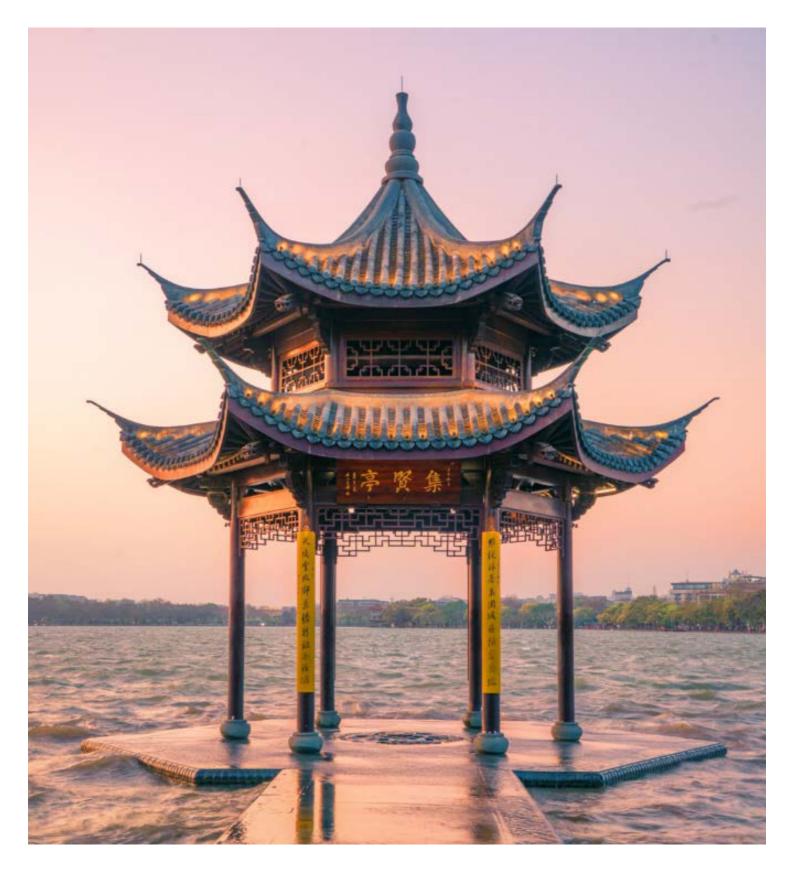
INTERNATIONAL RADIATION J SYMPOSIUM JUNE 2024, HANGZHOU, CHINA





IRS 2024



WELCOME TO HANGZHOU, CHINA

Connected minds think greater.

Collected minds create more.



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STATEMENT



IRS 2024--Hangzhou, China



It is our great pleasure to propose and host the International Radiation Symposium (IRS) 2024 at Hangzhou, China. The proposed time of this conference will be from June 1 to June 6, 2024.

The last international radiation conference organized by WMO, IAMAP, and CCMAP was held in Beijing from August 26 to 30, 1986, chaired by Professors K. N. Liou and Xiuji Zhou. 112 participants from many countries attended the conference. Since 1986, both China and the atmospheric radiation science research community have been modernized. Some projects associated with remote satellite sensing and ground-based observation networks have been launched. About 12 Chinese universities/research institutes now have the discipline of atmospheric radiation and remote sensing as part of their curriculums. We feel that it is the right time for us to propose and host the IRS, expecting to promote more international communication and possible collaborations.

As the local host, Zhejiang University (a Tier-1 University in China) will organize the IRS 2024 with a local organizing committee composed of previous and current IRC commissioners and active Chinese research scientists in the atmospheric radiation field.

Letter of Support



Zhejiang University 866 Yuhangtang Road Hangzhou, 310058, P. R. China Tel: +86-571-87951111, Fax: +86-571-88981358

School of Earth Sciences Zhejiang University 866 Yuhangtang Road Hangzhou, 310058 P. R. China

Tel: 086-057188981877

May 30th, 2022

Dear International Radiation Commission,

As the associate dean of the School of Earth Sciences, Zhejiang University, I am writing to fully support the bid of the 2024 International Radiation Symposium to be held in Hangzhou, China.

The School of Earth Sciences at Zhejiang University, located in the city of Hangzhou, was founded in 1936 by the prominent Chinese meteorologist, Chu Kochen, who was then the president of Zhejiang University. After more than 80 years of development, Earth sciences at Zhejiang University have evolved into Earth system sciences that focus on the frontier research linking atmospheric sciences, ocean sciences, geology, and geophysics. There is no doubt that radiation is a key element of the Earth energy cycle that drives the Earth system as a whole.

As an international conference of broad impact on the Earth sciences, the International Radiation Symposium(IRS), if held in Hangzhou, the so called 'City of Heaven', will easily attract participants from all over the world. Hangzhou will be a great venue for the participants of IRS 2024, to share and discuss cutting-edge Earth sciences research, particularly for atmospheric radiation, remote sensing, and the broad issue of global climate change. On behalf of the School of Earth Sciences, I fully support the proposal to host IRS 2024 in Hangzhou.

I hope the bid is successful. I very much look forward to welcoming all IRC participants at Hangzhou in 2024.

Local Organizing Committee



Name	Professional titles	Organization	Country
Daren Lv	Professor	Academician of the Chinese Academy of Sciences, the Institute of Atmospheric Physics, Chinese Academy of Sciences	China
Peng Zhang	Deputy Director- General	National Satellite Meteorological Center, China Meteorological Administration	China
Mingzheng Duan	Professor	Chinese Academy of Sciences	China
Hua Zhang	Professor	Chinese Academy of Meteorological Sciences	China
Zhengqiang Li	Professor	Chinese Academy of Sciences	China
Jing Li	Tenured Associate Professor IAMAS Early Career Representative	Peking University	China
Feng Zhang	Professor	Fudan University	China
Chao Liu	Professor	Nanjing University of Information Science & Technology	China
Bingqi Yi	Associate Professor	Sun Yat-sen University	China
Chen Zhou	Associate Professor	Nanjing University	China
Long Cao	Professor, Associate Dean	School of Earth Sciences, Zhejiang University	China
Lei Bi	Tenured Associate Professor Deputy Director- General	Office of Development and Planning & School of Earth Sciences, Zhejiang University	China



Hangzhou

Hangzhou is a modern megacity with thousands of years of history and culture, in which natural landscape and human civilization are perfectly and harmoniously combined. Three World Cultural Heritages are located at Hangzhou: the West Lake, the Beijing-Hangzhou Grand Canal, and the Liangzhu ancient city relics.

Located on the southeast coast of China, lower reaches of Qiantang River and the south end of the Beijing-Hangzhou Grand Canal, Hangzhou is of subtropical monsoon climate with mild and humid weather and distinctive four seasons. The average temperature during June is about 21-29 °C with average precipitation of 211 mm.

Hangzhou is the National Ecology Garden City and the International Awards For Liveable Communities with 66.85% forest coverage and 51.36% wetland protection rate.



Hangzhou



As one of the eight ancient capitals in China, Hangzhou used to be the national capital of the Wuyue State(A.D. 907-978) and the Southern Song Dynasty(A.D. 1127-1279), and now it is the provincial capital of Zhejiang.

For its favourable/advantageous geographical location, mild climate, long history and abundant cultural heritages, Hangzhou has achieved renown of "a fertile land of fish and rice", "a land of cultural relics", "the home of silk", and "paradise on earth" in China, attracting a large quantity of tourists from home and abroad every year with its unique charm. It was voted by The New York Times as one of 52 most desirable places to go in 2016.





Hangzhou



Hangzhou is one of the important central cities of the Yangtze River Delta, the economic, cultural, scientific and educational center of Zhejiang Province, and transportation hubs in the southeast coastal areas. Benefited from the most friendly business environment and rapidly developing information technology, private economy and digital industry are booming in Hangzhou, such as sharing economy, mobile payment, the Internet of Things(IoT), etc. --so called Smart City.

Some international events were held in Hangzhou, for instance, the 11th G20 Hangzhou Summit in 2016 and the 14th World Short Course Swimming Championships in 2018, and the 19th Asian Games in 2022 is forthcoming.



Transportation to Hangzhou (direct route)



Hangzhou International Airport (IATA: HGH, ICAO: ZSHC), located in Xiaoshan District--the east of Hangzhou City, 27 kilometers from the downtown area, has 128 domestic routes and 62 international and regional routes by the end of 2019. It is the first air portal in Zhejiang, an important trunk-line airport, international scheduled flight airport, first-class airport open to the outside world and an alternate airport for international flights. It is a complex encompassing services of aviation, catering, shopping, recreation and accommodation.

In 2016, Hangzhou G20 Summit was held in Hangzhou. HGH successfully handled all the special flights, establishing an excellent worldwide image and making important contributions to the summit.



Transportation to Hangzhou (direct route)



Partial International (Direct) Flights of Hangzhou International Airport

Continent	Country	City	Airline
	China	Hong Kong	Hong Kong Airlines, Cathay Dragon, China Eastern Airlines
	(region)	Macau	Spring Airlines, Xiamen Airlines, Air Macau
		Taipei(RCTP)	EVA Air, Air China, Xiamen Airlines
		Okinawa	Beijing Capital Airlines, China Eastern Airlines
	Japan	Osaka	Airways
		Tokyo	All Nippon Airways
		Busan	Asiana Airlines
Asia	Korea	Jeju Island	Spring Airlines, Okay Airways, Air China, Hainan Airlines, Beijing Capital Airlines, China Eastern Airlines, Korean Air
		Seoul	Asiana Airlines, Air China
	Malaysia	Kuala Lumpur	Xiamen Airlines(Hangzhou-Fuzhou-Kuala Lumpur), AirAsia X
	Singapore	Singapore	Air, Hebei Airlines, Singapore Jetstar Airlines, Scoot Airways
Russia		St.Petersburg	IrAero
	Nussia	Moscow	Beijing Capital Airlines
	Netherlands	Amsterdam	KLM Royal Dutch Airlines
Europe	Spain	Madrid	Beijing Capital Airlines (Hangzhou-Chengdu-Madrid)
	Italy	Rome	Air China
	USA	Los Angeles	Beijing Capital Airlines(Hangzhou-Qingdao-Vancouver)
America	USA	Saipan	Beijing Capital Airlines
America	Canada	Vancouver	Beijing Capital Airlines(Hangzhou-Qingdao-Vancouver)
	Callaua	Toronto	China Eastern Airlines
Australia	Australia	Sydney	China Eastern Airlines
Australia	Australia	Melbourne	Xiamen Airlines
Africa	Egypt	Cairo	EgyptAir

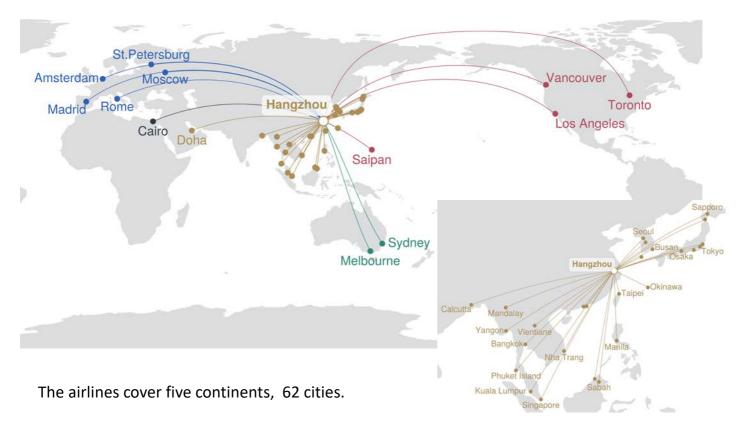
(*Note: the information is for reference only. Please visit the official website

http://www.hzairport.com/index/index.html for the latest developments)

Service hotline: 0571-86662519

Transportation to Hangzhou (direct route)





Public Tansport Service of Hangzhou International Airport

Transport	Boarding area	Reference price	Friendly reminder
taxi	outside the arrival floor of T3 domestic terminal gate 10, 12 (22.30-08.00 gate 14, 6)		smoking in the car is strictly prohibited; pay by the number on the meter(you can ask for an invoice after payment), no bargaining.
airport shuttle	the arrival hall of the T1 domestic terminal, gate 8	20 CNY per person to Hangzhou downtown area	real-name ticket purchase and bus taking (with your original valid ID card or passport); publicized scheduled departure time, announced departure time at the ticket window on the same day shall prevail.
metro line 1 / line7	outside the arrival floor of T3 domestic terminal, opposite the gate 14	9-10 CNY	Xiaoshan International Airport Station: 05:50~23:15 (may not pass through the entry gate less than 5 minutes before the scheduled departure time of last train)

(*Note: the above information is for reference only. Please refer to the actual situation.)

Transportation to Hangzhou (transfer from Shanghai)





Shanghai International Airport

(IATA: PVG, ICAO: ZSPD) https://www.shan ghaiairport.com/c n/jcjt/index_5429

5.html

Service hotline: 021-96990

Shanghai International Airport \rightarrow Hangzhou

Departure	Vehicle1	Reference time1	Reference fee1(CNY)	Transfer station	Vehicle2	Reference time2	Reference fee2(CNY)	Terminal	
	metro-line 2	1.5 hours	8	Shanghai					
Shanghai	bus-airport line 1	2.3 hours	36	Hongqiao Railway	Hongqiao Railway	high- speed 1 h train	1 hour	73-220	Hangzhou (East) Railway Station
Pudong	taxi A	1 hour	230-290	Station	craiii			Station	
International	taxi B	2.5-3 hours	700-1000+	/	/	/	/	Hangzhou	
Airport	coach	3 hours	100	/	/	/	/	Hangzhou Yellow-Dragon Sports Center	
	metro-line 10	5 minutes	3	Shanghai Hongqiao	nign-	1 hour	73-220	Hangzhou	
International Airport (terminal 1)	taxi A	11-18 minutes	30-35	Railway Station	train	Tiloui	73-220	(East) Railway Station	
	taxi B	2.3-2.5 hours	700-800+	/	/	/	/	Hangzhou	
	coach	2.5 hours	85	/	/	/	/	Hangzhou Wulinmen	

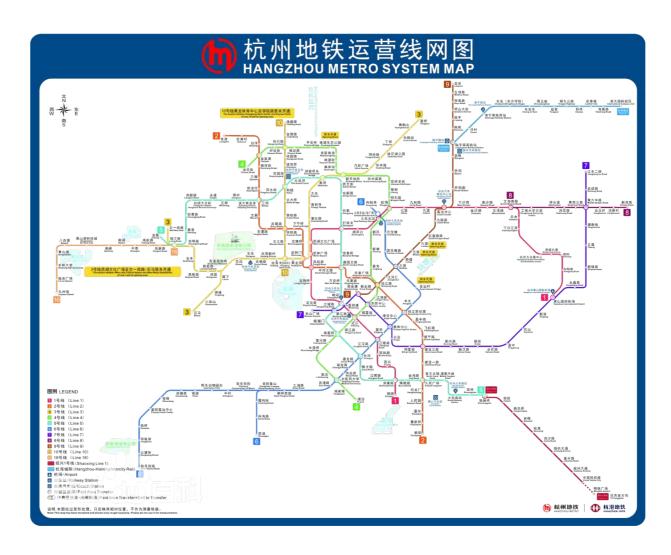
(*Note: the above information is for reference only. Please refer to the actual situation.) High-speed train(maximum speed 200-350km/h) is a favourable way to Hangzhou from Shanghai, not only for environmental friendly concern, but also for its safe, fast and wallet-friendly features.

Transportation within Hangzhou



The location and the time schedule of metro, bus, taxi and shared bicycles are easily available and accessible in Hangzhou. By inputting a starting point and a destination into the online map on your mobile phone, several route-navigation plans and ride-hailing services will be available.

There are 11 operating metro lines in Hangzhou, totalling about 420 kilometers. 10 municipal districts of Hangzhou are connected.



(*Note: the information is for reference only. Please visit the official website http://www.hzmetro.com/index.aspx)

Conference Host

Zhejiang University(ZJU)



Located in Hangzhou, as one of China's top higher education institutions, Zhejiang University (ZJU) is a picturesque and prestigious school with a history spanning more than 120 years. The ZJU forerunner, Qiushi Academy, founded in 1897, was one of pioneering academies of higher education in China.

ZJU is organized across 7 faculties and 37 schools. It is home to 4,191 full-time faculty members, including 52 members of the Chinese Academy of Sciences and the Chinese Academy of Engineering. ZJU has 60,739 full-time students, over 56% of whom are postgraduate students.

Laying claim to several areas of research strength, ZJU currently ranks among the top three on Chinese mainland and within the top 100 in the Times Higher Education World Reputation Rankings and QS World University Rankings. Eighteen disciplines of ZJU have been selected for China's "Double First-class" Initiative (3rd in China) and 39 disciplines graded A in the recent national assessment (1st in China).



Conference Host

Zhejiang University(ZJU)



ZJU is committed to transforming China and contributing to the world through active engagement. Major innovative developments include the creation of a high-level platform for intellectual property exchange, as well as the formation of a number of think-tanks, including the China Academy of Western Region Development, the National Research Center for Agricultural and Rural Development, and the Institute for Public Policy, which exist to extend the scope of ZJU's research in social sciences.

ZJU is striving to build itself into an innovative and comprehensive research university with world-class status.

Motto: Seeking Truth, Pursuing Innovation.

7 Campus(Zijingang, Yuquan, Xixi, Huajiachi, Zhijiang, Haining, Zhoushan),

1,538 acres

2 International joint institutes, 7 Affiliated hospitals

5 Libraries, **7.9+ million** volumes

1 Museum + 4 specimen banks, 100,000+ Plant specimens

200+ Student associations, 1(main) + 37(divisions) Career centers



Conference Host

Zhejiang University(ZJU)



Atmospheric Sciences at ZJU

The School of Earth Sciences(SES) whose roots can be traced back to 1936, encompasses a broad range of Earth science disciplines: earth information science and technology, geographic information systems, resources environment and management of urban and rural planning, and atmospheric sciences. After more than 80 years of development, Earth Sciences in ZJU have grown into a highly interdisciplinary academic program. There are four research institutes: Geology, Geophysics, Geography and Spatial Information, and Weather, Climate and Meteorological Environment.

The Department of Atmospheric Sciences(DAS) has 14 faculty members. Current primary research areas include global climate change, Earth system modeling, extreme weather, cloud physics, and atmospheric radiation and remote sensing. The overall mission of this discipline is geared toward cutting-edge research with high domestic and international visibility and providing students with high-quality educational training and diverse research opportunities.



Conference Venue





Mengminwei Building

Main auditorium capacity: **500** people Small lecture halls capacity: **250** people

Built with a total construction area of 28,000 m², the courtyard-layout building includes two parts--one on the south and the other on the north, equipped with various types of laboratories and academic lecture halls. The halls were specially designed as sector structure to hold meetings and academic seminars.

Zijingang Theatre

capacity: 1036 people



ESTIMATED BUDGET

	Registration	Estimated participants	Fee×1 (CNY)	Feex 1 (USD)	Subtotal (CNY)	Subtotal (USD)
	early bird-members	250	2500	380	625,000.00	95,000.00
	early bird-students	100	1250	190	125,000.00	19,000.00
Estimated	regular-members	100	3100	460	310,000.00	46,000.00
Income	regular-students	50	1550	230	77,500.00	11,500.00
	company	5	3750	580	18,750.00	2,900.00
	partners	20	950	140	19,000.00	2,800.00
	Abstract submission	500	300	45	150,000.00	22,500.00
	Total	estimated inc	ome		1,325,250.00	199,700.00
	conference venue and reception)	58,600.00	8,755.42			
	web site	75,000.00	11,205.74			
	publication, posters, ex	khibition			28,600.00	4,273.12
	photography, video				22,000.00	3,287.02
Estimatied	conference materials (h souvenirs, etc.)	nandbooks, na	me tags, b	ags,	146,000.00	21,813.84
Expense	catering (lunches, dinn conference days; welco	all	492,100.00	73,524.58		
	transportation support					5,976.39
9	conference organizatio	224,400.00	33,527.57			
	event/registration management					22,411.47
	IRC Awards	31,000.00	4,700.00			
	Total estimated expense					189,406.84
	Bala	57,550.00	10,293.16			

^{*} Note: the estimates based on 500 delegates. The price is with tax.

Early bird is **3 months** before the cenference date.

Registration fee includes addmission to conference sessions, conference material, and catering. Accompanying person fee includes catering.

ACCOMMODATION

Hotel		Address	Distance to Zijingang Campus	Distance to HGH Airport	Distance to East Railway Station	Room rate (CNY)	Tel
	Yuanzheng Qizhen Hotel (4 stars)	No.866 Yuhangtang Road, West Lake District, Hangzhou	within	45km (0.9-1 hour's drive)	15.5km (38- 41mins)	480-1200	0571- 88982888
	Zijingang Internation al Hotel (4 stars)	No.796 Shenhua Road, West Lake District, Hangzhou	0.35km	43km (0.8-0.9 hour's drive)	14.9km (36- 39mins)	460-1900	0571- 89731311
	Sheraton Hangzhou Wetland Park Resort (5 stars)	No.21 Zijingang Road, West Lake District, Hangzhou (within Xixi National Wetland Park)	5km	40km (0.8-0.9 hour's drive)	16km (42- 52mins)	1400+	0571- 85002222
	The Dragon Hotel (5 stars)	No.120 Shuguang Road, West Lake District	8km	33km (0.6-1 hour's drive)	8.9km (30- 36mins)	900-3000	0571- 87998833
	Hangzhou Shangri-La Hotel (5 stars)	No.78 Beishan Road, West Lake District, Hangzhou (within West Lake Scenic Area)	9.7km	33km (0.6-1 hour's drive)	10.8km (32- 34mins)	1000+	0571- 87977951
	Zhejiang Hotel (4 stars)	No.447 Yan'an Road, Gongshu District, Hangzhou	9.7km	30km (0.5-1 hour's drive)	8.8km (26- 30mins)	500-1600	0571- 87913333

(*Note: the above information is for reference only. Please refer to the actual situation.)

RESTAURANTS

Lou Wai Lou Restaurant (1848-)

Located on the south of the West Lake, the shop was named after a poem by Lin Sheng--a poet of the Southern Song Dynasty. It is famous for its traditional dishes and enjoys great popularity among numerous celebrities both at home and abroad.

special dishes: Song Sao fish soup(a), Stir-Fried Beancurd Rolls Stuffed with Minced Tenderloin(b), West Lake fish with vinegar gravy, Dongpo braised pork, etc.



Zhi Wei Guan Restaurant (1913-)

"If you want to know my taste, you will know it by looking at the materials". **special dishes**: Stir-Fried Beancurd Rolls Stuffed with glutinous rice(c), small steamed meat-filled buns(d), cat-ear-like noodle(e), etc.



Kui Yuan Noodle Restaurant (1867-)

more than 100 different kinds of noodles.

special dishes: noodles with quick-fried eel shreds and shelled shrimps (f) , Pian'er chuan noodle(g), etc.



BEYOND THE OFFICIAL PROGRAM

More Information

Visas	According to the agreements (Agreements on Mutual Visa Exemption Between the People's Republic of China and Foreign Countries, http://cs.mfa.gov.cn/wgrlh/bgzl/202110/t20211029_10403855.shtml), holders of valid specified passports are permitted to stay for less than 30 days upon entry into the other contracting country. 144-hour visa waiver for transit passengers from 53 countries. For further information about visas, please visit China Visa Application Center, http://visaforchina.org
Language	The official language is Chinese (Mandarin). Highly educated people can speak English.
Currency	Chinese Yuan($\$$) and Jiao. There are eight notes (100/50/20/10/5/1 Yuan, 5/1 Jiao) and three coins (1 Yuan, 5/1 Jiao).
Time Zone	Beijing time = Greenwich Mean Time (GMT) + 8 hours . China uses the same time across the country.
Mobile	Use global roaming or purchase a local SIM card .
Electric Power	220 volts alternating current; power adapters may be required.
Helpline	114
Emergency Calls	Emergency 112, Police 110, Fire and rescue 119, Ambulance 120, Traffic Police 122
Shopping	Shopping malls' opening hours are 9.00AM-9.00PM on weekdays , and 9.00AM-10.00PM on weekends .
Payment	China UnionPay cards, international credit cards (VISA, Mastercard, AMEX, Diners Club, JCB, etc.). Digital payments: Alipay, WeChat Pay; E-CNY



Hangzhou is a famous scenic tourist city with deep historical and cultural foundation. Back in the 13th century, Marco Polo (an Italian traveler) praised Hangzhou as "the most beautiful and magnificent city in the world". You can enjoy splendid sceneries and cultural heritages of old-line water towns in south of Yangzi River.

West Lake

-- "the Famous Lake of Oriental Culture"

It is an outstanding model of cultural landscape, which clearly showed the aesthetics of Chinese landscape and had a far-reaching impact on landscape design in China and even the world. It is a famous cultural lake with the longest history and the greatest influence in China, which once had a wide impact on the East Asian culture from 9th to 18th century.



the Beijing-Hangzhou Grand Canal

-- "the second Prime Channel(only following Yangtze River) in China"

It is the earliest(built from 486 B.C.) and the longest (1797km) man made canal in the world. The Hangzhou section of the canal has abundant historical sites and unique cultural heritages.







the Liangzhu Ancient City Relics

Liangzhu culture belongs to the archaeological culture of the late Neolithic age, developed from 5300 to 4300 years ago, demonstrated the high achievements of rice farming development in prehistoric society in China's Yangtze River Basin. Peripheral water conservancy system of Liangzhu ancient city is the earliest large-scale water conservancy project in China and the earliest dam in the world.



Xixi National Wetland Park

Located in the west outskirts of Hangzhou, it is the first and the only park integrated urban wetland, agricultural wetland, and cultural wetland in China, awarded the title of National 5A Tourist Attraction. About 70% of the area is waters, and the land's green coverage is more than 85%. There is a paradise for birds and flowers.





Qiandao Lake Scenic Area

-- "the most beautiful lake in China"

Located in Chun'an county(west of Hangzhou), it is called "the most beautiful lake in China" with features of mountains, waters(national first-class water quality) and archipelagos. It is one of the first national key scenic spots and National 5A Tourist Area, devoting to becoming the optimal leisure resort for tourists.



National Nature Reserve of Mount Tianmu --"Big Trees Kingdom"

It is the nearest virgin forest, just an hour away from the downtown. It is the only forest and wildlife nature reserve in Zhejiang Province that joined the UNESCO Man and Biosphere(MAB) Reserve Network. It is the first mountain of ecological tourism in China, renowned for its remains of ancient, rare and endangered species.





Local Museums

There are more than 57 museums and memorial halls in Hangzhou, containing 13 state-levels, and many of them are historical relics.

Museum	Characteristics	Opening Time	Admission Fee
China National Silk Museum	the largest silk thematic museum in the world	9.00a.m4.00p.m. Tuesdays to Sundays (closed on Mondays)	free
China National Tea Museum	Experience making tea by yourself.	9.00a.m5.00p.m. May 1 to October 7, 8.30a.m4.30p.m. October 8 to April 30 of the following year (closed on Mondays; public holidays open as usual)	free
Zhejiang Provincial Museum	It is one of the oldest museums in China(founded in 1929), and the only comprehensive museum in Zhejiang with more than 100000 collections, containing cultural relics and remains, jade wares, lacquerware, calligraphy, painting, etc.	9.00a.m5.00p.m. Tuesdays to Sundays (closed on Mondays)	free
Hangzhou Arts and Crafts Museum	It includes 4 different theme branches: Arts and Crafts (sculpture, ceramics, silk weaving), Knife and Sword, Fan (the only fan museum in China, and one of the world's only two fan themed museums(the other is in London, UK)), Umbrella.	9.00a.m4.00p.m. Tuesdays to Sundays (closed on Mondays)	free
Zhu Bingren Bronze Art Museum	It is the only pure copper-made residential building in the world, which was wholly handmade by Zhu Bingren and Zhu Junminthe former is a representative inheritor of national intangible cultural heritage of bronze carving technology.	9.00a.m4.00p.m. all year round	free
Chinese Hangzhou Cuisine Museum	It exhibits the inheritance and development of Hangzhou cuisine in different periods, such as Qin Dynasty, the Northern and Southern Dynasties. Classic special dishes can be tasted in the restaurants.	10.00a.m6.00p.m. Tuesdays to Sundays (closed on Mondays)	free

(*Note: the above information is for reference only. Please refer to the actual situation.)

















Local specialties



silk and embroidery



West Lake silk umbrella



Zhang Xiaoquan scissors



West Lake Longjing tea



porcelain



Circle fan folding fan



Xiling ink paste



Local delicacies















IRS2024



WELCOME TO HANGZHOU, CHINA

