 21:10-21:15 帕斯卡尔·埃亨弗劳德 /IPSPACE 联合主席，空间研究委员会（COSPAR）主席、国际宇航科学院院士
- 21:15-21:20 史蒂夫·艾森哈特 /IPSPACE 联合主席，美国航天基金会战略与国际事务高级副总裁
- 21:20-21:25 让 - 皮埃尔·拉法兰 / 世界和平领袖联盟创始主席，友谊勋章获得者，法国前总理
- 21:25-21:30 曹文炼 / 国家发展和改革委员会国际合作中心原主任、中国经济体制改革研究会副会长

21:30-21:35	○ 哈利·赛亚丁 / 博士，2017 年奥斯陆商业促进和平奖获奖者（由诺贝尔和平奖及经济奖评审委员会授予），暨南大学客座教授，阿来龙能源总裁，华南美国商会主席兼任会长
21:35-21:40	○ 王珂 / 中国民间组织国际交流促进会副秘书长
21:40-21:45	○ 安迪·特内奇 / IPSPACE 联合主席，太空探索者协会 (ASE) 执行理事
21:45-21:50	○ 罗格 / IPSPACE 轮值主席，国际宇航科学院院士，中国遥感应用协会理事长
21:50-21:55	○ 王赤 / 中国科学院院士，中国科学院国家空间科学中心主任
21:55-22:00	○ 莫宇宏 / 中国建筑集团有限公司基础设施部投资总监
22:00-22:05	○ 尼尔·布什 / IPSPACE 名誉主席、乔治布什美中关系基金会主席
22:05-22:10	○ 颁发纪念牌 IPSPACE 联合主席代表
22:10-22:15	○ 致辞并宣布 IPSPACE 开幕 让 - 米歇尔·康坦 / IPSPACE 联合主席、国际宇航科学院秘书长
22:15-22:35	○ 签约仪式
22:35	● 合影

平行分论坛

2024 年 12 月 11 日 09:00-12:00 海南国际会展中心 201 会议室

空间信息助力人类可持续发展、地球健康体检与人类可持续发展

为加快实施联合国《2030 年可持续发展议程》并努力按期实现既定目标，分论坛组织研讨如何更好利用通导遥等手段获取空间信息，对全球气、水、碳、能量循环及其对应的人类活动进行有效监测，进而科学评价地球健康状况；如何加强科技创新与产业创新的双向驱动，推进空间信息深化应用和数字产业化，更好利用市场化手段保障地球健康和人类可持续发展。

主办单位：国际和平联盟（太空）、中国遥感应用协会（CARSA）、中国卫星导航定位协会（GLAC）、中国通信工业协会（CCIA）、海南空天信息研究院、海南省航天技术创新中心

国际主席：芭芭拉·瑞安，世界地理空间产业委员会 (WGIC) 执行主任、国际宇航联合会 GLOC 2023 学术委员会联合主席



本地主席：卫征，IPSPACE 联合秘书长、中国遥感应用协会秘书长

主持嘉宾：卫征，IPSPACE 联合秘书长、中国遥感应用协会秘书长

- 09:00-09:05 ● **开场视频**
- 09:05-09:10 ○ **介绍与会主要嘉宾**
- **致辞**
- 09:10-09:15 ○ **克里斯蒂安·费施廷格** /IPSPACE 联合主席，国际宇航联合会（IAF）执行主任
- 09:15-09:20 ○ **于贤成** /IPSPACE 联合主席、中国卫星导航定位协会会长
- 09:20-09:25 ○ **王秉科** /IPSPACE 联合主席、中国通信工业协会会长
- 09:25-09:30 ○ **李晓明** / 海南空天信息研究院执行院长，海南省航天技术创新中心主任
- 09:30-09:35 ○ **芭芭拉·瑞安** / 世界地理空间产业委员会 (WGIC) 执行主任、国际宇航联合会 GLOC 2023 学术委员会联合主席
- 主持嘉宾：** ○ **武晓淦** / 中国卫星导航定位协会副秘书长
- 09:35-09:55 ○ **我国卫星海岸带遥感进展**
林明森 / 国际宇航科学院通讯院士、国家卫星海洋应用中心研究员
- 09:55-10:15 ○ **地磁场和低频电磁环境中的地球变化记录**
申旭辉 / 国际宇航科学院通讯院士、中国科学院国家空间科学中心研究员
- 10:15-10:35 ○ **太空如何助力应对地球上的全球性挑战**
玛丽亚 - 加布里埃拉·莎拉 / 欧洲航天局（ESA）战略与前瞻部门
- 10:35-10:50 ○ **茶歇**
- 主持嘉宾：** ○ **牟安启** / 中国通信工业协会常务副理事长，上海名微集团董事长
- 10:50-11:10 ○ **全球碳循环监测与温室气体排放权交易**
李大光 / 海南大学教授

- 11:10-11:30** ● **农业和全球粮食安全的未来：将空间技术融入陆地农业实践**
拉奇塔·阿格拉瓦尔 / 古鲁·戈宾德·辛格·英德拉普拉斯塔大学法律与法学研究学院研究员
- 11:30-11:50** ● **安徽省支撑长三角可持续发展的卫星应用实践**
陈冬花 / 中国安徽省人民政府参事室特约研究员，滁州学院计算机与信息工程学院教授
- 11:50-12:10** ● **构建商业航天全球生态，推动空间信息造福全人类**
龙开聪 / 中关村领创商业航天产业发展联盟副理事长兼秘书长
- 12:10** ● **结束语，合影**

平行分论坛

2024年12月11日 09:00-12:30 海南国际会展中心 301 会议室

空间产业投资

在国际、国内航空航天及低空经济迅猛发展的时代背景下，空间科技企业和金融机构的对接需求日趋旺盛。本次会议邀请监管部门重要领导和资深专家，国内外航空航天和金融机构、科技创新头部企业，以金融资本赋能科技研发成果转化为主题，围绕全球化合作等话题展开讨论交流。通过金融赋能推动空间技术和平利用，助力海南省航天航空领域新质生产力发展。

主办单位：国际和平联盟（太空）

协办单位：中国城市商业网点建设管理联合会商业与文化金融工作委员会

支持单位：盈谷基金、国宾企业家俱乐部（SGEC）

国际主席：马特·汤普森，麦克法登公司首席执行官、中实麦克法登控股有限公司代表

主持嘉宾：段舒怀，中国城市商业网点建设管理联合会常务理事

- 09:00-09:05** ● **开场视频**
- **致辞**
- 09:06-09:09** ● **朱维群 / 十二届全国政协常委、民族和宗教委员会主任**
- 09:09-09:13** ● **王洪章 / 中国建设银行原党委书记、董事长**
- 09:13-09:16** ● **倪小庭 / 原国务院稽察特派员、国有资产监督管理委员会监事会主席**
- 09:16-09:19** ● **刘顺达 / 中国电力设备管理协会会长、原国有重点大型企业监事会主席**
- 09:19-09:22** ● **支持单位代表致辞**
曹文炼 / 原国家发改委国际合作中心主任
- 09:22-09:25** ● **主办单位代表致辞**
马特·汤普森 / 麦克法登公司首席执行官、中实麦克法登控股有限公司代表



主题报告

09:25-09:40

科技创新与税收政策支持

朱青 / 中国人民大学财政金融学院二级教授、中国税务学会副会长、中国财政学会常务理事、财政部专家工作室专家、国家税务总局税务干部学院特聘教授

09:40-09:55

新兴空间经济的投融资

拉吉什瓦兰·穆尔蒂 / The Digital Economist 高级研究员、霍特国际商学院教授、Ashridge 高管教育教授

09:55-10:10

货币政策调整与产业投资

赵锡军 / 原中国证监会国际部研究员、中国人民大学财政金融学院副院长

10:10-10:20

心怀和平，共筑国际经济新未来——以人类登陆火星为契机

弗兰克·扬森 / 德国格赖夫斯瓦尔德 1A-First Application 公司

10:20-10:30

丰翼无人机典型应用场景建设方案

玄福伦 / 顺丰集团丰翼科技（深圳）有限公司华北区总经理

10:30-10:45

茶歇

10:45-11:00

低空经济投资机会

程泊霖 / 中国航空运输协会无人机工作委员会副主任、中国信息协会通航分会副会长

11:00-11:15

商业液体火箭发动机技术、产业的探索与发展

刘洋 / 九州云箭（北京）空间科技有限公司 创始合伙人、董事

11:15-11:30

国际空间投资：如何避免各国间制裁

马天平 / 清华大学五道口金融学院金融安全研究中心研究员、央行博士后

11:30-11:45

以低空经济新质生产力，推动构建城市绿色新空间新发展

贺天星 / 广州亿航智能技术有限公司 副总裁

11:45-12:20

圆桌论坛：“金融资本赋能科技研发成果转化”

主持嘉宾：

吴海鹏 / 中国城商联理事

参与嘉宾：

梁春满 / 原光大信托副董事长、光大集团财险筹备组副组长

余朝晖 / 元知资本管理合伙人、中国人民大校董、国际并购与投资研究所联席所长

翟岩 / 北京华安天诚科技有限公司 董事长

刘洋 / 九州云箭（北京）空间科技有限公司 创始合伙人、董事

12:20-12:30

结束语，合影

12:30-13:30

午餐

平行分论坛

2024年12月11日 08:30-12:00 海南国际会展中心 302 会议室

空间太阳能技术与应用

寻找、研究、开发和部署成本合适和可持续的新能源至关重要。在地球人口数量不断增长的背景下，经济增长对能源的需求驱动着这种需要。另一个原因是化石燃料导致温室气体在地球大气层中长期积累，并且石油年产量将开始下降导致的担忧。将当前的地面能源系统转变为更加环保、可持续的系统是一项挑战。本论坛将讨论从发电、转换到储存的全过程，以及利用天基发电厂向地球远程提供能源的前景。

主办单位：国际和平联盟（太空）

承办单位：国际宇航科学院

论坛主席：约翰·C·曼金斯，国际宇航科学院空间太阳能常设委员会联合主席

本地主席：段宝岩，中国工程院院士、西安电子科技大学教授

傅成玉，IPSAPCE 联合主席、中国石油化工集团公司原董事长

主持嘉宾：约翰 C. 曼金斯，国际宇航科学院空间太阳能常设委员会联合主席

08:30-08:35	●	开场视频
	○	致辞
08:35-08:40	○	让 - 米歇尔·康坦 / IPSAPCE 联合主席、国际宇航科学院秘书长
08:40-08:50	○	约翰 C. 曼金斯 / 国际宇航科学院空间太阳能常设委员会联合主席
08:50-09:00	○	傅成玉 / IPSAPCE 联合主席、中国石油化工集团公司原董事长
09:00-09:20	○	模块化多旋转关节太阳能卫星以及可能的演示任务 侯欣宾 / 中国空间技术研究院钱学森空间实验室研究员
09:20-09:40	○	SSL 的空间太阳能愿景 大卫·霍姆弗莱 / 太空太阳能机构首席技术官
09:40-10:00	○	韩国太空太阳能研究与开发的最新成果 崔俊敏 / 韩国航空航天研究所
10:00-10:30	○	茶歇

- 10:30-10:50 **太空太阳能技术公司在澳洲的发展**
塞尔达尔·拜坎 / 太空太阳能技术公司创始负责人
- 10:50-11:10 **准备迎接低碳能源转型的风险与挑战**
亚历山大·汉内科夫 / 莫斯科地区出口中心可持续发展顾问
- 11:10-11:30 **国际宇航学会、国际太空协会、国际宇航会太空太阳能研究项目**
约翰 C. 曼金斯 / 国际宇航科学院 (IAA) 空间太阳能常设委员会联合主席
- 11:30-12:00 **圆桌论坛**
- 主持嘉宾:** 约翰 C. 曼金斯 / 国际宇航科学院 (IAA) 空间太阳能常设委员会联合主席
- 12:00 **主持嘉宾总结致辞, 论坛结束**

平行分论坛

2024 年 12 月 11 日 14:00-18:00 海南国际会展中心 301 会议室

绿色空间推进

本论坛将介绍亚轨道、地球至轨道和空间推进的独特环境挑战；化学和非化学火箭、液体、固体和混合火箭系统的更绿色的空间推进；用于各种空间任务的有前景的绿色空间推进剂；用于冲压发动机、超燃冲压发动机、空气喷气发动机、核电、太阳能和其他先进火箭系统的高级绿色推进系统。

主办单位：国际和平联盟（太空）

承办单位：国际宇航科学院

国际主席：约瑟夫·卡萨迪，美国阿灵顿 Aerojet Rocketdyne 执行董事、国际宇航科学院院士
安东内拉·因杰尼托，罗马大学航天工程学院教授、国际宇航科学院院

本地主席：郑日恒，北京航空航天大学教授、国际宇航科学院院士

主持嘉宾：郑日恒，北京航空航天大学教授、国际宇航科学院院士；

约瑟夫·卡萨迪，美国阿灵顿 Aerojet Rocketdyne 执行董事、国际宇航科学院院士

- 14:00-14:05 **开场视频**
- 14:05-14:10 **开场：介绍论坛和报告嘉宾**
郑日恒 / 北京航空航天大学教授、国际宇航科学院院士
约瑟夫·卡萨迪 / 美国阿灵顿 Aerojet Rocketdyne 执行董事、国际宇航科学院院士
- 14:10-14:30 **火箭推进：按下重置键**
约瑟夫·卡萨迪 / 美国阿灵顿 Aerojet Rocketdyne 执行董事、国际宇航科学院院士
- 14:30-14:50 **基于空间核电供应的大功率电推进技术**
魏延明 / 教授，研究员，北京控制工程研究所

- 14:50-15:10** ● **星际推进**
 莱斯·约翰逊 / 物理学家、作家、美国国家航空航天局（NASA）技术专家，美国国家航空航天局（NASA）杰出成就奖三次得主，国际宇航科学院院士，美国国家太空协会、世界未来学会、门萨俱乐部成员
- 15:10-15:30** ○ **北京大学连续旋转爆轰发动机研究**
 王健平 / 北京大学教授
- 15:30-15:50** ○ **用于太空运输系统的绿色推进技术最新发展**
 阿里夫·卡拉贝尤格鲁 / 科克大学教员，德尔塔 V 太空技术公司首席执行官，费加尼太空公司首席技术官
- 15:50-16:10** ○ **安全可持续利用空间核动力**
 巴福亚·拉尔 / 帕迪·兰德研究生院（Pardee RAND Graduate School）政策分析教授
- 16:10-16:20** ○ **茶歇**
- 16:20-16:40** ○ **提高超燃冲压发动机性能的数值模拟进展**
 安东内拉·因杰尼托 / 罗马大学航天工程学院教授、国际宇航科学院院士
- 16:40-17:00** ○ **人类登陆火星——全球合作**
 弗兰克·扬森 / 德国格赖夫斯瓦尔德 1A - First Applications 公司
- 17:00-17:20** ○ **无电极等离子体推进器及其推力矢量控制能力：从首次飞行试验到新天地**
 安德烈·舒梅克 / 莫斯科国立鲍曼技术大学大学讲师、国际宇航联合会空间推进委员会成员
- 17:20-17:40** ○ **高速涡轮发动机引射喷管关键参数对气动性能的影响研究**
 余政 / 北京航空航天大学能源与动力工程学院硕士研究生
- 17:40-18:00** ○ **超燃冲压发动机多凹腔燃烧系统研究进展**
 郑日恒 / 北京航空航天大学教授、国际宇航科学院院士
- 互动参与人** ● 拉马丁 - 吉马雷斯 / 巴西核能空间 / INPPS 旗舰专家（巴西航空理工学院）
 张福林 / 物理学家、宇航员、可变比冲磁等离子体火箭提出者
 伯那德 - 施密特 - 泰德 / 联合国核动力源原则专家
 吉姆 - 奎珀 / NUCLIC - 核能创新咨询公司创始人
 亚历山大 - 塞门金 / 克尔德什研究中心主任

平行分论坛

2024 年 12 月 11 日 14:00-16:50 海南国际会展中心 302 会议室

太空电梯助力绿色空间活动

太空电梯作为永久性的太空运输和物流基础设施，将能够以日常、经济高效且环境友好的方式，常态性地运送大量货物（初期每年 3 万吨）至地球静止轨道（GEO）及更远太空。本论坛将讨论商用太空电梯项目正进入工程开发阶段的这一重大进展。空间电梯的基本设计方案已经



确立，并将应用于多个领域，例如将空间太阳能发电卫星送入地球静止轨道，运送 100 万吨货物前往火星，以及在空间电梯建成后直接支持地月空间的活动。本次论坛将探讨空间电梯的工程现状及客户需求预测，同时重点关注将先进火箭和太空电梯优势结合起来的“双太空通道战略”这一非凡概念。

主办单位：国际和平联盟（太空）

承办单位：国际宇航科学院

国际主席：彼得·斯旺，博士、Galactic Harbour Associates 高级副总裁、国际太空电梯联盟（ISEC）主席、国际宇航科学院院士

本地主席：刘家夫，中山大学航空航天学院副教授

主持嘉宾：彼得·斯旺，博士、Galactic Harbour Associates 高级副总裁、国际太空电梯联盟（ISEC）主席、国际宇航科学院院士

14:00-14:05 ● **开场视频**

14:05-14:15 ○ **介绍论坛和演讲嘉宾**

彼得·斯旺，博士 /Galactic Harbour Associates 高级副总裁、国际太空电梯联盟（ISEC）主席、国际宇航科学院院士

14:15-14:35 ○ **月球系绳电梯系统动力学及其潜在应用**

刘家夫 / 中山大学航空航天学院副教授

14:35-14:55 ○ **国际宇航科学院助力太空电梯**

彼得·斯旺，博士 /Galactic Harbour Associates 高级副总裁、国际太空电梯联盟（ISEC）主席、国际宇航科学院院士

14:55-15:15 ○ **太空电梯——永久性太空基础设施**

彼得·斯旺博士 /Galactic Harbour Associates 高级副总裁、国际太空电梯联盟（ISEC）主席、国际宇航科学院院士

15:15-15:25 ○ **茶歇**

15:25-15:45 ○ **APEX ANCHOR：位于重力井顶部的全方位物流运输节点**

保罗 -W- 菲斯特 /MANIAC 咨询公司总裁

15:45-16:05 ○ **利用太空电梯支持联合国可持续发展目标——绿色世界**

彼得·斯旺，博士 /Galactic Harbour Associates 高级副总裁、国际太空电梯联盟（ISEC）主席、国际宇航科学院院士

16:05-16:25 ○ **国际太空电梯联盟对全球学生的支持**

保罗 -W- 菲斯特 /MANIAC 咨询公司总裁

16:25-17:00 ○ **圆桌论坛**

主持嘉宾： 刘家夫 / 中山大学航空航天学院副教授

成员： ● **全体发言嘉宾**

2024年12月11日 14:00-17:30 海南中学

国际教育创新论坛

本论坛将介绍并讨论空间教育项目，重点聚焦 K12。经验丰富的教育工作者将分享他们关于如何使空间教育更具吸引力和鼓舞人心的见解。本论坛关注当下可以采取哪些创新措施来增强空间科技对 STEAM 教育的影响，从而促进全社会进步和人类向宇宙的拓展。

主办单位： 国际和平联盟（太空）、亚太空间合作组织（APSCO）

协办单位： 海南中学

支持单位： 联合国教科文组织、国际宇航科学院、国际宇航联合会、空间研究委员会（COSPAR）、美国航天基金会、太空探索者协会、国际空间大学、莱斯大学贝克研究院国际空间医学峰会、乔治布什美中关系基金会、中国西部人才开发基金会空间信息技术和平利用与人才发展专项基金、中国青少年科技教育工作者协会、法国图卢兹太空城、北京国宾英才国际教育科技有限责任公司

论坛联合主席： 帕斯卡尔·埃亨弗劳德，会议联合主席、空间研究委员会（COSPAR）主席、国际宇航科学院院士

邓玉林，会议联合主席，国际宇航科学院院士，北京理工大学讲席教授

李晓辉，会议联合主席，北京师范大学附属实验中学中学校长、中国青少年科技教育工作者协会副理事长

主持嘉宾： 许岩松，亚太空间合作组织（APSCO）教育与培训部部长

主持人 ▶ 许岩松 / 亚太空间合作组织（APSCO）教育与培训部部长

14:00-14:05

开场视频

欢迎致辞

14:05-14:15

田玉龙 / 亚太空间合作组织（APSCO）战略发展顾问、国际宇航科学院院士

嘉宾致辞

14:15-14:20

常启德 / 联合国驻华总协调员

14:20-14:25

丁文锋 / 会议联合主席、中国西部人才开发基金会理事长兼空间信息技术和平利用与人才发展基金联合主任

14:25-14:30

帕斯卡尔·埃亨弗劳德 / 会议联合主席、空间研究委员会 (COSPAR) 主席、国际宇航科学院院士

14:30-14:35

安迪·特内奇 / 会议联合主席, 太空探索者协会 (ASE) 执行理事长

14:35-14:40

孙月萍 / 耶特科尔曼律师事务所顾问

主题报告

14:40-14:55

新时代人才培养与航天科学教育

邓玉林 / 会议联合主席、国际宇航科学院院士、北京理工大学讲席教授

14:55-15:10

教育未来世代, 培养可持续太空探索

罗萨·多兰 / NUCLIO 执行委员会主席兼高级研究员、国际动手天文教学组织执行理事会主席、空间研究委员会 (COSPAR) 教育小组主席

15:10-15:25

我是怎么上太空的? 我在太空学到的东西

托尼·安东内利 / 前 NASA 宇航员、安东内利咨询公司创始人

15:25-15:35

新太空经济中 STEM 教育的重要性

柏坤霆 / 香港大学太空实验室总监

15:35-15:45

如何启发人们并向儿童普及太空: 科学中心的各种角色

让·巴普蒂斯特·德布瓦 / 图卢兹太空城前总经理, 法国图卢兹太空城博物馆前馆长

15:45-16:15

校园科技创新成果展示 - 嘉宾点评

北京师范大学附属实验中学、海南中学展示

让·米歇尔·康坦 / 会议联合主席、国际宇航科学院秘书长

克里斯蒂安·费施廷格 / 会议联合主席、国际宇航联合会执行主任、国际宇航科学院院士

16:15-16:55

校长圆桌会议—多校园多文化科学家素养培养融合教育

孙功凌 / 国际空间大学 联合国附属空间科技教育亚太区域中心 首席科学家

李达伟 / 莱斯大学 第 7 任校长

李康善 / 香港中文大学 副校长

韩众 / 海南中学校长

张坚 / 海口市玉沙实验学校 校长

16:55-17:20

航天员寄语

杨利伟 / 会议联合主席, 中国航天员、中国载人航天工程副总设计师、国际宇航科学院院士

亚历山大·萨马库查耶夫 / 俄罗斯宇航员副队长

阿纳托利·阿尔茨巴斯基 / 苏联时期最后一位宇航员

17:20-17:25

致辞发言

尼尔·布什 / 会议名誉主席、乔治布什美中关系基金会主席

17:25-17:30

结束语、合影

平行分论坛

2024年12月12日 09:00-12:00 海南国际会展中心 302 会议室

搜寻地外文明

本论坛将聚焦于探索地外文明 (Search for Extra-Terrestrial Intelligence, SETI) 的科学、技术和跨学科方面，并特别关注其在国际层面和亚洲地区的进展。SETI 研究人员通常会在天文数据中寻找异常现象，这些异常现象可能与银河系及其他星系中的其他技术文明（即所谓“技术特征”）相关。搜寻工作涵盖整个电磁频谱，并利用部署在全球一些最大望远镜上的尖端技术进行。

主办单位：国际和平联盟（太空）

承办单位：国际宇航科学院

国际主席：维沙尔·加贾尔，搜寻地外文明计划研究所天文学专员、加州大学伯克利分校学术研究员
 迈克尔·加雷特，曼彻斯特大学首任伯纳德·洛维尔爵士天体物理学讲席教授；卓瑞尔河岸天体物理中心（JBCA）主任

本地主席：张同杰，北京师范大学教授

主持嘉宾：张同杰，北京师范大学教授

- 09:00-09:05 ● **开场视频**
- 09:05-09:10 ○ **介绍发言嘉宾**
张同杰 / 北京师范大学教授
- 09:10-09:30 ○ **使用撒丁岛射电望远镜进行最高频率的技术特征搜索**
维沙尔·加贾尔 / 搜寻地外文明计划（SETI）研究所常驻天文学家，加州大学伯克利分校访问学者
- 09:30-09:50 ○ **数学天体生物学：通过 Maccone 对数正态方法分 50 步求解统计德雷克方程**
克劳迪奥·马科内 / 国际宇航科学院科学空间探索主任、意大利国立天体物理研究所研究员
- 09:50-10:10 ○ **中国的搜寻地外文明：科学与文化视角的融合**
张同杰 / 北京师范大学教授
- 10:10-10:30 ○ **高分辨率射电成像揭示疑似戴森球恒星后的射电源**
任桐田 / 英国曼切斯特大学
- 10:30-10:40 ○ **茶歇**
- 10:40-11:00 ○ **人工智能搜寻地外文明：将搜寻地外文明带入每个课堂**
乔尔·伊尔维克 / 搜寻地外文明计划（SETI）研究所
- 11:00-11:20 ○ **宇宙中我们是否孤单？通过识别红外 - 无线电相关性中的异常来探寻卡尔达肖夫 III 型文明**
陈泓颖 / 中国科学院国家天文台
- 11:20-11:40 ○ **英国的搜寻地外文明**
迈克尔·加勒特 / 曼彻斯特大学首任伯纳德·洛维尔爵士天体物理学讲席教授；卓瑞尔河岸天体物理中心（JBCA）主任
- 11:40-12:10 ● **圆桌论坛**
张同杰 / 北京师范大学教授

平行分论坛

2024年12月12日 08:30-12:00 海南国际会展中心 301 会议室

月球探索、开发与保护

月球是 21 世纪乃至未来人类在科学发现、就地资源利用和商业开发方面的巨大资源库。在月球表面和月球轨道上进行的建设和运营将改变我们在地月系乃至地球上的未来。同时，月球也是科学研究的独特资源：包括月球科学（如地质学）、在月球上进行的科学（如实验室科学）以及通过月球进行的科学（包括射电天文学）。在探索与开发月球的过程中，必须同时考虑并保护月球支持这些科学研究的能力。本次会议将探讨与人类向月球拓展相关的未来架构、系统、技术和研究，回顾当前的计划和项目（政府、商业和科学领域），以及将使月球为人类造福的新兴技术。

主办单位：国际和平联盟（太空）

承办单位：国际宇航科学院

国际主席：约翰·C·曼金斯，国际宇航科学院空间太阳能常设委员会联合主席

克劳迪奥·马科内，国际宇航科学院科学空间探索主任、意大利国立天体物理研究所研究员

本地主席：吴季，俄罗斯科学院外籍院士，研究员

主持嘉宾：约翰·C·曼金斯，国际宇航科学院空间太阳能常设委员会联合主席

08:30-08:35

开场视频

开场致辞

08:35-08:40

让 - 米歇尔·康坦 / IPSPACE 联合主席、国际宇航科学院秘书长

08:40-08:50

约翰·C·曼金斯 / 国际宇航科学院空间太阳能常设委员会联合主席

主题报告

08:50-09:10

中国探月活动

中国代表

09:10-09:30

国际月球日和全球空间合作

纳赛尔·萨哈夫 / 联合国大会支持的国际月球日主席、国际宇航学会中东和北非地区秘书长

09:30-09:50

月背保护的过去、现在和未来可能性

克劳迪奥·马科内 / 国际宇航科学院科学空间探索主任、意大利国立天体物理研究所研究员

09:50-10:10	月球科学与探索：即将开展的任务及近期 COSPAR 和 IAF 社区活动的亮点 伯纳德·福恩 / 空间研究委员会（COSPAR）勘探小组副主席、国际月球探测工作组（ILEWG）执行主任、欧洲月球火星项目和艺术月球火星项目经理、莱登大学教授、IAF ITACCUS 委员会主席、国际宇航科学院院士
10:10-10:20	茶歇
10:20-10:50	暗夜保护与月背保护的共同性 克劳迪奥·马科内 / 国际宇航科学院科学空间探索主任、意大利国立天体物理研究所研究员
10:50-11:10	月球探索、开发与定居的挑战 约翰·C·曼金斯 / 国际宇航科学院空间太阳能常设委员会联合主席
11:10-11:30	主题报告 克里斯蒂安·巴赫 / 航空航天大学工程学院空间系统系主任，空间运输系主任
11:30-12:00	圆桌讨论
主持嘉宾：	约翰·C·曼金斯 / 国际宇航科学院空间太阳能常设委员会联合主席 克劳迪奥·马科内 / 国际宇航科学院科学空间探索主任、意大利国立天体物理研究所研究员
圆桌成员	全体发言嘉宾
12:00	总结，论坛结束

平行分论坛

2024 年 12 月 12 日 08:30-12:40 海南国际会展中心 201 会议室

空间碎片、空间态势感知与绿色空间

随着太空活动的迅速扩张，太空态势感知（SSA）和太空的长期可持续性已成为国际社会首要关注的问题。本次会议将探讨太空态势感知和可持续性的技术、运营和政策相关方面，重点讨论太空威胁和危险的识别、预测、跟踪及风险评估。会议议题将涵盖近距离操作、太空天气影响、阻力控制再入、非推进式离轨技术、轨道碎片研究，以及责任、保险和资源分配等关键问题。

随着太空碎片的不断增多、低轨道大型星座的部署以及商业太空活动的激增，全球合作与治理的需求比以往任何时候都更为迫切。本次会议还将探讨主动碎片清除、近地小行星防御以及太空治理策略，以促进合作，共同打造一个可持续的“绿色”太空环境。通过共享监测数据和协调国际政策努力，与会者可以帮助确保太空的安全、持续利用，并为所有太空用户保障一个安全的未来。

主办单位：国际和平联盟（太空）

承办单位：国际宇航科学院

本地主席：龚自正，深空探测实验室高级研究员

国际主席：奥利弗康健，国际宇航科学院 (IAA) 执行主任、IAA 空间太阳能常设委员会市场与金融联席主席、国际创新研究院 (IIRI) 联合创始人兼院长、风险投资公司 Trillions Co. 副董事长、碳中和解决方案集团 (CNSG) 创始人兼董事长、国际宇航科学院院士、Acta Astronautica 联合编辑

主持嘉宾：龚自正，深空探测实验室高级研究员

08:30-08:35 ● **开场视频**

08:35-08:45 ○ **开场：论坛主席致辞**

08:45-09:15 ○ **太空碎片的历史演变与当前特征**

海纳·克林克拉德 / 教授，布伦瑞克工业大学航天系统学院

09:15-09:35 ○ **“非烧毁设计” (D4ND)：一种解决轨道物体大气再入问题的方案**

克里斯托弗·博纳尔 / 法国国家空间研究中心 (CNES) 战略部高级专家，国际宇航联合会 (IAF) 空间交通管理技术委员会主席，国际宇航科学院 (IAA) 空间碎片委员会主席

09:35-09:50 ○ **IAA 30 余年空间碎片成果概览**

奥利弗·康健 / 国际宇航科学院 (IAA) 执行主任、IAA 空间太阳能常设委员会市场与金融联席主席、国际创新研究院 (IIRI) 联合创始人兼院长、风险投资公司 Trillions Co. 副董事长、碳中和解决方案集团 (CNSG) 创始人兼董事长、国际宇航科学院院士、Acta Astronautica 联合编辑

09:50-10:05 ○ **多源信息融合空间碎片监测与定轨**

宋叶志 / 中国科学院上海天文台研究员

10:05-10:20 ○ **空间碎片激光测距研究**

李语强 / 中国科学院云南天文台应用天文组首席研究员（由联合报告人：汤儒峰代表）

10:20-10:35 ○ **行星防御：长期可持续发展的前提**

南希·C·沃尔夫森 / 学者、讲师及研究员；美国航空航天学会 (AIAA) 会员

10:35-10:50 ○ **空间巡游者：用于空间碎片监测的低成本嵌入式载荷**

陈培 / 北京航空航天大学航天学院教授

10:50-11:00 ○ **茶歇**

11:00-11:15 ○ **低轨空间碎片移除技术研究**

赵真 / 上海宇航系统工程研究所研究员

11:15-11:30 ○ **大尺寸空间碎片减缓移除技术研究**

陈蓉 / 中国运载火箭技术研究院高级工程师

- 11:30-11:45** ○ **潜在威胁小行星（PHA）的矿物定量反演**
吴昀昭 / 中国科学院紫金山天文台研究员
- 11:45-12:00** ○ **空间碎片云超高速撞击的新进展**
陈小伟 / 北京理工大学教授
- 12:00-12:15** ○ **引力拖船用于小行星防御的轨道偏转效率分析**
李明涛 / 中国科学院国家空间科学中心研究员
- 12:15-12:30** ○ **轨道碎片重返大气层对环境的影响——海洋和土壤污染**
拉扎尔·耶夫蒂奇 / MIRCE 科学院科学研究员；空间碎片研究实验室 / 轨道碎片观测独立研发工程师
- 12:30-12:50** ● **空间治理：挑战与机遇**
龚自正 / 深空探测实验室高级研究员

2024年12月12日 14:00-18:00 海南国际会展中心 301 会议室

国际健康论坛

本论坛将围绕空间医学、生物技术和生物工程等多个空间技术与人类健康的交叉领域展开探讨，包含利用空间技术来监测和改善地球上的人类健康、空间极端环境和辐射环境对物理和生物系统的影响等多个主题，通过揭示空间技术应用于健康产业发展的新技术、新趋势，共同推动全球健康事业的繁荣发展。

主办单位： 国际和平联盟（太空）、中国电子商会、中国电子学会生命电子学分会、中国老年学和老年医学学会、中华保健中心、中国癌症预防与控制研究院

协办单位： 全国卫生产业企业管理协会健康医学分会

支持单位： 国际宇航科学院、国际宇航联合会、美国航天基金会、空间研究委员会、太空探索者协会、国际空间大学、莱斯大学贝克研究院国际空间医学峰会、乔治布什美中关系基金会、巴黎萨克雷大学基金会

承办单位： 国宾企业家俱乐部、北京康唯尔健康管理有限责任公司

国际主席： 奥列格·奥尔洛夫，IPSPACE 联合主席、俄罗斯生物医学问题研究院院长、国际宇航科学院院士、俄罗斯科学院院士

本地主席： 邓玉林，IPSPACE 联合主席、国际宇航科学院院士、北京理工大学讲席教授
杜继臣，中国通用技术集团科学技术委员会医学科学技术委员会主任，航天医疗健康科技集团有限公司董事长、党委书记、总经理，国际宇航科学院院士

主持嘉宾： 丁明超，航天中心医院院长、党委副书记

14:00-14:05 ● **开场视频**

14:05-14:25 ○ **致辞**

- 奥列格·奥尔洛夫 / IPSPACE 联合主席、俄罗斯生物医学问题研究院院长、国际宇航科学院院士、俄罗斯科学院院士**
杜继臣 / 中国通用技术集团科学技术委员会医学科学技术委员会主任，航天医疗健康科技集团有限公司董事长、党委书记、总经理，国际宇航科学院院士
王天怡 / IPSPACE 执行主席、国际和平联盟（太空）执行主席、国际宇航科学院院士
- 14:25-14:50 可信智能诊断**
张勤 / 第十三届全国政协常委，国际核能院院士，清华大学核研院和计算机系双聘教授、博导，原中国科协党组副书记、副主席、书记处书记
- 14:50-15:05 乔治华盛顿大学医学院和中国合作健康科学项目活动**
胡达·M·阿亚斯 / 乔治华盛顿大学医学院副院长
- 15:05-15:20 IMBP 医学与技术综合体在空间生物医学领域开发创新技术，以保障轨道和星际飞行并促进实际医疗保健的发展**
S.A. 波诺马列夫 / 俄罗斯联邦国家研究中心—俄罗斯科学院医学与生物学问题研究所（IMBP RAS）实验室负责人、医学博士
- 15:20-15:35 大中医空间医学与生态健康和生命抚触**
黄明达 / 世界健康产业大会执委会主席，中国智慧工程研究会副会长、中国生命工程院弘大传承中医药科技研究院院长、国家治理与健康中国可持续发展战略课题组组长
- 15:35-15:45 茶歇**
- 15:45-16:00 欧洲月球火星空间研究计划（EuroMoonMars）模拟宇航员任务在 HISEAS、MDRS、欧洲及全球站点的人类健康与技术亮点**
伯纳德·福恩 / 空间研究委员会（COSPAR）勘探小组副主席、国际月球探测工作组（ILEWG）执行主任、欧洲月球火星项目和艺术月球火星项目经理、莱登大学教授、IAFITACCUS 委员会主席、国际宇航科学院院士
- 16:00-16:15 基于遥感和地理信息技术的城市环境监测与居民健康风险评估**
吴息凤 / 国家级特聘专家，浙江省顶尖人才，浙江大学公共卫生学院院长、浙江大学医学院附属第二医院副院长、浙江大学陈廷骅大健康学院执行院长、浙江大学健康医疗大数据国家研究院院长、浙江大学医疗保障大数据和政策研究中心主任
- 16:15-16:30 太空飞行的健康挑战**
李炤燕 / 韩国宇航员、国际空间大学教员、国际宇航科学院院士、太空探索者协会会员
- 16:30-16:45 中国冠心病诊疗状况和未来应对**
吴永健 / 中国医学科学院阜外医院冠心病中心主任
- 16:45-17:00 在加速器上进行的地面实验以保障当前和未来太空任务的辐射安全 / 利用地面加速器实验研究物理屏蔽，以应对空间辐射保障当前和未来的太空任务的辐射安全**
维亚切斯拉夫·舒尔沙科夫 / 俄罗斯科学院医学与生物学问题研究所（IMBP RAS）载人航天任务辐射安全部门负责人（联合报告人：O.V. 别洛夫，实验室主任）
- 17:00-17:15 基于 AI 的智慧中医辅助诊疗技术及其应用**
辛念 / 北京理工大学兼职教授、北京理工巨舒副总经理
- 17:15-17:55 圆桌论坛——大健康战略高端对话**

主持嘉宾：

赵平 / 原中国医学科学院肿瘤医院院长、国家肿瘤登记中心主任、亚洲国家癌症中心联盟秘书长、中国医学科学院学术委员会执委会副主任、国家癌症中心奠基人、主任医师、教授、博士生导师

张澍 / 国家心血管病中心中国医学科学院阜外医院教授，中国医师协会心律学专业委员会主任委员，世界华人医师协会副会长，亚太心律学会，世界心律失常学会前任主席

张亚玮 / 国家癌症中心预防控制部主任

祝开思 / 中国老年学和老年医学学会糖尿病分会会长

徐学宗 / 知本院创始人、院长，北京国科知本科技有限公司总经理

穆罕默德·Z·库贝西 / 乔治华盛顿大学神经科学、神经康复、癫痫中心主任

李焰燕 / 韩国科学家、宇航员，国际空间大学教员，国际宇航科学院院士，太空探索者协会会员

17:55-18:00

结束语、合影**平行分论坛**

2024年12月12日 14:00-17:40 海南国际会展中心 201 会议室

空间法、空间交通管理与绿色空间

本论坛将重点关注以下几个议题：

测区管理，包括安全问题（网络安全等）；

空域 / 轨道空间整合，包括微卫星对空域和通信标准的影响；

空间安全与可持续性，包括独特的人造空间物体识别；

安全，包括网络安全和太空安全挑战；

空间环境效应和影响，包括空间天气预报；

相关议题，例如空间交通管理中的人为因素作用，以及国际倡议和关注事项。

主办单位：国际和平联盟（太空）

承办单位：国际宇航科学院

国际主席：科琳·乔根森，Advancing Space 咨询集团负责人、国际宇航科学院院士

主持嘉宾：科琳·乔根森，Advancing Space 咨询集团负责人、国际宇航科学院院士

14:00-14:05

开场视频

14:05-14:15

介绍论坛与演讲嘉宾

科琳·乔根森 / Advancing Space 咨询集团负责人、国际宇航科学院院士

14:15-14:20

嘉宾致辞

龙翼飞 / 中国人民大学教授

14:20-14:50

主题报告

王冀莲 / 中国空间法学会理事、中国宇航学会航天政策与法律专业委员会常委副主任委员、中国空间技术研究院总法律顾问

14:50-15:20

主题报告

丹尼尔 R. 伍德 / 麻省理工学院媒体艺术与科学系副教授；麻省理工学院航空航天系（兼任）副教授

15:20-15:50

探索跨学科方法以保护黑暗和宁静的天空免受卫星星座干扰

科琳·乔根森 / Advancing Space 咨询集团负责人、国际宇航科学院院士

15:50-16:00

茶歇

16:00-16:30

主题报告

克劳迪奥·马科内 / 国际宇航科学院科学空间探索主任、意大利国立天体物理研究所研究员

16:30-17:00

空间活动长期可持续 - 从空间交通管理到空间环境治理

龚自正 / 深空探测实验室高级研究员

17:00-17:40

圆桌论坛

科琳·乔根森 / Advancing Space 咨询集团负责人、国际宇航科学院院士

17:40

结束语

闭幕式

2024年12月12日 19:30-21:00 海南国际会展中心 301 会议室

主办单位： 国际和平联盟（太空）

联合主办单位： 中国电子商会、中国遥感应用协会、中国卫星导航定位协会、中国通信工业协会、中国宇航学会、海南空天信息研究院、海南省航天技术创新中心、海南中实（集团）有限公司

国际支持单位： 国际宇航科学院、国际宇航联合会、空间研究委员会、美国航天基金会、太空探索者协会、国际空间大学、莱斯大学贝克研究院国际空间医学峰会、乔治布什美中关系基金会、巴黎萨克雷大学基金会

主持人 ▶ 于海宁 / 原广州电视台栏目主持人

致辞

19:30-19:35

安迪·特内奇 / 大会联合主席、太空探索者协会 (ASE) 执行理事

19:35-19:40

李达伟 / 美国莱斯大学第 7 任校长

19:40-19:45

丁文锋 / 大会联合主席、中国西部人才开发基金会空间信息技术和平利用专项基金主任

19:45-19:50

帕特里克·杜沃 / 巴黎萨克雷大学副校长、巴黎萨克雷大学基金会主席

19:50-19:55

托尼·安东内利 / 前 NASA 宇航员，安东内利咨询公司创始人

- 19:55-20:00** 托尼·安东内利 / 前 NASA 宇航员，安东内利咨询公司创始人
- 20:05-20:10** 武建东 / 国际智能电网联盟理事、中国智慧工程研究会副会长，中国国家十二五专项规划组组长兼首席专家
- 20:10-20:15** 亚历山大·萨玛库查耶夫 / 俄罗斯联邦英雄、俄罗斯联邦宇航飞行员
- 20:15-20:20** 武建东 / 国际智能电网联盟理事、中国智慧工程研究会副会长，中国国家十二五专项规划组组长兼首席专家
- 20:20-20:25** 吉乐·帕格诺 / 前欧洲议会议员
- 20:25-20:30** 尼尔·布什 / 大会名誉主席，乔治布什美中关系基金会主席
- 主题报告**
- 20:30-20:45** **美中经贸合作**
哈利·赛亚丁 / 博士，2017 年奥斯陆商业促进和平奖获奖者（由诺贝尔和平奖及经济奖评审委员会授予），暨南大学客座教授，阿来龙能源总裁，华南美国商会主席兼任会长
- 20:45-21:00** **空间模拟隔离研究：组织经验与国际合作前景**
马克·别拉科夫斯基 / 俄罗斯科学院生物医学问题研究所（IMBP）所长，俄罗斯联邦国家科技奖获得者，荣誉医疗工作者
- 21:00-21:15** **气溶胶：面向太空及更远领域的药物**
亚历山大·汉内科夫 / 莫斯科地区出口中心可持续发展顾问
- 21:15-21:20** **宣读大会成果**
让-米歇尔·康坦 / 大会联合主席、国际宇航科学院秘书长
- 21:20-21:25** **空间技术应用与转换优秀项目推荐**
刘英 / 中国电子商会常务副秘书长
- 21:25-21:30** **致辞并宣布大会闭幕**
克里斯蒂安·费施廷格 / 大会联合主席、国际宇航联合会执行主任、国际宇航科学院院士
- 21:30** **合影**



IPSPACE 2024

2024 INTERNATIONAL SYMPOSIUM ON THE PEACEFUL USE
OF SPACE TECHNOLOGY - HEALTH

TUE, Dec.10, 2024

Plenary Session

Focusing on the areas of health, education and sustainable development, IPSPACE 2024 aims to explore the promotion of social and economic progress through the peaceful use of space technology. The theme of the session is "Peace for the Future, the Future Through Peace", highlighting scientific research, technological innovation, and popular science, and discussing a wide range of topics, such as space technology development, innovative solutions for technology transformation and commercialization, promotion of global cooperation and industry development, and the cultivation of space talents.

Time GMT+8:	14:30-17:30
Venue:	Banquet Hall 1 & 2, Haikou Marriot Hotel
Hosts:	International Peace Alliance (Space) (IPA)
Co-Hosts:	China Electronics Chamber of Commerce (CECC); China Association of Remote Sensing Applications (CARSA); GNSS & LBS Association of China (GLAC); China Communications Industry Association (CCIA); Hainan Aerospace Information Research Institute (HNAIR); Hainan Aerospace Technology Innovation Center (HATIC); CIIC Group
Supporters:	International Academy of Astronautics (IAA); International Astronautical Federation (IAF); Committee on Space Research (COSPAR); Space Foundation; Association of Space Explorers (ASE); International Space University (ISU); Rice University's Baker Institute's International Space Medicine Summit; George W. Bush Foundation for U.S.-China Relations; Fondation de l'Université de Paris Saclay
Moderator:	Haining YU
14:30-14:33	Opening Video
	Remarks
14:34-14:37	IPSPACE Chair (local): Ge LUO, President, China Association of Remote Sensing Applications (CARSA); Academician of the International Academy of Astronautics (IAA)
14:38-14:41	IPSPACE Chair (Intl.): Christian FEICHTINGER, IPSPACE Co-Chair; Executive Director, International Astronautical Federation (IAF); Academician of the International Academy of Astronautics (IAA)
14:42-14:45	Hainan Provincial People's Government Rep.
14:45-15:05	Jean-Michel CONTANT, IPSPACE Co-Chair; Secretary-General of the International Academy of Astronautics (IAA)
	Keynote Report: Green Space and One Home
15:05-15:20	Jianyu WANG, Academician of the Chinese Academy of Sciences; Dean, Hangzhou Institute for Advanced Study, University of the Chinese Academy of Sciences; Chief Professor, School of Physics and Optoelectronic Engineering, University of the Chinese Academy of Sciences; Fellow, International Society for Optics and Photonics (SPIE); Member, COS-BAR China Committee; Chair, SPIE Asia-Pacific Remote Sensing; Chair, Conference on Multispectral/Hyperspectral Remote Sensing Technology and Applications
	Keynote Report: Spectral Earth Sensing Technology and Development Thinking

15:20-15:35	David LEEBRON, The 7th President, Rice University
	Keynote Report: Innovation and Change in Higher Education, and its Impact on a New Era of Space Exploration
15:35-15:50	Baoyan DUAN, Academician, Chinese Academy of Engineering; Professor, Xidian University
	Keynote Report: New Development of OMEGA - SSPS with Completed Links and Systems
15:50-16:05	Oleg ORLOV, IPSPACE Co-Chair; President of the Institute of Biomedical Problems (IMBP), RAS; Academician of the Russian Academy of Sciences (RAS); Academician of the International Academy of Astronautics (IAA)
	Keynote Report
16:05-16:15	Break
16:15-16:30	Yulin DENG, IPSPACE Co-Chair; Academician of the International Academy of Astronautics (IAA); Chair Professor of Beijing Institute of Technology
	Keynote Report: Integrating Medical and Engineering Tech with Space Tech's Application, to Build an Integrated Innovation System for Aviation Medical Rescue Covering "Transportation, Monitoring, Detection, Intelligence, and Treatment".
16:30-16:45	Pascale EHRENFREUND, IPSPACE Co-Chair; President of COSPAR; Academician of the International Academy of Astronautics (IAA)
	Keynote Report: Scientific Research, Technological Innovation and Space Sustainability
16:45-17:00	Zizheng GONG, Senior Research Professor, Deep Space Exploration Laboratory
	Keynote Report
17:00-17:30	Olga BANNOVA, Director, SICSA; Research Professor, Cullen College of Engineering, University of Houston Leroy Chiao, NASA astronaut, former International Space Station commander
	Keynote Presentation: Space Environment Governance: Challenges and Opportunities
17:30	Closing Summary; Photo Opportunity

TUE, Dec. 10, 2024

Opening Ceremony

Time GMT+8:	20:00-22:35
Venue:	Banquet Hall 1 & 2, Haikou Marriot Hotel
Hosts:	International Peace Alliance (Space) (IPA)
Co-Hosts:	China Electronics Chamber of Commerce (CECC); China Association of Remote Sensing Applications (CARSA); GNSS & LBS Association of China (GLAC); China Communications Industry Association (CCIA); Hainan Aerospace Information Research Institute (HNAIR); Hainan Aerospace Technology Innovation Center (HATIC); CIIC Group
Supporters:	International Academy of Astronautics (IAA); International Astronautical Federation (IAF); Committee on Space Research (COSPAR); Space Foundation; Association of Space Explorers (ASE); International Space University (ISU); Rice University's Baker Institute's International Space Medicine Summit; George W. Bush Foundation for U.S.-China Relations; Fondation de l'Université de Paris Saclay
Moderator:	Haining YU
20:00-20:15	Opening Show
20:15-20:20	Opening Video
Remarks	
20:20-20:25	Hainan Provincial People's Government Rep.
20:25-20:30	Tianyi WANG, IPSPACE Executive Chairman; Executive Chairman of the International Peace Alliance (Space); Academician of the International Academy of Astronautics (IAA)

20:30-20:35	Zongtang LIN, IPSPACE Honorary Chair; Former Minister, China National Aerospace Industry
20:35-20:40	Jiyuan LIU, Former President, the China National Space Administration; Former Vice-President, the International Academy of Astronautics
20:40-20:45	Siddharth Chatterjee, UN Resident Coordinator in China [video]
20:45-20:50	Ning WANG, IPSPACE Standing Chair; President, China Electronics Chamber of Commerce (CECC)
20:50-20:55	Aarti HOLLA-MAINI, Director of UNOOSA [video]
20:55-21:00	Hui LUO, Director-General of the Department of International Affairs, China Association for Science and Technology (CAST)
21:00-21:05	Christian FEICHTINGER, IPSPACE Co-Chair; Executive Director, International Astronautical Federation (IAF); Academician of the International Academy of Astronautics (IAA)
21:05-21:10	China National Space Administration
21:10-21:15	Pascale EHRENFREUND, IPSPACE Co-Chair; President of COSPAR; Academician of the International Academy of Astronautics (IAA)
21:15-21:20	Steve EISENHART, IPSPACE Co-Chair; Senior Vice President, Strategic & International Affairs, Space Foundation
21:20-21:25	Jean-Pierre Raffarin, Founding Chairman, Alliance for World Peace Leaders; Recipient of the Medal of Friendship; Former Prime Minister of France
21:25-21:30	Wenlian CAO, Former Director, International Cooperation Center of National Development and Reform Commission; Vice President, China Society of Economic Reform (CSER)
21:30-21:35	Harley SEYEDIN, Ph.D., Winner of the 2017 Oslo Business for Peace Award – Awarded by an Award Committee of Nobel Laureates in Peace and Economics; Visiting Professor, Jinan University; President, Allelon Energy Partners; President, American Chamber of Commerce in South China
21:35-21:40	Ke WANG, Vice Secretary General, China NGO Network for International Exchanges
21:40-21:45	Andy TURNAGE, IPSPACE Co-Chair; Executive Director, Association of Space Explorers (ASE)
21:45-21:50	Ge LUO, IPSPACE Co-Chair; Chairman, China Association of Remote Sensing Application
21:50-21:55	Chi WANG, Academician of the Chinese Academy of Sciences; Director of the National Space Science Center, Chinese Academy of Sciences
21:55-22:00	Yuhong MO, Director of Investment, Infrastructure Dept., China State Construction Engineering Corporation (CSCEC)
22:00-22:05	Neil BUSH, IPSPACE Honorary Chair; Chairman, George H. W. Bush Foundation for U.S.-China Relations
22:05-22:10	Memorial Event
	Presidium representatives
22:10-22:15	Remarks and declare opening of IPSPACE 2024: Jean-Michel CONTANT, IPSPACE Co-Chair; Secretary-General of IAA
22:15-22:35	Signing Ceremony
22:35	Photo Opportunity

WED, Dec. 11, 2024

<p>Session: Spatial IT for a Shared Sustainable Future <i>Theme: Earth Health Evaluation and Sustainable Development</i></p>	
<p>To accelerate the implementation of the United Nations' 2030 Agenda for Sustainable Development and strive towards achieving the set goals on schedule, the Session organizes discussions on how to better leverage means such as communication, navigation, and remote sensing to acquire spatial information, effectively monitor global atmospheric, water, carbon, and energy cycles as well as corresponding human activities, and thereby scientifically evaluate the health of the Earth. The Session also explores ways to strengthen the bidirectional drive of technological innovation and industrial innovation, promote the deep application of spatial information and the digitization of industries, and make better use of market-oriented approaches to safeguard Earth's health and sustainable human development.</p>	
Time (GMT+8):	09:00-12:00
Venue:	201, Hainan International Convention and Exhibition Centre
Hosts:	International Peace Alliance (Space); China Application of Remote Sensing Application (CARSA); GNSS and LBS Association of China (GLAC); China Communications Industry Association (CCIA); Hainan Aerospace Information Research Institute (HNAIR); Hainan Aerospace Technology Innovation Center (HATIC)
Intl. Chair:	Barbara RYAN, Executive Director of World Geospatial Industry Council (WGIC) and Co-Chair of IAF GLOC 2023 Academic Committee
Local Chair:	Zheng WEI, IPSPACE Joint-Secretary-General; Secretary-General, China Association of Remote Sensing Applications (CARSA)
Moderator:	Zheng WEI, IPSPACE Joint-Secretary-General; Vice-President and Secretary-General, China Association of Remote Sensing Applications (CARSA)
09:00-09:05	Opening Video
09:05-09:10	Introduction of speakers
	Remarks
09:10-09:15	Christian FEICHTINGER, IPSPACE Co-Chair; Executive Director, International Astronautical Federation (IAF)
08:15-09:20	Xiancheng YU, President, GNSS & LBS Association of China (GLAC)
09:20-09:25	Bingke WANG, President, China Communications Industry Association (CCIA)
09:25-09:30	Xiaoming LI, Executive Dean, Hainan Aerospace Information Research Institute (HNAIR); Director, Hainan Aerospace Technology Innovation Center (HATIC)
09:30-09:35	Barbara RYAN, Executive Director of World Geospatial Industry Council (WGIC) and Co-Chair of IAF GLOC 2023 Academic Committee
Moderator:	Xiaogan WU, Vice Secretary General, GNSS & LBS Association of China (GLAC)
09:35-09:55	Mingsen LIN, Researcher, National Satellite Ocean Application Center; Corresponding member, International Academy of Astronautics (IAA)
	Global Ocean Monitoring and Blue Carbon Trading Related Reports
09:55-10:15	Xuhui SHEN, Researcher, National Space Science Center, Chinese Academy of Sciences; Corresponding member, International Academy of Astronautics (IAA)
	Report on Global Ecological Environmental Monitoring and Environmental Securitization
10:15-10:35	Maria-Gabriella SARAH, Strategy and Foresight Department, European Space Agency (ESA)
	how space helps global challenges on Earth
10:35-10:50	Break

Moderator:	Anqi MOU, Executive Deputy Director, China Communications Industry Association (CCIA); Chairman, Shanghai Mingwei
10:50-11:10	Daguang LI, Professor, Hainan University
	Global Carbon Circulation Monitoring and Greenhouse Gas Emission Trade
11:10-11:30	Rachita Agrawal, Indraprastha Research Fellow, USLLS, GGSIPU
	The Future of Farming and Global Food Security: Integration of Space Technology in Terrestrial Agriculture Practices
11:30-11:50	Donghua CHEN, Special Researcher, Counsellor's Office of The People's Government of Anhui Province; Professor, School of computer and Information Engineering, Chuzhou University
	Satellite Application in Anhui Province Supporting Sustainable Development of the Yangtze River Delta Region
11:50-12:10	Kaicong Long, Vice Chairman & Secretary General of ZGC Commercial Aerospace Industry Innovation Alliance
	Building Global Ecosystem for Commercial Aerospace and Promoting Spatial Information Application for Human Benefit
12:10	Closing Summary; Photo Opportunity

WED, Dec. 11, 2024

Session: Commercial Space & Investment

Amid the booming space and low-altitude economy, the need for collaboration between space tech enterprises and financial institutions is growing. This session gathers key regulatory leaders, experts, and top space, finance, and innovation firms from China and abroad. Focusing on commercializing R&D outcomes, we'll discuss global cooperation and more. Our goal: to harness finance to foster peaceful space tech use while bolstering both Hainan's and the global space sector.

Time GMT+8:	09:00-12:30
Venue:	301, Hainan International Convention and Exhibition Center
Hosts:	International Peace Alliance (Space)
Organizer:	Wingo Fund; Commercial and Cultural Finance Working Committee of China Federation of Urban Commercial Outlets Construction Administration
Intl. Chair:	Matt THOMPSON, CEO, McFaddens Co.; Representative, CIIC McFaddens Holdings (English, Online, on-site simultaneous interpretation)
Moderator	Shuhuai DUAN, Executive Director, China Federation Of Urban Commercial Outlets Construction Administration
09:00-09:05	Opening Video
Remarks	
09:06-09:09	Weiqun ZHU, Member of the Standing Committee of the 12th National Committee of the Chinese People's Political Consultative Conference (CPPCC), Director, Ethnic and Religious Affairs Committee
09:09-09:13	Hongzhang WANG, Former Secretary of Party Committee, Former Chairman, China Construction Bank
09:13-09:16	Xiaoting NI, Former Special Inspector, The State Council, P.R.C.; Chairman, Supervisory Committee, State-owned Assets Supervision and Administration

09:16-09:19	Shunda LIU, President of China Electric Power Equipment Management Association; former Chairman of the Board of Supervisors of Key Large State-owned Enterprises
09:19-09:22	Remarks by representative from supporting organization Wenlian CAO, Former Director of the International Cooperation Center of the National Development and Reform Commission.
09:22-09:25	Remarks by representative from Host Matt THOMPSON, CEO, McFaddens Co.; Representative, CIIC McFaddens Holdings (English, Online, on-site simultaneous interpretation)
Keynote Presentations	
09:25-09:40	Qing ZHU, Tier-2 Professor, School of Finance, Renmin University of China; Vice President, China Taxation Society; Standing Council Member, China Fiscal Society; Expert, Expert Studio, Ministry of Finance; Distinguished Professor, National Taxation Administration Tax Officials College. Technological Innovation and Tax Policy Support
09:40-09:55	Rajeeshwaran MOORTHY, Executive Fellow, The Digital Economist; Professor, Hult International Business School; Professor, Ashridge Executive Education Investment and Financing in the Emerging Space Economy (Online)
09:55-10:10	Xijun ZHAO, Former Researcher at the International Department of the China Securities Regulatory Commission (CSRC); Vice President, School of Finance, Renmin University of China Monetary Policy Adjustments And Low-altitude Industrial Investment
10:10-10:20	Frank JANSEN, 1A - First Applications Greifswald, Germany Peaceful at Heart Means Internationally Plus Economic with Humans to Mars!
10:20-10:30	Fulun XUAN, General Manager, North China Region, Fengyi Technology (Shenzhen) Co., Ltd., SF Group Typical Use Cases of Phoenix Wings UAVs
10:30-10:45	Break
10:45-11:00	Bolin CHENG, Vice Director, UAV Working Committee, China Air Transport Association; Vice President, General Aviation Branch, China Information Industry Association Investment Opportunities in Low-Altitude Economy
11:00-11:15	Yang LIU, Founding Partner and Director, JZYJ (Beijing) Space Technology Co., Ltd. Exploration and Development of Commercial Liquid Rocket Engine Technology and Industry
11:15-11:30	Tianping MA, Researcher at the Financial Security Research Center, Tsinghua University PBC School of Finance, Postdoctoral Fellow of the People's Bank of China Development and Security of Industry: How to Avoid International Sanction
11:30-11:45	Tianxing HE, Vice President of EHang Holdings Limited Harnessing New Quality Productive Forces in the Low-Altitude Economy to Foster Urban Green Spaces and Advance New Development.
11:45-12:20	Panel Discussion: "Financial Capital Empowering the Conversion of Technological R&D Outcomes"
Moderator:	Haipeng WU, Director, China Federation Of Urban Commercial Outlets Construction Administration
Members:	Chunman LIANG, Former Vice Chairman, Everbright Trust; Vice Leader, Property Insurance Preparation Department, China Everbright Group

Moderator:	Haipeng WU, Director, China Federation Of Urban Commercial Outlets Construction Administration
Members:	Chunman LIANG, Former Vice Chairman, Everbright Trust; Vice Leader, Property Insurance Preparation Department, China Everbright Group
	Zhaohui YU, Managing Partner of Meta Capital, Board of Trustees member of Renmin University of China and Co-Director of the Institute of International Mergers and Acquisitions and Investments.
	Yan QU, Chairman of Beijing Hua'an Tiancheng Technology Co., Ltd.
	Yang LIU, Founding Partner and Director, JZYJ (Beijing) Space Technology Co., Ltd.
12:20-12:30	Closing Remarks, Group Photos
12:30-13:30	Lunch

WED, Dec. 11, 2024

Session: Space Power and Terrestrial Energy

Finding, studying, developing and deploying new sources of energy that are cost-appropriate and sustainable is critical. This need is driven by the demand for energy from economic growth against the backdrop of a growing number of people on the planet. Another reason is the concern that fossil fuels are contributing to the long-term accumulation of greenhouse gases in the Earth's atmosphere and that annual oil production will begin to decline. Transforming the current terrestrial energy system into a more environmentally friendly and sustainable system is a challenge. The session will discuss the entire process, from power generation, conversion to storage, and the prospect of utilizing space-based power plants to remotely provide energy to the Earth.

Time GMT+8:	08:30-12:00
Venue:	302, Hainan International Convention and Exhibition Centre
Host:	International Peace Alliance (Space)
Organizer:	International Academy of Astronautics (IAA)
Session Chair:	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
Local Chair	Baoyan DUAN, Academician of Chinese Academy of Engineering, Professor of Xi'an University of Electronic Science and Technology
	Cheng'yu FU, Co-Chair; Former Board Chairman, Sinopec
Moderator	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
08:30-08:35	Opening Video
	Remarks
08:35-08:40	Jean-Michel CONTANT, IPSPACE Co-Chair; Secretary-General of IAA
08:40-08:50	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
08:50-09:00	Cheng'yu FU, Co-Chair; Former Board Chairman, Sinopec
09:00-09:20	Xinbin HOU, Senior Researcher, Qian Xuesen Laboratory of Space Technology, China Academy of Space Technology
	MMR-SPS and Possible Demonstration Missions
09:20-09:40	David HOMFRAY, CTO, Space Solar
	SSL' s Vision for Space Solar Power
09:40-10:00	Joon-Min CHOI, Korea Aerospace Research Institute (KARI)

	Current Achievements in Space Solar Power R&D in Korea
10:00-10:30	Break
10:30-10:50	Serdar BAYCAN, Founding Director, Space Solar Technology (SST)
	SSP Developments in Australia
10:50-11:10	Aleksandr Khanykov, Sustainable Development Counselor, Moscow Region Export Center
	Preparing for Risks & Opportunities in the Low Carbon Energy Transition
11:10-11:30	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
	IAA-NSS-IAF SSP Study Project
11:30-12:00	Panel Discussion
Moderator:	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
	All speakers in-person and online
12:00	Closing remarks by moderator; End of session

WED, Dec. 11, 2024

Session: Green Space Propulsion

This session will present the unique environmental challenges of suborbital, Earth-to-orbit and space propulsion; greener space propulsion for chemical and non-chemical rockets, liquid, solid and hybrid rocket systems; promising green space propellants for a wide range of space missions; and advanced green propulsion systems for ramjet engines, scramjet engines, airjet engines, nuclear, solar and other advanced rocket systems.

Time GMT+8:	14:00-18:00
Venue:	301, Hainan International Convention and Exhibition Centre
Host:	International Peace Alliance (Space)
Organizer:	International Academy of Astronautics (IAA)
Inte. Chairs:	Joseph CASSADY, Executive Director of Aerojet Rocketdyne, Arlington, USA; Academician of the International Academy of Astronautics (IAA)
	Antonella INGENITO, Professor, School of Aerospace Engineering, Sapienza University of Rome; Academician of the International Academy of Astronautics (IAA)
Local Chair:	Riheng ZHENG, Professor, Beihang University; Academician of the International Academy of Astronautics (IAA)
Moderator:	Riheng ZHENG, Professor, Beihang University; Academician of the International Academy of Astronautics (IAA) Joseph CASSADY, Executive Director of Aerojet Rocketdyne, Arlington, USA; Academician of the International Academy of Astronautics (IAA)
14:00-14:05	Opening Video
14:05-14:10	Opening Remarks: Introduce Session and Speakers
	Riheng ZHENG, Professor, Beihang University; Academician of the International Academy of Astronautics (IAA)
	Joseph CASSADY, Executive Director of Aerojet Rocketdyne, Arlington, USA; Academician of the International Academy of Astronautics (IAA)
	Keynote Report (each including 5-min Q&A)
14:10-14:30	Joseph CASSADY, Executive Director of Aerojet Rocketdyne, Arlington, USA; Academician of the International Academy of Astronautics (IAA)
	Keynote Presentation: Rocket Propulsion: Hitting the Reset Button

14:30-14:50	Yanming WEI, Research Professor, Beijing Institute of Control Engineering
	Keynote Presentation: High-power Electric Propulsion Technology Based on Space Nuclear Power Supply
14:50-15:10	Les JOHNSON, Physicist, Author, NASA technologist; Academician of the International Academy of Astronautics (IAA); Three-time recipient of the NASA Distinguished Service Medal; Fellow of the British Interplanetary Society; Member of the Science Fiction and Fantasy Writers of America, the National Space Society, and MENSA.
	Keynote Presentation: Propulsion for Interstellar Travel
15:10-15:30	Jianping WANG, Professor, Peking University
	Keynote Presentation: Overview of Continuously Rotating Detonation Engine Research at Peking University
15:30-15:50	Arif KARABEYOGLU, Faculty Member at KOÇ University; CEO, Delta V Space technologies corporation; CTO, the Fergani Space company
	Keynote Presentation: Recent Developments in Green Propulsion Technologies for Space Transportation Systems
15:50-16:10	Bhavya LAL, Professor of Policy Analysis, Pardee RAND Graduate School
	Keynote Presentation: Safe and Sustainable Use of Space Nuclear Power
	Break
16:20-16:40	Antonella INGENITO, Professor, School of Aerospace Engineering, Sapienza University of Rome; Academician of the International Academy of Astronautics (IAA)
	Keynote Presentation: Advancement in Numerical Modelling for Enhancing Scramjet Performance
16:40-17:00	Frank JANSEN, 1A - First Applications Greifswald, Germany
	Keynote Presentation: Humans to Mars - Earthwide Cooperation
17:00-17:20	Andrei SHUMEIKO, Lecturer, Bauman Moscow State Technical University; member of the IAF Space Propulsion Committee, CEO of Advanced Propulsion Systems LLC
	Keynote Presentation: Electrodeless Plasma Thrusters with Thrust-Vectoring Capability: from First Flight Tests to New Horizons
17:20-17:40	Zheng YU, Graduate Student, School of Energy and Power Engineering, Beihang University, China
	Keynote Presentation: Influence of key parameters on aerodynamic performance of the ejector nozzle in high-speed turbine engine
17:40-18:00	Riheng ZHENG, Professor, Beihang University; Academician of the International Academy of Astronautics (IAA)
	Keynote Presentation: Research Progress on Multi-Cavity Combustion System in Scramjet
Q&A participants	
Lamartine GUIMARAES, Brazilian nuclear space / INPPS flagship exper; ITA (Instituto Tecnológico de	
Dr. Franklin Chang Diaz, astronaut; worldwide most powerful electric thruster owner VASIMIR	
Prof. Bernhard Schmidt-Tedd, UN Nuclear Power Source Principles expert (English and Russian versions)	
Dr. Jim Kuijper, Founder, NUCLIC - Nuclear Innovation Consultancy	
Dr. Alexander Semenko, Director Keldych Research Center Moscow, KeRC is scientifically in charge for the	

WED, Dec. 11, 2024

Session: Space Elevators for Green Space Activity	
<p>The space elevator, as a permanent space transportation and logistics infrastructure, will be able to routinely deliver large volumes of goods (initially 30,000 tons per year) to geostationary orbit (GEO) and beyond in a regular, cost-effective and environmentally friendly manner. This session will discuss this significant development as the commercial space elevator project enters the engineering development phase. The basic design of the Space Elevator has been established and will be used in a variety of applications, such as delivering space-based solar-powered satellites into GEO, transporting one million tons of goods to Mars, and directly supporting activities in Earth-Moon space once the Space Elevator is completed. The session will explore the current state of engineering and customer demand projections for the space elevator, while focusing on the extraordinary concept of a “dual space access strategy” that combines the advantages of advanced rocketry and space elevators.</p>	
Time GMT+8:	14:00-17:00
Venue:	302, Hainan International Convention and Exhibition Center
Hosts:	International Peace Alliance (Space)
Organizer:	International Academy of Astronautics (IAA)
Intl. Chair:	Peter Swan, Doctorate, Senior Vice President, Galactic Harbour Associates, President, International Space Elevator Consortium (ISEC), Academician, IAA
Local Chair:	Jiafu LIU, Associate Professor, School of Aeronautics and Astronautics, Sun Yat-sen University
Moderator	Peter Swan, Doctorate, Senior Vice President, Galactic Harbour Associates, President, International Space Elevator Consortium (ISEC), Academician, IAA
14:00-14:05	Opening Video
14:05-14:15	Peter Swan, Doctorate, Senior Vice President, Galactic Harbour Associates, President, International Space Elevator Consortium (ISEC), Academician, IAA
	Introduce Session and Speakers
14:15-14:35	Jiafu LIU, Associate Professor, School of Aeronautics and Astronautics, Sun Yat-sen University
	Keynote Presentation: Lunar Tethered Elevator System Dynamics and Potential Applications
14:35-14:55	Peter Swan, Doctorate, Senior Vice President, Galactic Harbour Associates, President, International Space Elevator Consortium (ISEC), Academician, IAA
	Keynote Presentation: International Academy of Astronautics Enabling Space Elevators
14:55-15:15	Peter Swan, Doctorate, Senior Vice President, Galactic Harbour Associates, President, International Space Elevator Consortium (ISEC), Academician, IAA
	Keynote Presentation: Space Elevators as Permanent Space Access Infrastructure
15:15-15:25	Break
15:25-15:45	Paul W. Phister, Ph.D, P.E.; President, MANIAC Consulting
	Keynote Presentation: APEX ANCHOR: FULL-SERVICE LOGISTICS, TRANSPORTATION NODE AT THE TOP OF THE GRAVITY WELL
15:45-16:05	Peter Swan, Doctorate, Senior Vice President, Galactic Harbour Associates, President, International Space Elevator Consortium (ISEC), Academician, IAA
	Keynote Presentation: Supporting UN Sustainability Development Goals with Space Elevators-A Greener World

16:05-16:25	Paul W. Phister, Ph.D, P.E.; President, MANIAC Consulting
	Keynote Presentation: International Space Elevator Consortium’ s Support to Global Students
16:25-17:00	Panel Discussion
Moderator:	Jiafu LIU, Associate Professor, School of Aeronautics and Astronautics, Sun Yat-sen University
Members:	All Session speakers

WED, Dec. 11, 2024

Themed Forum: Innovative Space Education

This forum will present and discuss space education programs with a focus on K12. Experienced educators will share their insights on how to make space education more engaging and inspiring. The forum will focus on what can be done now to increase the impact of space technology on STEAM education for the improvement of society and the expansion of humanity into the universe.

Time GMT+8:	14:00-17:30
Venue:	Hainan Middle School
Organizers:	International Peace Alliance (Space) (IPA); Asia-Pacific Space Cooperation Organization(APSCO)
Host:	Hainan Middle School

Supporters	UNESCO, International Academy of Astronautics (IAA), International Astronautical Federation (IAF), Committee on Space Research (COSPAR), Space Foundation, Association of Space Explorers, International Space University, Rice University' s Baker Institute's International Space Medicine Summit (ISMS), George H.W. Bush Foundation for U.S.-China Relations, Specialized Fund for the Peaceful Use of Space and Information Technology, China Association of Children' s Science Instructors, Cite de l' espace、 Beijing Presidential Elite Education Technology Co., LTD
Co - Chairs	Pascale EHRENFREUND, IPSPACE Co-Chair; President of COSPAR; Academician of the International Academy of Astronautics (IAA)
	Yulin DENG, IPSPACE Co-Chair; Chair Professor of Beijing Institute of Technology, Academician of the International Academy of Astronautics (IAA)
	Xiaohui LI, Principal of Experimental High School Attached to Beijing Normal University, Vice President, China Association of Children's Science Instructors
	Yansong XU, Director General of Education and Training Department of Asia Pacific Space Cooperation Organization (APSCO)
Moderator	Yansong XU, Director General of Education and Training Department of Asia Pacific Space Cooperation Organization (APSCO)
14:00-14:05	Opening Video
14:05-14:15	Welcome Remarks
	Yulong TIAN, Strategy Consultant of Asia Pacific Space Cooperation Organization (APSCO); Academician, International Academy Astronautics
14:15-14:20	Siddharth Chatterjee, United Nations Resident Coordinator in China
14:20-14:25	Wenfeng DING, Co-Chair; President, Western China Human Resources Development Foundation, Co-Director General of the Specialized Fund for the Peaceful Use of Space and Information Technology
14:25-14:30	Pascale EHRENFREUND, IPSPACE Co-Chair; President of COSPAR; Academician of the International Academy of Astronautics (IAA)
14:30-14:35	Andy TURNAGE, IPSPACE Co-Chair; Executive Director, Association of Space Explorers (ASE)
14:35-14:40	Ping Y. Sun, Of Counsel at YetterColeman LLP
14:40-14:55	Yulin DENG, IPSPACE Co-Chair; Academician of the International Academy of Astronautics (IAA),Chair Professor of Beijing Institute of Technology
	Keynote Presentation: Talent Development and Space Science Education in the New era
14:55-15:10	Rosa DORAN, President of the Executive Council and senior researcher at NUCLIO, President of the Executive Council of the Global Hands-on Universe Association, Chair of the Panel of Education of COSPAR
	Keynote Presentation: Educating Future Generations for Sustainable Space Exploration
15:10-15:25	Tony ANTONELLI, former NASA Astronaut; Founder, Antonelli Consulting Company
	Keynote Presentation: How I got to Space and What I learned while I was there
15:25-15:35	Quentin PARKER, Director, Laboratory for Space Research, HKU
	Keynote Presentation: The importance of STEM education in the NewSpace economy
15:35-15:45	Jean-Baptiste Desbois, Independant Expert; Former Director General, Cité de l'espace; Former CEO, SEMECCEL
	Keynote Presentation: How to Inspire People and Educate Children for Space : the Roles of a Science Center
15:45-16:15	Campus Technology Innovation Showcase

	Showcase for Experimental High School Attached to Beijing Normal University and Hainan Middle School
	Comments & Q&A with:
	Dr. Jean-Michel CONTANT, Secretary-General of the International Academy of Astronautics (IAA)
	Christian FEICHTINGER, Executive Director of IAF, Academician of the International Academy of Astronautics (IAA)
16:15-16:55	University Presidents' Panel Discussion, centered on the theme: "Confluent Education for Cultivating Scientific Literacy Across Multicultural and Multi-Campus Environment"
	Gongling SUN, Professor, International Space University (ISU); Principal Scientist, Regional Centre for Space Science and Technology Education in Asia and the Pacific (China) (Affiliated to the United Nations)
	David W. LEEBRON, the 7th President of Rice University
	Daniel H. S. LEE, Associate Vice-President, Chinese University of Hong Kong (CUHK)
	Zhong HAN, Principal, Hainan Middle School
	Jian ZHANG, Principal, Haikou Yusha Experimental School
16:55-17:20	Astronauts' Messages
	Liwei YANG, Co-Chair, Taikonaut, Deputy Chief Designer of China Manned Space (CMS), Academician of the International Academy of Astronautics (IAA)
	Alexander SAMOKUTYAEV, Hero of the Russian Federation, Pilot-cosmonaut of the Russian Federation
	Anatoly ARTSEBARSKY, The last astronaut during the Soviet period; Cosmonaut
17:20-17:25	Neil BUSH, Chairman, George H. W. Bush Foundation for U.S.-China Relations
	Remarks
17:25-17:30	Closing Remarks, Group Photo

THU, Dec. 12, 2024

Session: Search for Extra-Terrestrial Intelligence (SETI)

This session will focus on the scientific, technological and interdisciplinary aspects of the Search for Extra-Terrestrial Intelligence (SETI), with special attention to its progress at the international level and in Asia. SETI researchers typically look for anomalies in astronomical data that may be related to other technological civilizations (so-called “technological signatures”) in the Milky Way and other galaxies. The search encompasses the entire electromagnetic spectrum and utilizes cutting-edge technology implemented on some of the world's largest telescopes.

Time GMT+8:	09:00-12:10
Venue:	302 , Hainan International Convention and Exhibition Center
Hosts:	International Peace Alliance (Space)
Organizer:	International Academy of Astronautics (IAA)
Intl. Chair:	Vishal GAJJAR, Staff Astronomer, SETI Institute; Visiting Researcher, University of California, Berkeley
Intl. Chair:	Michael GARRET, Inaugural Sir Bernard Lovell Chair of Astrophysics, the University of Manchester; Director, Jodrell Bank Centre for Astrophysics (JBCA)
Local Chair:	Tong-Jie ZHANG, Professor, Beijing Normal University
Moderator:	Tong-Jie ZHANG, Professor, Beijing Normal University
09:00-09:05	Opening Video
09:05-09:10	Tong-Jie ZHANG, Professor, Beijing Normal University
	Introduce Speakers
09:10-09:30	Vishal GAJJAR, Staff Astronomer, SETI Institute; Visiting Researcher, University of California, Berkeley [video]
	Keynote Presentation: Highest-frequency Technosignature Searches with the Sardinia Radio Telescope
09:30-09:50	Claudio MACCONE, Director for Scientific Space Exploration, International Academy of Astronautics (IAA, Paris); INAF Associate, Rome, Italy
	Keynote Presentation: MATHEMATICAL ASTROBIOLOGY: The Statistical Drake equation solved in 50 steps by Maccone's Lognormal Method
09:50-10:10	Tong-Jie ZHANG, Professor, Beijing Normal University (online) Bolun HUANG, Ph.D. student in Astrophysics at Beijing Normal University
	Keynote Presentation: SETI in China: Encompassing Scientific and Cultural Perspectives
10:10-10:30	Tongtian REN, University of Manchester, UK
	Keynote Presentation: High-resolution imaging of the radio source associated with Project Hephaistos Dyson Sphere Candidate G
10:30-10:40	Break
10:40-11:00	Joel EARWICKER, Research Assistant, SETI Institute
	Keynote Presentation: AGISETI: Bringing the Search for Extraterrestrial Intelligence to Every Classroom
11:00-11:20	Hongying CHEN, National Astronomical Observatories of China
	Keynote Presentation: Are we alone? - Searching for Kardashev Type III Civilization by Identifying Anomalous Outliers in the IR-radio Correlation
11:20-11:40	Michael GARRETT, Inaugural Sir Bernard Lovell Chair of Astrophysics at the University of Manchester; Director of the Jodrell Bank Centre for Astrophysics (JBCA)
	Keynote Presentation: SETI in the UK
11:40-12:10	Panel Discussion
	Moderator: Tong-Jie ZHANG, Professor, Beijing Normal University
	Members: All speakers in-person and online

THU, Dec. 12, 2024

Session: Exploration, Development & Protection of Earth's Moon

The Moon represents a tremendous resource for humanity in the 21st century and beyond – in terms of scientific discovery, in situ resource utilization, and commercial development. Construction and operations on the lunar surface and in lunar orbit will transform our future in cis-lunar space and on Earth. At the same time, the Moon is a unique resource for science: science of the Moon (e.g., geology), science on the Moon (e.g., laboratory sciences), and science from the Moon (including radio astronomy). Consideration and protection of the Moon's ability to support such science must go hand-in-hand with exploration and development. This session will consider prospective architectures, systems, technologies and research related to humanity's expansion to the Moon, review current plans and programs (government, commercial and scientific), as well as the emerging technologies that will make real the use of the Moon for the benefit of humanity.

Time GMT+8:	08:30-12:00
Venue:	301, Hainan International Convention and Exhibition Centre
Host:	International Peace Alliance (Space)
Organizer:	International Academy of Astronautics (IAA)
Inte. Chair:	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
	Claudio MACCONE, Director, Scientific Space Exploration; International Academy of Astronautics; Researcher, National Institute of Astrophysics, Italy
Local Chair:	Ji WU, Researcher, National Space Science Center, Chinese Academy of Sciences; Foreign Academician of the Russian Academy of Sciences
Moderator:	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
	Claudio MACCONE, Director, Scientific Space Exploration; International Academy of Astronautics; Researcher, National Institute of Astrophysics, Italy
08:30-08:35	Opening Video
	Opening Remarks
08:35-08:40	Jean-Michel CONTANT, IPSPACE Co-Chair; Secretary-General of IAA
08:40-08:50	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
	Keynote Presentations
08:50-09:10	Chinese representative
	China's Lunar Exploration Activities
09:10-09:30	Nasr AL-SAHHAF, Chair of the UN General Assembly backed International Moon Day; Regional Secretary, the International Astronautics Academy for MENA
	Keynote Presentation: The International Moon Day and Global Space Cooperation
09:30-09:50	Claudio MACCONE, Director, Scientific Space Exploration; International Academy of Astronautics; Researcher, National Institute of Astrophysics, Italy
	Keynote Presentation: Moon Farside Protection: Past, Present and Possible Future
09:50-10:10	Bernard FOING, Vice-Chair of COSPAR Panel on Exploration (PEX), Executive Director of International Lunar Exploration Working Group (ILEWG), EuroMoonMars & ArtMoonMars Manager, Professor at the Leiden University, IAA Member, Chair IAF ITACCUS Committee
	Keynote Presentation: Lunar Science and Exploration: upcoming missions and highlights from recent COSPAR and IAF community events
10:10-10:30	Break
10:30-10:50	Claudio MACCONE, Director, Scientific Space Exploration; International Academy of Astronautics; Researcher, National Institute of Astrophysics, Italy
	Keynote Presentation: Commonality of DARK SKY Protection and FARSIDE Protection
10:50-11:10	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power
	Keynote Presentation: Challenges of Lunar Exploration, Development and Settlement
11:10-11:30	Christian Bach, Head of Space Transportation, Chair of Space Systems Institute of Aerospace Engineering
	Keynote Presentation
11:30-12:00	Panel Discussion
Moderators:	John C. MANKINS, Co-Chair, IAA Permanent Committee on Space Solar Power

	Claudio MACCONE, Director, Scientific Space Exploration; International Academy of Astronautics; Researcher, National Institute of Astrophysics, Italy
Members:	All speakers in-person and online
12:00	Summary, End of Session

THU, Dec. 12, 2024

Session: Space Debris, Situational Awareness & Green Space	
<p>As space activities rapidly expand, Space Situational Awareness (SSA) and the long-term sustainability of space are becoming paramount concerns for the international community. This session will address the technical, operational, and policy-related aspects of SSA and sustainability, focusing on the identification, forecasting, tracking, and risk assessment of space threats and hazards. Topics will include proximity operations, space weather impacts, drag-controlled re-entry, non-propulsive deorbiting technologies, and orbital debris research, alongside critical issues like liability, insurance, and resource allocation.</p> <p>With increasing space debris, the deployment of low-orbit mega-constellations, and the surge in commercial space endeavors, the need for global collaboration and governance is more urgent than ever. The session will also explore active debris removal, near-Earth asteroid defense, and space governance strategies to foster a cooperative approach toward creating a sustainable, "green" space environment. By sharing monitoring data and coordinating international policy efforts, participants can help ensure safe, continued access to space and a secure future for all space users.</p>	
Time GMT+8:	8:30-12:50
Venue:	201, Hainan International Convention and Exhibition Centre
Hosts:	International Peace Alliance (Space)
Organizer:	International Academy of Astronautics (IAA)
Local Chair:	Zizheng GONG, Senior Research Professor, Deep Space Exploration Laboratory
Intl. Chair:	Oliver CONTANT, Executive Director, International Academy of Astronautics (IAA); Co-chair of the Markets & Financials for IAA Space Solar Power Permanent Committee; Co-Founder & President, International Innovation Research Institute (IIRI); Vice Chairman, venture capital the Trillions Co.; Founder & Chairman, Carbon Neutral Solutions Group (CNSG); Academician of the International Academy of Astronautics (IAA); Co-Editor, Acta Astronautica
Moderator:	Zizheng GONG, Senior Research Professor, Deep Space Exploration Laboratory
08:30-08:35	Opening Video
08:35-08:45	Opening Remarks by Session Chairs
Keynote Presentation	
08:45-09:15	Heiner KLINKRAD, Prof., TU Braunschweig, Institute of Space Systems (IRAS) Keynote Presentation: Space Debris Historic Evolution and Current Characteristics
09:15-09:35	Christophe BONNAL, Senior Expert in CNES Strategy Directorate; Chairman, the IAF Technical Committee on Space Traffic Management, Chairman, IAA Space Debris Committee Keynote Presentation: “Design for Non-Demise” D4ND as a solution to atmospheric reentry of orbital objects

	Keynote Presentation: “Design for Non-Demise” D4ND as a solution to atmospheric reentry of orbital objects
09:35-09:50	Oliver CONTANT, Executive Director, International Academy of Astronautics (IAA); Co-chair of the Markets & Financials for IAA Space Solar Power Permanent Committee; Co-Founder & President, International Innovation Research Institute (IIRI); Vice Chairman, venture capital the Trillions Co.; Founder & Chairman, Carbon Neutral Solutions Group (CNSG); Academician of the International Academy of Astronautics (IAA); Co-Editor, Acta Astronautica
	Keynote Presentation: IAA space debris 30+ years overview
09:50-10:05	Yezhi SONG, Professor, Shanghai Astronomical Observatory, Chinese Academy of Sciences
	Keynote Presentation: Multi - Source Information Fusion for Orbit Determination of Space Debris
10:05-10:20	Yuqiang LI, Principal Professor, Applied Astronomy Group, Yunnan Observatories, Chinese Academy of Sciences [represented by: Rufeng TANG]
	Keynote Presentation: Research on Laser Ranging of Space Debris
10:20-10:35	Nancy C. WOLFSON, Scholar, Lecturer, and Professor; Member of the American institute of Aeronautics and Astronautics (AIAA) [Co-presenter: Claudio MACCONE]
	Keynote Presentation: Planetary Defense: A Prerequisite for Long-Term Sustainability
10:35-10:50	Pei CHEN, Professor, School of Astronautics, Beihang University
	Keynote Presentation: Space-Ranger: Lowcost Embedded Payloads for Space Debris Surveillance
	Break
11:00-11:15	Zhen ZHAO, Professor, Aerospace System Engineering Shanghai
	Keynote Presentation: Research on LEO Space Debris Removal Technology
11:15-11:30	Rong CHEN, Senior Engineer, China Academy of Launch Vehicle Technology
	Keynote Presentation: Research on large-scale space debris mitigation and removal technology
11:30-11:45	Yunzhao WU, Professor, Purple Mountain Observatory, Chinese Academy of Sciences
	Keynote Presentation: Quantitative Mineral Inversion of Potentially Hazardous Asteroids (PHAs)
11:45-12:00	Xiaowei CHEN, Professor, Beijing Institute of Technology
	Keynote Presentation: New progress in hypervelocity impact of space debris cloud
12:00-12:15	Mingtao LI, Professor, National Space Science Center, Chinese Academy of Sciences
	Keynote Presentation: Analysis of the Orbital Deflection Efficiently of Gravitational Tractor for Asteroid Defense
12:15-12:30	Lazar JEFTIC, Science Fellow, MIRCE Akademy; Independent R&D Engineer, Space Debris Research Lab/Orbital Debris Observations
	Keynote Presentation: Environmental Impact of Orbital Debris Reentry – Marine and Soil Pollution
12:30-12:50	Zizheng GONG, Senior Research Professor, Deep Space Exploration Laboratory
	Keynote Presentation: Space Environment Governance: Challenges and Opportunities

THU, Dec. 12, 2024

International Health Forum: Space Technology and Human Health

This forum will focus on the intersection of space technology and human health, covering areas such as space medicine, biotechnology, and bioengineering. Discussions will include topics like leveraging space technology to monitor and improve human health on Earth, and studying the effects of extreme space environments and radiation on physical and biological systems. By exploring new technologies and trends in the application of space technology to the health industry, the forum aims to collectively advance the development and prosperity of global health initiatives.

Time GMT+8:	14:00-18:00
Venue:	301, Hainan International Convention and Exhibition Centre
Hosts:	International Peace Alliance (Space); China Electronics Chamber of Commerce (CECC); Society of Bioelectronics of the Chinese Institute of Electronics; China Association of Gerontology and Geriatrics; China Healthcare Center; the Chinese Institute for Cancer Prevention and Control
Co-Organizer:	Society of Healthcare of National Association of Health Industry and Enterprise Management
Supporters:	International Academy of Astronautics, the International Astronautical Federation, the U.S. Space Foundation, the Committee on Space Research, the Association of Space Explorers, the International Space University, the International Space Medicine Summit of the Baker Institute of Rice University, and the George W. Bush Foundation for U.S.-China Relations, Mayo Clinic, Fondation de l'Universite Paris-Saclay
Organizer:	State-Guest Entrepreneur Club, Beijing Carewell Health Management Co.,Ltd.
Intl. Chair:	Oleg ORLOV, President of the Institute of Biomedical Problems (IMBP), RAS; Academician of the Russian Academy of Sciences (RAS); Academician of the International Academy of Astronautics (IAA)
Local Chair:	Yulin DENG, President of the International Academy of Astronautics Life Sciences Commission at the International Academy of Astronautics (IAA) Chief Scientist of Institute of Engineering Medicine, Beijing Institute of Technology (BIT)
	Jichen DU, Director, Medical Science and Technology Committee, Science and Technology Committee of China General Technology Group; Director, Medical Science and Technology Committee of Genertec International Holding; General Manager, Aerospace Medical & Healthcare Technology Group; President of Aerospace Center Hospital; Academician of the International Academy of Astronautics (IAA)
Moderator	Mingchao DING, Director of Aerospace Medical Center
14:00-14:05	Opening Video
14:05-14:25	Remarks
	Oleg ORLOV, IPSPACE Co-Chair; President of the Institute of Biomedical Problems (IMBP), RAS; Academician of the Russian Academy of Sciences (RAS); Academician of the International Academy of Astronautics (IAA)
	Jichen DU, Director, Medical Science and Technology Committee, Science and Technology Committee of China General Technology Group; Director, Medical Science and Technology Committee of Genertec International Holding; General Manager, Aerospace Medical & Healthcare Technology Group; President of Aerospace Center Hospital; Academician of the International Academy of Astronautics (IAA)
	Tianyi WANG, Executive Chairman, International Peace Alliance (Space); Academician of the International Academy of Astronautics (IAA)
	The official of the Hainan Provincial Health Commission
14:25-14:50	Qing ZHANG, Member of the Standing Committee of the 13th National Committee of the Chinese People's Political Consultative Conference (CPPCC), Academician, International Nuclear Energy Academy; Professor, Institute of Nuclear and New Energy Technology and Department of Computer Science and Technology, Tsinghua University; Former Deputy Secretary of Party Leadership Group, Deputy Chairman, Member of Secretariat, China Association of Science and Technology

	Keynote Presentation: Trusworthy AI-aided diagnosis
14:50-15:05	Huda M. AYAS, Associate Dean, School of Medicine, George Washington University
	Keynote Presentation: The George Washington University School of Medicine and Health Sciences International Medicine Programs & Activities with China
15:05-15:20	Sergey PANOMAREV, D.of Sc., Head of laboratory, IBMP RAS
	Keynote Presentation: The IBMP medical and technical complex for developing innovative technologies in space biomedicine in the interests of ensuring orbital and interplanetary flights, as well as the development of practical healthcare
15:20-15:35	Mingda HUANG, Chairman of Executive Committee, World Health Industry Conference; Head of Chinese Traditional Medicine Healthcare Standard Panel; Director, Science and Technology Branch, Science and Technology Collaborating Center for Chinese Medicine China Academy of Chinese Medical Sciences; Head of Research Group on National Governance and the Healthy China Sustainable Development Strategy
	Keynote Presentation: Traditional Chinese Medicine for Space and the Life Touch of General Chinese Medicine
15:35-15:45	Break
15:50-16:05	Bernard FOING, Vice-Chair of COSPAR Panel on Exploration (PEX), Executive Director of International Lunar Exploration Working Group (ILEWG), EuroMoonMars & ArtMoonMars Manager, Professor at the Leiden University, IAA Member, Chair IAF ITACCUS Committee
	Keynote Presentation: Technology and human health highlights from EuroMoonMars Analog astronauts missions at HISEAS, MDRS, Europe and world sites
16:05-16:20	Xifeng WU, M.D., Ph.D., China National Top Talent Expert; Zhejiang Province Top Talent Expert; Dean and Professor, Zhejiang University School of Public Health; Vice President, The Second Affiliated Hospital of School of Medicine; Executive Dean, D. H. Chen School of Universal Health of Zhejiang University; Director, National Institute for Data Science in Health and Medicine; Director, Center for Big Data Research in Medical Insurance & Health Policy, Zhejiang University
	Keynote Presentation: Urban Environmental Monitoring and Resident Health Risk Assessment Based on RS and GIS
16:15-16:30	Soyeon YI, South Korean scientist and astronaut; Faculty Member of International Space University; Academician of the International Academy of Astronautics (IAA); Member of ASE
	Keynote Presentation: Healthcare Challenges of Space Flight
16:20-16:35	Yongjian WU, Director of Coronary Artery Disease Center, Fuwai Hospital Chinese Academy of Medical Sciences
	Keynote Presentation: The status of coronary heart disease diagnosis and treatment in China and the future response
16:45-17:00	Vyacheslav SHURSHAKOV, Head of Department for Radiation Safety of Manned Space Missions, Institute of Biomedical Problems of the Russian Academy of Sciences (IBMP RAS) (Co-author: Oleg Belov, PhD, Head of laboratory)
	Keynote Presentation: On ground accelerator experiments to study physical shielding from space radiation for radiation safety of current and future space missions
17:00-17:15	Nian XIN, Part-time Professor, Beijing Institute of Technology (BIT); Deputy General Manager, BIT Genshu
	Keynote Presentation: AI-based Intelligent Assistive Diagnostic and Therapeutic Technology for Traditional Chinese Medicine and Its Applications
17:05-17:45	Panel Discussion - High-end Dialogue
Moderator:	Ping ZHAO, Former Director of Cancer Hospital Chinese Academy of Medical Sciences

Moderator:	Ping ZHAO, Former Director of Cancer Hospital Chinese Academy of Medical Sciences
Members:	Shu ZHANG, Professor, Fuwai Hospital, Chinese Academy of Medical Sciences, National Center for Cardiovascular Diseases; Chair, Chinese Society of Arrhythmias; Vice President, World Association of Chinese Doctors; Former Chair, Asia Pacific Heart Rhythm Society, World Society of Arrhythmias
	Yawei ZHANG, Director, Prevention and Control Dept., National Cancer Center
	Kaisi ZHU, Chairman, Diabetology Branch, China Association of Gerontology and Geriatrics (CAGG)
	Xuezhong XU, Founder and President, ZhiBen Education
	Mohamad Z KOUBEISSI, Director of Neuroscience Center and Neurological Rehabilitation Center, Director of Comprehensive Epilepsy Center, George Washington University
	Soyeon YI, South Korean scientist and astronaut; Faculty Member of International Space University; Academician of the International Academy of Astronautics (IAA); Member of Association of Space Explorers (ASE)
17:55-18:00	Closing Remarks and Group Photo

THU, Dec. 12, 2024

Session: Space Law, Space Traffic Management and Green Space

This session will focus on the following topics:

- Survey area management, including security issues (cybersecurity, etc.);
- Airspace/orbital space integration, including the impact of microsatellites on airspace and communications standards;
- Space security and sustainability, including unique man-made space object identification;
- Security, including cybersecurity and space security challenges;
- Space environmental effects and impacts, including space weather forecasting;
- Related topics, such as the role of human factors in space traffic management, and international initiatives and concerns.

Time GMT+8:	14:00-17:40
Venue:	201, Hainan International Convention and Exhibition Centre
Hosts:	International Peace Alliance (Space)
Organizer:	International Academy of Astronautics (IAA)
Intl. Chair:	Corinne JORGENSON, Principal, Advancing Space Consulting Group; Academician of the International Academy of Astronautics (IAA)
Moderator:	Corinne JORGENSON, Principal, Advancing Space Consulting Group; Academician of the International Academy of Astronautics (IAA)
14:00-14:05	Opening Video

14:05-14:15	Introduce Session and speakers
	Keynote Presentation: Corinne JORGENSON, Principal, Advancing Space Consulting Group; Academician of the International Academy of Astronautics (IAA)
14:15-14:20	Guest Remarks
	Yifei LONG, Professor, Renmin University of China
14:20-14:50	Jilian WANG, Director, China Institute of Space Law (CISL); Standing Vice-Chairman of Professional Committee on Space Policy and Law, Chinese Society of Astronautics (CSA); General Counsel, China Academy of Space Technology
	Keynote Presentation
14:50-15:20	Danielle R. WOOD, Associate Professor of Media Arts and Sciences and Associate Professor (Joint) of Aeronautics and Astronautics, Massachusetts Institute of Technology
	Keynote Presentation
15:20-15:50	Corinne JORGENSON, Vice Chair of the IAA Space Traffic Management (STM) Standards Committee
	Keynote Presentation: Investigate a Transdisciplinary Approach to Protect the Dark and Quiet Sky from Satellite Constellation Interference
15:50-16:00	Break
16:00-16:30	Claudio MACCONE, Director, Scientific Space Exploration; International Academy of Astronautics; Researcher, National Institute of Astrophysics, Italy
	Keynote Presentation
16:30-17:00	Zizheng GONG, Senior Research Professor, Deep Space Exploration Laboratory
	Keynote Presentation: Long-Term Sustainability of Space Activities: From Space Traffic Management to Space Environment Governance
17:00-17:40	Panel Discussion
	Moderator: Corinne JORGENSON, Principal, Advancing Space Consulting Group; Academician of the International Academy of Astronautics (IAA)
17:40	Closing Summary

THU, Dec. 12, 2024

Closing Ceremony	
Time GMT+8:	19:30-21:00
Venue:	Hainan International Convention and Exhibition Center
Hosts:	International Peace Alliance (Space) (IPA)
Co-Hosts:	China Electronics Chamber of Commerce (CECC); China Association of Remote Sensing Applications (CARSA); GNSS & LBS Association of China (GLAC); China Communications Industry Association (CCIA); Hainan Aerospace Information Research Institute (HNAIR); Hainan Aerospace Technology Innovation Center (HATIC); CIIC Group
Supporters:	International Academy of Astronautics (IAA); International Astronautical Federation (IAF); Committee on Space Research (COSPAR); Space Foundation; Association of Space Explorers (ASE); International Space University (ISU); Rice University's Baker Institute's International Space Medicine Summit; George W. Bush Foundation for U.S.-China Relations; Fondation de l'Université de Paris Saclay
Moderator:	TBC
	Remarks
19:30-19:35	Andy TURNAGE, IPSPACE Co-Chair; Executive Director, Association of Space Explorers (ASE)
19:35-19:40	David LEEBRON, the7th President, Rice University
19:40-19:45	Wenfeng DING, IPSPACE Co-Chair; Director, Special Fund for the Peaceful Use of Space Technology, Western China Human Resources Development Foundation
19:45-19:50	Patrick DUVAUT, Vice President, Université Paris-Saclay; President, Fondation de l'Université Paris-Saclay
19:50-19:55	Tony ANTONELLI, former NASA Astronaut; Founder of Antonelli Consulting Company
19:55-20:00	Alexander SAMOKUTYAEV, Hero of the Russian Federation, Pilot-cosmonaut of the Russian Federation
20:05-20:10	Jiandong WU, Director, GridWise Alliance; Deputy Director, China Wisdom Engineering Association; Lead and Principal Expert, Special Group for the 12th Five-Year Plan
20:10-20:15	Gilles PARGNEUX, Former Member, the European Parliament
20:15-20:20	Neil BUSH, IPSPACE Honorary Chair; Chairman, George H. W. Bush Foundation for U.S.-China Relations
	Keynote Presentations
20:20-20:35	Harley SEYEDIN, Ph.D., Winner of the 2017 Oslo Business for Peace Award – Awarded by an Award Committee of Nobel Laureates in Peace and Economics; Visiting Professor, Jinan University; President, Allelon Energy Partners; President, American Chamber of Commerce in South China
	Economic and Trade Cooperation Between US and China and Advancing Space Industry Investment
20:35-20:50	Mark Belakovsky, Head of Department of the Institute of Biomedical Problems (IMBP), RAS, Laureate of RF State Prize in Science and Technology, Honored Worker of Healthcare
	Space Analog Isolation Research: Organizational Experience and Prospects for International Cooperation



20:50-21:05	Aleksandr Khanykov, Sustainable Development Counselor, Moscow Region Export Center
	Aerosol: Pharmaceuticals For Space and Beyond
21:05-21:10	Announcement: IPSPACE 2024 outcomes
	Jean-Michel CONTANT, IPSPACE Co-Chair; Secretary-General of the International Academy of Astronautics (IAA)
21:10-21:15	Recommend excellent projects on application and transformation of space technology
	Ying LIU, Executive Deputy Secretary-General, China Electronics Chamber of Commerce (CECC)
21:15-21:20	Closing Remarks and Announcing the end
	Christian FEICHTINGER, IPSPACE Co-Chair; Executive Director, International Astronautical Federation (IAF); Academician of the International Academy of Astronautics (IAA)
21:20	Photo opportunity

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主办单位 HOSTS



国际和平联盟（太空）

国际和平联盟（太空）（以下简称“IPA”）是于2018年10月注册成立的国际组织，由国际宇航界最具影响力的八家组织——国际宇航科学院（IAA）、国际宇航联合会（IAF）、国际空间法学会（IISL）、太空探索者协会（ASE）、国际空间大学（ISU）、（美国）航天基金会（Space Foundation）、莱斯大学贝克研究院国际空间医学峰会（ISMS）领导人担任联合主席，中、美、俄、欧等世界各地航天科学家、宇航员、太空医疗专家作为联盟成员。

IPA以空间技术和平利用（健康）国际研讨会（IPSPACE）为平台，旨在推动空间技术和平利用领域的国际合作和产业发展。截至2023年11月，IPA已连续举办6届IPSPACE大会。

2020年10月，IPA被IAF正式吸纳为会员。2022年12月，因其在空间技术和平利用领域所做的工作，联合国外空委（UN COPUOS）正式宣布，IPA获得联合国外空委观察员地位，并以联合国文件形式正式明确其法律地位。

International Peace Alliance (Space) (IPA)

Founded in October 2018, the International Peace Alliance (Space) (the "IPA"), is an international organization co-chaired by eight of the most influential international space organizations: the International Academy of Astronautics, International Astronautical Federation, International Institute of Space Law, Association of Space Explorers, International Space University, Space Foundation, Rice University's Baker Institute's International Space Medicine Summit. Members include space scientists, astronauts, and space medical experts from China, the United States, Russia, Europe, and other parts of the world.



Through the platform of the International Symposium on the Peaceful Use of Space Technology – Health (known as "IPSPACE"), IPA aims to promote international collaboration and development of industries relevant to the peaceful use of space technologies. By November 2023, IPA has successfully held the annual IPSPACE series symposiums for six consecutive years.

For its efforts in the global community on the peaceful uses of space, in December 2022, it was officially announced that IPA gained Observer status at the UN COPUOS. In October 2020, IPA became an official member of the International Astronautical Federation (IAF).



中国电子商会

中国电子商会于1988年成立,并在国家民政部登记注册,是全国电子信息行业从事生产、经营、科研及互联网服务(消费互联网、产业互联网)有关的企事业单位和团体自愿组成的国家一级社团组织,具有独立法人资格。党建领导机关为中央社会工作部,行业管理单位为工业和信息化部。在国内已有21个地方电子商会、35个专业委员会,拥有直属会员、分会会员、专业会员近16000多家。

中国电子商会是商务部第一批审定的有外展权的单位,主办或主要承办了:中国国际数字经济博览会(河北)、中国国际电子商务博览会(浙江)、中国国际光电博览会(深圳)、中国国际半导体设备材料制造和服务展览 SEMICON China(上海)、上海国际消费电子展(Tech-G)、中国数字经济产业发展大会、全球数字经济联盟峰会等大型系列活动,收获了广泛的社会影响力和国际国内市场口碑。

通过三十六年来的努力,中国电子商会已经发展成为一个在电子信息行业中具有一定盛誉,在国际上颇具影响力的国家级社团组织,与五十多个国家的行业商协会、行业管理部门长期保持紧密的合作关系。

China Electronics Chamber of Commerce (CECC)

China Electronics Chamber of Commerce (CECC) is founded in 1988 and now registered with the Ministry of Civil Affairs of P. R. China, who is a corporate organization of electronic industry incorporated on a voluntary basis with companies, groups, and industry organizations engaging in the production, distribution, research of electronic products. With the independent corporate status, CECC is under the guidance of Ministry of Industry and Information Technology of P. R. China on its business development. The supreme authority of CECC is Members' Congress, the General Council. CECC provides general service and business support to more than 16,000 direct members, branch members, and professional members through its 21 local chambers and 35 professional committees.

The China Electronic Commerce Chamber of Commerce is one of the first units authorized by the Ministry of Commerce to organize overseas exhibitions. It has hosted or primarily organized a series of large-scale events, including the China International Digital Economy Expo (Hebei), China International E-commerce Expo (Zhejiang), China International Optoelectronic Exposition (Shenzhen), SEMICON China (Shanghai), Shanghai International Consumer Electronics Show (Tech-G), China Digital Economy Industry Development Conference, Global Digital Economy Alliance Summit (D50), and more. These events have garnered widespread social influence and established a strong reputation in both domestic and international markets.

Through 36 years of hard work, the China Electronic Chamber of Commerce has evolved into a prestigious national-level social organization within the electronic information industry, wielding significant influence internationally. It maintains close and long-standing partnerships with industry associations, chambers of commerce, and industry regulatory bodies in over 50 countries.



中国遥感应用协会 (CARSA)

中国遥感应用协会 1993 年经中华人民共和国民政部批准注册，是中国遥感领域唯一的国家级行业协会。会员单位来自中国政府和各省（区、市）政府相关单位，高等学校、科研院所、企业等；覆盖电子政务、教育培训、公共安全、自然资源（含林草、地质、海洋、测绘）、生态环境、城乡建设、交通运输、水利、农业农村、文化旅游、卫生健康、应急管理、统计、科研、气象、能源等重要领域。现有分支机构 38 个，会员单位 600 多家，个人会员 6000 多人。

China Application of Remote Sensing Application

CARSA was approved for registration by Ministry of Civil Affairs of the People's Republic of China in 1993, and is the only national level remote sensing industry association in China. After 30 years development, CARSA has more than 600 organization members, 6000 individual members, and 38 branches now, which come from relevant units of Chinese national and provincial governments, universities, research institutes, enterprises, etc., covering e-government, education and training, natural resources (including forest and grass, geology, ocean, surveying, and mapping), ecological environment, urban and rural construction, transportation, water conservancy, agriculture, culture and tourism, health, emergency management, statistics, scientific research, meteorology, energy, and other important fields.



中国卫星导航定位协会

中国卫星导航定位协会（简称“中位协”，www.glac.org.cn）成立于1995年，是我国卫星导航与位置服务领域唯一的全国性行业协会，是国家民政部认定的4A级全国性社会组织，是中国科学技术协会团体会员单位。

中位协作为涵盖卫星（卫星导航、卫星通信、卫星遥感等应用）、导航（泛在的室内外无缝导航）、定位（天地基定位和泛在的时间空间位置服务）的全国性行业协会，积极加强党建引领，强化自身建设，提升服务能力，履行社会责任，发挥企业与政府的桥梁和纽带作用，坚持为企业服务、为行业服务、为政府服务、为社会服务的宗旨，致力于推动以北斗系统为核心的卫星导航与位置服务产业高质量发展，为北斗规模化应用与产业化发展持续贡献力量。

协会会员分布于全国各个地区，遍及交通运输、农林牧渔、水文监测、通信网络、电力调度、气象预报、救灾减灾、石油化工、移动互联网及测绘地理信息等领域，单位包括从事卫星导航与位置服务技术应用的科研、生产、经营企事业单位、社会团体、科研院所、高等院校等。目前，协会共设有35个专业委员会。

GNSS and LBS Association of China

Founded in 1995, GNSS and LBS Association of China, abbreviated as “GLAC”, is the only nationwide organization industry association in the field of GNSS and LBS in China. It is a Class-AAAA association approved by the Ministry of Civil Affairs of the People's Republic of China and a member organization of the China Association for Science and Technology.

GLAC covers satellite (satellite navigation, satellite communications, satellite remote sensing and other applications), navigation (ubiquitous indoor and outdoor seamless navigation), and positioning (space-based positioning and ubiquitous time-space location services). The association strives to strengthen its self-growth, enhance its service capabilities, and fulfill its social responsibility, acting as a bring between enterprises and governments, adhering to its mission of serving companies, industries, government bodies, and the entire society, promoting the high-quality development of GNSS and LBS industry large scale applications with Beidou system.

GLAC members are in all regions of China, industries include transportation, marine fisheries, hydrological monitoring, meteorological forecasting, mapping and geographic information technology, agriculture, forestry and animal husbandry, forest fire prevention, communication networks, power dispatch, disaster relief and mitigation, emergency search and rescue, etc. Member entities include scientific



research, production, business enterprises and institutions, social organizations, research institutes, colleges and universities engaged in the application of GNSS and LBS technology. Currently, the association has 35 professional committees.

CCIA

中国通信工业协会

中国通信工业协会 (CCIA, 以下简称协会) 是一九九一年七月经民政部注册登记, 由国内从事通信设备和系统及相关的配套设备、专用零部件的研究、生产、开发单位自愿联合组成的非营利的全国性社会团体。协会的宗旨是: 遵守宪法、法律、法规和国家政策, 遵守社会道德风尚。维护会员单位和行业利益; 发挥好企业和政府之间的桥梁和助手作用; 不断促进我国通信行业的技术创新并走出国门; 推动行业发展, 为繁荣我国通信领域的经济发展而不断努力。

协会的主要业务是行业管理、信息交流、业务培训、国际合作、咨询服务等工作, 以推动行业技术进步、提高产品质量、加强企事业之间的经济技术合作, 促进联合, 提高会员单位素质和经济效益为主要目标; 促进通信产品满足国内外不断增长的需求, 提高在国际市场的竞争力。

China Communications Industry Association

China Communications Industry Association (CCIA, hereinafter referred to as the Association) is registered by the Ministry of Civil Affairs in July 1991, by the domestic communications equipment and systems and related ancillary equipment, special components of the research, production, development units voluntarily formed a non-profit social organization. The purpose of CCIA is while abiding with the laws, regulations, and policies, and by social morals and ethics, to safeguard the interests of member units and the industry; to continuously promote technological innovation in China's communications industry and promote global business; to promote the development of the industry, and to make continuous efforts to prosper the economic development of China's communications field.

The main business of CCIA is industry management, exchange, business training, international cooperation, consulting services, etc. Its main goal is to promote technological progress in the industry, improve product quality, strengthen economic and technical cooperation between enterprises and institutions, promote collaboration, help improve the strength of its member organizations and economic benefits; promote communications products to meet the growing demand at home and abroad, and improve the competitiveness in the market.



中国宇航学会

中国宇航学会成立于 1979 年 10 月，是由钱学森、任新民、张震寰发起，国务院、民政部联合批准成立的国家一级学术性机构和法人社会团体。学会由中国航天科学技术工作者组成，其宗旨是促进航天科学技术的创新和发展，推动航天科学技术的普及与推广。

中国宇航学会下设 47 个分支机构，拥有 2 个国际组织分支机构、200 余家团体单位会员和 10 万余名个人会员。先后成立四川、浙江等成果转化服务工作站和航天科技成果转化服务团。

China Society of Astronautics

Established in October 1979, the Chinese Society of Astronautics (CSA) is a distinguished national first-class academic institution and a social organization with legal entity status, jointly endorsed by the State Council and the Ministry of Civil Affairs. This esteemed society, founded by visionary leaders such as Qian Xuesen, Ren Xinmin, and Zhang Zhenhuan, brings together a prestigious community of Chinese space scientists, engineers, and technologists. They are united in their mission to drive innovation and advancement in space science and technology, while also fostering its widespread dissemination and promotion.

The CSA boasts an extensive network comprising 47 branches, which includes two international organizational branches. With over 200 member organizations and



a membership exceeding 100,000 individuals, the society has firmly established its presence and influence. Furthermore, it has successfully established achievement transformation service stations in various regions, including Sichuan and Zhejiang, along with dedicated service groups focused on the conversion of space scientific and technological accomplishments.



海南空天信息研究院 (HNAIR)

海南空天信息研究院是中国科学院空天信息创新研究院（以下简称“空天院”）落实“国家支持海南布局建设一批重要科研基础设施和条件平台，打造空间科技创新战略高地”发起设立的省级事业单位，于2018年11月7日正式获批。作为空天院的重要组成部分，是空天院面向海南经济社会发展需求与东南亚国家的国际合作，系统布局，建设空天信息、遥感应用、高科技人才培养与成果转化平台，开展关键技术、系统集成技术与工程化、产业化研究。

Hainan Aerospace Information Research Institute (HNAIR)

Hainan Aerospace Information Research Institute (HNAIR) was officially approved on November 7th, 2018, and is a provincial public institution initiated by Aerospace Information Research Institute, Chinese Academy of Sciences (AIR), which is implementing the principle of “the state supports the layout and construction of a number of important scientific research infrastructure & platforms in Hainan, creating a strategic highland for space science & technology innovation”. As an important component and systematic layout of AIR facing economic & social development needs of Hainan Province and international collaboration with Southeast Asia countries, HNAIR is a platform responsible for aerospace information & remote sensing applications, high tech talents cultivation and achievement transformation, while conducting research on key technologies, system integration technologies, engineering and industrialization.



海南省航天技术创新中心 (HATIC)

海南省航天技术创新中心是经海南省政府批准设立的省级新型研发机构，于 2022 年 10 月 28 日正式揭牌成立。致力于统揽海南省航天领域科技创新资源，加强火箭、卫星、数据产业链前沿引领技术和关键共性技术研发，推动科技成果转化和产业化，助力航天领域重大科技创新基地和空间科技创新战略高地建设。

Hainan Aerospace Technology Innovation Center (HATIC)

Hainan Aerospace Technology Innovation Center (HATIC) was officially approved on October 28th, 2022, and is a provincial-level new research & development institution approved by Hainan Province Government. HATIC is committed to integrate the scientific and technological innovation resources in the aerospace field of Hainan Province, strengthening the research & development of cutting-edge leading and key common technologies in rocket, satellite, and data industry chains, promoting the transformation and industrialization of scientific and technological achievements, and assisting in the construction of major innovation bases and strategic highlands in aerospace field.



海南中实（集团）有限公司简介

海南中实（集团）公司是国家支持下设立的，以主题地产开发为基础，高科技为导向，技工贸相结合为发展方向的企业集团。



公司以“战略国家化、体制国际化、机制市场化”为发展战略，与世界知名的政治家族、商业家族、金融家族和王室建立股东或合作伙伴关系，致力于美、英、欧、俄等多边合作。

公司秉承“忠诚、务实、合作、奋进”的企业文化，坚持“追求卓越，崇尚自然”的发展理念，积极进取，与世界五百强企业开展合作，开发历史性项目，世界视野，致力于打造可持续发展的现代化跨国企业。

Hainan China International Industry and Commerce Co. Ltd.

Founded in 1988, the CIIC Group adheres to the development strategy of internationalization and market-orientation. It has established partnerships with the most influential commercial, political, financial, and royal families in the world, and strives for multilateral international collaboration between the United States, Europe, Russia, and China. Combining technology, industry, and trade, CIIC is an international enterprise oriented by high technology, based on themed real estate development.

CIIC proactively upholds its culture of “Loyalty, Pragmatism, Cooperation, and Endeavor,” adheres to the belief of “Pursue Excellence and Respect Nature,” and strives to build a large-scale multinational enterprise that assumes social responsibility, achieves global and historical projects with sustainable development.

国际支持单位 INTERNATIONAL CO-HOSTS



国际宇航科学院

国际宇航科学院（IAA, International Academy of Astronautics），是非政府性的国际学术组织，由世界著名科学家冯·卡门教授倡导，于1960年8月16日成立于瑞典斯德哥尔摩，总部设在法国巴黎。国际宇航科学院的宗旨是：以和平为目的促进宇航科学技术的发展，

表彰在宇航科学与技术领域做出突出成就的个人，与国家科学或工程研究机构合作，推动航天领域的国际交流与合作。

International Academy of Astronautics

The International Academy of Astronautics (IAA) is an international non-governmental research organization founded in Stockholm with its headquarter in Paris on October 16, 1960 at the initiative of Theodore von Kármán. The purpose of IAA is to promote the development of aerospace technology, award the individuals that have made outstanding contribution in aerospace science and technology, advance the cooperation between IAA and national science or engineering institutes in other countries, and facilitate international communication and cooperation in space.



国际宇航联合会

国际宇航联合会（IAF）成立于1951年，是世界宇航界的权威组织，在全球81个国家拥有563名成员，包括所有领先的宇航机构、公司、研究机构、协会、研究所和博物馆，如世界主要国家航天局，波音、洛克希德·马丁等知名航天企业。

遵循“连接@所有宇航人”的座右铭和“一个为人类利益而合作的航天世界”的主题，国际宇航联合会一直致力于推进空间知识，通过促进全球合作支持空间资产的开发和应用。

International Astronautical Federation

Founded in 1951, the International Astronautical Federation is a space advocacy body with 563 members from 81 countries, including all leading space agencies, companies, research institutions, universities, societies, associations, institutes, and museums worldwide.

Following its motto “Connecting @ll Space People” and its theme “A space-faring world cooperating for the benefit of humanity”, the Federation advances



knowledge about space, supporting the development and application of space assets by promoting global cooperation.



美国航天基金会

美国航天基金会成立于 1983 年，是一个非营利性、非政府组织，是全球太空社区群体激励、教育、沟通和倡导的世界首要代表性组织。该会是太空教育项目和包括年度太空研讨会在内的主要行业活动领导者。航天基金会总部位于美国科罗拉多州的科罗拉多斯普林斯市，拥有一个公共发现中心，包括埃尔·波马太空画廊、诺斯罗普·格鲁曼科学中心和洛克希德·马丁太空教育中心。航天基金会在华盛顿特区有一所办事处，并在休斯顿和佛罗里达太空海岸有实地代表。该会出版了《航天报告：全球太空活动的权威指南》。另外，其太空认证和太空技术名人堂项目持续为通过太空创新改善地球生活这一目标做出贡献。

Space Foundation

Founded in 1983, the Space Foundation is not only a non-profit, non-governmental organization but a leading organization in the world to inspire, educate, connect, and advocate on behalf of the global space community. It is a leader in space awareness activities, educational programs, and major industry events, including the annual Space Symposium. Space Foundation headquarters is in Colorado Springs, Colorado, USA, and has a public Discovery Center, including El Pomar Space Gallery, Northrop Grumman Science Center featuring Science On a Sphere, and the Lockheed Martin Space Education Center. The Space Foundation has a Washington, D.C. office, as well as field representatives in Houston and on the Florida Space Coast. It publishes The Space Report: The Authoritative Guide to Global Space Activity, and through its Space Certification and Space Technology Hall of Fame programs, recognizes space-based innovations that have been adapted to improve life on Earth.



空间研究委员会

1957年，苏联发射了第一颗地球卫星，开启了太空时代。随后，国际科学联合会（International Council of Scientific Unions，现更名为国际科学理事会（International Science Council, ISC））在1958年伦敦举行的一次国际会议上成立了空间研究委员会（Committee on Space Research, COSPAR）。空间研究委员会的首届太空科学研讨会于1960年1月在尼斯举办。

根据国际科学理事会（原为国际科学联合会）授予的章程，空间研究委员会的宗旨是“在国际层面促进空间科学研究，重点是交流研究成果、信息和意见，并为所有科学家提供一个论坛，以讨论可能影响空间科学研究的各种问题。空间研究委员会的目标将通过组织科学会议、出版物或任何其他方式来实现。”

Committee on Space Research

After the USSR launched its first Earth Satellite in 1957 and thereby opened the space age, the International Council of Scientific Unions (ICSU), now the International Science Council (ISC), established its Committee on Space Research (COSPAR) during an international meeting in London in 1958. COSPAR's first Space Science Symposium was organized in Nice in January 1960.

The Purpose of COSPAR, by its Charter from the International Council for Science (ICSU), now the International Science Council (ISC), is “to promote at an international level scientific research in space, with emphasis on the exchange of results, information and opinions, and to provide a forum, open to all scientists, for the discussion of problems that may affect scientific space research. The objectives of COSPAR are to be achieved through the organization of scientific assemblies, publications, or any other means.”



太空探索者协会

太空探索者协会成立于 1985 年，由来自 38 个国家的近 400 名宇航员组成。协会的使命是利用协会会员（宇航员 / 航天员）的独特视角，促进空间科学、探索及国际合作的全球益处，教育和激励后代，以及推动更好地管理我们的地球家园。

Association of Space Explorers

Founded in 1985, the Association of Space Explorers is composed of nearly 400 astronauts and cosmonauts from 38 nations. The mission of the association is to apply the unique perspective of our astronaut / cosmonaut members to promote the global benefits of space science, exploration and international cooperation; to educate and inspire future generations; and to foster better stewardship of our home planet.



国际空间大学

国际空间大学成立于 1987 年，开设的课程广泛，其国际空间大学研究机构 and 个人的全球网络，使国际空间大学在开发空间造福全人类方面能够发挥一种独一无二的作用。是一所创新的、全球性的、跨学科的、国家间和文化间的空间科学教育机构，国际空间大学开设关于空间及和平利用空间专题的广泛的一系列创新教育和推广方案，并正在与世界各地的伙伴协作增强其研究活动。

International Space University

Founded in 1987, the International Space University offers a wide range of courses, and its global network of research institutes and individuals at the International Space University enables the International Space University to play a unique role in the development of space for the benefit of all. It is an innovative, global, interdisciplinary, inter-country and intercultural space science education institution, and the International Space University offers a wide range of innovative education and outreach programs on the topic of space and peaceful use of space, and is working with partners around the world in collaboration to enhance their research activities.



莱斯大学贝克研究院国际空间医学峰会

莱斯大学，位于美国得克萨斯州休斯敦市郊，是一所世界著名的私立研究型大学。在《普林斯顿评论》2007年大学排名中，莱斯大学在“最佳生活质量”，“课堂互动”中排第一。目前，莱斯大学是美国最受好评的私立大学，因其高质量的教育和不断取得的国际学术成就，而与斯坦福大学，加州理工学院，麻省理工学院高校被称为“新常春藤”院校。

莱斯大学校园内举办年度国际空间医学峰会（ISMS）。ISMS从航天国家汇集了世界领先的医生、空间生物医学科学家、工程师、宇航员和教育工作者的高级别讨论，不仅是确定必要的航天医学研究的目标，而且还确定如何进一步加强国际合作和协作研究。所有国际空间站（ISS）合作伙伴都有代表出席。

Rice University's Baker Institute's International Space Medicine Summit

Rice University is a world-known private research university that lies in the suburb of Houston, Texas. In 2007, Rice University tops Princeton Review in “living standard” and “class interaction”. Currently, Rice is the most merited private university in the US and is viewed as one of the new Ivy League (together with Stanford, Caltech, and MIT) for its constant progress in education and research.



The Baker Institute Space Policy Program and Baylor College of Medicine host the annual International Space Medicine Summit (ISMS) on the campus of Rice University in Houston, Texas. ISMS brings together the world's leading physicians, space biomedical scientists, engineers, astronauts, cosmonauts, and educators from the spacefaring nations for high-level discussions to identify not only necessary space medicine research goals but also ways to further enhance international cooperation and collaborative research. All International Space Station (ISS) partners are represented.



乔治布什美中关系基金会

在乔治·H·W·布什总统的祝福和支持下，布什中国基金会于2017年5月成立，于2019年9月1日开始全面运作。基金会的工作跟随老布什总统的愿景指导。基金会相信，现今，如果美中之间不建立有效的沟通和合作，几乎任何重大的全球挑战，都不会得到长久的解决。

乔治布什美中关系基金会的宗旨是反映乔治·H·W·布什总统的理念、精神和价值观，并以这种方式推进美中关系的发展。基金会通过设立积极、广泛、高度创新的活动项目，推广已故总统的毕生观点：美中关系是世界上最重要的双边关系，两国间保持建设性关系，不仅符合美国的重要利益，也符合中国和全球社会的利益。

George H. W. Bush Foundation for U.S.-China Relations

The Bush China Foundation was founded in May 2017 with the blessing and support of President George H. W. Bush; it began full operations on September 1, 2019. The Foundation's work is guided by President Bush's vision. We believe that virtually no major global challenge today can be resolved in any enduring sense in the absence of effective communication and cooperation between the United States and China.

The George H. W. Bush Foundation for U.S.-China Relations seeks to advance U.S.-China relations in ways that reflect the ethos, spirit and values of President George

H. W. Bush. Through an active, wide-ranging and highly innovative program of activities, the Bush China Foundation promotes the late president's life-long view that the U.S.-China relationship is the most consequential bilateral relationship in the world and that a constructive relationship between the two countries serves a vital interest of the United States, as well as interests of China and the entire global community.



巴黎萨克雷大学基金会

巴黎萨克雷大学基金会是为支持巴黎萨克雷大学发展与创新而设立的私立基金会。基金会位于法国研究与高等教育的重要中心——巴黎萨克雷集群核心地带，旨在培养学术卓越，促进国际合作，并提升大学的全球知名度。

基金会的活动涵盖多个领域，包括研究资助、学生奖学金与助学金、国际交流与合作支持，以及科学文化与教育的推广。通过利用其资源与专业知识，基金会在推动大学通过教育、研究与创新为人类进步做出贡献的使命中发挥着至关重要的作用。

Fondation de l'Université Paris-Saclay

The Fondation de l'Université Paris-Saclay is a private foundation created to support the development and innovation initiatives of the Université Paris-Saclay. Based in the heart of the Paris-Saclay cluster, a major hub for research and higher education in France, the foundation aims to foster academic excellence, promote international cooperation, and enhance the university's global visibility.

The foundation's activities encompass a wide range of areas, including research funding, scholarships and grants for students, support for international exchanges and collaborations, and the promotion of scientific culture and education. By leveraging its resources and expertise, the foundation plays a crucial role in advancing the university's mission to contribute to the progress of humanity through education, research, and innovation.



战略合作伙伴 STRATEGIC PARTNER



中国航空器拥有者及驾驶员协会

中国航空器拥有者及驾驶员协会，简称为中国航驾协或中国 AOPA；英文名称：Aircraft Owners and Pilots Association of China，缩写为 AOPA-China；本会是以全国航空器拥有者、驾驶员为主体与航空业相关企业、事业单位、社会团体及个人自愿结成的全国性、行业性社会团体，是非营利性社会组织；是中国（含香港、澳门、台湾地区）在国际航空器拥有者及驾驶员协会（IAOPA）的唯一合法代表。

Aircraft Owners and Pilots Association of China (AOPA-China)

Aircraft Owners and Pilots Association of China (AOPA-China) is a national and industrial social organization formed voluntarily by national aircraft owners and pilots and aviation-related enterprises, institutions, social groups and individuals, and is a non-profit social organization; it is the only legal representative of China (including Hong Kong, Macao, and Taiwan) in the International Aircraft Owners and Pilots Association (IAOPA).



中关村领创商业航天产业发展联盟

中关村领创商业航天产业发展联盟（简称：中关村商业航天产业联盟，下称联盟）是由中国商业航天产业链关键节点具有代表性、拥有核心竞争力和较好产业基础的企业、研发机构、应用单位发起、经民政部门社会团体登记管理机关核准登记的非营利性社会团体法人组织，是中国商业航天领域唯一在民政部门正式注册的全国性一级社团，是覆盖全国的、非盈利的产业发展与服务联合体。

联盟现有会员单位 150 余家，汇聚了航天器生产制造商、发射服务提供商、地面设备供应商、卫星运营商、航天应用服务商及投融资等产业服务机构，成员单位业务包括研发、设计、制造、发射、测控、运营、应用、金融以及产业服务等全产业链领域，组建了“产、学、研、用、服”为一体的包括院士在内的 1000 多位专家组成的专家委员会，集聚了目前国内顶级行业资源，最大范围的代表了当前行业发展水平、需求和发展要求，联盟成员正在为可持续的太空经济奠定基础，并使科学家、普通大众和企业进入太空的梦想成为现实。

联盟以“聚焦商业航天、推动产业融合、协同创新服务、繁荣产业生态”为宗旨，以创新为动力，以技术为核心，以应用为导向，以产业为主线，秉承共商、共建、共享、共赢的原则，汇聚商业航天优势力量，积极开展商业航天战略研究，推动创新体制机制，优化产业生态环境，促进关键技术、标准的研发和制定，推动航天成果综合应用，培育产业集群，推动重大项目落地，促进国际合作，推动航天产业健康发展，促进商业航天产业核心竞争力的提升，建设开放合作、共生繁荣的商业航天产业生态。

自成立以来，联盟致力于推动人类和平利用太空、航天技术更好的服务大众，充分发挥行业组织的优势，联合各类机构在关键技术、生产制造、示范应用、标准制定、国际交流、产业融合、科普教育、文化宣传、文创文旅等方面助力中国商业航天产业快速发展，牵头推进商业载人航天、共享星座等一批重大工程项目，成功主（承）办中国商业航天发展大会、中关村商业航天大会、中国国际商业航天高峰论坛、空间技术和平利用（健康）国际研讨会等国内外有影响力的品牌活动，通过全方位、多维度的交流和展示，推动商业航天优势资源融合，牵引开展重大项目合作，形成了政府指导、企业科研机构广泛参与、灵活高效运作的产业发展机制，成为中国航天产业融合发展的新型协同创新平台和生态合作平台。

ZGC Commercial Aerospace Industry Innovation Alliance

ZGC Commercial Aerospace Industry Innovation Alliance (hereinafter referred to as “the Alliance”) is a non-profit organization legally registered with the social organization registration authority of the Ministry of Civil Affairs. It was founded by a group of representative enterprises, research institutions, and application entities that boast core competitiveness, a robust industrial foundation, and occupy pivotal roles within China's commercial aerospace industry chain. As the only nationally recognized, tier-one association formally registered in the domestic commercial aerospace sector, the Alliance functions as a nationwide, non-profit consortium dedicated to industrial development and service.



The Alliance now comprises over 150 member entities, encompassing a diverse range of stakeholders including spacecraft manufacturers, launch service providers, ground equipment suppliers, satellite operators, aerospace application service providers, and financing and investment institutions. These members engage in the full spectrum of industry activities, from research and development, design, manufacturing, launch, tracking and control, operation, application, finance, to industrial services. The Alliance has assembled an expert committee of over 1,000 specialists, including academicians, forming a holistic "industry-academia-research-application-service" ecosystem. It consolidates the premier industry resources in China and represents the current state of industry development, demands, and aspirations on a broad scale. Members of the Alliance are laying the groundwork for a sustainable space economy, turning the aspirations of scientists, the general populace, and enterprises to venture into space into tangible realities.

Guided by the mission to "focus on commercial aerospace, foster industrial integration, collaborate on innovative services, and nurture a thriving industrial ecosystem," the Alliance is fueled by innovation, anchored in technology, oriented towards applications, and aligned with the industrial chain. Adhering to the principles of collective consultation, joint construction, shared benefits, and mutual success, the Alliance pools the strengths of commercial aerospace, actively engages in strategic research, champions innovative institutional frameworks, optimizes the industrial ecosystem, facilitates the research, development, and standardization of key technologies, promotes the comprehensive application of aerospace advancements, cultivates industrial clusters, facilitates the implementation of major projects, fosters international cooperation, drives the healthy progression of the aerospace industry, elevates the core competitiveness of the commercial aerospace sector, and cultivates an open, collaborative, and flourishing commercial aerospace industrial ecosystem.

Since its inception, the Alliance has been dedicated to advancing the peaceful utilization of space by humanity and harnessing aerospace technology to better serve society. It leverages the advantages of industry organizations and collaborates with various entities across key technologies, manufacturing, demonstration applications, standard-setting, international exchanges, industrial integration, science education, cultural promotion, and cultural creativity and tourism to

accelerate the rapid growth of China's commercial aerospace industry. The Alliance has spearheaded the advancement of significant projects such as commercial manned spaceflight and shared constellations, and has successfully organized (or co-organized) influential events both domestically and internationally, including the China Commercial Aerospace Development Conference, the ZGC Commercial Space Conference, the China (International) Commercial Aerospace Forum, and the International Symposium on the Peaceful Use of Space Technology – Health (IPSPACE). Through comprehensive and multi-faceted exchanges and exhibitions, the Alliance facilitates the integration of commercial aerospace resources, initiates collaborations on major projects, and has established a government-guided, widely participated, and agile industrial development mechanism. It has emerged as a novel collaborative innovation platform and ecological cooperation platform for the integrated advancement of China's space industry.



承办单位 UNDERTAKER



STATE-GUEST
ENTREPRENEURS' CLUB
国宾企业家俱乐部

国宾企业家俱乐部

国宾企业家俱乐部总部位于北京市，是在中华全国工商业联合会、中国国际贸易促进委员会、世界 500 强中华区企业家、驻华使领馆官员、国际商协会代表等共同倡议下成立的。国宾企业家俱乐部旨在促进国内外企业间、企业与政府间、企业与外国驻华使团、国际商协会间的交流与合作，为各界人士搭建有效的沟通及合作的平台。

State-Guest Entrepreneur Club

The State-Guest Entrepreneur Club (SGEC) was established under the joint initiative of the All-China Federation of Industry and Commerce (ACFIC), China Council for the Promotion of International Trade (CCPIT), Fortune 500 Chinese entrepreneurs, officials of embassies and consulates in China, representative of the international business associations, etc. The Club is based in Beijing. It aims to build an effective platform to promote exchanges and collaboration between enterprises and governments, foreign missions in China, and international business associations.

