

# 第七届透射电镜原位辐照 国际研讨会

The 7<sup>th</sup> International Workshop  
On TEM With In Situ Irradiation

## 会议手册 Conference Brochure

主办：厦门大学

Organized by: Xiamen University

时间：2024年5月29日-6月1日

Date: May 29 - June 1, 2024



# 关于 WOTWISI-7

第七届透射电镜原位辐照国际研讨会将于 2024 年 5 月 29 日至 6 月 1 日在美丽的厦门大学举行。本次研讨会邀请了许多 TEM 离子束联机设施领域中的代表、用户、以及从事材料辐照效应研究的专家和学生来共同分享经验并讨论未来的研究课题和方法。讨论的领域包括与设施的开发和改进有关的问题(例如, 温度和束流电流的测量和控制; TEM 镜筒的电磁场对低能量轻离子的干扰, 减小阴影效应的方法, 多束流辐照和入射); 原位或离位 TEM 与离子辐照在研究材料辐照效应方面的应用; 材料辐照效应的计算机模拟和建模; 纳米尺度下材料的离子束改性等。

## 大会主席:

冉广 教授, 厦门大学, 中国

## 国际咨询委员会:

王鲁闽 教授 (主席, 密西根大学-安娜堡, 美国)

Wei-Ying Chen 博士 (阿贡国家实验室, 美国)

Aurélie Gentils 博士 (奥赛国家实验室, 法国)

Naoyuki Hashimoto 教授 (北海道大学, 日本)

Khalid Hatter 教授 (田纳西大学-诺克斯维尔, 美国)

Jonathan Hinks 教授 (哈德斯菲尔德大学, 英国)

## 组织委员会:

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丛砾 副教授 (厦门大学, 中国)

李奕鹏 特任副研究员 (厦门大学, 中国)

黄金池 工程师 (厦门大学, 中国)

## 邀请报告嘉宾:

Steve Zinkle 教授 (田纳西大学, 美国)

Gary Was 教授 (密西根大学, 美国)

吕广宏 教授 (北京航空航天大学, 中国)

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Mark Daymond 教授 (皇后大学, 加拿大)

姚仲文 教授 (皇后大学, 加拿大)

Mitsutaka Miyamoto 教授 (岛根大学, 日本)

Djamel Kaoumi 教授 (北卡罗来纳州立大学, 美国)

Aurélie Gentils 博士 (奥赛国家实验室, 法国)

戴勇 研究员 (保罗谢勒研究所, 瑞士)

都娟 研究员 (核工业西南物理研究院, 中国)

卢晨阳 教授 (西安交通大学, 中国)

高宁 教授 (山东大学, 中国)

胡逊祥 教授 (四川大学, 中国)

王晨旭 研究员 (北京大学, 中国)

李炳生 教授 (西南科技大学, 中国)

孙丹 副研究员 (中国核动力研究设计院, 中国)

蒋丽 副教授 (大连理工大学, 中国)

孙璐 副教授 (华北电力大学, 中国)

邱玺 工程师 (中国核动力研究设计院, 中国)

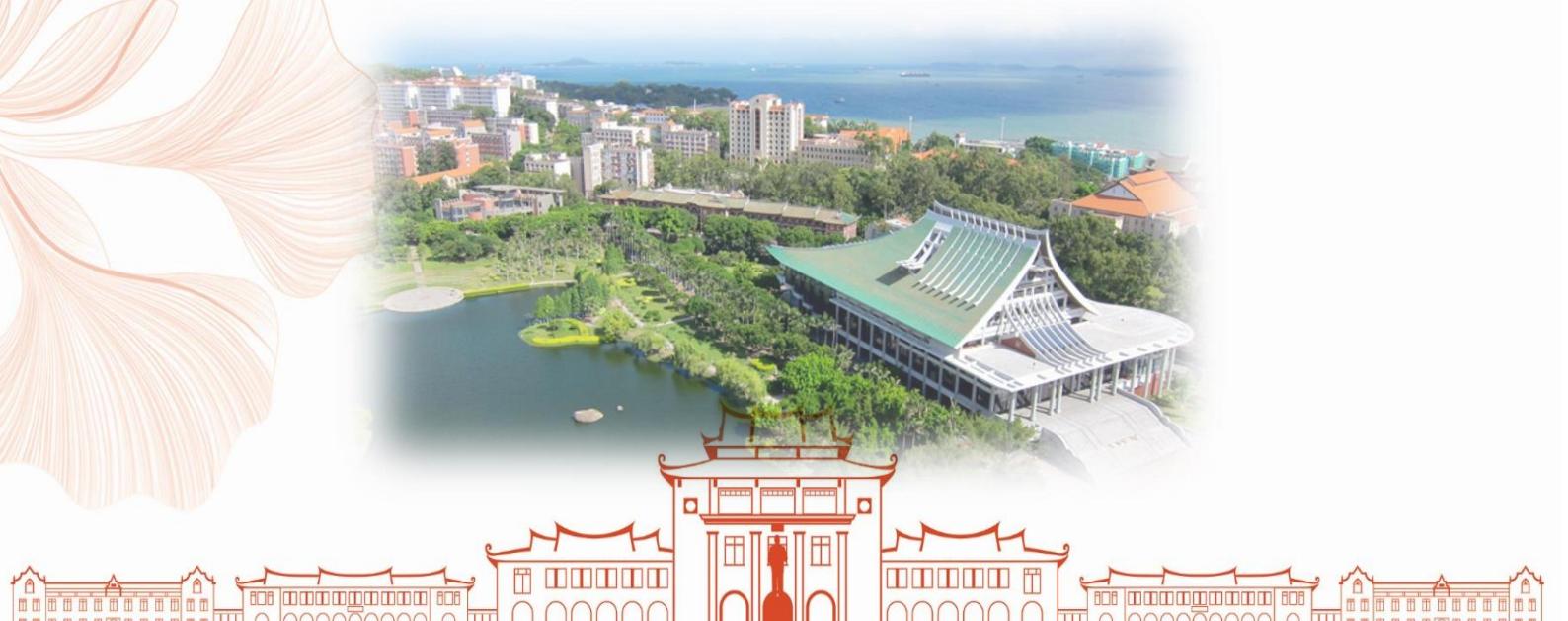
黄金池 工程师 (厦门大学, 中国)

研讨会 Zoom 链接:

<https://zoom.us/j/99559990454?pwd=elhYODN0NktYUFB0TGkzMЕtnTGtIZz09>

会议 ID: 995 5999 0454

密码: 306680



## About WOTWISI-7

The Seventh International Workshop on Transmission Electron Microscopy (TEM) with in-situ Irradiation (WOTWISI-7) will be held on the beautiful campus of Xiamen University, China, during May 29 - June 1, 2024. Representatives and users of the TEM-ion beam linked facilities as well as experts and students working on radiation effects of materials are invited to gather to share the experiences and discuss the future research topics and methods. Areas for discussion include the problems associated with the facility development and improvement (e.g., temperature and beam current measurement and control; interference of electromagnetic field of the TEM lens to the low energy light ions, ways to minimizing the shadowing effects, multi-beam irradiation and implantation); applications of in situ or ex situ TEM with ion irradiation on the study of radiation effects materials; computer simulation and modeling of radiation effects of materials; ion beam modification of materials in the nano-scale, etc.

### Conference Chair:

Professor Guang Ran (冉广), Xiamen University, China

### International Advisory Committee:

Professor Lumin Wang (Chair, University of Michigan-Ann Arbor, USA)

Dr. Wei-Ying Chen (Argonne National Laboratory, USA)

Dr. Aurélie Gentils (JANNuS-Orsay, France)

Professor Naoyuki Hashimoto (Hokkaido University, Japan)

Professor Khalid Hatter (University of Tennessee-Knoxville, USA)

Professor Jonathan Hinks (University of Huddersfield, UK)

### Organization Committee:

Professor Guang Ran (Local Chair, Xiamen University, China)

Professor Lumin Wang (International Chair, University of Michigan-Ann Arbor, USA)

Professor Shuo Cong (Xiamen University, China)

Dr. Yipeng Li (Xiamen University, China)

Eng. Jinchi Huang (Xiamen University, China)

### Invited Speakers:

Professor Steve Zinkle (University of Tennessee, USA)

Professor Gary Was (University of Michigan, USA)

Professor Guanghong Lu (Beihang University, China)

Professor Lumin Wang (University of Michigan-Ann Arbor, USA)

**Professor Jonathan Hinks (University of Huddersfield, UK)**  
**Professor Khalid Hatter (University of Tennessee, USA)**  
**Professor Fei Gao (University of Michigan, USA)**  
**Professor Mark Daymond (Queen's University, Canada)**  
**Professor Zhongwen Yao (Queen's University, Canada)**  
**Professor Mitsutaka Miyamoto (Shimane University, Japan)**  
**Professor Djamel Kaoumi (North Carolina State University, USA)**  
**Dr. Aurélie Gentils (JANNuS-Orsay, France)**  
**Dr. Yong Dai (Paul Scherrer Institute, Switzerland)**  
**Dr. Juan Du (Southwestern Institute of Physics, China)**  
**Professor Chenyang Lu (Xi'an Jiaotong University, China)**  
**Professor Ning Gao (Shandong University, China)**  
**Professor Xuxiang Hu (Sichuan University, China)**  
**Dr. Chenxu Wang (Peking University, China)**  
**Professor Bingsheng Li (Southwest University of Science and Technology, China)**  
**Dr. Dan Sun (Nuclear Power Institute of China, China)**  
**Professor Li Jiang (Dalian University of Technology, China)**  
**Professor Lu Sun (North China Electric Power University, China)**  
**Eng. Xi Qiu (Nuclear Power Institute of China, China)**  
**Eng. Jinchi Huang (Xiamen University, China)**

**Workshop Zoom link:**

<https://zoom.us/j/99559990454?pwd=elhYODN0NktYUFB0TGkzMEdnTGtIZz09>

**Meeting ID: 995 5999 0454**

**Passcode: 306680**



# WOTWISI 的历史

## (透射电镜原位辐照国际研讨会)

会议序号	举办地	时间	组织者
1	索尔福德大学 英国	6月 18-20 日, 2008	Jonathan Hinks, Stephen Donnelly
2	阿尔伯克基, 新墨西哥州, 美国	6月 5-9 日, 2011	Khalid Hattar
3	北海道大学 札幌, 日本	7月 11-12 日, 2013	Somei Ohnuki, Naoyuki Hashimoto
4	巴黎萨克雷大学 法国	3月 16-18 日, 2016	Aurélie Gentils
5	哈德斯菲尔德大学 英国	4月 11-13 日, 2018	Jonathan Hinks
6	密西根大学 安娜堡, 密西根州, 美国	7月 27-29 日, 2022	王鲁闽, Gary Was
7	厦门大学 中国	5月 29 日-6月 1 日, 2024	冉广



# The History of WOTWISI

## (Workshops On TEM With In-Situ Irradiation)

Meeting Number	Location	Time	Organizers
1	University of Salford United Kingdom	June 18-20, 2008	Jonathan Hinks, Stephen Donnelly
2	Albuquerque, NM USA	June 5-9, 2011	Khalid Hattar
3	Hokkaido University Sapporo, Japan	July 11-12, 2013	Somei Ohnuki, Naoyuki Hashimoto
4	Université Paris-Saclay France	March 16-18, 2016	Aurélie Gentils
5	University of Huddersfield United Kingdom	April 11-13, 2018	Jonathan Hinks
6	University of Michigan Ann Arbor, MI, USA	July 27-29, 2022	Lumin Wang, Gary Was
7	Xiamen University China	May 29-June 1 2024	Guang Ran

# 参会须知

尊敬的各位领导、专家：

欢迎出席“第七届透射电镜原位辐照国际研讨会”。为方便您更好地熟悉本次会议的各项安排，烦请您抽出宝贵时间查阅这本《会议手册》。会议期间，如果您有任何需求，请及时与我们联系，我们将竭诚为您服务！

## 一、会议报到时间和地点

2024年5月29日（13点-23点），厦门大学思明校区国际学术交流中心

## 二、会务联系方式

- 会议总负责：冉广 (+86)13459039869、(+86)18050119869
- 报到注册、用车、交通等联系：崔德旺 (+86)15254136192
- 联机设施参观、合影、入校安排等联系：黄金池 (+86)15060772127
- 住宿、会场等联系：李奕鹏 (+86)15880263107
- 餐饮联系：丛砾 (+86)15959283153

## 三、会议地址

- 住宿：厦门大学思明校区国际学术交流中心
- 会场：厦门大学思明校区科学艺术中心

## 四、退房时间

当天离开厦门，请于中午12点前退房。



# Notes for Participants

Dear professors and participants,

Welcome to the WOTWISI-7. We are delighted to have you here. To help you get acquainted with the workshop details, we kindly ask you to take a moment to review the information provided in this brochure. If you require any assistance during the workshop, please do not hesitate to reach out to us. We are here to assist you!

## 1. Check-in Information

- Date and Time: May 29, 2024, from 13:00 PM to 23:00 PM
- Location: Xiamen University International Academic Exchange Center

## 2. Contact Information

- Guang Ran (Conference Chair): +86 13459039869, +86 18050119869
- Dewang Cui (Registration, Check-in, Transportation Management): +86 15254136192
- Jinchi Huang (Tour of Xiamen Facility, Photo Session, Campus Entrance): +86 15060772127
- Yipeng Li (Hostel, Venue): +86 15880263107
- Shuo Cong (Meal): +86 15959283153

## 3. Address

- Workshop Venue: The Science and Art Center of Xiamen University
- Accommodation: Xiamen University International Academic Exchange Center

## 4. Check-out Information

- Date and Time: Please check out by 12:00 PM on the day you leave Xiamen.

## 日程安排

5月29日	<ul style="list-style-type: none"> <li>■ 会议注册 (13:00-23:00)</li> <li>■ 参观厦门大学联机设施或者自由安排 (15:00-17:00)</li> <li>■ 宾馆自助晚餐 (18:00-21:00)</li> </ul>		
5月30日 (周四), 上午 08:00~12:15			
时间	议程	报告人	主持
08:00~08:20	宣布会议开幕、介绍嘉宾、厦门大学校领导致辞		冉广
08:20~08:35	合影		
08:35~09:00	<b>Enabling Rapid Qualification of Advanced Reactor Core Materials with Ion Irradiation</b>	Gary Was	王鲁闽
09:00~09:25	<b>A Perspective on the Role of In-Situ TEM for Improved Understanding of Irradiation Effects in Materials</b>	Steven Zinkle	
09:25~09:50	<b>Multiscale modelling platform of materials under neutron irradiation - Role of in-situ TEM on the platform development</b>	吕广宏	
09:50~10:15	<b>Using In-Situ Transmission Electron Microscopy to Characterize the Microstructure Evolution Under Irradiation: Research highlights from the “MATerials Under Reactor Extremes” (MATURE) research group at NCSU</b>	Djamel Kaoumi	
10:15~10:35	茶歇		
10:35~11:00	<b>The Study of Irradiation-Induced Nanostructure Patterning with in situ TEM</b>	王鲁闽	吕广宏
11:00~11:25	<b>Effects of damage and dose rate on <math>\alpha'</math> phase formation in oxide dispersion strengthened FeCrAl alloys under Fe ion irradiation studied using in-situ transmission electron microscopy</b>	Jonathan Hinks	
11:25~11:50	<b>Microstructural characterization of irradiated ferritic/martensitic steels after irradiation at Swiss Spallation Neutron Source</b>	戴勇	
11:50~12:15	<b>Evaluation of hydrogen and helium retention behavior in fusion reactor materials using in-situ TEM-QMS</b>	Mitsutaka Miyamoto	
12:15~14:00	午餐、休息		
下午 14:00~18:00			
14:00~14:25	<b>The Vision for Tennessee In-situ Ion Irradiation STEM</b>	Khalid Hattar	王宇钢
14:25~14:50	<b>Unveiling the Microstructural Evolution in Zirconium Alloys Through In-Situ Transmission Electron Microscopy under Irradiation</b>	姚仲文	

14:50~15:15	<b>Nature of Nano-scale Defect Clusters Under Irradiation: Computer Simulations versa Experimental Observations</b>	高飞	
15:15~15:40	<b>The <i>in situ</i> dual ion beam TEM at JANNuS-Orsay: description of the facility, recent updates and results</b>	Aurélie Gentils	
15:40~15:55	<b>Sample holders for <i>in situ</i> TEM with ions</b>	Cedric Baumier	
15:55~16:15	<b>茶歇</b>		
16:15~16:30	<b>Using in-situ TEM to study the irradiation-induced defects in high-purity palladium (Pd)</b>	李奕鹏	
16:30~16:55	<b>In-situ Irradiation Facility at Xiamen University in China</b>	黄金池	
16:55~17:20	<b>Irradiation damage in sintered SiC irradiated by He ions</b>	李炳生	
17:20~17:45	<b>Using Proton Irradiation to Study Stress and Temperature Dependence of Irradiation Creep</b>	Mark Daymond	
17:45~18:00	<b>Development of engineered nano-nuclear materials using particle beam linked Electron Microscopy</b>	Liviu Popa-Simil	
18:00~20:00	<b>晚宴</b>		

### 5月31日(周五)上午 08:00~12:05

时间	议程	报告人	主持
08:00~08:25	<b>Application perspectives of TEM with ion irradiation on the study of tungsten fiber reinforced tungsten Materials</b>	都娟	
08:25~08:50	<b>The influence of local chemical order on the radiation behavior of high entropy alloys</b>	卢晨阳	
08:50~09:15	<b>Coupled effect of Cr and Al on interactions between a prismatic interstitial dislocation loop and an edge dislocation line in Fe-Cr-Al alloy</b>	高宁	高飞
09:15~09:40	<b>Utilizing Cluster Dynamics Modeling to Interpret TEM Observations of In-situ and Ex-situ Irradiation</b>	胡逊祥	
09:40~10:05	<b>Atomistic simulations of the clustering of vacancy and rhenium in Mo-Re alloys</b>	孙璐	
10:05~10:25	<b>茶歇</b>		
10:25~10:50	<b>High-entropy complex ceramics under in-situ irradiation</b>	王晨旭	
10:50~11:15	<b>In-situ TEM observation of microstructure evolution in Mo-Re alloy under <math>Fe^+</math> irradiation</b>	邱玺	
11:15~11:40	<b>Research on the micro-deformation mechanisms and irradiation effects of high-entropy thin films</b>	蒋丽	姚仲文
11:40~12:05	<b>Computer simulation and modeling of radiation effects</b>	孙丹	

12:05~14:00	午餐、休息			
下午 14:00~18:00				
14:00~14:15	TEM characterization of dislocation loops in post-irradiated and in-situ irradiated pure Cr	崔丽娟	高宁	
14:15~14:30	Precipitation behavior of Mo-Re alloy under ion irradiation with 20 MeV nickel ions at a dose level of 140 dpa at 580°C	黄洪涛		
14:30~14:45	Combined irradiation study of radiation damage in reactor pressure vessel materials	陈良		
14:45~15:00	Combined Irradiation Method for In-situ and Ex-situ Study of Radiation Defect Evolution in Alloys	陈东钺		
15:00~15:15	Concurrent effect of hydrogen and irradiation in Zr-based alloy	杨会龙	胡逊祥	
15:15~15:30	Void evolution mechanisms under in situ TEM heavy-ion irradiation environment	范存才		
15:30~15:45	Modelling of the fission gas swelling for UO <sub>2</sub> fuel in PWR	周毅		
15:45~16:00	The synergetic effect of He and Kr irradiation on helium bubble evolution in SiC/SiC composite: Combining in-situ TEM observation with MD simulation	郑策		
16:00~16:20	茶歇			
16:20~16:35	Effect of post-treatments on radiation damage of additively manufactured 316L stainless steels	宋淼	卢晨阳	
16:35~16:50	Synergistic effects between He bubbles and Mg in the silicon carbide materials	刘敏		
16:50~17:05	Radionuclide Tracing Based in situ Corrosion and Mass Transport Monitoring of 316L Stainless Steel in a Molten Salt Closed Loop	王亚飞		
17:05~17:20	In Situ and Ex Situ TEM Study of Microstructural Evolution in Hollandite Ceramics under Ion Irradiation	李钰涵	袁悦	
17:20~17:35	Deuterium-helium mixed plasma irradiation on surface modification of ZrC dispersion-strengthened tungsten	陈泽		
17:35~17:50	Theoretical investigation of positron annihilation spectroscopy of neutron irradiated CrMnFeNi high entropy alloy	李聪毅		
17:50~18:00	总结			
18:00~20:00	酒店自助晚餐			
6月1日（周六），离会				



## Schedule

<b>May 29</b>	<ul style="list-style-type: none"> <li>■ Meeting registration (13:00-23:00)</li> <li>■ Tour of the Xiamen Ion Beam-TEM Facility (15:00-17:00) or free time</li> <li>■ Hotel buffet dinner (18:00-21:00)</li> </ul>			
<b>May 30 (Thursday) Morning Session 08:00~12:15</b>				
Time	Agenda	Reporter	Session Chair	
08:00~08:20	<b>Opening ceremony, Guests Introduction, and Speeches by Leaders of Xiamen University</b>		Guang Ran	
08:20~08:35	<b>Photography for group photo</b>			
08:35~09:00	<b>Enabling Rapid Qualification of Advanced Reactor Core Materials with Ion Irradiation</b>	Gary Was	Lumin Wang	
09:00~09:25	<b>A Perspective on the Role of In-Situ TEM for Improved Understanding of Irradiation Effects in Materials</b>	Steven Zinkle		
09:25~09:50	<b>Multiscale modelling platform of materials under neutron irradiation - Role of in-situ TEM on the platform development</b>	Guanghong Lu		
09:50~10:15	<b>Using In-Situ Transmission Electron Microscopy to Characterize the Microstructure Evolution Under Irradiation: Research highlights from the “MATerials Under Reactor Extremes” (MATURE) research group at NCSU</b>	Djamel Kaoumi		
10:15~10:35	<b>Coffee break</b>			
10:35~11:00	<b>The Study of Irradiation-Induced Nanostructure Patterning with in situ TEM</b>	Lumin Wang	Guanghong Lu	
11:00~11:25	<b>Effects of damage and dose rate on <math>\alpha'</math> phase formation in oxide dispersion strengthened FeCrAl alloys under Fe ion irradiation studied using in-situ transmission electron microscopy</b>	Jonathan Hinks		
11:25~11:50	<b>Microstructural characterization of irradiated ferritic/martensitic steels after irradiation at Swiss Spallation Neutron Source</b>	Yong Dai		
11:50~12:15	<b>Evaluation of hydrogen and helium retention behavior in fusion reactor materials using in-situ TEM-QMS</b>	Mitsutaka Miyamoto		
12:15~14:00	<b>Lunch break</b>			
<b>Afternoon Session 14:00~18:00</b>				
14:00~14:25	<b>The Vision for Tennessee In-situ Ion Irradiation STEM</b>	Khalid Hattar	Yugang Wang	
14:25~14:50	<b>Unveiling the Microstructural Evolution in Zirconium Alloys Through In-Situ Transmission Electron Microscopy under Irradiation</b>	Zhongwen Yao		



14:50~15:15	<b>Nature of Nano-scale Defect Clusters Under Irradiation: Computer Simulations versa Experimental Observations</b>	Fei Gao	
15:15~15:40	<b>The <i>in situ</i> dual ion beam TEM at JANNuS-Orsay: description of the facility, recent updates and results</b>	Aurélie Gentils	
15:40~15:55	<b>Sample holders for <i>in situ</i> TEM with ions</b>	Cedric Baumier	
15:55~16:15	<b>Coffee break</b>		
16:15~16:30	<b>Using in-situ TEM to study the irradiation-induced defects in high-purity palladium (Pd)</b>	Yipeng Li	Yong Dai
16:30~16:55	<b>In-situ Irradiation Facility at Xiamen University in China</b>	Jinchi Huang	
16:55~17:20	<b>Irradiation damage in sintered SiC irradiated by He ions</b>	Bingsheng Li	
17:20~17:45	<b>Using Proton Irradiation to Study Stress and Temperature Dependence of Irradiation Creep</b>	Mark Daymond	
17:45~18:00	<b>Development of engineered nano-nuclear materials using particle beam linked Electron Microscopy</b>	Liviu Popa-Simil	
18:00~20:00	<b>Banquet</b>		

#### May 31 (Friday) Morning Session 08:00~12:05

Time	Agenda	Reporter	Host
08:00~08:25	<b>Application perspectives of TEM with ion irradiation on the study of tungsten fiber reinforced tungsten Materials</b>	Juan Du	Fei Gao
08:25~08:50	<b>The influence of local chemical order on the radiation behavior of high entropy alloys</b>	Chenyang Lu	
08:50~09:15	<b>Coupled effect of Cr and Al on interactions between a prismatic interstitial dislocation loop and an edge dislocation line in Fe-Cr-Al alloy</b>	Ning Gao	
09:15~09:40	<b>Utilizing Cluster Dynamics Modeling to Interpret TEM Observations of In-situ and Ex-situ Irradiation</b>	Xunxiang Hu	
09:40~10:05	<b>Atomistic simulations of the clustering of vacancy and rhenium in Mo-Re alloys</b>	Lu Sun	
10:05~10:25	<b>Coffee break</b>		
10:25~10:50	<b>High-entropy complex ceramics under in-situ irradiation</b>	Chenxu Wang	Zhongwen Yao
10:50~11:15	<b>In-situ TEM observation of microstructure evolution in Mo-Re alloy under Fe<sup>+</sup> irradiation</b>	Xi Qiu	
11:15~11:40	<b>Research on the micro-deformation mechanisms and irradiation effects of high-entropy thin films</b>	Li Jiang	



11:40~12:05	Computer simulation and modeling of radiation effects	Dan Sun		
12:05~14:00	Lunch break			
Afternoon Session 14:00~18:00				
14:00~14:15	TEM characterization of dislocation loops in post-irradiated and in-situ irradiated pure Cr	Lijuan Cui	Ning Gao	
14:15~14:30	Precipitation behavior of Mo-Re alloy under ion irradiation with 20 MeV nickel ions at a dose level of 140 dpa at 580°C	Hongtao Huang		
14:30~14:45	Combined irradiation study of radiation damage in reactor pressure vessel materials	Liang chen		
14:45~15:00	Combined Irradiation Method for In-situ and Ex-situ Study of Radiation Defect Evolution in Alloys	Dongyue Chen		
15:00~15:15	Concurrent effect of hydrogen and irradiation in Zr-based alloy	Huiliang Yang		
15:15~15:30	Void evolution mechanisms under in situ TEM heavy-ion irradiation environment	Cuncui Fan		
15:30~15:45	Modelling of the fission gas swelling for UO <sub>2</sub> fuel in PWR	Yi Zhou		
15:45~16:00	The synergistic effect of He and Kr irradiation on helium bubble evolution in SiC/SiC composite: Combining in-situ TEM observation with MD simulation	Ce Zheng		
16:00~16:20	Coffee break			
16:20~16:35	Effect of post-treatments on radiation damage of additively manufactured 316L stainless steels	Miao Song	Chenyang Lu	
16:35~16:50	Synergistic effects between He bubbles and Mg in the silicon carbide materials	Min Liu		
16:50~17:05	Radionuclide Tracing Based in situ Corrosion and Mass Transport Monitoring of 316L Stainless Steel in a Molten Salt Closed Loop	Yafei Wang		
17:05~17:20	In Situ and Ex Situ TEM Study of Microstructural Evolution in Hollandite Ceramics under Ion Irradiation	Yuhan Li	Yue Yuan	
17:20~17:35	Deuterium-helium mixed plasma irradiation on surface modification of ZrC dispersion-strengthened tungsten	Ze Chen		
17:35~17:50	Theoretical investigation of positron annihilation spectroscopy of neutron irradiated CrMnFeNi high entropy alloy	Congyi Li		
17:50~18:00	Closing remarks			
18:00~20:00	Hotel buffet dinner			
June 1 (Saturday) Departure				



## 第二部分：参会人员

(排序不分先后)

### 国外参会人员名单

序号	姓名（英文）	国籍 (中文)	单位（中文）	职称/职务（中 文）
1	Aurelie Gentils	法国	奥赛国家实验室	研究员
2	Cedric Baumier	法国	奥赛国家实验室	研究员
3	Mark Daymond	加拿大	皇后大学	教授
4	Zhongwen Yao	加拿大	皇后大学	教授
5	Djamel Kaoumi	美国	北卡罗来纳州立大学	教授
6	Liviu Popa-Simil	美国	拉唯姆技术咨询公司	研究员
7	Fei Gao	美国	密西根大学	教授
8	Gary Was	美国	密西根大学	教授
9	Lumin Wang	美国	密西根大学	教授
10	Khalid Hattar	美国	田纳西大学	教授
11	Steve Zinkle	美国	田纳西大学	教授/美国工程 院院士
12	Mitsutaka Miyamoto	日本	岛根大学	教授
13	Yong Dai	瑞士	保罗谢勒研究所	研究员
14	Jonathan Hinks	英国	哈德斯菲尔德大学	教授

### 中国内地参会人员名单

序号	姓名	地区	单位	职称/职务
1	王宇钢	中国内地	北京大学	教授
2	王晨旭	中国内地	北京大学	研究员
3	杜进隆	中国内地	北京大学	工程师
4	吕广宏	中国内地	北京航空航天大学	教授/院长
5	周洪波	中国内地	北京航空航天大学	教授
6	袁 悅	中国内地	北京航空航天大学	教授
7	黄浩轩	中国内地	北京航空航天大学	硕士研究生
8	万发荣	中国内地	北京科技大学	教授
9	蒋 丽	中国内地	大连理工大学	副教授
10	都 娟	中国内地	核工业西南物理研究院	研究员

11	文 攀	中国内地	核工业西南物理研究院	研究员实习
12	鲁又萍	中国内地	核工业西南物理研究院	博士后
13	邓辉球	中国内地	湖南大学	教授
14	佟振峰	中国内地	华北电力大学	教授
15	孙 璐	中国内地	华北电力大学	副教授
16	李钰涵	中国内地	美国密西根大学	博士研究生
17	陈东钺	中国内地	清华大学	副教授
18	王雪林	中国内地	山东大学	教授
19	高 宁	中国内地	山东大学	教授
20	司 宇	中国内地	上海大学	博士研究生
21	何冠泽	中国内地	上海核工程研究设计院股份有限公司	工程师
22	陈 良	中国内地	上海交通大学	副教授
23	宋 淦	中国内地	上海交通大学	副教授
24	王亚飞	中国内地	上海交通大学	副教授
25	杨会龙	中国内地	上海交通大学	副教授
26	李聪毅	中国内地	上海交通大学	助理教授
27	赖 侃	中国内地	韶关学院	助理教授
28	胡逊祥	中国内地	四川大学	教授
29	崔丽娟	中国内地	四川大学	助理教授
30	卢晨阳	中国内地	西安交通大学	教授
31	雷鹏辉	中国内地	西安交通大学	助理教授
32	施 坦	中国内地	西安交通大学	助理教授
33	杜东海	中国内地	西北工业大学	副教授
34	郑 策	中国内地	西北工业大学	副教授
35	叶 超	中国内地	西北工业大学	助理教授
36	常 青	中国内地	西北工业大学	博士研究生
37	李炳生	中国内地	西南科技大学	教授
38	刘晨光	中国内地	烟台大学	副教授
39	黄 海	中国内地	郑州大学	副教授
40	伍晓勇	中国内地	中国核动力研究设计院	研究员
41	赵 毅	中国内地	中国核动力研究设计院	研究员
42	周 毅	中国内地	中国核动力研究设计院	高级工程师
43	孙 丹	中国内地	中国核动力研究设计院	副研究员



44	邱 垚	中国内地	中国核动力研究设计院	工程师
45	时靖谊	中国内地	中国科学技术大学	副研究员
46	尹 超	中国台湾	中国科学技术大学	副研究员
47	陈 泽	中国内地	中国科学技术大学	博士研究生
48	李 龙	中国内地	中国科学技术大学	博士研究生
49	刘皓东	中国内地	中国科学院等离子体物理研究所	助理研究员
50	彭 庆	中国内地	中国科学院力学研究所	研究员
51	盛彦斌	中国内地	中国科学院近代物理研究所	博士研究生
52	黄洪涛	中国内地	中山大学	副教授
53	黄 波	中国内地	中山大学	副教授
54	刘 敏	中国内地	中山大学	副教授
55	范存才	中国内地	香港城市大学	助理教授
56	尤延铖	中国内地	厦门大学	教授/副校长
57	王洁松	中国内地	厦门大学	院书记
58	李剑锋	中国内地	厦门大学	教授/副院长
59	冉 广	中国内地	厦门大学	教授/副校长
60	张 建	中国内地	厦门大学	教授
61	丛 烨	中国内地	厦门大学	副教授
62	李奕鹏	中国内地	厦门大学	特任副研究员
63	黄金池	中国内地	厦门大学	工程师
64	周哲辉	中国内地	厦门大学	工程师
65	曹子奇	中国内地	厦门大学	博士研究生
66	崔德旺	中国内地	厦门大学	博士研究生
67	丁一帆	中国内地	厦门大学	博士研究生
68	何治锋	中国内地	厦门大学	博士研究生
69	胡潇天	中国内地	厦门大学	博士研究生
70	黄继勇	中国内地	厦门大学	博士研究生
71	刘歆翌	中国内地	厦门大学	博士研究生
72	朱圣佑	中国内地	厦门大学	博士研究生
73	李 绅	中国内地	厦门大学	硕士研究生
74	刘正煜	中国内地	厦门大学	硕士研究生
75	裴克非	中国内地	厦门大学	硕士研究生



76	任佳城	中国内地	厦门大学	硕士研究生
77	王一为	中国内地	厦门大学	硕士研究生
78	王左江	中国内地	厦门大学	博士研究生
79	吴梦杰	中国内地	厦门大学	硕士研究生
80	袁帆	中国内地	厦门大学	硕士研究生
81	钟庆鸿	中国内地	厦门大学	硕士研究生



## Part II: Attendees

**(Names not listed in order)**

### International Attendees

No.	Name	Nationality	Organization	Title/Position
1	Aurélie Gentils	France	JANNuS-Orsay	Researcher
2	Cedric Baumier	France	JANNuS-Orsay	Researcher
3	Mark Daymond	Canada	Queen's University	Professor
4	Zhongwen Yao	Canada	Queen's University	Professor
5	Djamel Kaoumi	USA	North Carolina State University	Professor
6	Liviu Popa-Simil	USA	LAVM LLC	Researcher
7	Fei Gao	USA	University of Michigan	Professor
8	Gary Was	USA	University of Michigan	Professor
9	Lumin Wang	USA	University of Michigan	Professor
10	Khalid Hattar	USA	The University of Tennessee	Professor
11	Steve Zinkle	USA	The University of Tennessee	Professor / NAE member
12	Mitsutaka Miyamoto	Japan	Shimane University	Professor
13	Yong Dai	Switzerland	Paul Scherrer Institute	Researcher
14	Jonathan Hinks	UK	University of Huddersfield	Professor

### China Attendees

No.	Name	Nationality	Organization	Title/Position
1	Yugang Wang	Mainland China	Beijing University	Professor
2	Chenxu Wang	Mainland China	Beijing University	Researcher
3	Jinlong Du	Mainland China	Beijing University	Engineer
4	Guanghong Lu	Mainland China	Beihang University	Professor/ Dean
5	Hongbo Zhou	Mainland China	Beihang University	Professor
6	Yue Yuan	Mainland China	Beihang University	Professor
7	Haoxuan Huang	Mainland China	Beihang University	Master Student
8	Farong Wan	Mainland China	University of Science and Technology Beijing	Professor
9	Li Jiang	Mainland China	Dalian University of Technology	Associate Professor

10	Juan Du	Mainland China	Southwestern Institute of Physics	Researcher
11	Pan Wen	Mainland China	Southwestern Institute of Physics	Researcher Intern
12	Youping Lu	Mainland China	Southwestern Institute of Physics	Postdoctoral
13	Huiqiu Deng	Mainland China	Hunan University	Professor
14	Zhenfeng Tong	Mainland China	North China Electric Power University	Professor
15	Lu Sun	Mainland China	North China Electric Power University	Associate Professor
16	Yuhan Li	Mainland China	University of Michigan	Doctoral Student
17	Dongyue Chen	Mainland China	Tsinghua University	Associate Professor
18	Xuelin Wang	Mainland China	Shandong University	Professor
19	Ning Gao	Mainland China	Shandong University	Professor
20	Yu Si	Mainland China	Shanghai University	Doctoral Student
21	Guanze He	Mainland China	Shanghai Nuclear Engineering Research & Design Institute	Engineer
22	Liang Chen	Mainland China	Shanghai Jiaotong University	Associate Professor
23	Miao Song	Mainland China	Shanghai Jiaotong University	Associate Professor
24	Yafei Wang	Mainland China	Shanghai Jiaotong University	Associate Professor
25	Huilong Yang	Mainland China	Shanghai Jiaotong University	Associate Professor
26	Congyi Li	Mainland China	Shanghai Jiaotong University	Assistant Professor
27	Kan Lai	Mainland China	Shaoguan University	Assistant Professor
28	Xunxiang Hu	Mainland China	Sichuan University	Professor
29	Lijuan Cui	Mainland China	Sichuan University	Assistant Professor
30	Chenyang Lu	Mainland China	Xi'an Jiaotong University	Professor

31	Penghui Lei	Mainland China	Xi'an Jiaotong University	Assistant Professor
32	Tan Shi	Mainland China	Xi'an Jiaotong University	Associate Professor
33	Donghai Du	Mainland China	Northwestern Polytechnical University	Associate Professor
34	Ce Zheng	Mainland China	Northwestern Polytechnical University	Associate Professor
35	Chao Ye	Mainland China	Northwestern Polytechnical University	Assistant Professor
36	Qing Chang	Mainland China	Northwestern Polytechnical University	Doctoral Student
37	Bingsheng Li	Mainland China	Southwest University of Science and Technology	Professor
38	Chenguang Liu	Mainland China	Yantai University	Associate Professor
39	Hai Huang	Mainland China	Zhengzhou University	Assistant Professor
40	Xiaoyong Wu	Mainland China	Nuclear Power Institute of China	Researcher
41	Yi Zhao	Mainland China	Nuclear Power Institute of China	Research
42	Yi Zhou	Mainland China	Nuclear Power Institute of China	Senior Engineer
43	Dan Sun	Mainland China	Nuclear Power Institute of China	Associate Researcher
44	Xi Qiu	Mainland China	Nuclear Power Institute of China	Engineer
45	Jingyi Shi	Mainland China	University of Science and Technology of China	Associate Researcher
46	Chao Yin	Taiwan China	University of Science and Technology of China	Associate Researcher

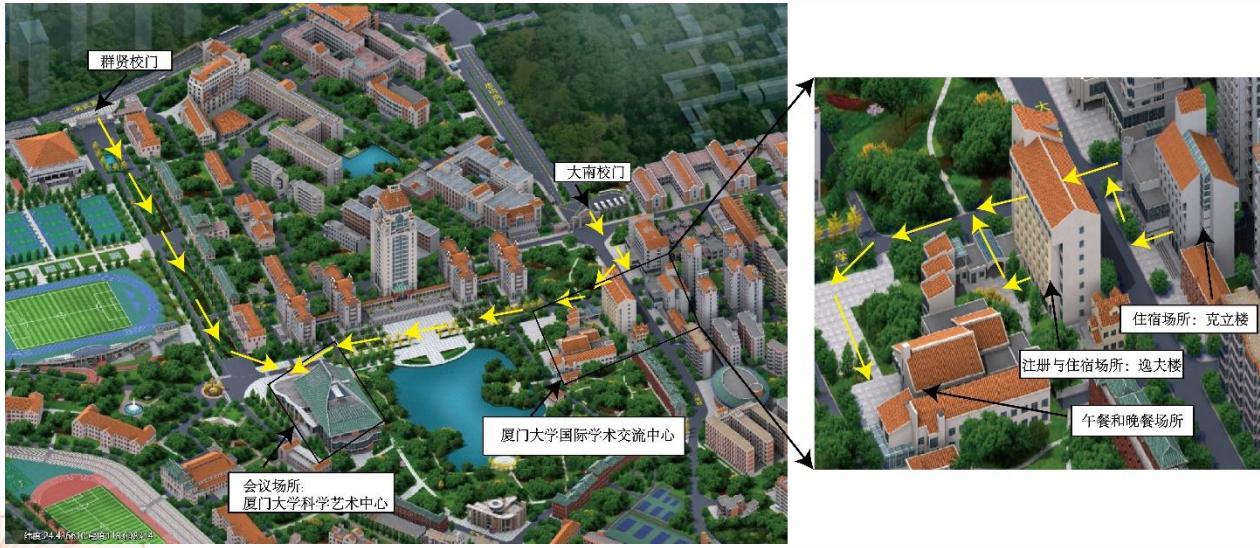
47	Ze Chen	Mainland China	University of Science and Technology of China	Doctoral Student
48	Long Li	Mainland China	University of Science and Technology of China	Doctoral Student
49	Haodong Liu	Mainland China	Institute Of Plasma Physics, Chinese Academy Of Sciences	Assistant Researcher
50	Qing Peng	Mainland China	Institute of Mechanics, Chinese Academy of Sciences	Researcher
51	Yanbin Sheng	Mainland China	Institute of Modern Physics, Chinese Academy of Sciences	Doctoral Student
52	Hongtao Huang	Mainland China	Sun Yat-sen University	Associate Professor
53	Bo Huang	Mainland China	Sun Yat-sen University	Associate Professor
54	Min Liu	Mainland China	Sun Yat-sen University	Associate Professor
55	Cuncui Fan	Mainland China	City University of Hong Kong	Assistant Professor
56	Yancheng You	Mainland China	Xiamen University	Professor /Vice President
57	Jiesong Wang	Mainland China	Xiamen University	Secretary of the College
58	Jianfeng Li	Mainland China	Xiamen University	Professor /Vice Dean
59	Guang Ran	Mainland China	Xiamen University	Professor/ Vice Director
60	Jian Zhang	Mainland China	Xiamen University	Professor
61	Shuo Cong	Mainland China	Xiamen University	Associate Professor
62	Yipeng Li	Mainland China	Xiamen University	Specially appointed Associate Researcher
63	Jinchi Huang	Mainland China	Xiamen University	Engineer

64	Zhehui Zhou	Mainland China	Xiamen University	Engineer
65	Ziqi Cao	Mainland China	Xiamen University	Doctoral Student
66	Dewang Cui	Mainland China	Xiamen University	Doctoral Student
67	Yifan Ding	Mainland China	Xiamen University	Doctoral Student
68	Zhifeng He	Mainland China	Xiamen University	Doctoral Student
69	Xiaotian Hu	Mainland China	Xiamen University	Doctoral Student
70	Jiyong Huang	Mainland China	Xiamen University	Doctoral Student
71	Xinyi Liu	Mainland China	Xiamen University	Doctoral Student
72	Zuojiang Wang	Mainland China	Xiamen University	Doctoral Student
73	Shengyou Zhu	Mainland China	Xiamen University	Doctoral Student
74	Shen Li	Mainland China	Xiamen University	Master Student
75	Zhengyu Liu	Mainland China	Xiamen University	Master Student
76	Kefei Pei	Mainland China	Xiamen University	Master Student
77	Jiacheng Ren	Mainland China	Xiamen University	Master Student
78	Yiwei Wang	Mainland China	Xiamen University	Master Student
79	Mengjie Wu	Mainland China	Xiamen University	Master Student
80	Fan Yuan	Mainland China	Xiamen University	Master Student
81	Qinghong Zhong	Mainland China	Xiamen University	Master Student

## 第三部分：会场、住宿、餐饮、交通等指南

### 3.1、会议酒店及说明

- (1) 会议报到注册：“厦门大学思明校区国际学术交流中心”大堂
- (2) 会议地点：厦门大学思明校区科学艺术中心 (有指示牌子和工作人员引导)
- (3) 就餐地点：厦门大学思明校区逸夫楼（注册费用包括了 5 月 30-31 日的午餐以及 5 月 29-31 日的晚餐。联系人：丛炼+86 15959283153）



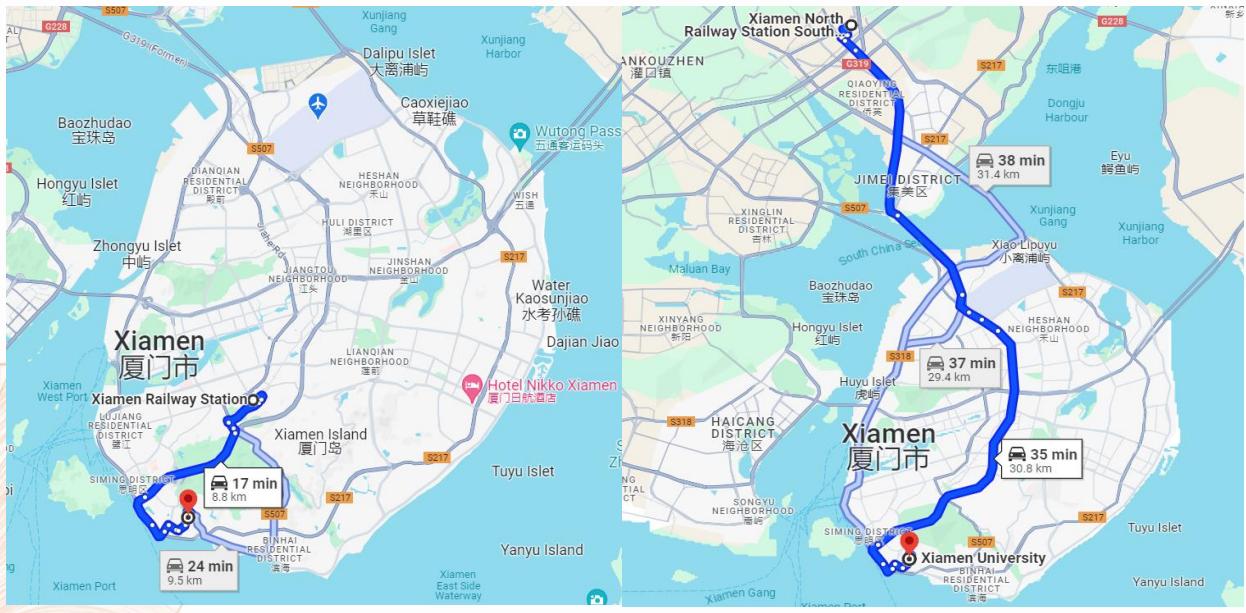
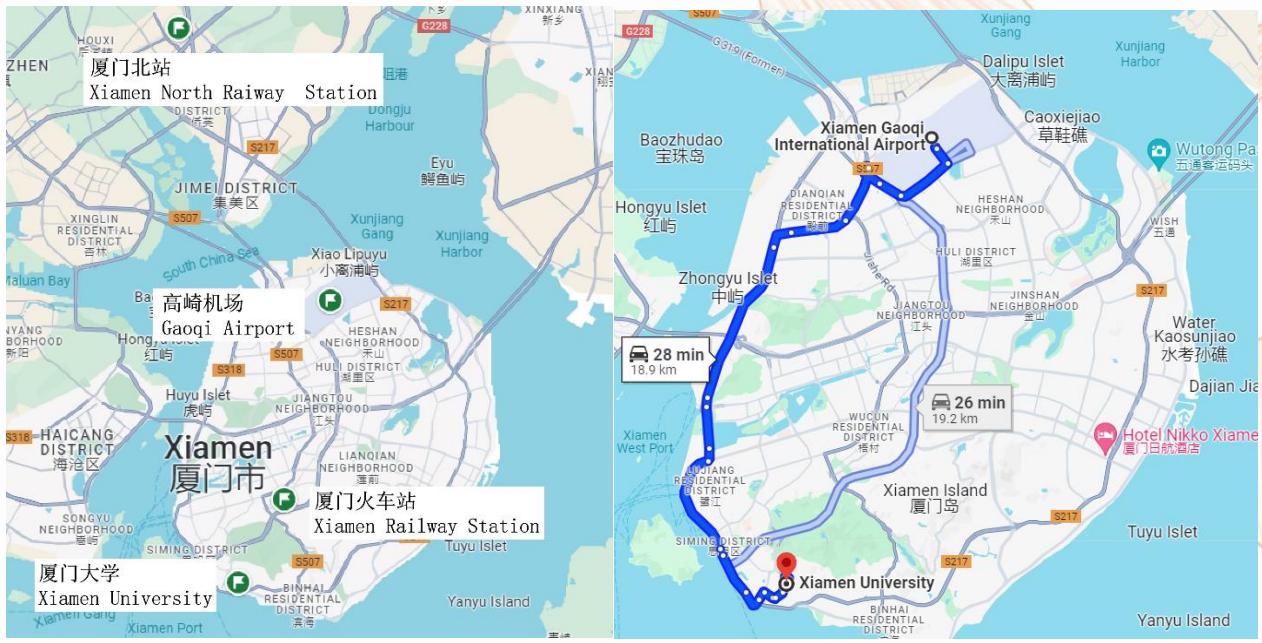
厦门大学思明校区平面图

### 3.2、交通

- (1) 厦门高崎机场  $\leftrightarrow$  厦门大学思明校区大南校门：约 18 公里，约 30 分钟
- (2) 厦门火车站（岛内） $\leftrightarrow$  厦门大学思明校区大南校门：约 6.8 公里，约 20 分钟
- (3) 厦门火车北站（岛外） $\leftrightarrow$  厦门大学思明校区大南校门：约 30 公里，约 40 分钟

在厦门大学思明校区大南校门下车后，通过刷身份证或者人脸识别方式，进入校园，直行约 100 米，到达逸夫楼宾馆。





### 3.3、用餐地点：厦门大学思明校区国际交流中心



逸夫楼西餐厅

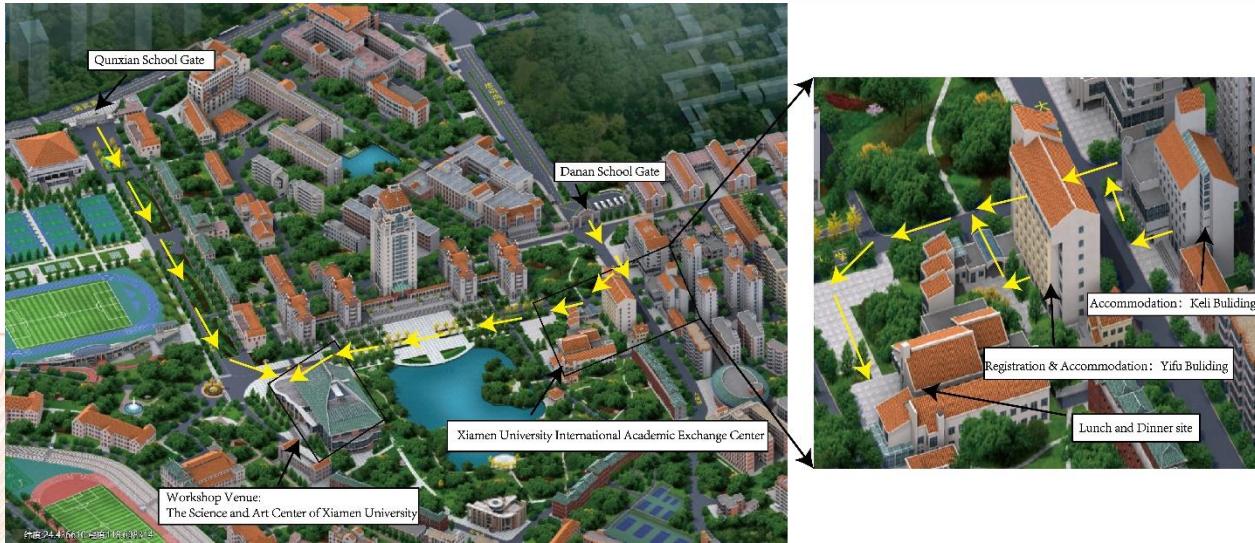


逸夫楼中餐厅

## Part III: Guidance on Workshop Venue, Accommodation, Meals & Transportation

### 3.1 Workshop Hotel and Instructions

- (1) Workshop Check-in: located at the lobby of the Xiamen University International Academic Exchange Center
- (2) Workshop Venue: located at the Science and Art Center of Xiamen University (***signage and staff guidance on site available***)
- (3) Dining Location: Yifulou Western Restaurant (Registration fee covers, 2 lunches (May 30 and 31), and 3 dinner (May 29-31). ***Contact: Shuo Cong (+86) 15959283153***)



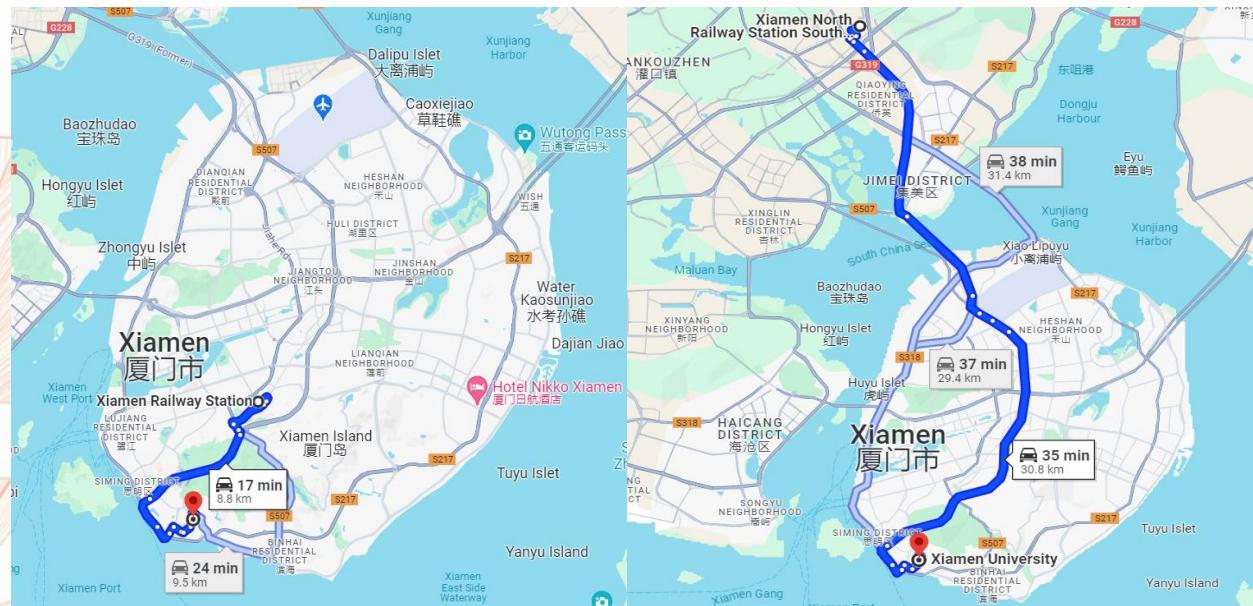
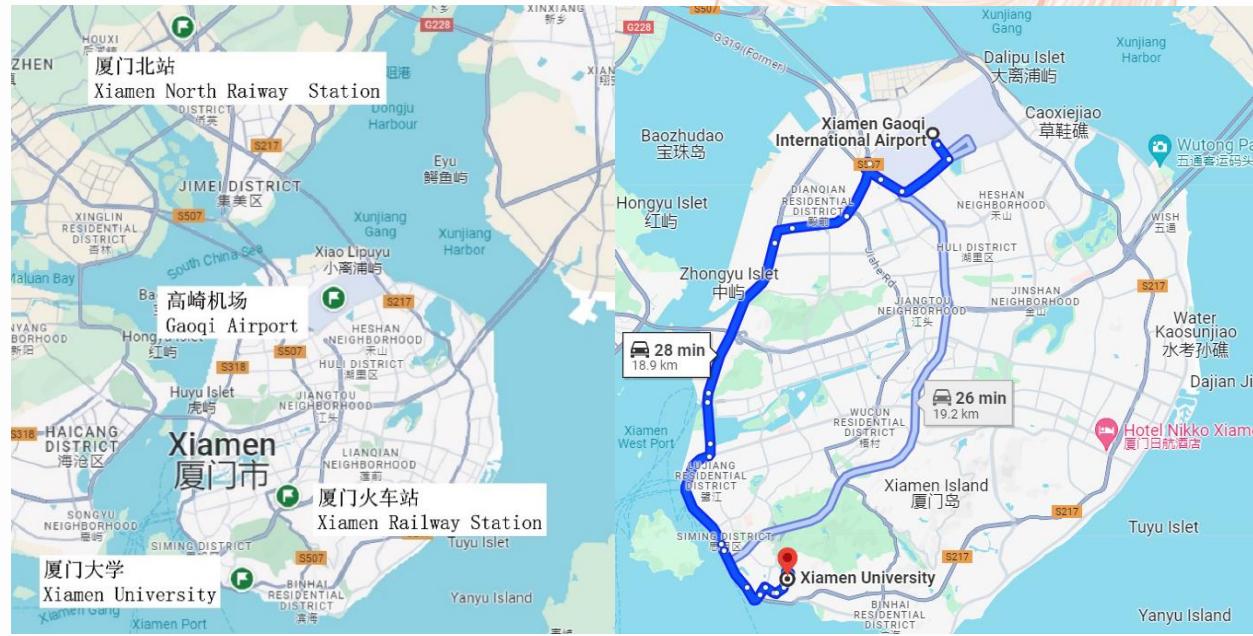
Layout Map of Xiamen University Siming Campus

### 3.2 Transportation

- (1) Gaoqi Airport, Xiamen ↔ Danan School Gate, Simin Campus of Xiamen University: Around 18 km, 30 minutes
- (2) Xiamen Railway Station (Xiamen Island) ↔ Danan School Gate, Simin Campus of Xiamen University: Around 9 km, 20 minutes
- (3) Xiamen North Railway Station (Jimei District) ↔ Danan School Gate, Simin Campus of Xiamen University: Around 30 km, 40 minutes



After getting off at the Danan School Gate, Siming Campus of Xiamen University, enter the campus by brushing your ID card or face recognition, and go straight for about 100 meters to the Yifu Building Hotel.



### 3.3 Dining place: Xiamen University International Academic Exchange Center



**Yifulou Western Restaurant**



**Yifulou Chinese Food Restaurant**

## 第四部分 摘要

请从官方网站下载:

<https://wotwisi7.xmu.edu.cn/index.html>

### Part IV: Abstracts

Please download from the official website:

<https://wotwisi7.xmu.edu.cn/index.html>

