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2023 国际培训计划

2023 INTERNATIONAL TRAINING PROGRAM

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2023 INTERNATIONAL TRAINING PROGRAM



中华人民共和国科学技术部
Ministry of Science and Technology
People's Republic of China

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Ministry of Science and Technology
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前言

多年来，中国在致力于自身发展的同时，始终坚持向其他发展中国家提供力所能及的帮助。自1989年起，科技部每年组织实施发展中国家技术培训班项目，为发展中国家培训涉及农业、先进制造、资源环境、医疗卫生等领域的专业技术、科技管理人才，已累计举办培训班800多个，培训学员超过15000人次，被广大发展中国家认可和欢迎。

中国很多实用技术适合发展中国家的需求，这些实用技术在发展中国家推广应用，有益于这些国家的经济发展和技术水平的提升。发展中国家技术培训班不断深化中国与其他发展中国家各领域交流合作，为众多发展中国家架起了友谊的桥梁，搭建了合作的平台，拓展了合作的空间，得到广大发展中国家政府和培训学员的高度评价。

2023发展中国家技术培训班项目已经科技部立项，并于今年陆续执行，举办方式为线下培训，培训时间为15—20天。培训教材及资料费、教师讲课费、实习参观费、学习期间当地交通费、学员食宿费等均由培训班承担，国际旅费由学员自理。

本着平等互利、成果共享和保护知识产权的原则，中国政府愿将这些技术通过培训班的形式介绍给你们，以此来促进我们的科技和经济共同发展。欢迎各国朋友根据你们国家的利益和需求，选择参加合适的培训班。

戴钢

中国科学技术部国际合作司司长

Over the years, while pursuing its own development, China has been committed to providing support and assistance to other developing countries to the best of its capacity. Since 1989, the Ministry of Science and Technology of China has implemented Technical Training Programs for Developing Countries every year, training professionals in fields such as agriculture, advanced manufacturing, resources and environment, and healthcare for other developing countries. So far, over 800 training programs have been carried out, attracting more than 15,000 trainees. These training programs have been widely recognized and welcomed by other developing countries.

There are a lot of Chinese technologies that meet the needs of developing countries. Their wide application can boost economic growth and technological progress of developing countries. The international training workshops, as a bridge of friendship and a platform for cooperation, have deepened exchanges and cooperation between China and other developing countries in various fields, and been applauded by the governments and trainees of participating countries.

The 2023 international training workshops, which have been approved by the Ministry of Science and Technology of China, will be held offline this year, with a duration of 15 to 20 days. The costs of training related to training materials, lectures, visits, local transportation and accommodation, will be borne by the workshop organizers. International travel expenses will be afforded by the trainees themselves.

Following the principle of equality and mutual benefits, result sharing and intellectual property protection, the Chinese Government is willing to share practical technologies through international training workshops to promote common development in the fields of science & technology and economy. Friends from all developing countries are welcome to participate in this year's workshops.

DAI GANG

Department of International Cooperation of the
Ministry of Science and Technology of China

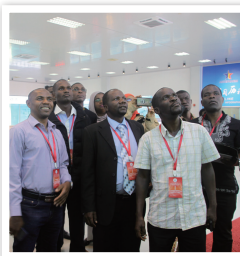
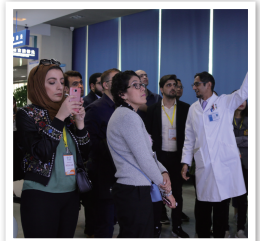
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肾脏病理与肾小球疾病诊治国际培训班

🕒 举办时间：2024 年 8 月

📍 举办地点：上海

🗣️ 工作语言：英语

培训目的

通过对亚非等发展中国家从事肾小球疾病诊治和肾脏病理诊断人员的规范化技术培训，促进肾脏病理诊断技术在这些国家安全有序开展，持续改善发展中国家肾患者的预后，提高肾脏病规范化防治水平和整体医疗质量。

培训内容

对肾脏病理检查技术、诊断规范和肾小球疾病的临床诊治规范等内容进行系统介绍和讨论，以线下学术专题讲座、病例讨论、病理读片会和操作示教为主，结合线上授课、病例讨论和在线病理读片等形式，主要涵盖肾穿刺技术、标本处理技术、肾脏病理基本理论、肾脏病理诊断国际指南、各种检测指标的意义及实际应用、原发性和继发性肾小球疾病、少见病和罕见病、移植肾病理、肿瘤相关肾脏病理和临床病理质量控制等 10 部分内容。

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International Training Program on Renal Pathology and Glomerular Disease

 **Time:** August, 2024

 **Venue:** Shanghai

 **Working Language:** English

Objectives

This training program is designed for staffs engaged in the diagnosis and treatment of glomerular diseases and renal pathology from the developing countries in Asia and Africa. The objective is to promote the safe and orderly development of renal pathological diagnosis technology in these countries, to continuously improve the prognosis of patients with renal disease, and to enhance the level of standardized prevention and treatment of renal disease and overall medical quality.

Programs

The training program provides trainees with renal pathological examination techniques, diagnostic standards and clinical practice guidelines of glomerular diseases by onsite academic lectures, case discussion, pathological reading sessions and practice teaching, combined with online sessions. The program mainly covers 10 parts, including renal biopsy techniques, specimen processing techniques, basic theory of renal pathology, international guidelines for renal pathological diagnosis, significance and practical application of various detection indicators, primary and secondary glomerular diseases, rare glomerular diseases, transplant renal pathology, malignancy related renal diseases, and clinicopathological quality control.

Organizer: Zhongshan Hospital, Fudan University

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Postcode: 200032

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生物安全实验室管理与技术国际培训班

🕒 举办时间：2023 年 11 月

📍 举办地点：湖北武汉

🗣️ 工作语言：英语

培训目的

1. 探讨国际生物安全现状；
2. 学习生物安全风险管理的核心内容：风险识别、风险评估、预防措施；
3. 获得有关传染性病原体的知识和生物安全实验室安全操作的实践经验；
4. 了解生物安全实验室设计和运行的基本原理；

培训内容

1. 生物安全管理与生物安全实验室概述；
2. 生物安全实验室病原操作规范；
3. 生物安全实验室实际操作；
4. 参访与交流。

承办单位：中国科学院武汉病毒研究所

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International Workshop on Biosafety Laboratory Management and Techniques

-  **Time:** November, 2023
-  **Venue:** Wuhan, Hubei, China
-  **Working Language:** English

Objectives

1. Discuss current status on international biosafety.
2. Understand key components (risk recognition, risk assessment and risk mitigation) of biorisk management system for biosafety laboratories.
3. Acquire knowledge on contagious pathogens and hands-on experience of safe operations in biosafety laboratories.
4. Know basic design and operations of biosafety laboratories.

Programs

1. Management of biosafety and biosafety laboratories.
2. Norms in handling pathogens in biosafety laboratories.
3. Exercises in biosafety laboratories.
4. Social activities.

Organizer: Wuhan Institute of Virology, Chinese Academy of Sciences

Address: 262 Jinlong Street, Jiangxia District, Wuhan, Hubei, China

Postcode: 430207

Coordinator: Zhang Han

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“一带一路”基因组医学前沿技术应用国际培训班

🕒 **举办时间：**2024 年 2 月

📍 **举办地点：**广东深圳

🗣️ **工作语言：**英语

培训目的

为共建“一带一路”国家培养基因科技领域的专业人才，促进中外人才交流与合作，促进中国科技企业和研究机构与共建“一带一路”国家的医疗机构、科研机构、大学等建立紧密的合作关系，共同推动基因组医学研究和应用的发展。帮助共建“一带一路”国家的科研人员、医生等掌握基因组医学前沿技术，提高他们在基因组医学研究和临床应用方面的技术水平，帮助共建“一带一路”国家的医疗机构提高对疾病进行精准诊断、精准预防及精准治疗的技术水平，建设更加专业的医疗能力。

培训内容

多组学研究方法及前沿进展、生物信息数据分析、临床遗传病数据分析解读与遗传咨询、多组学技术在疾病预防与控制中的应用、临床检测与实验室建设项目实践经验分享等。帮助学员：

1. 了解多组学技术的前沿进展与发展方向，掌握多组学最新研究技术与方法、科研设计思路及分析方法；
2. 理解生物信息相关概念，掌握生物信息数据分析方法、流程、数据库使用、数据统计分析和结果展示的原理与使用方法；
3. 了解高通量测序技术在遗传病诊断检测中的应用及发展前景，掌握基因检测的技术原理；
4. 理解基因检测技术在重大疾病预防与控中的应用价值和意义，掌握常见出生缺陷疾病检测数据分析方法、流程与结果解读；
5. 了解多组学技术在生育健康、肿瘤筛查和传染性疾病预防控制的应用，掌握临床检测实验室的设计与规范，熟悉基因检测平台建设要求与应用流程；
6. 理解“一带一路”区域生命科技标准化制定的重要性，掌握其标准制定流程及国际标准化推进策略。

承办单位：深圳华大生命科学研究院

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邮 编：518083

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“The Belt and Road Initiatives” Advanced Technology for Genomic Medicine International Training Course

 **Time:** February, 2024

 **Venue:** Shenzhen, Guangdong

 **Working Language:** English

Objectives

The objective is to cultivate professionals in the field of genetic technology for BRI partner countries, facilitate international talent exchange and collaboration, and foster close partnerships between Chinese technology companies, research institutions, and medical, scientific, and academic institutions in BRI partner countries. Together, BGI aim to advance genomic research and its applications. This program aims to empower researchers and healthcare professionals in BRI partner countries with cutting-edge genomic medicine technologies, enhancing their technical expertise in genomics research and clinical applications. Ultimately, it aims to improve the diagnostic and treatment capabilities of medical institutions in BRI partner countries, enabling the development of more precise healthcare services.

The content of this program includes multi-omics research methods and the latest advancements, analysis of biological information data, analysis and interpretation of clinical genetic disease data, and genetic counseling. It also covers the application of multi-omics technology in disease prevention and control, clinical testing, and practical experience sharing in laboratory construction projects. Participants will:

1. Understand the cutting-edge advancements and future directions of multi-omics technology, master the latest research techniques and methods, and gain insights into the design and analysis methods for multi-omics research.
2. Grasp the concepts related to bioinformatics, master the principles and applications of bioinformatics data analysis methods, understand processes and database utilization, and learn about data statistical analysis and results presentation.
3. Gain knowledge of high-throughput sequencing applications and development prospect in genetic disease diagnosis and grasp the principles of genetic testing.
4. Grasp the application value and significance of genetic testing technology in the prevention and control of major diseases, and master the methods, procedures, and interpretation of data for the detection of common congenital anomalies.
5. Explore the use of omics technologies in reproductive health, tumor screening, and infectious disease control, as well as clinical testing lab design and gene testing platform construction requirements and application process.
6. Understand the importance of standardization setting in life sciences and technology within “the Belt and Road” region and learn about the process and strategies for international standardization promotion.

Organizer: BGI Research, Shenzhen

Address: Building 11, Beishan Industrial Zone, Beishan Street,
Yantian District, Shenzhen, Guangdong, China

Postcode: 518083

Coordinator: YU Anguang

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中国—中亚地区宫颈癌与乳腺癌预防与控制国际培训班

- 🕒 **举办时间：**2024 年 7 月
- 📍 **举办地点：**新疆乌鲁木齐
- 🗣️ **工作语言：**汉语、英语

培训目的

本培训班为技术支援项目，聚焦于宫颈癌和乳腺癌的综合防控，通过培训中国新疆与中亚地区宫颈癌与乳腺癌预防与控制人才，使学员具有系统化的“两癌”防控理论知识和基本的实践操作技能

培训内容

聚焦于宫颈癌和乳腺癌的综合防控，教学内容涵盖“两癌”的疾病负担、病因学和危险因素、预防性疫苗、筛查诊断治疗和随访管理等多个维度，通过理论授课、现场参观、交流座谈、操作实习等方式，从专业技术角度与项目管理角度出发，与中亚五国从事“两癌”防控的专业技术人员、项目管理人员、科学研究人员交流分享中国“两癌”防治经验。

承办单位：中国医学科学院北京协和医学院群医学及公共卫生学院

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International Training Workshop on China-Central Asia Cervical and Breast Cancer Prevention and Control Program

 **Time:** July, 2024

 **Venue:** Urumqi, Xinjiang

 **Working Language:** Chinese, English

Objectives

This program aims to equip local healthcare professionals in Xinjiang, China and Central Asia with standardized skills for cervical and breast cancer prevention and control. It specifically focuses on providing learners with systematic theoretical knowledge and essential practical skills.

Programs

Focusing on the comprehensive prevention and control of cervical and breast cancer, the program covers the disease burden, etiology and risk factors, preventive vaccines, screening, diagnosis, treatment and follow-up management, etc. The program employs a variety of methods, including theoretical lectures, field visits, seminars, and practical exercises. Its objective is to share China's expertise in cervical and breast cancer prevention and control with professionals, project managers, and scientific researchers who engaged in the prevention and control of cervical and breast cancer from five Central Asian countries.

Organizer: School of Population Medicine and Public Health, Peking Union Medical College

Address: No. 9, Dongdan Santiao, Dongcheng District, Beijing, China

Postcode: 100730

Coordinator: Qiao Youlin

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白内障防治技术国际培训班

🕒 **举办时间：**2024 年 10 月

📍 **举办地点：**湖南长沙

🗣️ **工作语言：**英语

培训目的

1. 为发展中国家切实培养白内障防治技术专业人才，帮助其解决白内障疾病领域的技术与设备难题；
2. 帮助发展中国家提高白内障筛查率、百万人口白内障手术率，协助其建立综合性的、可持续发展的眼病防治体系；
3. 推进我国与发展中国家在全球眼健康治理、眼科临床、学术、科技和管理层面的交流与合作；
4. 为发展中国家提供我国优质眼科诊疗仪器设备，促进国产眼科手术器械及设备制造技术“走出去”，帮助发展中国家提高眼病诊疗水平。

培训内容

1. 白内障超声乳化手术基本理论、标准流程及手术技术；
2. 白内障超声乳化手术模拟系统训练、动物眼手术技能实操；
3. 白内障超声乳化手术设备操作原理及运用；
4. 白内障围手术期管理与并发症处理；
5. 白内障诊疗新进展及可持续发展策略；
6. 学员手术录像点评及讨论；
7. 白内障超声乳化手术观摩。

承办单位：爱尔眼科医院集团股份有限公司

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电 话：0731-85179288-8661

传 真：0731-85174501

电子信箱：zhantianjiao@aierchina.com

International Workshop on Cataract Prevention and Treatment

 **Time:** October, 2024

 **Venue:** Changsha, Hunan

 **Working Language:** English

Objectives

1. Provides systematic training on cataract surgery techniques for ophthalmologists in developing countries. To solve the technical and equipment problems in the field of cataract diseases in developing countries.

2. To raise cataract screening rate and CSR level, helping with the establishment of a comprehensive, sustainable eye care system in developing countries.

3. To promote the communication and clinical, academic, technical, and administrative cooperation with developing countries in ophthalmology enterprise.

4. Provides domestic high-quality ophthalmic instruments and equipment, to share the advanced manufacturing techniques in ophthalmic industry with developing countries, helping developing countries to improve the level of diagnosis and treatment on eye diseases.

Programs

1. Basic theory of cataract surgical techniques, and the core technical standards and skills.
2. Hand-on practices of cataract surgical skills in dry-lab and wet-lab.
3. The application of cataract surgical platform.
4. Perioperative and complication management.
5. Advancement and sustainable development in cataract treatment.
6. Surgery video discussing & reviewing.
7. Surgery demonstration.

Organizer: Aier Eye Hospital Group Co., Ltd.

Address: Aier Headquarters, No.188, the Southern Furong Road, Tianxin District, Changsha, Hunan, China

Postcode: 410000

Coordinator: Zhan Tianjiao

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E-mail: zhantianjiao@aierchina.com

呼吸道感染病原体识别鉴定技术国际培训班

🕒 举办时间：2024 年 4 月

📍 举办地点：北京

🗣️ 工作语言：英语

培训目的

为非洲、拉美和共建“一带一路”国家的呼吸道感染防控领域培养中高端专业技术人才，使他们能够掌握病原体识别鉴定的先进技术，有助于提升当地的传染病防控水平，提升当地应对新发突发呼吸道传染病的应急处置能力。

培训内容

生物安全、核酸提取、PCR 检测、二代测序、病毒序列组装及进化分析、抗原检测、抗体检测。

承办单位：中国医学科学院病原生物学研究所

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International workshop on identification technology for pathogens of respiratory infections

 **Time:** April, 2024

 **Venue:** Beijing

 **Working Language:** English

Objectives

The purpose of this training is to train high-end professional and technical personnel in the field of respiratory infectious disease prevention and control in Africa, Latin America and BRI partner countries, so that they can master the advanced technology of pathogen identification and identification, help improve the local infectious disease prevention and control level, and enhance the local emergency response capacity to emerging respiratory infectious diseases.

Programs

Biosecurity, nucleic acid extraction, PCR, deep sequencing, viral sequence assembly and evolutionary analysis, antigen detection, antibody detection.

Organizer: Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking Union Medical College

Address: No.16 Tianrong Street, Daxing District, Beijing, China

Postcode: 102629

Coordinator: Xiang Zichun

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E-mail: xiangzch@163.com

中国－阿拉伯国家辐射防护与安全技术国际培训班

🕒 举办时间：2024 年 8 月

📍 举办地点：山西太原

🗣️ 工作语言：英语

培训目的

1. 为阿拉伯国家从事辐射防护专业的技术人才提供学习机会，深化双方在核能领域的科技合作与人文交流；
2. 向阿拉伯国家传授辐射防护领域的先进技术，促进阿成员国辐射防护整体技术水平提升和行业技术进步；
3. 分享中国在辐射防护领域的发展成就、经验和最佳实践，促进核能安全和可持续发展。

培训内容

1. 辐射防护技术最新发展趋势；
2. 辐射防护工程技术实践经验；
3. 数字化辐射防护体系建设；
4. 辐射防护装备与技能实训。

承办单位：中国辐射防护研究院
通信地址：山西省太原市小店区学府街 102 号
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China-Arab States International Training Course on Radiation Protection and Safety Technologies

 **Time:** August, 2024

 **Venue:** Taiyuan, Shanxi

 **Working Language:** English

Objectives

1. Provide learning opportunities for technical professionals engaged in radiation protection in Arab countries to deepen scientific and technological cooperation and cultural exchanges between the two sides in the field of nuclear energy.

2. Share advanced technology in radiation protection with Arab countries, promote technical advancement of radiation protection in Arab countries.

3. Share China's achievements, experiences, and best practices in the field of radiation protection to promote nuclear energy safety and sustainable development.

Programs

1. Latest trends in radiation protection technology.

2. Practical experience in radiation protection engineering technology.

3. Construction of digital radiation protection systems.

4. Training in radiation protection equipment and skills.

Organizer: China Institute for Radiation Protection (CIRP)

Address: No. 102 Xuefu Street, Xiaodian District, Taiyuan, Shanxi, China

Postcode: 030600

Coordinator: Yang Liu

Tel: 0086-18435164346

Fax: 0086-351-2202140

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发展中国家麻风防治技术国际培训班

🕒 举办时间：2024 年 10 月

📍 举办地点：山东济南

🗨️ 工作语言：英语

培训目的

促进麻风诊疗技术在发展中国家的提高和进步，增进麻风防治领域国际交流与合作，全面促进麻风危害的消除，加快实现一个没有麻风的世界进程。

培训内容

麻风防治现状与控制策略、麻风防治业务体系的建设、麻风的临床表现、麻风分枝杆菌检测、麻风病理诊断、麻风的诊断流程、麻风的联合化疗与不良反应防治、麻风反应及处理、麻风的畸残康复与预防、麻风治愈者管理、麻风健康教育。

承办单位：山东省皮肤病性病防治研究所

通信地址：山东省济南市槐荫区经十路 27397 号

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传 真：0531-87984734

电子信箱：suohandong@126.com

International Training Workshop on Leprosy Control Technology for Developing countries

 **Time:** October, 2024

 **Venue:** Jinan, Shandong

 **Working Language:** English

Objectives

Aiming to improve the leprosy control technology for developing countries and to promote the international exchange and collaborations, to accelerate the elimination of leprosy harm and towards to a leprosy-free world.

Programs

Current leprosy state and control strategy, the construction of leprosy control system, the clinical manifestation of leprosy, the detection of mycobacterial leprae, the histology of leprosy, the diagnostic procedure of leprosy, MDT and ADR of leprosy, the leprosy reaction, rehabilitation for the disability and deformity of leprosy, the management of cured leprosy patient, the health education of leprosy.

Organizer: Shandong Provincial Institute of Dermatology and Venereology

Address: 27397 Jingshi Road, Huaiyin District, Jinan, Shandong, China

Postcode: 250022

Coordinator: Sun Yonghu

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分子病理学国际培训班

🕒 **举办时间:** 2024 年 10 月

📍 **举办地点:** 安徽合肥

🗣️ **工作语言:** 英语

培训目的

促进中国和巴基斯坦共享分子病理新技术新方法，帮助学习者了解掌握分子病理学（技术）的基础知识和应用，提高其临床分子病理检测水平，促进中巴友谊。

培训内容

本课程主要教授聚合酶链式反应（PCR）、桑格基因测序（Sanger）、基因图谱（Genetic mapping）、二代基因测序（NGS）、二代基因测序结果的生信分析、上述检测方法的临床应用等分子病理学（技术）知识。

承办单位：安徽医科大学

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International Training Course of Molecular Pathology

 **Time:** October, 2024

 **Venue:** Hefei, Anhui

 **Working Language:** English

Objectives

To promote the sharing of new technologies and methods of molecular pathology between China and Pakistan, and to help learners understand and master the basic knowledge and application of molecular pathology (technology). To improve the level of clinical testing of molecular pathology and promote the friendship between China and Pakistan.

Programs

This course primarily teaches the knowledge related to techniques such as polymerase chain reaction (PCR), Sanger sequencing (Sanger) of genes, Genetic mapping, next-generation sequencing (NGS), bioinformatics analysis of NGS results, and clinical applications of the above molecular pathology methods.

Organizer: Anhui Medical University

Address: No.81 Meishan Road, Shushan District, Hefei, Anhui, China

Postcode: 230032

Coordinator: Li feifei

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南太岛国乳腺癌防治技术国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：重庆

🗨️ 工作语言：英语

培训目的

培养南太岛国乳腺癌防治专业团队，提高受援国乳腺癌防治能力。

培训内容

1. 中国医疗卫生体系概述；
2. 乳腺癌的诊断技术课程；
3. 乳腺癌的防治策略；
4. 赴重庆市肿瘤研究所各肿瘤规范化诊疗基地参观学习。

承办单位：重庆市肿瘤研究所

通信地址：重庆市沙坪坝区汉渝路 181 号

邮 编：400030

联 系 人：张蕴蕴

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Training Program on Breast Cancer Prevention and Treatment in South Pacific Islands Countries

 **Time:** June, 2024

 **Venue:** Chongqing

 **Working Language:** English

Objectives

Cultivate professional breast cancer prevention and treatment team for South Pacific island countries, and improve breast cancer prevention and treatment capability of recipient country.

Programs

1. Overview of China's healthcare system.
2. Courses on diagnostic techniques of breast cancer.
3. Prevention and treatment strategies for breast cancer.
4. Visit and learn from various standardized tumor diagnosis and treatment bases of Chongqing Cancer Institute.

Organizer: Chongqing Cancer Institute

Address: No.181 Hanyu Road, Shapingba District, Chongqing, China

Postcode: 400030

Coordinator: Zhang Yunyun

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光伏技术与场景应用技术国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：河北保定

🗣️ 工作语言：英语

培训目的

在上一期举办先进光伏技术培训班的实践经验基础上，持续发挥英利集团国家国际科技合作基地——光伏技术国际联合研究中心的优势，依托全国重点实验室等国家级光伏技术研发平台，促进可再生能源在发展中国家推广应用。向学员传授光伏产业全产业链的先进适用技术；培养发展中国家新能源与可再生能源技术人才；助力发展中国家科技水平提升，推动发展中国家的科研能力和产业技术进步。

培训内容

1. 中国及全球光伏行业现状、市场分析及未来趋势；
2. 进光伏产业全产业链关键技术；
3. 光伏前沿应用系统关键技术、电站建设及验收；
4. 光伏技术创新应用场景参观、体验与教学；
5. 技术交流与实践。

承办单位：英利集团有限公司

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联 系 人：樊贤达

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International Training Course on photovoltaic technology and scenario application technology

 **Time:** June, 2024

 **Venue:** Baoding, Hebei

 **Working Language:** English

Objectives

On the basis of the practical experience of holding advanced photovoltaic technology training courses in the previous period, continue to give full play to the advantages of the Yingli Group as an international technological cooperation base: Photovoltaic Technology International Joint Research Center, relying on national key laboratories and other national-level photovoltaic technology research and development platforms, promote the application and popularization of new energy concept in developing countries. To teach trainees the advanced and applicable technologies of the entire photovoltaic industry chain; to train new energy and renewable energy technology talents in developing countries; to help developing countries improve their scientific and technological level, and to promote the scientific research capabilities and industrial technological progress of developing countries.

Programs

1. Current status, market analysis and future trends of PV industry in China and the World.
2. Key Technologies of advanced PV industry chain.
3. Key Technologies of PV Frontier Application System, power station construction and acceptance.
4. Visiting, experience and teaching of PV innovative application scenarios.
5. Technology Exchange and practice.

Organizer: Yingli Group Co. , Ltd.

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Coordinator: Fan Xianda

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中国—东盟托卡马克聚变物理与工程国际培训班

🕒 举办时间：2024 年 3 月

📍 举办地点：安徽合肥

🗣️ 工作语言：英语

培训目的

核聚变研究是面向世界科技前沿的研究，核聚变能源作为人类未来理想的新能源，对于人类未来的可持续发展意义重大。本培训班致力于培养泰国等东盟地区国家等离子体和核聚变领域的科学研究类硕士生、博士生，旨在帮助泰国等东盟地区国家发展和完善核聚变和等离子体物理学领域的知识，协助东盟地区建设自己的核聚变研究中心，大力发展核聚变技术。

培训内容

培训班将以“人造太阳、未来能源”为主题，从等离子体物理、托卡马克和核聚变基本原理讲起，内容涵盖核聚变研究装置的物理、工程问题，并将着重介绍我国和世界上主要核聚变装置研究进展及未来发展计划，同时介绍等离子体的工业和医学应用。

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Sino-ASEAN Tokamak Fusion Physics and Engineering Training Courses

 **Time:** March, 2024

 **Venue:** Hefei, Anhui

 **Working Language:** English

Objectives

As an ideal new energy for the future humankind, nuclear fusion energy is of great significance for the future sustainable development of humankind. Nuclear fusion research is the research facing the world's scientific and technological frontier. This course is dedicated to training master's and doctoral students in the field of plasma and fusion science in Thailand and the ASEAN region, aiming to help Thailand and the ASEAN region to develop and improve the knowledge in the field of fusion and plasma physics, assist the ASEAN region to build its own nuclear fusion research center, and vigorously develop nuclear fusion technology.

Programs

The courses of this training will focus on plasma physics, tokamak and the basic theories of nuclear fusion, which includes physics and engineering of nuclear fusion research device, China and World's current nuclear fusion device research and the industrial and medical applications of plasma.

Organizer: Hefei Institutes of Physical Science, Chinese Academy of Sciences

Address: 350 Shushanhu Road, P.O. Box 1126, Hefei, Anhui, China

Postcode: 230031

Coordinator: WU Sha

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中国—老挝可再生能源实用技术国际培训班

🕒 **举办时间：**2024 年 7 月

📍 **举办地点：**云南昆明

🗣️ **工作语言：**英语

培训目的

光伏、生物质能等可再生能源产业链已成为我国的重要发展产业，国际竞争优势凸显。本次培训将在中国昆明开展相应的可再生能源技术研究交流、培训与技术推广，并围绕老挝可再生能源利用技术应用的实际问题提出具有针对性的解决方案。培训班的开展有利于提高老挝新型太阳能应用技术水平，缓解老挝对化石能源的依赖，减轻对生态环境的污染，减少温室气体排放，带动当地农村发展，改善群众生活环境，进一步缓解老挝等东盟南亚发展中国家所面临的可再生能源领域人才培养困境。

培训内容

1. 太阳能光伏技术应用：太阳能光伏发电及智能并网、太阳能路灯、太阳能光伏抽水储能微水电及农业灌溉系统、太阳能冰箱的理论及演示；
2. 太阳能光热应用：太阳能干燥设备、太阳能空调（冰箱）系统、户用太阳能热水系统、热水空气能 + 太阳能热水系统、建筑节能的理论及演示；
3. 生物质能应用：生物质能开发与利用，沼气发酵技术的理论、平台实验及演示；
4. 能源企业产品介绍及技术交流：企业产品展示、优秀示范案例解析、面向老挝能源建设实际需求的技术指导。

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International Training Workshop on Renewable Energy Practical Technologies of China-Laos

 **Time:** July, 2024

 **Venue:** Kunming, Yunnan

 **Working Language:** English

Objectives

Renewable energy such as photovoltaic and biomass energy has become one of China's important industries, and its international competitive advantage has become prominent. This training will carry out the corresponding renewable energy technology learning and promotion in Kunming, China. The training proposes solutions to practical problems in the application of renewable energy utilization technologies in Laos. Training workshop and engineering demonstration will improve the level of new solar energy application technology in these regions and can alleviate the high dependence of fossil energy in rural areas of developing countries. And also, environmental pollution and greenhouse gas emissions will be further reduced. Training Workshop on Renewable Energy Practical Technologies will drive local development, improve living conditions and train professionals in the energy sector.

Programs

- 1.Solar photovoltaic technology application: solar photovoltaic power generation and intelligent grid-connected, solar street lights, solar photovoltaic pumped energy storage micro-hydropower and agricultural irrigation systems, solar refrigerator theory and demonstration.
- 2.Solar thermal application: solar drying equipment, solar air conditioning (refrigerator) system, household solar hot water system, hot water air energy + solar hot water system, building energy saving theory and demonstration.
- 3.Biomass energy application: biomass energy development and utilization, biogas fermentation technology theory, platform experiment and demonstration.
- 4.Product introduction and technical exchange of energy enterprises: enterprise product display, analysis of excellent demonstration cases, technical guidance for energy construction in Laos.

Organizer: Yunnan Normal University

Address: 768 Juxian Street, Chenggong District, Kunming, Yunnan, China

Postcode: 650500

Coordinator: Hou Shuhua

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发展中国家矿产资源高效开发利用国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：湖北武汉

🗣️ 工作语言：英语

培训目的

传播和展示中国矿产资源开发利用前沿技术，促进我国矿产资源开发前沿技术在发展中国家推广应用。强化发展中国家矿产资源开发科学基础，为发展中国家培养中高端专业技术人才，完善人才队伍，使矿产资源更好地服务于社会经济发展。

培训内容

1. 矿产资源开发科学基础专题；
2. 矿物材料研发及应用专题；
3. 矿产资源开发与多学科前沿交叉专题。

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International Training Course on Utilization of Mineral Resources for Developing Countries

 **Time:** June, 2024

 **Venue:** Wuhan, Hubei

 **Working Language:** English

Objectives

To disseminate and display the frontier technology of mineral resources development and utilization in China and to promote the promotion and application of China's frontier technology of mineral resources development and utilization in developing countries. To strengthen the scientific basis of mineral resource development in developing countries, train professional and technical experts in developing countries so that mineral resources can better serve the social economy.

Programs

1. The scientific basis of mineral resources development.
2. Mineral Materials R&D and Applications.
3. Frontier intersection of mineral resources development and multidisciplinary.

Organizer: China University of Geosciences (Wuhan)

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大型现代化水泥生产技术国际培训班

🕒 **举办时间：**2024 年 10 月

📍 **举办地点：**天津

🗣️ **工作语言：**英语

培训目的

新型干法水泥生产线具有产量和自动化程度高、产品质量优、能耗和有害物排放低等优点，是当今世界水泥生产工业的主要技术之一。

为满足发展中国家水泥生产企业员工的技术培训需求，举办此次水泥生产技术培训班。其目的是使发展中国家水泥生产企业技术人员：

1. 全面了解新型干法水泥生产线的生产工艺；
2. 认识新型水泥生产装备；
3. 掌握生产设备运行过程中的基本操作控制方法和维护知识；
4. 具备独立处理生产运行过程中常见故障的能力；
5. 了解水泥窑协调处置废弃物、智能化工厂及 BIM 应用等先进技术。

培训内容

1. 新型干法水泥生产技术工艺（化验室、工艺等）；
2. 公司新技术（BIM，智慧化工厂等）；
3. 新型干法水泥生产装备（预热器、冷却机、回转窑、立磨、收尘器、破碎机、辊压机等）；
4. 参观国内先进水泥生产线。

承办单位：天津水泥工业设计研究院有限公司

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International Training Workshop on Modern Cement Production Technology

 **Time:** October, 2024

 **Venue:** Tianjin

 **Working Language:** English

Objectives

NSP cement production technology is the main technology of cement industrial production. The advantages are large production capacity, high automation degree, high quality, low energy consumption, and low harmful emissions.

In order to satisfy the staff training of cement production enterprise, we hold the advanced training courses of cement technology.

The purpose is to make employees can do this:

1. Understand the NSP cement production technology comprehensively.
2. Learn new equipment of cement production.
3. Master the basic operation and maintenance knowledge.
4. Deal with common faults independently in the process of production.

5. Understand advanced technology, such as cement kiln waste co-processing solution, intelligent cement factory construction, technology characteristics and application of BIM.

Programs

1. Process of NSP cement production technology (It includes: laboratory, process, now-how, etc.).
2. The latest technology (BIM, intelligent cement factory construction, etc.).
3. Equipment of NSP cement production technology (Such as: preheater, cooler, rotary kiln, vertical mill, dust collector, crusher and roller press, etc.).
4. Visit the advanced cement plant.

Organizer: Tianjin cement industry design & research institute Co.,Ltd.

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基于沙漠环境的风能太阳能应用技术国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：内蒙古呼和浩特

🗣️ 工作语言：英语

培训目的

1. 本着平等互利成果共享的原则，以技术培训的形式开展同发展中国家的合作与交流，以此促进相互之间的科技和经济共同发展；
2. 通过理论教学提高学员的风能太阳能应用技术水平，结合现场考察及应用案例分析提高学员的工程设计能力，并通过交流共享双方的发展优势及成功经验，共同探讨沙漠环境与风能太阳能利用技术的相互作用关系，从而在培训学习过程中不断提高培训人员的技术实力，为发展中国家在相关领域培养具有一定水平的技术人才；

培训内容

1. 能源与环境的可持续发展（理论）；
2. 内蒙古沙漠资源与风能太阳能资源的开发与利用（理论）；
3. 内蒙古风能资源的分布及评估（理论）；
4. 风力发电机的研发与应用（理论）；
5. 风力发电机的生产与测试（实践）；
6. 风力发电机噪声测量方法及原理（理论与实践）；
7. 风力发电厂的运行及维护（实践）；
8. 内蒙古太阳能资源分布及评估（理论）；
9. 太阳能光伏发电技术及应用（理论）；
10. 太阳能光伏组件的生产与加工（实践）；
11. 光伏电站的运营及维护（实践）；
12. 太阳能热发电技术及应用（理论）；
13. 太阳能热发电站的运营及维护（实践）；
14. 太阳能热利用技术及其应用（理论）；
15. 风光互补发电技术及其应用（理论与实践）。

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International training course on Wind/Solar Energy Application Technology based Desert Environment

 **Time:** June, 2024  **Venue:** Hohhot, Inner Mongolia Autonomous Region  **Working Language:** English

Objectives

1. Carry out cooperation and exchanges with developing countries in the form of technical training on the basis of equality, mutual benefit and sharing of results, with a view to promoting mutual scientific, technological and economic development.
2. Through theory teaching to improve participants' level of wind and solar energy application technology, through the development of the shared communication advantages and successful experiences, to explore the desert environment and the interaction of wind and solar energy utilization technology, to developing countries in the related field to cultivate technical talents with a certain level.

Programs

1. Sustainable Development of Energy and Environment (theory).
2. Development and Utilization of Desert Resources, Wind Energy, and Solar Energy Resources in Inner Mongolia (theory).
3. Distribution and Evaluation of Wind Energy Resources in Inner Mongolia (theory).
4. Research and Development, as well as Application of Wind Turbines (theory).
5. Production and Testing of Wind Turbines (practice).
6. Principles and Methods of Wind Turbine Noise Measurement (theory and practice).
7. Operation and Maintenance of Wind Farms (practice).
8. Distribution and Evaluation of Solar Energy Resources in Inner Mongolia (theory).
9. Technology and Application of Solar Photovoltaic Power Generation (theory).
10. Production and Processing of Solar Photovoltaic Components (practice).
11. Operation and Maintenance of Photovoltaic Power Stations (practice).
12. Technology and Application of Solar Thermal Power Generation (theory).
13. Operation and Maintenance of Solar Thermal Power Plants (practice).
14. Technology and Application of Solar Thermal Utilization (theory).
15. Technology and Application of Wind-Solar Complementary Power Generation (theory and practice).

Organizer: Inner Mongolia University of Technology

Address: No.49, Aimin Road, Hohhot, Inner Mongolia
Autonomous Region, China

Postcode: 010051

Coordinator: Zhao Mingzhi

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中亚区域地质矿产资源开发技术国际培训班

- 🕒 **举办时间：**2024 年 7 月
- 📍 **举办地点：**新疆乌鲁木齐
- 🗣️ **工作语言：**俄语

培训目的

推广中国创造和中国制造的设备及技术，为中亚区域各国研究开发地质矿产资源提供先进的中国制造矿产开发设备、探矿技术、科学研究等方面的咨询和帮助，推动各方在矿业领域的科技合作。集中培训中亚各国政府部门、科研院所和矿业企业的专家及技术人员，展示中国在中亚地质矿产资源领域的最新研究成果和矿业合作现状。通过此次培训有利于中亚国家地质学者对中国制造的矿产开发设备、探矿技术的进一步了解；有利于中国与中亚各国在更高的层次开展地质矿产合作研究。

培训内容

共建“一带一路”国家矿产资源简介及数据库建设，深穿透地球化学方法应用，新疆与中亚地质科技合作现状，物化探技术的应用与开发，中国锂工业现状与发展，企业矿业装备推介，科技创新驱动绿色矿山建设等相关课程。

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International Training Course on Geological and Mineral Resources Development Technology in Central

 **Time:** July, 2024

 **Venue:** Urumqi, Xinjiang

 **Working Language:** Russian

Objectives

The purpose of Training Course is to promote the equipment and technology created and made in China, to provide advanced Chinese-made mineral development equipment, prospecting technology, scientific research and other assistance for the research and development of geological and mineral resources in Central Asian countries, and to promote scientific and technological cooperation in the field of mining. The training will focus on experts and technicians from government departments, research institutes and mining enterprises of Central Asian countries, and showcase the latest research results of China in the field of geological and mineral resources and the current status of mining cooperation in Central Asia. The training is conducive to the further understanding of geologists from Central Asian countries on mineral development equipment and prospecting technology made in China; conducive to the development of geological and mineral cooperation research between China and Central Asian countries at a higher level.

Programs

Introduction to mineral resources and database construction in BRI partner countries, application of deep penetrating geochemical methods, status of geological science and technology cooperation between Xinjiang and Central Asia, application and development of physical and chemical exploration technology, status and development of China's lithium industry, enterprise mining equipment promotion, green mine construction driven by scientific and technological innovation, and other related courses.

Organizer: Xinjiang Natural Resources and Ecological Environment Research Center

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Coordinator: Nadira

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中国新能源汽车技术国际培训班

🕒 举办时间：2024 年 4 月

📍 举办地点：北京

🗣️ 工作语言：汉语、英语

培训目的

通过参加《中国新能源汽车技术国际培训班》，了解中国新能源汽车在产品、技术、标准等方面发展与现状，建立与中国新能源汽车产业的技术交流平台，搭建新能源汽车人才联合培养国际平台。

1. 了解中国新能源汽车发展现状、水平和经验；
2. 开展新能源汽车行业中高端专业技术人才联合培养；
3. 促进与中国新能源汽车产业的合作交流；
4. 助力本国新能源汽车产业发展。

培训内容（部分）

1. 新能源汽车总体行业发展和中国资源现状；
2. 中国汽车市场准入法规；
3. 整车 & 零部件检测认证；
4. 新能源汽车创新融合发展模式；
5. 新能源多用途配送车发展及应用场景分析；
6. 新能源汽车设计开发流程；
7. 新能源汽车电驱动 / 控制系统 / 动力电池关键技术分析和发展趋势；
8. 新能源智能驾驶方向与未来展望；
9. 新能源汽车智能座舱技术分析与展望；
10. 新能源汽车轻量化技术方向与展望；
11. 新能源汽车智慧底盘技术分析；
12. 新能源汽车先进制造工艺技术；
13. 新能源汽车充换电技术发展；
14. 新能源汽车报废回收利用；
15. 新能源汽车人才联合培养；
16. 企业实际参访与学习交流。

承办单位：北京国家新能源汽车技术创新中心有限公司

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China New Energy Vehicle Technology International Training Course

 **Time:** April, 2024

 **Working Language:** Chinese, English

 **Venue:** Beijing

Objectives

By participating in the China's New Energy Vehicle Technology International Training Course, we aim to let the participants understand the development and current situation of China's new energy vehicle products, technologies, standards, and other aspects. We will establish a technology exchange platform with China's new energy vehicle industry and build an international platform for joint training of new energy vehicle talents. The main objectives are as follows:

1. Support the development of the national new energy automobile industry.
2. Learn from the development status, experience and progressiveness of new energy vehicles from China.
3. Promote cooperation and exchange with China's new energy vehicle industry.
4. Joint training of high-end talents in the new energy vehicle industry.

Programs & Parts

1. The overall development of the new energy vehicle industry and the Current situation of resources in China.
2. China's automobile market access regulations.
3. Vehicle & parts inspection and certification.
4. Innovative and integrated development model of new energy vehicle.
5. Development of new energy multi-purpose delivery vehicle and the application scenario analysis.
6. New energy vehicle design and development process.
7. Key technology analysis of electrical driving/controlling system and Trends of the Power Battery Industry for new energy vehicle.
8. Development direction of intelligent driving and future prospects of new energy vehicle.
9. Intelligent cockpit technical analysis and prospect of new energy vehicle.
10. Lightweight technology direction and prospect of new energy vehicle.
11. Intelligent chassis technology analysis of new energy vehicle.
12. Advanced manufacturing technology for new energy vehicle.
13. Development of new energy vehicle charging and replacing technology.
14. Recycling of new energy vehicle.
15. Joint training of new energy vehicle talents.
16. Enterprise actual visit and learning exchange.

Organizer: Beijing National New Energy Vehicle Technology Innovation Center Co., LTD

Address: Building 1, Area 2, Courtyard 9, Taihe 3rd Street, Beijing Economic-Technological Development Area, China

Postcode: 100176

Coordinator: Lu Shijie

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铅锌资源高效清洁开发利用技术国际培训班

🕒 **举办时间：**2024 年 7 月

📍 **举办地点：**湖南长沙

🗣️ **工作语言：**英语

培训目的

集中培训中亚、非洲等地区各国政府部门、科研院所和矿山冶炼企业等的专家、技术和管理人员，展示中国在铅锌矿产资源及二次资源高效清洁开发利用领域的最新技术与先进装备；推广中国创造和中国制造的铅锌选冶新技术与新装备，在选冶技术、智能装备、环境保护等方面为中亚、非洲等地区的各国提供技术援助，推动各方在矿业领域的资源合作与科技合作；落实“一带一路”倡议关于推动矿产资源领域合作的规划，为“一带一路”倡议在矿产资源领域的实施提供优质智力支撑和人才保障。

培训内容

1. 铅锌选冶过程基础研究；
2. 铅锌资源选矿技术；
3. 铅冶炼技术；
4. 锌冶炼技术；
5. 铅锌选冶新装备；
6. 铅锌选冶智能化；
7. 铅锌二次资源回收及循环利用技术；
8. 铅锌产业环境保护与绿色发展。

承办单位：中南大学

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传 真：0731-88879622

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International Course on Efficient and Clean Technologies for Pb and Zn Resources Utilization

 **Time:** July, 2024

 **Venue:** Changsha, Hunan

 **Working Language:** English

Objectives

The “International Course on Efficient and Clean Technologies for Pb and Zn Resources Utilization” is designed to disseminate China’s latest technologies and advanced equipment in the efficient and clean development and utilization of primary and secondary mineral resources of lead and zinc. The target audience includes experts, technicians, and management personnel from government departments, research institutes, mining and smelting companies, and other entities in Central Asia, Southeast Asia, Africa, and other regions. The course also seeks to promote China’s innovative technologies and new equipment in the beneficiation and smelting of lead and zinc minerals. It aims to provide technical assistance in beneficiation technology, intelligent equipment, environmental protection, and other related areas. Furthermore, the course aims to offer high-quality intellectual support and talent assurance for the successful implementation of the “Belt and Road Initiative” in the mineral resources sector.

Programs

1. Foundational Research on Beneficiation and Metallurgy Processes for Lead and Zinc.
2. Techniques for Processing Lead and Zinc Ores.
3. Advanced Smelting Techniques for Lead and Zinc.
4. Innovative Equipment for Beneficiation and Metallurgy of Lead and Zinc.
5. Implementation of Intelligent Systems in Lead and Zinc Beneficiation and Metallurgy.
6. Techniques for Recycling and Utilizing Secondary Lead and Zinc Resources.
7. Environmental Protection and Sustainable Development in the Lead and Zinc Industry.

Organizer: Central South University

Address: 932 Lushan S Rd, Yuelu District, Changsha, Hunan,
China, 410083

Postcode: 410083

Coordinator: Xu Shihong

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E-mail: shihong.xu@csu.edu.cn

太阳能技术及应用国际培训班

🕒 举办时间：2024 年 7 月

📍 举办地点：湖北武汉

🗣️ 工作语言：英语

培训目的

开展非洲国家“太阳能技术及应用培训班”是国家科技援外的重要组成部分，也是加强“一带一路”科技创新合作行动计划，深化中国与发展中国家合作交流的重要体现。“太阳能技术及应用培训班”的培养内容涵盖了我国目前先进、实用、适用的太阳能应用技术的理论与实践内容，旨在通过理论与实践相结合、线上与线下相结合等多元化的培训方式帮助非洲国家培养太阳能技术及应用领域的高端专业技术人才，传授先进适用的太阳能应用技术，积极推广我国太阳能科技发展经验，促进太阳能技术与产品、太阳能相关科技企业和科研机构走出去，充分体现科技援外特色，提升发展中国家新能源自主创新能力，服务于非洲国家经济和社会发展，贡献中国方案和中国智慧。

培训内容

“太阳能技术及应用培训班”旨在为学员提供太阳能应用技术的全面培训，培训语言为英语。主要培训内容涵盖以下 14 个方面：

1. 太阳能基础知识；
2. 光伏组件与系统设计；
3. 光伏组件安装与维护；
4. 光伏系统性能评估与监测；
5. 太阳能热水系统；
6. 系统集成与微网技术；
7. 储能技术与能量存储；
8. 太阳能与法规；
9. 标准化与认证体系；
10. 商业模式与市场营销；
11. 项目规划和管理；
12. 案例分析与实地考察；
13. 实践与模拟项目；
14. 学员项目展示与互动。

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The International Training Course of Solar Energy Technology and It's Application

 **Time:** July, 2024

 **Venue:** Wuhan, Hubei

 **Working Language:** English

Objectives

The international training program covers the advanced, practical and applicable theory and practice of solar energy application technology in China. The goal of the training program is to train professional and technical personnel in the field of solar energy technology and applications in African countries; to train advanced and applicable solar energy application technologies; to actively spread experience of solar energy technology development in China; to enhance the internationalization of Chinese solar technology products, enterprises and scientific research institutions and to fully embody the characteristics of technological assistance to Africa; to enhance the capacity of independent innovation in new energy of developing countries; to serve the economic and social development of Africa so as to contribute Chinese solutions and wisdom. The training program achieves its goals through diversified training methods, such as combining theory and practice, online and offline.

Programs

The International Training Course of Solar Energy Technology and It's Application aims to provide trainers with comprehensive training in the field of solar energy technology application. The training language is English. There are 14 core training programs, as follows:

1. Basic knowledge of solar energy technology.
2. Photovoltaic module and system design.
3. Install and maintain photovoltaic module.
4. Assess and monitor photovoltaic system.
5. Solar water heating system technology.
6. System integration and microgrid technology.
7. Energy storage technology and energy storage capacity.
8. Regulations of solar energy technology.
9. Standards and certification system of solar energy technology.
10. Business model and marketing of solar energy technology.
11. Planning and management of solar energy technology program.
12. Case study and field research of solar energy technology program.
13. Practice and simulation of solar energy technology program.
14. Display and interact with solar energy technology programs by trainees.

Organizer: Hubei University of Technology

Address: NO.28, Nanli Road, Hong-shan District, Wuhan,
Hubei, China

Postcode: 430068

Coordinator: Hu Maobo

Tel: 0086-13971571895

Fax: 0086-27-59750009

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“一带一路”科技园建设管理国际培训班

🕒 举办时间：2024 年 8 月

📍 举办地点：北京

🗣️ 工作语言：英语

培训目的

通过培训班的举办，向共建“一带一路”国家分享中国科技园发展经验，促进中国与“一带一路”国家在科技园区领域的交流与合作。

培训内容

1. 中国科技创新体系建设；
2. 中国科技园区发展；
3. 中国科技创新服务机构发展；
4. 中国科技企业国际化发展；
5. 国别报告。



承办单位：北京市长城企业战略研究所

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邮 编：100101

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电 话：010-82000975

传 真：010-82000980

电子信箱：zhangjizhe@gei.com.cn

“Belt and Road” Science and Technology Park Construction and Management International Workshop

 **Time:** August, 2024

 **Venue:** Beijing

 **Working Language:** English

Objectives

Share the development experience of China Science and Technology Park with BRI partner countries; Promote exchanges and cooperation between China and “Belt and Road” countries in the field of Science and Technology Park.

Programs

1. Chinese construction of scientific and technological innovation system.
2. Development of Chinese science and technology industrial parks.
3. Development of Chinese new R & D service institutions.
4. Internationalization development of Chinese science and technology enterprises.
5. Country Reports.

Organizer: Beijing Greatwall Enterprise Institute

Address: 2nd floor, East Wing building of Beijing International Convention Center,
No. 8, Beichendong Road, Chaoyang District, Beijing, China

Postcode: 100101

Coordinator: Zhang Jizhe

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澜湄青年创新创业领袖中国行国际培训班

🕒 举办时间：2024年5月

📍 举办地点：北京

🗣️ 工作语言：英语

培训目的

“澜湄青年创新创业领袖中国行”面向创新能力突出、创业氛围活跃的发展中国家，组织科技管理部门、初创型科技企业及创业孵化器代表来华：

1. 增进对华科技水平及创新创业生态的了解；
2. 交流分享中国企业创新创业发展经验；
3. 培养创新创业人才，提升企业创新创业能力与活力；
4. 协助初创企业建立科学发展模式，提高风险应对能力和国际竞争力；
5. 完善创新人才及企业管理机制，优化创业孵化生态体系；
6. 加强发展中国家创新创业人才交流联系，增进彼此了解与合作。

培训内容

1. 中国的数字战略及创新生态、中国的共享经济与数字创新；
2. 知识产权与国际科技合作；
3. 北京具有全球影响力科技创新中心和世界领先科技园区建设情况；
4. 中国创新创业生态建设及创业孵化成功经验；
5. 外资公司注册及运营实务；
6. 案例分析：京东集团创新发展战略及数字化转型和智慧供应链发展综述；
7. 案例分析：物联网、智慧农业、智能建筑等科技领域创新发展经验；
8. 中国知名创新企业、科技园区、特色孵化器等机构调研座谈；
9. 商业计划书培训、1V1 创业辅导；
10. 首钢园、北京科技周主会场等科技展览参观。

承办单位：北京国际交流协会

通信地址：北京市朝阳区日坛北路17号日坛国际贸易中心A座1039室

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International Training Course on Lancang-Mekong Young Innovation and Entrepreneurship Leaders to China

 **Time:** May, 2024

 **Venue:** Beijing

 **Working Language:** English

Objectives

For developing countries with outstanding innovation ability and active entrepreneurial atmosphere, the “International Training Course on Lancang-Mekong Young Innovation and Entrepreneurship Leaders to China” dedicates on inviting representatives from science and technology management departments, start-up technology enterprises and business incubators to come to China for:

1. increasing the acknowledgement of the innovation of science and technology entrepreneurship in China and its eco-system.
2. sharing experience on the development of Chinese innovative enterprises.
3. training innovative entrepreneurial talents, and promoting the ability and vitality of enterprises.
4. assisting start-ups to establish scientific development mode, and improve the risk response capacity and international competitiveness.
5. improving innovative talents and perfect enterprise management mechanism, optimization on the ecological system of entrepreneurship.
6. strengthening exchange links in innovative entrepreneurial talents among developing countries, enhancing mutual understanding and cooperation.

Programs

1. China's digital strategy and innovation ecosystem, as well as its sharing economy and digital innovation.
2. Intellectual Property Rights and International Science and Technology Cooperation.
3. The construction of Beijing's globally influential science and technology innovation centre and world-leading Science and Technology Parks.
4. China's successful experience in constructing an innovative and entrepreneurial ecosystem, including business incubation.
5. Foreign company registration and operation practice.
6. Case study: Jingdong Group's innovative development strategy and overview of digital transformation and smart supply chain development.
7. Case studies: experience of innovation and development in science and technology fields such as Internet of Things, intelligent agriculture and intelligent buildings.
8. Research and discussion with famous Chinese innovative enterprises, Science and Technology Parks, special incubators and other organizations.
9. Business plan training and demo day.
10. Tour to science and technology exhibitions such as Shougang Park and the main venue of Beijing Science and Technology Week.

Organizer: Beijing International Exchange Association
Address: Room 1039, Building A, RITAN International Trade Center, No.17, Ritan North Road, Chaoyang District, Beijing, China
Postcode: 100020

Coordinator: Guo Jieni
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“一带一路”企业与高校网络创业国际培训班

🕒 举办时间：2024年7月

📍 举办地点：四川成都

🗣️ 工作语言：英语、汉语

培训目的

1. 帮助学员系统学习网络创业知识与技能；
2. 帮助学员制定周密的网络创业计划；
3. 塑造学员的创业思想、创业精神，学习创业决策思维模式；
4. 培养和提高学员的心理和管理素质，增强其驾驭市场的应变能力，从而能更精准地选择经营方向；
5. 提高学员的创业素质，形成稳健实用的经营理念，从而正确地认识市场大环境，了解对应国家的相关政策，掌握科学合理的经营管理技能；
6. 帮助学员转变就业观，树立创业自信心，提高学员创业成功率；
7. 实现以创业培训促进创业，创业带动就业的倍增效应；
8. 促进创新创业中外人文交流继续向全方位、深层次发展。

培训内容

培训内容分为网络创业的理论课程和实操课程。

理论课程：

1. 网络创业形势与网络创业风险；
2. 店铺注册：平台规则介绍、模拟商城店铺注册与上货；
3. 认识网络创业机会：农村、跨境电商、移动电商、O2O；
4. 网络创业者的自我评价、项目选择、市场分析；
5. 运营管理概述。

实操课程：

1. 开办准备：平台选择、寻找货源、组建团队；
2. 运营管理：店铺呈现（上）货源上架；
3. 运营管理：店铺呈现（上）商品展示；
4. 运营管理：店铺呈现（下）店铺装修；
5. 运营管理：店铺呈现（下）第三方平台商品展示和店铺装修；
6. 运营管理：店铺管理；
7. 运营管理：店铺推广；
8. 运营管理：财务计划；
9. 运营优化。

承办单位：四川旅游学院-创新创业中外人文交流研究院

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E-business Startups Training for Enterprises and Universities along the “Belt and Road”

 **Time:** July, 2024

 **Venue:** Chengdu, Sichuan

 **Working Language:** English, Chinese

Objectives

1. Help students in systematically learning of knowledge and skills related to E-business startups.
2. Assist students in developing a thorough E-business startups plan.
3. Shape students' entrepreneurial thinking and spirit and entrepreneurial decision-making thinking patterns.
4. Cultivate and improve students' psychological and management quality, and enhance their ability to handle the market.
5. Improve the entrepreneurial quality of students, form a stable and practical business philosophy, so that they can understand the market environment and the relevant policies of corresponding countries correctly, and master scientific and reasonable business management skills.
6. Help students change their employment outlook, establish entrepreneurial confidence, and improve the success rate of training personnel in E-business startups.
7. Realize the multiplier effect of promoting entrepreneurship through E-business startups training and driving employment through entrepreneurship.
8. Promote the comprehensive and in-depth development of cultural exchanges between China and foreign countries in innovation and entrepreneurship.

Programs

The training content is divided into theoretical courses and practical courses.

Theoretical courses:

1. The situation and risks of E-business startups.
2. Online store registration: Introduction to platform rules, simulation of mall store registration and listing.
3. Understand opportunities for E-business startups: rural areas, cross-border e-commerce, mobile e-commerce, O2O.
4. Self-evaluation, project selection, and market analysis of E-business startups.
5. Overview of operations management.

Practical courses:

1. Preparation for launch: platform selection, sourcing, and team building.
2. Operations Management: Store Presentation (Part 1) Source Listing.
3. Operation Management: Store Presentation (Part 1) Product Display.
4. Operation Management: Store Presentation (Part 2) Store Decoration.
5. Operation Management: Store Presentation (Part 2) Product Display and Store Decoration of the Third Party Platform.
6. Operations Management: Store Management.
7. Operations Management: Store Promotion.
8. Operations Management: Financial Planning.
9. Operational optimization.

Organizer: Institute for International People-to-People
Exchange in Innovation and Entrepreneurship

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发展中国家长三角一体化协同发展管理机制及成果推广国际培训班

 **举办时间：**2024年6月  **举办地点：**长三角地区三省一市（上海市、浙江省、江苏省、安徽省）
 **工作语言：**英语

培训目的

通过培训班的举办，向共建“一带一路”国家分享中国科技园发展经验促进其科技水平提高和产业技术进步。长三角承载着率先形成科创新发展格局，勇当科技和产业创新开路先锋，加快打造改革开放新高地的使命。这片拥有全国1/26的国土面积、1/6的人口、创造了全国约1/4经济总量的富庶之地，也是产业、资本和科技创新的高地，其成果凝聚着五年来一体化协同发展的管理机制创新和科技力量携手后相互成就的经验积累，对全国及发展中国家的高质量发展能发挥示范引领作用。

举办培训班旨在宣传和展示中国科技发展的成就、水平和经验，对部分发展中国家管理人员及技术人员传授先进适用的政策及管理机制，帮助发展中国家培养专业技术人才，增强发展中国家科技促进经济社会发展的能力，充分体现科技援外特色。同时推动国家之间科技领域的务实合作，为科技支撑“一带一路”、人类命运共同体的构建作出贡献。

培训内容

培训将通过面授学习（理论授课、案例分享等）和现场学习（长三角地区各工作站或研究院及高新技术企业所在地现场教学、企业参观、考察交流等）展开，地点设在上海第二工业大学校区，以及浙江省、江苏省、安徽省相关科技局、高新区或企业，包括武义产业技术研究院、启东研究院等。培训内容主要围绕长三角一体化协同发展提出的背景、政策制定、运行机制、管理模式、实施举措、取得成效等，介绍我国科技管理的政策措施及经验，包括长三角一体化国家战略规划、长三角一体化实施举措、长三角一体化管理经验、长三角一体化科技教育相关规划、长三角一体化发展成效推广、长三角一体化发展目标等。同时结合专题讲座内容，组织研修人员赴长三角高新园区、科研院所、企业进行技术参观，讲解科技园区建设与发展、可持续发展实验区管理、国际合作联合实验室建设与运行等内容。

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International Training Course for developing country on Integrated Development Management Mechanism and Achievement Promotion of the Yangtze River Delta

 **Time:** June, 2024

 **Venue:** Yangtze River Delta region (Shanghai, Zhejiang, Jiangsu, Anhui)

 **Working Language:** English

Objectives

The purpose of organizing training courses is to promote and showcase the achievements, levels, and experiences of China's scientific and technological development, impart advanced and applicable policies and management mechanisms to some developing country managers and technicians, help developing countries cultivate professional and technical talents, enhance their ability to promote economic and social development through science and technology, and fully reflect the characteristics of science and technology assistance to foreign countries. At the same time, we will promote practical cooperation in the field of science and technology between countries, and make contributions to science and technology to support the construction of the "the Belt and Road" and the Community of Common Destiny.

Programs

The training will be conducted through face-to-face learning (theoretical lectures, case sharing, etc.) and on-site learning (on-site teaching, enterprise visits, inspection and exchange, etc. in the locations of various workstations or research institutes and high-tech enterprises in the Yangtze River Delta region). The location is located on the campus of Shanghai Polytechnic University, as well as relevant science and technology bureaus, high-tech zones, or enterprises in Zhejiang, Jiangsu, and Anhui provinces, including Wuyi Industrial Technology Research Institute, Qidong Research Institute, etc. The training content mainly focuses on the background, policy formulation, operational mechanism, management mode, implementation measures, and achievements of the integrated and coordinated development of the Yangtze River Delta. It introduces the policy measures and experience of China's science and technology management, including the national strategic planning, implementation measures, management experience, science and technology education related planning, promotion of development achievements, and development goals of the Yangtze River Delta integration. At the same time, based on the content of the special lecture, organize training personnel to visit the Yangtze River Delta High tech Park, research institutes, and enterprises for technical visits, explain the construction and development of the Science and Technology Park, the management of sustainable development experimental zones, and the construction and operation of international cooperation joint laboratories.

Organizer: Shanghai Polytechnic University

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Coordinator: Li Xin

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耳神经及侧颅底显微外科国际培训班

🕒 举办时间：2024 年 11 月

📍 举办地点：上海

🗣️ 工作语言：英语

培训目的

本培训班拟招收 20 名东南亚、中亚、南美、非洲等发展中国家有志于从事耳神经及侧颅底外科工作的耳鼻喉科医生。邀请国内外耳神经及侧颅底领域权威专家进行授课。培训内容涵盖颞骨及侧颅底解剖、中耳及侧颅底手术、影像学、前庭及听力学，以及耳聋眩晕等耳内科疾病知识。本培训班通过理论授课、颞骨解剖直播、手术直播讲解、圆桌讨论等方式开展，内容由浅及深，以适应不同学员的知识水平和需求，最终达到提高学员对耳科疾病的诊治水平，改善该国患者的生活质量，同时提高我国在耳神经和侧颅底疾病诊治领域的国际影响力。我们期望通过培训班的举办与发展中国家耳鼻喉科学术界建立长期联系，在临床、科研、生产等方面寻求合作。

此外，目前我国国产人工耳蜗、国产耳科器械（内镜，显微镜）等已在国内普遍使用，国产眩晕及前庭康复设备发展势头迅猛，反响良好，培训期间将展示相关产品，以期促进在国产手术器械及医疗设备方面与国外相关机构的合作。

培训内容

主要内容包括：

1. 第 1 ~ 3 天：颞骨解剖教学
1) 颞骨及侧颅底影像学；2) 显微镜 3D 颞骨、侧颅底解剖直播；3) 耳内镜颞骨解剖直播；4) 圆桌讨论。
2. 第 4 ~ 6 天：中耳手术讲解示教
1) 国际知名专家讲解中耳手术；2) 耳内镜手术示教；3) 人工耳蜗植入；4) 咽鼓管球囊扩张术应用；5) 听骨链畸形处理；6) 鼓室成形术；7) 人工镫骨手术；8) 中耳手术听力及面神经保护；9) 圆桌讨论。
3. 第 7 ~ 8 天：国产耳科医疗设备器械展示
1) 人工耳蜗原理及保养；2) 手术器械制作及革新；3) 耳内镜制作及保养；4) 前庭功能检测设备。
4. 第 9 ~ 11 天：侧颅底手术讲解示教
1) 国际知名专家讲解侧颅底手术；2) 颞骨恶性肿瘤手术；3) 侧颅底术后重建方法；4) 侧颅底术中面神经的处理；5) 听神经瘤手术；9) 圆桌讨论。
5. 第 12 ~ 15 天：耳内科疾病的诊疗
1) 临床听力学；2) 眩晕的诊治；3) 眩晕外科治疗；4) 耳鸣干预；5) 圆桌讨论。

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2024 International Workshop of Ear and Skull Base Surgery

 **Time:** November, 2024

 **Venue:** Shanghai

 **Working Language:** English

Objectives

The workshop will recruit 20 otolaryngologists from developing countries in Southeast Asia, Central Asia, South America and Africa. Specialists in middle ear and lateral skull base surgery will be invited to give lectures. The courses consist of temporal bone and lateral skull base dissection, middle ear and lateral skull base surgery, as well as tinnitus and vertigo management, clinical audiology etc, which can meet the requirement of trainees at various level.

With improvement of theoretical knowledge and surgical skills in management of oto-neurological diseases in all trainees, it is possible to improving the life quality of patients with ear disorders in developing countries, We hope to strengthen connection between us and otologists in relevant countries after the workshop, thus to facilitate further collaboration in the clinical, scientific and production areas. In addition, domestic medical devices including cochlear implant, endoscope are getting popular in China, we also hope such high quality and cheap medical devices are available in the developing countries.

Programs

1. Day 1 ~ 3: Temporal bone (TB) dissection training
 - 1) Imaging of TB and lateral skull base; 2) 3D demonstration of TB and lateral skull base dissection ; 3) Endoscopic dissection; 4) Roundtable.
2. Day 4 ~ 6: Middle ear surgery
 - 1) Renowned surgeon introduces middle ear surgery; 2) Endoscopic surgery; 3) Cochlear implantation; 4) Balloon dilation of eustachian tube; 5) Ossicular chain malformation management; 6) Tympanoplasty; 7) Otosclerosis surgery; 8) Hearing and facial nerve preservation; 9) Roundtable.
3. Day 7 ~ 8: Domestic medical devices showcase
 - 1) Theory and production of cochlear implant; 2) Production and innovation of microsurgery instruments; 3) Production and maintenance of endoscope; 4) Devices regarding vestibular function.
4. Day 9 ~ 11: Lateral skull base surgery
 - 1) Renowned surgeon introduces lateral skull base surgery ; 2) TB malignancies management strategy; 3) Lateral skull base reconstruction; 4) Facial nerve management; 5) Acoustic neuroma resection; 6) Roundtable .
5. Day 12 ~ 15: Medicine for otological diseases
 - 1) Clinical audiology; 2) Management of vertigo; 3) Surgical treatment of vertigo; 4) Tinnitus Intervention; 5) Roundtable.

Organizer: Eye & ENT Hospital of Fudan University
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“一带一路”胃肠外科腹腔镜技术国际培训班

🕒 **举办时间：**2024年10月

📍 **举办地点：**湖南长沙

🗣️ **工作语言：**英语

培训目的

1. 提高学员的应用解剖知识、腹腔镜肿瘤切除手术规范和术中决策能力；
2. 推广胃肠肿瘤的加速康复外科和综合治疗策略、全病程管理和多学科疑难病例讨论方式；
3. 提升学员的医院内感染控制、现代医院管理能力；
4. 促进学员了解外科临床和微创技术的教学方法。

培训内容

1. 腹腔镜手术的基本操作技术：腹腔镜手术操作基础，胃肠吻合技术，手术能量平台技术等；
2. 胃肠外科应用解剖；
3. 胃肠肿瘤腹腔镜手术演示；
4. 消化性溃疡穿孔的微创手术，急腹症处理；
5. 胃肠道肿瘤的综合治疗与全病程管理；
6. 减重与代谢外科；
7. 腹腔镜疝修补术；
8. 加速康复外科策略；
9. 医院感染控制、现代医院管理与学科建设；
10. 临床教学查房、疑难复杂病例多学科病例讨论。

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“The Belt and Road” International Training Workshop on Laparoscopic Gastrointestinal Surgery

 **Time:** October, 2024

 **Venue:** Changsha, Hunan

 **Working Language:** English

Objectives

- 1.To improve the gastroenterologists level of applied anatomy, the laparoscopic gastrointestinal surgery and intraoperative decision-making ability;
- 2.To promote the strategy of enhanced recovery after surgery(ERAS) and comprehensive treatment, multi-disciplinary team(MDT) of gastrointestinal tumors;
- 3.To improve the trainees' ability of nosocomial infection control, modern hospital management;
- 4.To promote the trainees teaching ability of surgery and minimally invasive techniques.

Programs

- 1.Gastrointestinal laparoscopic and endoscopic techniques:basic steps of laparoscopic surgery , anastomosis skills and surgical energy platform.
- 2.practical anatomy for gastrointestinal surgery.
- 3.Demonstration of laparoscopic surgery for gastrointestinal tumors.
- 4.Minimal invasive laparoscopic surgery for peptic ulcer perforation patients and the management of acute abdomen.
- 5.The standardized treatment for gastrointestinal tumors and integrated treatment strategies.
- 6.Bariatric and metabolic surgery.
- 7.Laparoscopic hernia repair.
- 8.The practice and basic theory of enhanced recovery after surgery(ERAS).
- 9.Hospitalized infection control and Hospital management and disciplinary development.
- 10.Clinical observation : grand rounds and Multidisciplinary treatment.

Organizer: Xiangya Hospital Central South University
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Coordinator: Liu Weidong

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中国 - 蒙古国蒙医蒙药专业人才国际培训班

- 🕒 **举办时间:** 2024 年 3 月
- 📍 **举办地点:** 内蒙古呼和浩特
- 🗣️ **工作语言:** 蒙古语

培训目的

为贯彻落实科技援外相关部署，体现科技对发展中国家经济和社会发展的支撑作用，同共建“一带一路”国家相关领域构建全面、深入的科技伙伴关系，建立长效的合作机制，特举办此次培训。

培训内容

第一，整合全区三甲蒙医中医医院重点学科、重点专科优势资源，挖掘整理蒙医国医大师、国家名中医、岐黄学者、自治区名蒙医的诊疗技术和医案、方药解读、蒙医经典理论，制作完成 48 课时课程，进行讲课。课时要求：2 课时 / 学科；共计 48 课时。

第二，国际蒙医医院作为全区标准化培训基地，通过中国民族医药学会已发布或等待发布的共 35 项临床诊疗指南，本次培训精选出心刺痛、萨病、紫癜羊皮病、蒙医正骨等 24 项临床诊疗指南向广大蒙古国基层卫生人员进行推广。课时要求：1 课时 / 每项；共计 24 课时。

第三，重点选择我院特色专科学科，进行 48 课时的临床技能培训。

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China-Mongolia International Training Course for professionals in Mongolian Medicine

 **Time:** March, 2024

 **Venue:** Hohhot, Inner Mongolia

 **Working Language:** Mongolian

Objectives

Reflect the supporting role of science and technology in the economic and social development of developing countries, build a comprehensive and in-depth science and technology partnership with the relevant fields of the BRI partner countries, and establish a long-term cooperation mechanism.

Programs

In the first phase, Lectures are formed by excavating resources of crucial disciplines and critical specialties of the Upper First-Class Mongolian Medicine and Traditional Chinese Medicine Hospitals in Inner Mongolia Autonomous Region and the diagnosis and treatment techniques, medical records, prescription interpretation, and classical theories of Mongolian medicine of the national masters of Mongolian medicine, the national famous traditional Chinese (Mongolian) medicine, Qi-Huang scholars and the famous Mongolian medicine. Course requirement: 2 course hours/Subject, 48 course hours in total.

In the second phase, Projects to promote Mongolian medicine for Primary health personnel in Mogolia based on clinical diagnosis and treatment guidelines published or awaiting publication by China Medical Association of Minorities, including angina pectoris, Sa diseases, Purpuric dermatosis .etc.Course requirements: 1 course hour/Each project,48 course hours in total.

In the third phase, clinical skills training in specialized disciplines. Course requirement: 48 hours in total.

Organizer: Inner Mongolia International Mongolian Hospital
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老挝万象塔拉能检验检疫中心技术人员国际培训班

🕒 举办时间：2024 年 3 月

📍 举办地点：北京、昆明

🗣️ 工作语言：英语

培训目的

通过本次培训，提高老挝万象塔拉能检验检疫中心相关人员检测、监管能力，提升我国与共建“一带一路”国家技术交流与合作的层次水平，构建以政治安全、经贸、人文交流三大支柱为主线，多领域合作作为支撑的合作新框架。

培训内容

1. 第 1 ~ 10 天：课堂授课

我国商品、动植物产品质量安全相关标准、规范宣贯，主要讲解我国对进口水果监管的《进出口商品检验法》《农产品质量安全法》《食品安全法》等法律法规要求，针对大宗水果如榴莲、芒果、青柚等，重点介绍我国对进口水果的质量安全管理，介绍农药残留、微生物限量等强制性国家标准，介绍 ISO/IEC 17025 等检测实验室质量管理等知识和经验。

2. 第 11 ~ 15 天：实验操作

实验室检验检测技术操作培训，主要包括食品 / 农产品、化学品、矿产石油、金属制品、纤维与纺织品、生物安全与动植物检疫等，以及液相色谱 - 质谱等分析检测仪器的使用维护，微生物实操与分子生物学实操，检测结果的分析和解读等。

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Technical training course for Thanaleng Inspection and Quarantine Center in Vientiane, Laos

 **Time:** March, 2024

 **Venue:** Beijing, Kunming

 **Working Language:** English

Objectives

Through this training, the relevant personnel of Thanaleng Inspection and Quarantine Center in Vientiane, Laos, will be able to improve their testing and supervision capabilities, and enhance the level of technical exchanges and cooperation between China and BRI partner countries. We will build a new cooperation framework based on the three pillars of political security, economic and trade, and people-to-people exchanges, and underpinned by multi-field cooperation.

Programs

1. Day 1 ~ 10: classroom instruction

China's commodity, animal and plant product quality and safety related standards and norms, mainly explain China's import and Export Commodity Inspection Law, Agricultural Product Quality Safety Law, Food Safety Law and other laws and regulations on the supervision of imported fruits, for bulk fruits such as durian, mango, grapefruit, focus on the quality and safety management of imported fruits in China. Introduce mandatory national standards such as pesticide residues and microbial limits, and introduce knowledge and experience in quality management of testing laboratories such as ISO/IEC 17025.

2. Day 11 ~ 15: experimental operation

Laboratory inspection and quarantine technology operation training, mainly including food/agricultural products, chemicals, minerals and petroleum, metal products, fibers and textiles, biosafety and animal and plant quarantine, as well as liquid chromatography-mass spectrometry and other analysis and testing equipment maintenance, microbiology and molecular biology practical operation, analysis and interpretation of test results.

Organizer: Chinese Academy of Inspection and Quarantine
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导航技术在骨科创伤中的应用技术国际培训班

🕒 举办时间：2024 年 9 月

📍 举办地点：北京

🗣️ 工作语言：汉语、英语

培训目的

传授成熟、精确、微创的导航辅助技术，培养发展中国家医师的人工智能同常规手术结合的理念，让各国学员掌握运用导航技术治疗相关疾病的基本思路，熟练掌握导航在四肢创伤手术中的应用。为共建“一带一路”国家提升自身医疗卫生水平提供切实的技术支持。同时通过此次国际培训班的开设，增进我国与共建“一带一路”国家的医学交流，为日后跨地域、跨专业、多学科创新合作提供契机，共同提高骨科手术技术的创新。

培训内容

1. 手术导航的概念；
2. 手术导航系统的简介；
3. 导航系统的相关原理；
4. 常见的导航手术工具；
5. 导航在具体的四肢创伤中应用的方法介绍；
6. 研讨会；
7. 手术演示。

承办单位：国家骨科与运动康复临床医学研究中心

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International Training Course on the Application of Navigation Technology in Orthopaedic Trauma

 **Time:** September, 2024

 **Venue:** Beijing

 **Working Language:** Chinese, English

Objectives

To teach mature, accurate and minimally invasive navigation assistance technology, to promote the concept of combining artificial intelligence with conventional surgery for doctors in developing countries, so that students from different countries can master the basic ideas of using navigation technology to treat related diseases, and master navigation in some specific operations in limb trauma. To provide substantial technical support for BRI partner countries to improve their own medical and health standards. At the same time, through this international training session, the medical exchanges between China and BRI partner countries will be enhanced, providing an opportunity for cross-regional, cross-professional and multi-disciplinary innovation cooperation in the future, and jointly improving orthopaedic surgical technology innovation.

Programs

1. concept of surgical navigation.
2. introduction of surgical navigation system.
3. related principles of navigation system.
4. common navigation surgical tools.
5. method introduction of navigation in specific limb trauma application.
6. Workshop.
7. surgical demonstration.

Organizer: National Clinical Research Center for Orthopedics
Sports Medicine & Rehabilitation

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南太平洋岛国地区微创外科技术国际培训班

🕒 举办时间：2024 年 9 月

📍 举办地点：广东广州

🗣️ 工作语言：英语

培训目的

以南太平洋地区常见外科疾病诊疗为核心教学内容，通过微创外科理论基础、模拟训练、动物实验、临床带教及综合考核等方式，综合提升学员微创手术操作技能、疾病诊疗的理论知识，初步熟悉南太平洋岛国地区外科常见病、多发病的现代微创外科规范化流程和诊疗方法，达到学以致用服务于本国患者，提升当地微创外科诊疗水平，并持续加强我方与南太平洋岛国之间的医疗卫生交流与合作。

培训内容

1. 理论教学：南太岛国地区常见疾病如前列腺增生、结石、阑尾炎、胆囊炎等诊疗常规及现代微创外科规范化流程培训；
2. 微创技术基础培训：包括内镜技术、腔镜操作技能基础培训等；
3. 模拟器训练；
4. 动物实验；
5. 临床教学及手术观摩。

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South Pacific Island Countries Minimally Invasive Surgery Technical Training Program

 **Time:** September, 2024

 **Venue:** Guangzhou, China

 **Working Language:** English

Objectives

The program focuses on common surgical diseases in the South Pacific region. It aims to enhance the participants' minimally invasive surgical skills and theoretical knowledge of disease diagnosis and treatment through a comprehensive approach, including theoretical foundation of minimally invasive surgery, simulated training, animal experiments, clinical teaching, and comprehensive examinations. It also helps them to become familiar with the standard procedures and treatment methods of modern minimally invasive surgery for common and frequent diseases in the South Pacific island countries. The ultimate goal is to apply the learned knowledge to serve patients in their own countries, improve the level of minimally invasive surgical diagnosis and treatment locally, and continuously strengthen the medical and health exchanges and cooperation between our side and the South Pacific island countries.

Programs

1. Theoretical teaching: Including training on common diseases in the South Pacific island countries such as prostatic hyperplasia, calculi, appendicitis, cholecystitis, and other common surgical diseases, as well as standard procedures of modern minimally invasive surgery.
2. Basic training in minimally invasive techniques:
Includes endoscopic technology and basic training in laparoscopic operation skills.
3. Simulator training.
4. Animal experiments.
5. Clinical teaching and surgery observation.

Organizer: Southern Medical University

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分子诊断与病原核酸检测国际培训班

🕒 举办时间：2024 年 5 月

📍 举办地点：北京、上海、广州、深圳

🗣️ 工作语言：英语

培训目的

1. 通过帮助全面引进和展示先进的病原体分子检测和诊断技术、预防用分子疫苗学，提高“一带一路”相关国家，特别是非洲、亚洲和拉丁美洲国家的病原体检测实验室能力。并希望参加培训的人员成为推动其本国相关领域工作发展的领导者。
2. 提高参与者在公共卫生领域利用和推广先进分子诊断和分子疫苗学技术的能力，并且建立未来的合作研究。
3. 分享和传播中国分子诊断与病原核酸检测技术经验，提高国际上对各类疫情的应对能力。

培训内容

1. 样本储存、收集和运输；
2. 单重和多重 PCR 的原理和应用；
3. 定量实时 PCR 和数字 PCR；
4. 核酸等温扩增技术（RAA）；
5. 便携式点上测试技术（POCT）；
6. 下一代测序（NGS）和第三代测序（TGS）；
7. 分子诊断技术与重大疾病防控（结核、疟疾、HIV/AIDS、猴痘、流感、新冠肺炎、脑炎、出血热、HPV 感染等）；
8. 生物信息学概述和基本技能；
9. 重点疾病分子疫苗学（结核、流感、新冠肺炎、HIV/AIDS、HPV 等）；
10. 非洲新发再发传染病防控；
11. 公共卫生实验室管理与实验室检测能力拓展；
12. 实验室安全与污物处理；
13. 现场考察广东省疾病预防控制中心、深圳市疾病预防控制中心、国家基因库（深圳）；
14. 进入中国疾病预防控制中心总部或直属单位学习，并建立合作。

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International Training Program about Molecular Diagnosis and Pathogen Determination (ModPad)

 **Time:** May, 2024

 **Venue:** Beijing, Shanghai, Guangzhou, Shenzhen

 **Working Language:** English

Objectives

1. To enhance the laboratory capacities for pathogen determination in the Belt and Road Initiative countries especially for Africa, Asia and Latin America countries through the comprehensive introduction and demonstration of advanced molecular detection and diagnosis techniques for pathogens, molecular vaccinology for prevention. We expect the participants will become leaders who drive the development of related local work in their homelands.

2. To enhance participants' capacities for the utilization and scaling-up of advanced molecular diagnostic and molecular vaccinology techniques in public health areas, including the establishment of future collaborative research.

3. To promote effective epidemic response internationally.

Programs

1. Overview of sample collection, storage and transportation.
2. Principle and application of singleplex and multiplex PCR.
3. Quantitative real-time PCR, and digital PCR.
4. Nucleic acid isothermal amplification techniques (RAA).
5. Point-of-Care Testing (POCT).
6. Next-generation sequencing (NGS) and third-generation sequencing (TGS).
7. The role of molecular diagnosis in the prevention and control of major diseases (TB, malaria, HIV/AIDS, monkeypox, influenza, Covid-19, encephalitis, hemorrhagic fever, HPV infection etc.).
8. Bioinformatics.
9. Molecular vaccinology of TB, influenza, Covid-19, HIV/AIDS, HPV etc.).
10. Emerging and re-emerging infectious diseases prevention and control in Africa.
11. Leadership in the scaling up of molecular diagnosis and pathogen determination techniques and public health lab management.
12. Laboratory safety and sewage treatment.
13. Field investigation in Guangdong CDC, Shenzhen CDC, and China National Genebank (locating in Shenzhen City).
14. On job training inside China CDC.

Organizer: Chinese Center for Disease Control and Prevention

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数字智能医学在脊柱外科中的应用及进展国际培训班

🕒 **举办时间:** 2024 年 11 月

📍 **举办地点:** 陕西西安

🗣️ **工作语言:** 汉语、英语

培训目的

1. 培养不同发展中国家脊柱外科医生脊柱外科微创化和精准化的治疗理念，充分发挥我国在脊柱外科数字智能微创技术领域的优势。
2. 为发展中国家切实培养脊柱外科专业人员，助力其逐步建立起一支本土的脊柱微创手术专家队伍。
3. 推进我国与其他发展中国家在脊柱数字智能微创技术方面的学术交流与合作，进一步推动全球数字智能技术在脊柱外科领域的发展。
4. 协助发展中国家建立综合性的、可持续发展的脊柱数字智能技术体系。

培训内容

1. 介绍数字智能技术在脊柱外科中的应用现状及展望；
2. 介绍 3D 打印技术在脊柱外科中的应用；
3. 学习导航技术在脊柱微创手术中的应用及操作流程；
4. 学习机器人在脊柱外科中的应用；
5. 介绍混合现实技术在脊柱外科中的应用现状及未来发展的趋势；
6. 讲解手术风险与并发症管理，让参与者了解脊柱微创手术中的常见风险和并发症，并学习如何预防和处理这些问题。

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International Training Course On The Application & Progress Of Digital Intelligence In Spine Surgery

 **Time:** September, 2024

 **Venue:** Xi'an, Shaanxi

 **Working Language:** Chinese, English

Objectives

1. To train spinal surgeons for developing countries by fully utilizing China's advantages in the field of digital intelligent minimally invasive technology in spinal surgery, and enable them to develop minimally invasive and precision treatment concepts.
2. To effectively train spine surgeons for profession for developing countries, so that they can gradually establish a local team of minimally invasive spinal surgery experts.
3. To promote academic exchanges and cooperation between China and other developing countries in the field of spinal digital intelligent minimally invasive technology, and further promote the development of global digital intelligent technology in the field of spinal surgery.
4. To assist developing countries in establishing a comprehensive and sustainable spinal digital intelligence technology system.

Programs

1. Current application status and prospects of digital intelligence technology in spinal surgery.
2. Application of 3D printing technology in spinal surgery.
3. Application and operation process of navigation technology in minimally invasive spinal surgery.
4. Application of robot in spinal surgery.
5. Current application status and future development trend of hybrid reality technology in spinal surgery.
6. Surgical risk and complication management in minimally invasive spinal surgery.

Organizer: Xi'an Honghui Hospital

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“一带一路”肝脏微创技术国际培训班

- 🕒 **举办时间：**2024 年 4 月
- 📍 **举办地点：**四川成都
- 🗣️ **工作语言：**汉语、英语、俄语

培训目的

1. 利用专题培训班，向“一带一路”国家肝胆胰外科医生传授中国成熟的肝脏微创技术，持续推动当地肝病手术治疗向微创方向发展。
2. 通过专题培训班，加深四川大学华西医院与“一带一路”国家重点医院在医疗、科研、转化方面的合作。

培训内容

1. 课堂讲授肝脏微创技术理论知识；
2. 临床技能中心通过训练模块及实验动物教授肝脏微创技术；
3. 通过手术直播和手术视频的方式观摩肝脏微创演示；
4. 通过参与手术的方式学习肝脏微创技术；
5. 通过参加多学科会诊、病房查房等学习肝脏疾病的综合诊疗模式。

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Belt and Road Initiative Liver Minimally Invasive Technology International Training Course

 **Time:** April, 2024

 **Venue:** Chengdu, Sichuan

 **Working Language:** Chinese, English, Russian

Objectives

1. Through specialized training sessions, we impart advanced minimally invasive liver surgery techniques from China to HPB surgeons in “Belt and Road” countries, continuously promoting the development of local liver disease surgical treatments towards minimally invasive approaches.

2. By means of specialized training programs, we deepen the collaboration in medical, research, and translational aspects between West China Hospital of Sichuan University and key hospitals in “Belt and Road” countries.

Programs

1. Classroom teaching of theoretical knowledge of minimally invasive liver surgery;
2. Clinical Skills Center provides training modules and animal experiments to practice minimally invasive liver surgery techniques;
3. Observing demonstrations of minimally invasive liver surgery through live surgeries and surgical videos;
4. Learning minimally invasive liver surgery techniques by participating in surgeries;
5. Participating in multidisciplinary consultations and ward rounds to learn the comprehensive diagnosis and treatment of liver diseases.

Organizer: West China Hospital of Sichuan University

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Province, China

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Coordinator: Cai Yunshi, Xie Kunlin, Wu Hong

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精准数字化正畸诊疗技术国际培训班

🕒 举办时间：2024 年 5 月

📍 举办地点：四川成都

🗣️ 工作语言：英语

培训目的

以精准数字化正畸诊疗趋势为方向，对 2018 发展中国家系统性数字化正畸诊疗技术国际培训班培训课程内容进行升级，针对精准数字化正畸诊疗中的重点理论知识和实践操作技能进行专项培训，将理论知识与临床操作相结合，以此提高学员精准数字化正畸诊疗能力和水平，为共建“一带一路”国家培养中高端数字化正畸专业技术人才，促进其正畸技术水平提高及相关研究和创新能力进步，为进一步缓解受训学员所在国口腔正畸医师短缺、口腔数字化正畸诊疗水平不足但需求日益增长的现实矛盾贡献中国力量。通过此次培训也将进一步促进我国与学员所在国在数字化口腔正畸诊疗技术方面的合作与交流，推动我国数字化正畸技术及相关产品在学员所在国家和地区的应用。

培训内容

1. 错（牙合）畸形及数字化正畸治疗目标概述；
2. 错（牙合）畸形的检查、诊断和治疗计划；
3. 正畸治疗的生物学和生物力学；
4. 精准数字化固定正畸治疗；
5. 精准数字化无托槽隐形矫治技术；
6. 安氏 I 类 / II 类 / III 类错（牙合）的数字化矫治；
7. 错（牙合）畸形早期矫治；
8. 成年人数字化正畸治疗；
9. 基于根骨系统的精准数字化正畸治疗；
10. 数字化正颌 - 正畸联合治疗；
11. 精准高效数字化正畸诊疗相关实践操作训练。

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International Training Workshop of Precise Digital Orthodontics

 **Time:** May, 2024

 **Venue:** Chengdu, Sichuan

 **Working Language:** English

Objectives

Taking trends of precise digital orthodontic technologies and combining theoretical knowledge with clinical practice, the current international orthodontic training workshop, by upgrading the content of the 2018 international training workshop of systematic digital orthodontics in developing countries, aims to improve the precise digital orthodontic capacity of the trainees, cultivate mid-to-high-level digital orthodontic professionals for countries along “the Belt and Road”, and promote the advancement of digital orthodontic technique and related research and innovations in their countries. The workshop also aims at contributing the Chinese strength to alleviating the conflicts between the reality of the growing demand for digital orthodontic treatment and the shortage of orthodontists as well as the uneven diagnosis and treatment skills in the trainees’ countries. This workshop not only improves the collaboration in digital orthodontic techniques between China and BRI partner countries, but also promotes the application of China’s digital orthodontic technology and products worldwide.

Programs

1. Introduction of malocclusion and precise digital orthodontic treatment goals.
2. Examination, diagnosis and treatment planning of malocclusion.
3. Biology and biomechanics in orthodontics.
4. Precise digital fixed orthodontic treatment.
5. Precise digital clear aligner therapy.
6. Digital orthodontic treatment workflows of Angle Class I/II/III malocclusions.
7. Early treatment of malocclusion.
8. Digital orthodontic treatment in adults.
9. Precise digital orthodontic treatment based on the “root-bone” system.
10. Digital orthognathic-orthodontic treatment.
11. Hands-on training on precise digital orthodontic treatment workflows.

Organizer: West China School of Stomatology, Sichuan University
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检验新技术新项目临床应用技术国际培训班

🕒 举办时间：2024 年 4 月

📍 举办地点：北京

🗣️ 工作语言：英语

培训目的

随着检验医学的发展，基因组学、蛋白质组学、单细胞检测等技术日趋成熟、快速、简便。适合筛查和靶向检测的质谱、测序等新技术、新设备在临床中得到应用。为促进这些新技术、新方法在共建“一带一路”国家的普及，提升临床诊疗能力，助力专业技术人才的培养，我们结合北京协和医院疑难罕见病诊疗中心的综合能力，举办本培训班。

培训内容

课程预计持续 15 天。培训内容丰富且前沿，包括质谱、二代测序、实验室认可、感染肿瘤检测新技术临床应用。培训形式贴近临床工作，包括 2 天的理论学习，4 个专业组各 3 天的实验室内轮转交流，最后还有 1 天小组讨论和汇报，并颁发结业证书。

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International Training Course on Clinical Application of New Techniques and New Technologies

 **Time:** April, 2024

 **Venue:** Beijing

 **Working Language:** English

Objectives

With the development of laboratory medicine, genomics, proteomics, single cell detection and other technologies are becoming more mature, fast and simple. New technologies and equipment such as mass spectrometry and sequencing suitable for screening and targeted testing have been applied in clinical practice. To promote these new technologies and techniques to develop in BRI partner countries, improve clinical diagnosis and treatment ability and help professional and technical personnel training, we organized this class based on the comprehensive capabilities of Peking Union Medical College Hospital's Diagnosis and Treatment Center for Complex and Rare Diseases.

Programs

The course is expected to last 15 days. The training content is rich, involving mass spectrometry, second-generation sequencing, laboratory accreditation, and other new technologies for detecting tumors and infection, et al. The training form is close to clinical work, including 2 days of theoretical lecture, 3 days of rotation in the laboratory for each of the 4 professional groups. The last day will hold group discussion and report. A certificate of completion shall be issued.

Organizer: Peking Union Medical College Hospital
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非洲助产士助理国际培训班

🕒 **举办时间：**2024 年 7 月

📍 **举办地点：**浙江温州

🗣️ **工作语言：**英语



培训目的

1. 提升助产士的技能和知识水平；
2. 推动建立完善的助产士培训体系；
3. 推广中药在助产中的应用；
4. 提高非洲地区人民对卫生保健服务的信任和需求。

培训内容

助产士助理培训项目共覆盖 3 大教学模块：

1. 妇幼保健专业知识技能的传授（如女性解剖生理、孕期生理和保健、分娩照护等）；
2. 助产士实践能力的拓展（在实践基地学习如何指导女性进行孕妇瑜伽、分娩呼吸配合、产后乳房护理等）；
3. 中医药文化的传播（包括中医中药、中医穴位、中式茶道等）。

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International Training Program for Midwifery Assistants in Africa

 **Time:** July, 2024

 **Venue:** Wenzhou, Zhejiang

 **Working Language:** English

Objectives

1. Enhancing the skill and knowledge levels of midwifery assistants.
2. Establishing a comprehensive midwifery assistants training system.
3. Promoting the application of traditional Chinese medicine in midwifery assistants.
4. Increasing local trust and demand for healthcare services.

Programs

The midwifery assistants training program covers 3 major teaching components:

1. Professional knowledge and skills in maternal and child health (knowledge of female anatomy and physiology, pregnancy physiology and health care, childbirth care, etc.).
2. Midwives' practical skills (learning how to guide women in maternal yoga, breathing coordination in childbirth, postpartum breast care, etc.).
3. Chinese culture (which includes the experience of Chinese medicine, Chinese medicine acupuncture points, Chinese tea ceremony, etc.).

Organizer: Wenzhou Medical University

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“一带一路”消化内镜国际培训班

🕒 举办时间：2024 年 9 月

📍 举办地点：江苏南京

🗣️ 工作语言：英语

培训目的

为积极响应“一带一路”倡议，我们为全球初级内镜医生开设了手把手内镜培训系列课程。在为期 15 天的课程中，我们将进行讲座研讨会、操作演示、内镜体外模型练习和活体动物练习等。我们希望通过这次培训，能提高学员在消化内镜理论和实践方面的专业能力，特别是提高内镜操作质量和规范诊断治疗。

总之，“一带一路”消化内镜培训班是为致力于消化内镜的医生提供的一个高质量的培训项目。在这个平台上，通过技术转移、能力建设和医疗资源共享，促进参与国家的医疗水平提升和健康事业发展，加强国际合作。这对于改善医疗服务质量、推动医疗技术的发展和普及化具有重要的意义。

培训内容

为期 15 天的培训班将提供讲座研讨会、手术演示、体外模型内镜培训和活体动物内镜培训，为来自世界各地的内镜同行们提供一流的高质量培训。

讲座研讨会主要围绕消化系统常见疾病特别是消化道早癌的内镜诊断和治疗原则、内镜下病变的分类和鉴别诊断、内镜检查的常规操作技巧和注意事项等主题进行讲课研讨及早癌病例分享讨论。在课程后期，我们将进行一些高级内镜技术的介绍。

在学习理论知识的同时，我们也安排了内镜手术演示与讨论，包括 ESD、EMR、ERCP、超声内镜。并且在每日的手术演示后组织学员与专家进行案例讨论，分享经验和解决实际问题。

为了能进一步提升学员的内镜操作水平，我们在江苏省人民医院第一临床医学院技能模拟中心安排了体外模型的内镜培训。由消化内镜专家们进行一对一的精准指导，切实提高学员内镜操作的熟练度和精准度，解决学员们培训中的常见技术难点。

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“Belt and Road” Digestive Endoscopy International Training Course

 **Time:** September, 2024

 **Venue:** Nanjing, Jiangsu

 **Working Language:** English

Objectives

In order to actively respond to the “Belt and Road” initiative, we have established a series of hands-on endoscopy training courses for primary endoscopists worldwide. During the 15-days course, we will conduct lectures, workshops, operational demonstrations, practice on ex vivo endoscopic models, as well as live animal exercises. Through this training, we aim to enhance the participants’ professional knowledge in digestive endoscopy theory and practice, particularly focusing on standardizing endoscopic procedural quality and diagnosis and treatment.

In summary, the “Belt and Road” Digestive Endoscopy Training Program provides a high-quality training opportunity for doctors dedicated to digestive endoscopy. Through technology transfer, capacity building, and the sharing of medical resources on this platform, we aim to promote the improvement of medical standards and the development of healthcare in participating countries, while strengthening international cooperation and friendship. This is of significant importance for improving the quality of medical services, advancing the development and popularization of medical technologies.

Programs

The 15-days training program will provide lectures, surgical demonstrations, ex vivo model endoscopy training, and live animal endoscopy training, offering top-quality training for endoscopists from around the world.

Lectures will focus on the endoscopic diagnosis and treatment principles of common digestive system diseases. Additionally, there will be case discussions and sharing of experiences related to the lectures.

We have arranged endoscopic demonstrations and discussions, after each endoscopic demonstration, participants will engage in case discussions with experts, sharing experiences and addressing practical issues.

We also have arranged ex vivo model endoscopy training at the Skills Simulation Center of the First Clinical Medical College, Jiangsu Province Hospital. Digestive endoscopy experts will provide one-on-one precise guidance.

Organizer: Jiangsu Province Hospital

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Coordinator: Tao Yuwen

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数字化医学影像设备国际培训班

🕒 举办时间：2024 年 8 月

📍 举办地点：辽宁沈阳

🗨️ 工作语言：英语

培训目的

在成功举办前十四届数字化医学影像设备培训班的基础上，通过对常见多发疾病及重症急症的诊断和治疗技术的培训，一方面加强共建“一带一路”国家的医疗卫生人才培养，促进医疗卫生技术和服务能力的提升。另一方面，打造中国高端医疗服务品牌，通过医疗服务提升与共建“一带一路”国家的软联通和心联通。为国家的发展赢得和平友好的国际环境，为各国人民的健康福祉贡献力量。

培训内容

1. 治疗全球常见多发性重症急症（如心血管疾病及脑卒中）的 CT、MRI、US、PET/CT 技术和应用。
2. 肺结核诊断和治疗中的 X 线技术和应用。
3. 心血管疾病诊断和治疗中的 DSA 技术和应用。
4. 影像科和导管室的质控和日常设备维护。
5. 医学影像人工智能和其他解决方案。

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International Training Course on Digital Medical Imaging Equipment

 **Time:** August, 2024

 **Venue:** Shenyang, Liaoning

 **Working Language:** English

Objectives

Based on the success and experience of the previous experience on “International Training Course on Digital Medical Imaging Equipment’s”, this training will make the related doctors and engineers understand the principle, structure, feature, clinical application and system operation of the digital medical systems (especially newly developed equipment), and improve the international friendship and move forward the health level for the trained country.

Programs

1. CT, MRI, US, PET/CT technologies and applications in addressing globally common challenges cardiovascular diseases, and other critical and urgent cases like stroke and etc;
2. XR technology and applications for addressing the reemerging challenges from tuberculosis across the globe;
3. DSA technologies and applications in addressing challenges from cardiovascular diseases, and etc;
4. Quality control and system maintenance technologies for the radiology department and cath lab;
5. Medical imaging AI and other solutions.

Organizer: Neusoft Medical Systems Co., Ltd.

Address: No.177-1, Chuangxin Road, Hunnan District,
Shenyang, Liaoning, China.

Postcode: 110167

Coordinator: Shi Ye

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中国—塞舌尔交互式远程智慧诊疗技术国际人才培训班

🕒 **举办时间：**2024 年 4 月

📍 **举办地点：**山东济南

🗣️ **工作语言：**英语

培训目的

提供一种经济、有效的远程医学平台帮助塞舌尔提高医疗服务水平，培养一批熟悉远程诊疗的高端医疗人才，搭建一个可靠稳定的远程诊疗平台，提高受援国医生诊疗能力，为深化中-塞全方位合作奠定基础。

培训内容

1. 组织山东省立医院专家团队，培训和指导塞舌尔医生开展相关疾病的诊疗：如脑梗死、脑肿瘤、妊娠期心脏病、妇科肿瘤等。
2. 培训塞国学员掌握必要的远程医疗技能。主要包括两种方式：①在国际互联网带宽满足要求的塞舌尔当地采用交互式诊疗，借助山东省立医院远程诊疗平台，将 5G 网络与云计算相结合，部署平台至云端，提供数据存储与人工智能技术的支持，实现信息互通、远程会诊、远程培训、多方实时交互和全息手术导航等功能，以覆盖术前、术中、术后的应用场景。②培训学员使用基础的电子邮件远程诊疗平台。在受国际互联网带宽限制的塞国当地，指导电子邮件使用者提供信息并辅以高效的图像处理，使得电子邮件软件成为一种简单高效的远程诊疗平台。

承办单位：山东第一医科大学附属省立医院（山东省立医院）

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China-Seychelles Interactive Remote Intelligent Diagnosis and Treatment Clinician Training Course

 **Time:** April, 2024

 **Venue:** Jinan, Shandong

 **Working Language:** English

Objectives

Our primary objective is to establish an economically effective solution to enhance medical service level in Seychelles. We plan to train a group of clinicians with knowledge of telemedicine and build a reliable telemedicine platform to improve the medical capacity of clinicians in recipient countries.

Programs

To meet the requirement from Seychelles, we will organize the experienced clinician team to train and direct the medical staff from Seychelles to carry out the diagnosis and therapy of the related disease such as brain infarction, brain tumor, heart disease during the pregnancy and gynecological cancer.

The telemedicine training curriculum consists of two main contents as follows:

We plan to provide comprehensive training to Seychelles clinicians to use telemedicine services: ① The interactive diagnosis and treatment will be initiated at the qualified band-width area. We plan to establish a brand-new comprehensive telemedicine platform which is based on Shandong Provincial Hospital, combining 5G network and cloud computing, deploying the platform to the cloud, providing data storage and artificial intelligence. We aim to achieve to cover the whole chain (pre-intra-and post treatment) clinic applications at information sharing, teleconsultation, remote training, real-time multi access teleconference and even provide image-guided surgical navigation. ② The second approach is an offline consultation, our training program for Seychelles clinicians focuses on training the staff with the necessary skills to utilize a basic e-mail telemedicine platform effectively. Our program will guide users to provide effective medical information and enable efficient processing of medical images. This simple and cost-effective platform will enable Seychelles clinicians to seek consultation opinions from specialists.

Organizer: Provincial Hospital Affiliated to Shandong First Medical University
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“一带一路”消化内镜国际培训班

🕒 举办时间：2024 年 7 月

📍 举办地点：湖北武汉

🗣️ 工作语言：英语

培训目的

促进非洲及中东消化内镜的规范操作及发展，介绍推广中国内镜技术及国产内镜产品。

培训内容

通过讲课和操作演示相结合，帮忙非洲消化科医生掌握常规胃肠镜的规范操作并熟悉了解治疗内镜技术的应用和发展。教学内容包括以下几大部分。

1. 常规胃镜和肠镜的规范操作；
2. 如何避免内镜检查中漏检病灶；
3. 胶囊内镜的技术关键和应用；
4. 放大内镜手术教学；
5. 激光共聚焦内镜的发展和應用；
6. 治疗内镜技术的演示教学（包括 EMR、ESD、超声内镜穿刺和 ERCP 等高难度内镜手术）。

承办单位：武汉大学

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“the Belt and Road” Digestive Endoscopy International Live Training Course

 **Time:** July, 2024

 **Venue:** Wuhan, Hubei

 **Working Language:** English

Objectives

To help and urge digestive endoscopy moving forward in Africa and Middle east, and introduce Chinese endoscopy technology and products.

Programs

To push digestive endoscopy moving forward in Africa, and help African digestive colleagues master the standard operation of conventional gastroenteroscopy and get familiar with the application and development of therapeutic endoscopy technology through the combination of lectures and operation demonstrations. The teaching content includes the following parts:

- 1.the standard operation of routine gastroscopy and colonoscopy;
2. avoiding missing lesions during endoscopy;
3. technical tips and application of capsule endoscopy;
4. magnifying endoscopic surgery;
5. development and application of laser confocal endoscopy;
6. demonstration of therapeutic endoscopic techniques (including EMR, ESD, endoscopic ultrasound puncture, ERCP and other high-tech level endoscopic surgeries).

Organizer: Wuhan University

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Postcode: 430072

Coordinator: Liu Lan

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发展中国家中医外治技术国际培训班

🕒 **举办时间:** 2024 年 7 月

📍 **举办地点:** 浙江杭州

🗣️ **工作语言:** 英语

培训目的

使发展中国家学员学习和掌握我国传统有效的中医外治理论和实操技术，以及在中医治疗中的应用，为发展中国家培养中高端中医专业技术人才。通过理论学习、临床实践观摩、研讨和实地考察，使各国学员掌握并能运用临床常见内外妇儿疾病的中医外治理论和实操技术，以及养生功方法，让各国学员掌握运用常见中医外治技术的应用方法及强身养身保健技术，为发展中国家提升自身医疗卫生水平提供切实的技术支持。通过举办此次培训班，促进中医药在国际的传播与发展，共同提升发展中国家的中医药临床诊疗与科研能力，为跨地域、跨专业、多学科创新合作提供契机，共同提高我国中医在国际医疗卫生领域的国际影响力与竞争力，进一步提升我国与其他发展中国家的中医药国际合作层次。

培训内容

讲授中医外治技术的发展历史、诊疗特色、常见疗法、基本操作技能与规范等。

1. 了解中医外治理论和技术的发展历史；
2. 掌握中医外治理论和技术；
3. 掌握 20 余种临床常见疾病的中医外治技术理论和操作规范，相应的适应证与禁忌证，养生保健技术：失眠的针灸治疗技术、经皮穴位电刺激治疗肩关节周围炎技术、特发性面神经麻痹的电针治疗策略；热敏灸治疗筋膜疼痛综合征技术；拔罐疗法的临床应用、儿童哮喘的火罐疗法防治技术；颈痛的推拿预防与治疗；银屑病中医治疗、湿疹治疗技术等；易筋经、八段锦、五禽戏等养生功技术；
4. 中医外治疗法的临床实践观摩，直观感受中医的魅力；
5. 参观国家二级博物馆——浙江中医药博物馆，感悟我国中医药文化的魅力。

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International Training Course on TCM External Treatment Techniques for Developing Countries

 **Time:** July, 2024

 **Venue:** Hangzhou, Zhejiang

 **Working Language:** English

Objectives

The international training workshop aims to pass on advanced applicative external treatment technology of TCM and application of medical technology in TCM treatment, and to cultivate middle and high-end professional and technical talents about TCM by introducing the development history, standard therapies, basic skill specification, the prevention and treatment techniques about common diseases by the Chinese medicine health technology. It enables the participants to understand and master the basic ideas to remedy some relevant diseases, as well as providing tangible technical supports to improve health services for developing countries. On the other hand, it can enhance the exchanges and cooperation between China and the other developing countries, and afford an opportunity on cross-regional, cross-professional and multi-disciplinary innovation cooperation. So that we can jointly increase the international influence and competitiveness of traditional medicine in the field of international medical and health care.

Programs

1. To know the development history of external treatment theory and technology about TCM.
2. To master indication, contraindication and be familiar with operation norm of external treatment technology about TCM.
3. To master the TCM external treatment technology of over 20 kinds of common diseases and health care technology, and corresponding indications and contraindications, health care technology: acupuncture treatment technology for insomnia, transcutaneous acupoint electrical stimulation for shoulder peri-arthritis, electroacupuncture treatment strategy for idiopathic facial paralysis; heat sensitive moxibustion treatment of fascial pain syndrome; clinical application of cupping therapy, cupping therapy prevention and treatment technology for children asthma; massage prevention and treatment of neck pain; psoriasis Chinese medicine treatment, eczema treatment technology, etc.; Yi Jin Jing, Baduan Jin, Wuqin play and other health skills.
4. Observe the clinical practice of TCM external therapy, and feel the charm of TCM directly.
5. To visit Zhejiang Museum of Traditional Chinese Medicine, a national second-class museum, and get a sense of Chinese traditional medicine culture.

Organizer: Zhejiang Chinese Medical University

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Zhejiang Province, China

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民族医特色诊疗技术示范与推广国际培训班

🕒 举办时间：2024 年 12 月

📍 举办地点：广西南宁

🗣️ 工作语言：汉语、英语

培训目的

本培训班面向学员介绍壮、瑶等民族医先进适宜技术和民族医治疗的优势病种的特色，并进行应用示范操作。旨在培训民族医技术人员，推广民族医先进适宜技术，为患者提供规范、安全、有效的民族医特色医疗服务。这对推动民族医学先进适宜技术成果的推广普及，提升民族医服务能力，促进民族医药学术发展及弘扬民族优秀传统文化等具有重大的历史、政治和现实意义。

培训内容

1. 人才培养方面：本次培训可为共建“一带一路”国家培养一批社会需要的掌握民族医先进适宜技术推广技术的人才。
2. 学术交流方面：本次培训班为中国与共建“一带一路”国家，进行有效的民族医药交流探索，通过进行有益的探索，促进我国民族医药学术的国际交流。
3. 社会效益方面：壮、瑶等民族医先进适宜技术对民族医治疗的优势病种具有“简、便、廉、验”的四大特点。培训合格后的学员回国后可较短的时间内投入到临床工作中，服务本国患者。

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Training Class on Technology Demonstration and Promotion for Featured Diagnosis and Treatment of Ethnic Medicine

-  **Time:** December, 2024
-  **Venue:** Nanning, Guangxi
-  **Working Language:** Chinese, English

Objectives

The training class aims at improving the clinical service of ethnic medicine, promoting the social harmony and sustainable development, providing the ethnic medical service with high standardization, safety and efficacy to China and ASEAN countries, as well as developing the advanced and technology of ethnic medicine to abroad.

Programs

Contents:

1. Personnel training: The program will train a group of talents needed by society for BRI partner countries to master advanced and appropriate technologies for the promotion of ethnic medicine.
2. Academic communication: The program is for China and BRI partner countries to carry out effective exchanges and exploration of ethnic medicine, promote international exchanges of ethnic medicine in China through beneficial exploration.
3. Social benefits: Advanced and appropriate technologies of Zhuang & Yao medicine and ethnic medicine have characteristics of “simple, convenient, cheap and tested” for the dominant diseases treated by ethnic medicine. After the qualified training, the trainees can be put into clinical work in a short time after returning home, serve the patients in their country.

Organizer: Guangxi International Zhuang Medicine Hospital
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中医药临床实践与研究进展国际培训班

🕒 举办时间：2024年6月

📍 举办地点：斯洛伐克布拉迪斯拉发

🗣️ 工作语言：英语

培训目的

1. 以高水平国际培训项目促进医学整合服务更多民众

斯洛伐克是连接东西欧的重要枢纽，也是共建“一带一路”国家。项目组自2017年培训项目开始与斯洛伐克针灸学会、斯洛伐克国立医科大学及斯洛伐克驻华大使及其夫人建立了良好友谊，本次培训拟在既往交流合作基础上，继续面向中东欧西学中的专家与医生推介中医药在临床、科研与应用中的最新进展，提高中医药在中东欧及欧洲医学界的应用与推广，及与不同医学整合从而服务更多民众。

2. 以高层次中医药国际培训助力国家科技交流战略

中医药作为具有我国原创优势的重要科技资源，国际认可与关注逐渐增多。项目组已通过既往培训班与18个国家的60位高水平、有影响的西医医生建立了稳固联系。本培训班拟在前期基础上“走出去”——开展更高层次的国际培训与科技交流，以斯洛伐克为中心，深入拓展中东欧乃至更多共建“一带一路”国家中医药科技交流与应用，并实地了解中医药发展现状，探索优化中医药国际推广策略，拓展中医药国际交流合作的深度与广度，更好地服务国家科技交流与“一带一路”战略规划。

培训内容

1. 系列讲座

—中医药临床运用与研究

—中医药基础研究与循证医学最新进展

2. 实践操作

—中医诊断与治疗运用与研究进展

—中药及针刺、艾灸等非药物疗法的运用与研究进展

3. 实地参观

—医院与门诊

—中药与中医药相关科技产业

4. 多边研讨

—中医药在世界的发展

—中医药如何更好地服务现代医学及民众

承办单位：中国中医科学院中医临床基础医学研究所

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International Training Course: Development of TCM in Clinical Practice and Research

 **Time:** June, 2024

 **Venue:** Slovakia Bratislava

 **Working Language:** English

Objectives

1. Promote the accessibility of TCM knowledge and skill to enhance public welfare through a high-level international training program

Slovakia is a BRI partner countries linking the Eastern and Western Europe. Close connection with the Slovak Acupuncture Society, the Slovak National Medical University and the Slovak Ambassador to China and his spouse has been built since 2017, and based on previous exchanges and cooperation, the training will continue to facilitate the sharing the latest application, research, and clinical practice of TCM among experts and doctors in CEE countries, to enhance the medical knowledge and skill of TCM within the medical community of CEE countries and Europe, integrate the best of East and West medicine, ultimately benefiting the health of larger population.

2. Promote medical science and technology exchange and integration with high-level TCM International training

TCM, as a representative of original medical science and technology of China, has been applied and concerned with more professionals. Solid contact with 66 influential medical doctors from 18 countries has been established through previous programs. The 2024 program will “go global” on existing foundation, conduct higher-level international training and scientific and technological exchanges in Europe and more BRI partner countries, and on-the-spot investigation will help to optimize the international promotion and international exchange of TCM Science and technology.

Programs

1. Lectures

- The latest advances in clinical application and scientific advancements of TCM
- EBM & Basic research of TCM

2. Workshops

- Application and scientific progress of TCM in diagnosis and treatment
- Acupuncture
- Taichi, Qigong etc.

3. Visits

- Hospitals & Clinics
- TCM Pharmaceutical factories

4. Seminars

- Sharing the development of TCM Around the World
- Discuss the better way to integrate and work with conventional medicine in different countries

Organizer: Institute of Basic Research in Clinical Medicine of
China Academy of Chinese Medical Sciences

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Coordinator: Zhao Jing

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中亚特色天然药物研发技术国际培训班

🕒 举办时间：2024 年 5 月

📍 举办地点：北京

🗣️ 工作语言：汉语、英语

培训目的

举办此次中亚特色天然药物研发技术培训班，旨在培训“一带一路”沿线的中亚五国——哈萨克斯坦、吉尔吉斯斯坦、塔吉克斯坦、乌兹别克斯坦和土库曼斯坦的天然药物研究人员，共同明确天然药物的区域共性难点，促进中亚五国在天然药物研究领域的技术提升及研究开发理念更新，提升中亚各国在天然药物研究中的技术力量与水平，同时通过此次培训班，为中国和中亚各国的天然药物科研人员的交流合作提供更多的空间和可能；同时，推动中国与中亚国家在天然药物领域的科技创新、深度合作、互利共赢及共同发展。

培训内容

从天然药物创新研究的安全有效质量可控的基础要求入手，培训包括以下几部分：

1. 经典天然药物研究范式；
2. 天然药物研究中的民族药物学研究；
3. 天然药物研究中的新型色谱技术方法；
4. 天然药物研究中的结构鉴定技术；
5. 天然药物研究中的质量控制方法；
6. 天然药物研究中的药理学和安全性评价；
7. 天然药物研究中的新技术、新方法和新趋势；
8. 实验一——天然药物研究中的色谱方法；
9. 实验二——天然药物研究中的结构鉴定；
10. 实验三——天然药物研究中的 LC 与 LC/MS 方法。

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International Training Course on R&D Technology of Characteristic Natural Medicines in Central Asian

 **Time:** May, 2024

 **Venue:** Beijing

 **Working Language:** Chinese, English

Objectives

This training course on natural drug research technology in Central Asia was held to train natural drug researchers from the five Central Asian countries along the the Belt and Road: Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan and Turkmenistan, to jointly identify the common difficulties of natural drugs in the region, Promote the technological advancement and updated research and development concepts of the five Central Asian countries in the field of natural drug research, enhance the technical strength and level of Central Asian countries in natural drug research, and provide more space and possibilities for the exchange and cooperation of natural drug researchers from China and Central Asian countries through this training course; Simultaneously promoting technological innovation, deep cooperation, mutual benefit, and common development between China and Central Asian countries in the field of natural drugs.

Programs

Starting from the basic requirements of safe, effective, and controllable quality in innovative research on natural drugs, the training includes the following parts:

1. Research paradigms of classic natural drugs.
2. Ethnic pharmacology research in natural drug research.
3. New chromatographic techniques and methods in natural drug research.
4. Structural identification techniques in natural drug research.
5. Quality control methods in natural drug research.
6. Pharmacology and safety evaluation in natural drug research.
7. New technologies, methods, and trends in natural drug research.
8. Experiment 1: Chromatographic Methods in Natural Drug Research.
9. Experiment 2: Structural Identification in Natural Drug Research.
10. Experiment 3: LC and LC/MS Methods in Natural Drug Research.

Organizer: Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College

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Postcode: 100050

Coordinator: Ji Tengfei

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种质资源分子标记开发及精准鉴定技术国际培训班

🕒 举办时间：2024 年 7 月

📍 举办地点：北京

🗣️ 工作语言：英语

培训目的

1. 培训学员掌握种质资源精准鉴定的方法与技术手段，为协助相关国家开展动植物资源调查及物种、品种的精准鉴定提供人才支撑。
2. 宣传和展示我国在资源学、基因组学、生物信息学等领域取得的成就，分享资源保护与利用的经验。
3. 打造中国与东亚、南亚相关国家开展科技创新与人文交流平台。

培训内容

围绕分子生物学、基因组学、生物信息学的理论及实验技术和数据分析方法开展授课。具体授课内容包括样品采集、形态鉴定、DNA 提取、高通量测序、叶绿体基因组组装、基因组注释、系统发育分析、分子标记开发、重复序列分析、科研论文撰写等多种方法及技术。

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International Training Course on Development of Molecular Markers for Precision Identification of Germplasm Resource

 **Time:** July, 2024

 **Venue:** Beijing

 **Working Language:** English

Objectives

1. To equip trainees with methods and technical means to accurately identify germplasm resources, and provide human resources support to assist relevant countries in conducting surveys of animal and plant resources and the precise identification of species and varieties.
2. To promote and showcase the achievements of China's resource biology, genomics, bioinformatics, and other fields, and share experiences in resource protection and utilization.
3. To build a platform for scientific innovation and cultural exchange between China and related countries in East and South Asia.

Programs

The course will cover theoretical knowledge and experimental techniques in molecular biology, genomics, bioinformatics, and data analysis methods. Specific topics to be covered include sample collection, morphological identification, DNA extraction, high-throughput sequencing, chloroplast genome assembly, genome annotation, phylogenetic analysis, molecular marker development, repetitive sequence analysis, and scientific paper writing and etc.

Organizer: Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences

Address: 151 Malianwa North Road, Haidian District, Beijing, China

Postcode: 100193

Coordinator: Liu Chang

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广西边疆少数民族地区耐药微生物防控技术国际培训班

🕒 **举办时间:** 2024 年 4 月

📍 **举办地点:** 广西百色

🗣️ **工作语言:** 汉语、英语

培训目的

为贯彻实施世界卫生组织《抗微生物药物耐药性全球行动计划》，根据需求开展应用型培训课程。对广西边疆地区及东盟国家的一线医护和科研人员开展耐药微生物防控知识和诊疗技术培训，为提升医护人员和一线科研人员的耐药微生物防控技能奠定基础。

培训内容

微生物耐药现状及耐药发展趋势、抗菌药物分类及耐药机制分析、微生物耐药防控策略及要求、常见细菌耐药控制方法和策略、微生物耐药常见检测方法及具体耐药细菌检测、基层医疗机构细菌耐药检测方法、幽门螺杆菌耐药防控策略、多重耐药菌医院感染防控措施、临床常见革兰阴性菌防控策略、临床常见真菌防控策略(理论)、学员自由谈论环节。

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International Training Course on Prevention and Control of Drug-resistant Microorganisms in Guangxi

 **Time:** April, 2024

 **Venue:** Baise, Guangxi

 **Working Language:** Chinese, English

Objectives

To implement the Global Action Plan on Antimicrobial Resistance(GAP) by WHO, the training will provide the health workers and researchers from the border areas of Guangxi and ASEAN countries with knowledge and technology of drug-resistant microbial prevention and control, which is expected to lay a foundation for further improving their skills in drug-resistant microbial prevention and control.

Programs

The training will mainly cover the following contents: the current situation and development trend of microbial resistance, classification and mechanism analysis of antimicrobial drugs, strategies and requirements for microbial resistance prevention and control, common bacterial resistance control methods and strategies, common detection methods and specific drug-resistant bacterial testing for microbial resistance, testing methods for bacterial resistance in primary medical institutions, prevention and control strategies of *Helicobacter pylori* resistance, prevention and control measures of nosocomial infection of multi-drug resistant bacteria, prevention and control strategies of common clinical Gram-negative bacteria, prevention and control strategies of common clinical fungi (theory), discussion sessions, and training assessments, etc.

Organizer: Youjiang Medical University for Nationalities
Address: No.98 Chengxiang Road, Youjiang District, Baise
City, Guangxi, China
Postcode: 533000

Coordinator: Mo Songyi
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巴基斯坦杂交水稻技术国际培训班

- 🕒 **举办时间:** 2024 年 7 月
- 📍 **举办地点:** 巴基斯坦海得拉巴
- 🗣️ **工作语言:** 英语

培训目的

传授基础实用杂交水稻生产与应用技能，帮助学员全面了解中国杂交水稻技术，初步掌握杂交育种、高产栽培及种子生产技术，帮助巴基斯坦全面提高水稻的产量。

培训内容

项目培训由专题讲座、技术培训和参观实习 3 个部分组成。将聘请湖北省种子集团有限公司、华中农业大学、湖北省农科院的教授专家以及巴基斯坦 PARC 的水稻专家进行讲座和培训。专题讲座主要包括杂交水稻发展概况及前景展望。技术培训将由技术专家授课，培训的主要内容是杂交水稻高产栽培技术、杂交水稻种子生产技术、杂交水稻育种等。培训期间还将安排学员到我国在巴基斯坦的杂交水稻育种试验示范基地考察并进行田间实际操作。

具体教学安排如下：

专题讲座 2 天，技术培训 8 天，参观和实习 5 天。

1. 项目将采取现场讲授和田间参观及实验室参观实习相结合的方式进行培训。
2. 项目将安排专题交流和讨论，使学员能够在有限的时间内获得尽可能多的知识和信息。

承办单位：湖北省种子集团有限公司
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Hybrid Rice Technology International Training Course for Pakistan

 **Time:** July, 2024

 **Venue:** Hyderabad, Pakistan

 **Working Language:** English

Objectives

Helps Pakistan agricultural technicians to learn China hybrid rice technology, understand the cross breeding, the high production cultivation and the seed production technology, helps Pakistan to increase the rice and other crop yield, consolidates and enhances economic cooperation relations between China and Pakistan, to achieve the sustained development and the mutual benefits.

Programs

- 1.General situation and prospect of hybrid rice in China and the world.
- 2.Basic knowledge of hybrid rice breeding.
- 3.Seed production technology of hybrid rice.
- 4.High-yielding cultivation technology.
- 5.Field practice.

Organizer: Hubei Provincial Seed Group Co., Ltd.

Address: 277 Shendun-3rd Road, New Technology Development Zone, East Lake, Wuhan, Hubei, P.R.China

Postcode: 430070

Coordinator: Lu Zhizhong

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E-mail: hbseed@hubeiseed.com

中国重大跨境动物疫病检测技术国际培训班

🕒 举办时间：2024 年 5 月

📍 举办地点：甘肃兰州

🗣️ 工作语言：英语

培训目的

1. 提高口蹄疫、非洲猪瘟、小反刍兽疫、羊痘病和羊肺炎支原体诊断和检测能力；
2. 增强区域联防联控重大跨境动物疫病的能力；
3. 学习借鉴他国经验，促进合作研究。

培训内容

1. 重大跨境动物疫病及其防控概述；
2. 诊断检测实验室质量管理和质量控制；
3. ABSL-3 实验室生物安全管理；
4. 实验室诊断检测样本采集与运送；
5. 口蹄疫流行病学调查与监测；
6. 口蹄疫病原与基因诊断检测技术；
7. 口蹄疫抗体诊断检测技术；
8. 非洲猪瘟流行病学调查与监测；
9. 非洲猪瘟诊断检测技术；
10. 小反刍兽疫流行病学调查与监测；
11. 小反刍兽疫诊断检测技术；
12. 羊痘病诊断检测技术；
13. 羊肺炎支原体诊断检测技术。

承办单位：中国农业科学院兰州兽医研究所
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International Training Course on Major Transboundary Animal Disease Detection Technology in China

 **Time:** August, 2024

 **Venue:** Lanzhou, Gansu

 **Working Language:** English

Objectives

1. To improve the capability of diagnosis and detection of foot-and-mouth disease (FMD), African Swine Fever (ASF), Peste des petits ruminants (PPR), sheep/goat pox diseases and Mycoplasma hyopneumoniae.
2. To strengthen the capability of regional joint prevention and control of major transboundary animal diseases.
3. To learn the experience from other countries and promote international collaboration.

Programs

1. Overview of major transboundary animal diseases and their prevention and control.
2. Quality assurance and quality control of diagnostic laboratory.
3. Biosafety management of laboratory.
4. Collect and transport of international diagnostic specimens.
5. Epidemiological investigation of foot and mouth disease.
6. Pathogen diagnostic techniques of foot and mouth disease.
7. Antibody diagnostic techniques of foot and mouth disease.
8. Epidemiological investigation of ASFV.
9. Diagnosis and detection technology of ASFV.
10. Epidemiological investigation of PPRV.
11. Diagnosis and detection technology of PPRV.
12. Diagnosis and detection technology of sheep pox disease.
13. Diagnosis and detection technology of Mycoplasma hyopneumoniae.

Organizer: Lanzhou Veterinary Research Institute, CAAS

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Postcode: 730046

Coordinator: Wang Shasha

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中亚国家旱区设施农业技术国际培训班

🕒 **举办时间:** 2024 年 10 月

📍 **举办地点:** 陕西杨凌

🗣️ **工作语言:** 俄语

培训目的

1. 通过培训向中亚五国介绍一批实用设施农业技术和适合相关国家设施农业产业发展的新模式，助力相关国家农业结构调整和产业升级、农民增收致富，形成良好的示范效应。

2. 通过培训与中亚五国相关部门建立稳定合作关系，汇集各方农业合作资源，共享发展经验，加强在农业领域的优势互补，深化与有关国家在农业科研、人才交流等领域合作。

3. 搭建交流合作平台。通过培训搭建技术合作平台、产业合作平台，推动涉农企业在中亚五国投资兴业，促进与相关国家在设施农业、农机装备制造等领域合作。

培训内容

1. 农业设施的类型与产业应用；
2. 简易覆盖栽培设施的类型与应用；
3. 增温加温型农业设施的类型与应用；
4. 农业设施环境温光性能与调控技术；
5. 农业设施环境湿度和气体特点与调控技术；
6. 农业设施土壤和有害生物环境特点与调控技术；
7. 土壤培肥与耕作技术；
8. 果树作物生产中的环境调控；
9. 农业生产中的环境保护；
10. 荒漠化防治与水土保持。

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International Training on Arid Zone Facility Agriculture Technology for Central Asian Countries

 **Time:** October, 2024

 **Venue:** Yangling, Shaanxi

 **Working Language:** Russian

Objectives

1. Through the training, introduce practical facility agriculture technologies and new models suitable for the development of facility agriculture industry in the five Central Asian countries, thereby assisting in the adjustment of agricultural structure, upgrading of the industry, increasing farmers' income, and creating a positive demonstration effect.
2. Establish stable cooperation relationships with relevant departments in the five Central Asian countries, gather agricultural cooperation resources from all parties, share development experiences, strengthen complementary advantages in the field of agriculture, and deepen cooperation with relevant countries in areas such as agricultural research and talent exchange.
3. Build a platform for exchange and cooperation. Through the training, create technical cooperation platforms and industrial cooperation platforms, promote agricultural enterprises' investments and operations in the five Central Asian countries, and facilitate cooperation with relevant countries in areas such as facility agriculture and agricultural machinery and equipment manufacturing.

Programs

1. Types and industrial applications of agricultural facilities.
2. Types and applications of simple covered cultivation facilities.
3. Types and applications of heating and warming agricultural facilities.
4. Environmental temperature and light performance of agricultural facilities and regulation techniques.
5. Environmental humidity and gas characteristics of agricultural facilities and regulation techniques.
6. Soil and harmful biological environmental characteristics of agricultural facilities and regulation techniques.
7. Soil fertilization and cultivation techniques.
8. Environmental control in fruit crop production.
9. Environmental protection in agricultural production.
10. Desertification prevention and soil conservation.

Organizer: Yangling International Exchange Center of Agricultural High-tech Industry Demonstration Zone

Address: Room 428, Government Building, No. 6 Xinqiao North Road, Yangling Demonstration Zone, Shaanxi, China

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Coordinator: Li Na

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农业机械综合实用技术国际培训班

🕒 举办时间：2024 年 5 月

📍 举办地点：山东济南

🗣️ 工作语言：英语

培训目的

通过举办农业机械综合实用技术国际培训班，使学员了解中国农机产业现状和发展趋势，了解农业机械产业政策法规与标准体系，学习中国农业机械实用技术，实地考察山东农业产业化基地和农机制造企业。

培训内容

1. 我国农业装备制造业的基本现状；
2. 中国农机标准体系建设；
3. 发展中国家农业机械概况；
4. 农业机械化新技术的发展与展望；
5. 果园智能化生产关键技术与装备；
6. 中国主要粮食施肥技术；
7. 农作物收获综合实用技术；
8. 肥水一体化技术推广与发展；
9. 国内外植保机械的研究进展及应用水平；
10. 数字图像处理技术在农业上的应用；
11. 农业机器人技术；
12. 实地考察农机制造企业；
13. 组织技术和经贸洽谈。

承办单位：山东省农业机械科学研究院

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International Training Courses on Comprehensive and Practical Technique of Agricultural Machinery

 **Time:** May, 2024

 **Venue:** Jinan, Shandong

 **Working Language:** English

Objectives

By this training, let the trainees know about the present status and developing trend of agricultural machinery industry in China, as well as the Chinese industrial policy, regulations and standard system in this trade, learn practical technology of agricultural machinery in China, investigate Shandong agricultural industrial base and agricultural machinery manufacturing enterprises.

Programs

1. Present status and developing trend of agricultural machinery industry in China.
2. Standard system construction of agricultural machinery in China.
3. Overview of agricultural machinery in developing countries.
4. Development and prospect on new technology of agricultural mechanization.
5. Key technologies and equipment for intelligent production in orchards.
6. Technique of fertilization for the main grain crops in China.
7. Comprehensive practical technique of crop harvest.
8. Promotion and development of integration of water and fertilizer technology.
9. Research progress and application level of plant protection machinery at home and abroad.
10. Application of digital image processing technique in agriculture.
11. Agricultural robot technology.
12. Field investigation of agricultural machine manufacturing enterprises.
13. Organize technique and trade negotiation.

Organizer: Shandong Academy of Agricultural Machinery Sciences

Address: No.19 Sangyuan Road, Jinan, Shandong, China

Postcode: 250100

Coordinator: Yang Huawei

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食药用菌生产技术国际培训班

🕒 举办时间：2024 年 10 月

📍 举办地点：上海

🗣️ 工作语言：英语

培训目的

通过本项目的实施，给发展中国家开展各自特色食药用菌生产以启示，通过技术培训和实地的参观考察，了解因地制宜进行食药用菌生产的模式，树立因地制宜发展当地特色食药用菌生产的理念，同时对有基础有意愿发展食药用菌产业的国家提供技术输出及技术支撑。

培训内容

1. 理论授课

- ① 食用菌生物学及我国食用菌生产发展概况；
- ② 食用菌遗传育种基础知识；
- ③ 我国木腐食用菌和草腐食用菌的主要栽培方法；
- ④ 食药用菌的功能介绍和产品开发；
- ⑤ 珍稀食用菌栽培方法；
- ⑥ 食用菌病虫害防治。

2. 参观与实践

- ① 食用菌种植流程，包括堆肥制备、混合、灌装、灭菌、接种以及相关设备的使用；
- ② 草菇的栽培；
- ③ 参观食用菌农户和食用菌工厂。

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International Training Workshop on Edible & Medicinal Mushroom Production Technology

 **Time:** October, 2024

 **Venue:** Shanghai

 **Working Language:** English

Objectives

This course provides inspiration for developing countries to develop their own production of edible and medicinal mushrooms. Through technical training and visits, this course helps participants to understand the mode of producing edible and medicinal mushrooms and establish the concept of developing local characteristic edible and medicinal mushroom production. This course provides technical output and support to countries with a foundation and willingness to develop the edible and medicinal mushroom industry.

Programs

1. Theoretical Lectures

- ① General introduction on mushroom biology and development of mushroom production in China.
- ② Basic knowledge of mushroom genetic and breeding.
- ③ Major methods for cultivation of wood-rot and straw-rot mushrooms in China.
- ④ Introduction of various functions of edible & medicinal mushrooms and development of products.
- ⑤ Rare mushroom cultivation.
- ⑥ Prevention and control of mushroom diseases and pests.

2. Practice and Visit

- ① General processes of mushroom cultivation, including compost preparation, mixing, filling, sterilization, inoculation, and the use of relevant equipment.
- ② Cultivation of *Volvariella volvacea*.
- ③ Visiting mushroom farm and mushroom factory.

Organizer: Institute of Edible Fungi, Shanghai Academy of Agricultural Sciences

Address: No. 1000, Jinqi Road, Fengxian District, Shanghai, China

Postcode: 201403

Coordinator: Mao Wenjun

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中国—东盟跨境动物疫病防控技术国际培训班

🕒 举办时间：2023 年 9 月

📍 举办地点：广西南宁

🗣️ 工作语言：英语

培训目的

使东南亚国家培训技术人员能够掌握先进的动物疫病快速检测诊断技术，并能够熟练应用这些先进技术进行动物疫病快速检测诊断；提高东南亚国家兽医技术人员的动物疫病防控技术水平，为有效防控动物疫病的发生、传播和流行及在跨国之间传播发挥积极作用；推动中国与东南亚国家在预防动物疫病方面的科技合作与交流，达到有效防控动物疫病的目的，确保中国与东南亚国家的畜牧业可持续健康发展和公共卫生安全。

培训内容

1. 跨境动物疫病流行的特点及其综合防控技术概述；
2. 当前跨境动物疫病诊断技术概述；
3. 东南亚国家跨境动物疫病防控现状、存在的问题和技术需求概述；
4. 样品的采集及处理；
5. 聚合酶链反应 PCR 技术和荧光定量 PCR 检测技术；
6. 环介导等温可视化 LAMP 检测技术；
7. 高通量 GeXP 快速检测鉴别技术；
8. 禽流感 HA 和 HI 技术；
9. 酶联免疫 ELISA 检测技术；
10. 细胞培养及病原分离技术。

承办单位：广西壮族自治区兽医研究所

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China-ASEAN International Training Workshop on Prevention and Control Technology of Cross-b

 **Time:** September, 2023

 **Venue:** Nanning, Guangxi

 **Working Language:** English

Objectives

The first aim of this training course is to train technicians from asean countries to be able to master advanced rapid detection technologies and diagnosis technologies for animal diseases, and be able to apply proficiently these advanced technologies. And to improve the level of animal disease prevention and control of veterinary technicians in asean countries, and play a positive role in effectively preventing and controlling the occurrence, transmission and prevalence of animal diseases as well as cross-border transmission. And finally to promote scientific and technological cooperation and exchanges between China and asean countries in the field of animal diseases prevention, achieve the goal of effective prevention and control of animal diseases, and ensure the sustainable and healthy development of animal husbandry and public health security between the China and asean countries area.

Programs

1. The overview of epidemiological characteristics of cross-border animal diseases and comprehensive prevention and control techniques.
2. The introduction of the latest diagnostic techniques for cross-border animal diseases.
3. The overview of the current situation, problems and technical requirements of cross-border animal disease prevention and control in asean countries.
4. Sample collection and processing.
5. Polymerase chain reaction (PCR) and real-time quantitative (RT-PCR) assay.
6. Loop-mediated isothermal amplification (LAMP) technology.
7. Rapid and high-throughput GenomeLab Gene Expression Profiler (GeXP) analyzer-based multiplex PCR assay.
8. HA and HI test for avian influenza.
9. Serum collection and ELISA test.
10. Cell culture and pathogen isolation techniques.

Organizer: Guangxi Veterinary Research Institute
Address: No. 51, Youai North Road, Nanning, Guangxi, China
Postcode: 530001
Coordinator: Fan Qing

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马属动物高效饲养与繁育技术国际培训班

🕒 举办时间：2024 年 7 月

📍 举办地点：山东聊城

🗣️ 工作语言：英语、古语

培训目的

本次培训班通过介绍中国马饲养管理与繁殖技术水平、马场管理和应用推广经验，旨在有效提升蒙古国在马的发情鉴定、人工授精、胚胎移植等繁殖技术方面的理论及技术应用水平；同时加强我国与蒙古国在马属动物高效饲养与繁育研究和生产领域的合作与交流；实践国家“一带一路”倡议，为中蒙两国关系发展营造良好的民意基础。

培训内容

1. 介绍中国马产业发展现状及中国马场管理经验；
2. 定期排卵与同期发情技术；
3. 发情鉴定及辅助仪器检查（B 超）技术；
4. 发情、输精及精液品质检查实操；
5. 采精技术、精液品质鉴定与保存；
6. 人工授精技术理论；
7. 胚胎发育及早期妊娠 B 超诊断技术；
8. 胚胎移植技术理论讲解；
9. 马驹护理、马挤奶及马奶质量控制技术；
10. 马奶高产的饲养管理技术；
11. 饲草料选择及配制放牧技术；
12. 马营养饲养技术及现场考察，学员分组交流、讨论；
13. 聊城鑫鹏集团马饲养技术现场教学；
14. 科技交流与蒙古国马养殖、繁殖现状交流；
15. 举办第二届“马科学”国际论坛。

承办单位：聊城大学

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International Training Workshop on Efficient Rearing and Breeding Techniques for Equine

 **Time:** July, 2024

 **Venue:** Liaocheng, Shandong

 **Working Language:** English, Mongolian

Objectives

The purpose of this training workshop is to effectively improve the theoretical and technical application level of equine estrus identification, artificial insemination, embryo transfer and other reproductive technologies in Mongolia. by introducing the rearing and breeding techniques of Chinese horse, as well as the experience of horse farm management and application promotion Meanwhile, we will strengthen the cooperation and exchanges between China and Mongolia in the research and industry of efficient rearing and breeding of equine, and practice the national initiative “Belt and Road” to create a good foundation for the development of Sino-Mongolian relations.

Programs

1. Introduction to the development status of Chinese horse industry and the management experience of Chinese horse farms.
2. Regular ovulation and synchronous estrus technology.
3. Estrus identification and auxiliary instrument examination (B-ultrasound) technology.
4. Practical operation of estrus, transfusion, and semen quality inspection.
5. Semen collection, quality identification and preservation.
6. Theoretical teaching of artificial insemination technology.
7. Embryo development and B-ultrasound identification technology of early pregnancy.
8. Theoretical teaching of embryo transfer technology.
9. Horse foal care, horse milking, and horse milk quality control technology.
10. Feeding and management technology for high yield horse milk.
11. Selection and preparation grazing technology of forage.
12. Nutrition and feeding technique for horse and site visit, group communication and discussion.
13. On site teaching of horse feeding techniques in Liaocheng Xinpeng Co., Ltd..
14. Technological exchanges about current situation of horse feeding and reproduction in Mongolia.
15. Symposium on the 2nd International Forum on Equine Science.

Organizer: Liaocheng University

Address: No.1 Hunan Road, Dongchangfu District, Liaocheng,
Shandong, China

Postcode: 252000

Coordinator: Jin Yaqian

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丝路国家海水养殖技术国际培训班

🕒 **举办时间：**2024 年 10 月

📍 **举办地点：**山东青岛

🗣️ **工作语言：**英语

培训目的

本培训班面向联合国粮食及农业组织（FAO）蓝色转型重大战略需求，旨在分享我国水产养殖先进科技，为共建“一带一路”国家培养海水养殖高端专业人才，推动其海水养殖产业的可持续发展，促进区域蓝色经济转型升级，助力实现消除饥饿、粮食不安全和一切形式营养不良等联合国可持续发展目标，推动构建更为紧密的人类命运共同体

培训内容

1. 海水养殖规模化繁育理论与技术；
2. 海水养殖遗传育种理论与技术；
3. 海水养殖生产新模式与新技术；
4. 海水养殖病害诊断与综合防控技术；
5. 海水养殖营养调控与饲料投喂技术；
6. 海水养殖产品加工利用实用技术。

承办单位：中国水产科学研究院黄海水产研究所

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“Belt and Road” International Training Workshop on Mariculture Technologies

 **Time:** October, 2024

 **Venue:** Qingdao, Shandong

 **Working Language:** English

Objectives

The training workshop targets towards the Blue Transformation which is a major strategic need of the Food and Agriculture Organization of the United Nations (FAO). The training workshop aims to share China’s advanced mariculture technologies, train high-end mariculture professionals for BRI partner countries, and promote the sustainable development of their mariculture industries. The training course also aims to facilitate the transformation and upgrading of the regional blue economy, accelerate the SDG implementation such as eradicating hunger, ensuring food insecurity and addressing all forms of malnutrition, and promote the building of a community of shared future for mankind.

Programs

Content of Training

1. Theories and Technologies for Large-scale Breeding.
2. Theories and Technologies for Genetic Breeding of Mariculture Animals.
3. Mariculture New Models and Techniques.
4. Mariculture Disease Control and Prevention.
5. Nutrition and Feed Technologies for Mariculture Animals.
6. Processing Technologies for Mariculture Products.

Organizer: Yellow Sea Fisheries Research Institute, Chinese
Academy of Fishery Sciences

Address: No.106, Nanjing Road, Qingdao, Shandong, China

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Coordinator: Sun Danning

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粮食安全生产技术国际培训班

🕒 举办时间：2024 年 8 月

📍 举办地点：辽宁沈阳

🗣️ 工作语言：英语

培训目的

介绍中国农业，特别是北方主要农作物栽培与育种方面的最新研究成果和先进实用技术，促进水稻、玉米高产优质高效等生产技术在发展中国家的推广和应用。提高共建“一带一路”国家粮食生产能力，增加农村居民收入，促进脱贫减贫，促进农业资源可持续利用和社会经济可持续发展，促进中国农业生产技术的国际合作与交流。

培训内容

1. 水稻高产优质生产技术；
2. 玉米超高产栽培技术；
3. 大豆杂交制种技术；
4. 油料作物高产优质生产技术；
5. 特种作物高产优质生产技术；
6. 农药安全使用技术；
7. 品种纯度分子标记鉴定技术；
8. 稻田共生共养技术；
9. 玉米杂交制种技术；
10. 杂交水稻制种技术；
11. 作物间套复种高效生产技术；
12. 应对气候变化的适应技术；
13. 作物组培技术；
14. 目前生物病虫害发展与状况；
15. 生物防治病虫害技术的研究与发展；
16. 生物防治病虫害技术应用；
17. 土壤质量与粮食安全；
18. 高标准农田建设技术；
19. 作物种子田间纯度鉴定技术（实验）；
20. 品种纯度电泳鉴定技术（实验）。

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International Training Workshop on Safe Production of Grain

 **Time:** August, 2024

 **Venue:** Shenyang, Liaoning

 **Working Language:** English

Objectives

This training course mainly introduces the latest research results and advanced operative technology of northern primary crops especially in cultivating and breeding, promotes popularization and application of high-yield, fine quality, and highly active of rice and maize in developing countries, especially in the BRI partner countries. This course is to increase crop-producing ability of developing countries, raises urban residents' income and reduces impoverishment, promotes agriculture resources sustainable utilization, social economy sustainable development and international cooperation and exchange of agriculture producing technology of China.

Programs

1. Rice production for high yield and quality.
2. Maize super high yield cultivation technology.
3. Hybrid soybean seed production technique.
4. Oil crops production for high yield and quality.
5. High yielding special crop production technique.
6. Pesticide safety use technique.
7. Molecular marker Identification technology of variety purity.
8. Symbiotic production technique in paddy field.
9. Hybrid maize seed production technique.
10. Hybrid rice seed production technique.
11. Efficient production technology of intercropping cropping.
12. Adaptation technologies for climate change.
13. Crop tissue culture technology.
14. Current development and status of biological pests and diseases.
15. Research and development of biological pest control technology.
16. Application of biological pest control technology.
17. Soil quality and food production.
18. High standard farmland construction technology.
19. Field purity Identification Technique of Crop Seed (Experiment).
20. Electrophoretic Identification of variety purity (Experiment).

Organizer: Shenyang Agricultural University

Address: No.120, Dongling Road, Shenhe District, Shenyang, China

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Coordinator: Wang Qi

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中亚国家棉花生产管理国际培训班

🕒 **举办时间：**2024 年 5 月

📍 **举办地点：**河南安阳

🗣️ **工作语言：**俄语

培训目的

2023 年中亚国家棉花生产管理国际培训班将于 2024 年 5 月 16—30 日在安阳举行，通过培训，学员可获得以下益处：

1. 掌握棉花生产安全保障体系、棉花储藏体系等棉花相关体系；
2. 掌握中国棉花生产储备制度与政策、棉花进出口政策等政策；
3. 了解棉花农业机械、农化等相关专题技术；
4. 回国后能将所学技术运用到工作中，进行实地生产推广，帮助提高学员所在国棉花生产水平，增加棉花产量。

培训内容

培训采用课堂理论讲授与实践参观、考察相结合的形式，通过培训项目的实施，乌兹别克斯坦、塔吉克斯坦等中亚国家来华学员能充分了解世界与中国棉花产业发展的历史和现状，掌握棉花的种植过程；掌握主要棉花品种的繁育、田间管理、农业机械、土壤肥料、病虫害控制等关键技术；了解从植棉到纺织服装的棉花全产业链的经营与管理。为了使学员更好地掌握粮棉安全问题，除理论授课外，我们将组织学员参观和考察先进的农业企业、农业科研院所，以及研发、生产示范基地，与当地专家进行座谈交流。培训期间，还将安排中国文化体验等相关活动，丰富学员培训生活。

承办单位：中国农业科学院棉花研究所

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International Training Course on Cotton Production Management for Central Asian Countries

 **Time:** May, 2024

 **Venue:** Anyang, Henan

 **Working Language:** Russian

Objectives

The International Training course on Cotton Production Management for Central Asian Countries will be held in Anyang from May 16 to May 30, 2024. Through the training, participants can gain the following benefits:

1. master the cotton production safety and security system, cotton storage system and other cotton-related systems.
2. master China's cotton production reserve system and policy, cotton import and export policy and other policies.
3. understand cotton agricultural machinery, agrochemicals and other related topics and technologies.
4. Apply the techniques they have learnt to their work in their home countries and carry out field production and promotion to help improve cotton production in their countries and increase cotton production.

Programs

The training combines classroom theoretical lectures with practical visits and inspections. Through the implementation of the training programme, trainees from Uzbekistan, Tajikistan and other Central Asian countries will be able to fully understand the history and current situation of the development of the cotton industry in the world and China, and master the process of cotton cultivation; master the breeding of major cotton varieties, field management, agricultural machinery, soil fertiliser, pest and disease control and other key technologies; understand the operation and management of the whole cotton industry chain from Cotton Planting to Textile and Clothing. In order to give participants a better grasp of food and cotton safety issues, In addition to theoretical lectures, we will organise visits to advanced agricultural enterprises, agricultural research institutes and R & D and production demonstration bases, as well as seminars and exchanges with local experts, During the training period, Chinese cultural experiences and other related activities will be arranged to enrich the training life of the participants.

Organizer: Institute of Cotton Research of CAAS

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Postcode: 455000

Coordinator: Wang Lizhi

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林木遗传育种理论与技术国际培训班——以鹅掌楸和香樟为例

🕒 举办时间：2024 年 10 月

📍 举办地点：江西南昌

🗨️ 工作语言：英语

培训目的

为发展中国家培训林木新品种新技术专业技术人才，帮助学员掌握林木种质资源收集、优良性状遗传改良、造林等关键技术，促进发展中国家林业科技和林业产业的发展；通过进一步交流合作，实现与发展中国家的资源共享，达到互惠双赢的目的。

培训内容

培训内容包括：

1. 中国林业政策理论与实践；
2. 林业育种基本策略和方法；
3. 鹅掌楸育苗和造林技术；
4. 林木分子生物学技术、鹅掌楸和香樟分子生物学进展；
5. 香樟种质资源和优良化学类型筛选；
6. 鹅掌楸、香樟种质资源及其创新利用；
7. 樟科植物化学类型筛选与利用；
8. 林木组织培养技术；
9. 中国林下经济发展现状与对策；
10. 参观野外试验基地、实验室等。

承办单位：江西省科学院生物资源研究所
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International Training Course on Forest Genetic Breeding Theory and Technology with *Liriodendron* and *Cinnamomum* as Examples

 **Time:** October, 2024

 **Venue:** Nanchang, Jiangxi

 **Working Language:** English

Objectives

This workshop is aimed at training professional and technical personnel on forestry new varieties and technologies for developing countries, to help them promote forestry new varieties and technologies science and industry. Especially we hope to improve the trainees' capacity of germplasm collection, genetic breeding of desirable qualities, afforestation and other related technologies. And through further exchanges and cooperation, to achieve the mutual benefit and an all-win result, we want to share the forest resources with developing countries.

Programs

1. Theory and Practice of China's Forestry Policy.
2. Fundamental Strategies and Methods of Forestry Breeding.
3. Seedling Cultivation and Afforestation Techniques of *Liriodendron*.
4. Forest Molecular Biology Techniques, Advances in Molecular Biology of *Liriodendron* and *Cinnamomum*.
5. *Cinnamomum* Germplasm Resources and Screening of Fine Chemical Type.
6. Innovation and Utilization of *Liriodendron* and *Cinnamomum* Germplasm Resources.
7. Screening and Utilization of *Cinnamomum* Chemical Types.
8. Tree Tissue Cultures Technology.
9. Development status and counter measures of under-forest economy in China.
10. Visits to field experimental bases and laboratories.

Organizer: Institute of Biological Resources, Jiangxi Academy of Sciences

Address: No.777, Changdong Avenue, Nanchang, Jiangxi, China

Postcode: 330096

Coordinator: Chen Caihui

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东帝汶农业生产技术国际培训班

🕒 **举办时间：**2024 年 4 月

📍 **举办地点：**东帝汶

🗣️ **工作语言：**英语

培训目的

1. 为东帝汶培养更多水稻、玉米生产专业技术人才；
2. 通过此次培训，帮助东帝汶扩大杂交水稻、玉米的推广面积，提高农业产量；
3. 通过此次培训，促进中东两国在农业领域更深层次的合作，增进两国人民的友谊；
4. 提升东帝汶农业管理人员的农业生产及科学管理水平；
5. 加强与共建“一带一路”国家在农业方面的合作，共同为促进世界粮食安全做贡献。

培训内容

1. 专业技术知识讲授，主要包括：杂交水稻及玉米的发展概况、杂交水稻及玉米高产栽培技术、杂交水稻及玉米病虫害防治技术、杂交水稻及玉米的产后加工技术、杂交水稻及玉米的推广应用技术等。
2. 田间技术实习及参观考察，主要包括：参观制种技术田、杂交水稻、玉米高产示范基地等。
3. 交流研讨，主要包括：与学员讨论适应其本国农业生产特点的水稻、玉米技术等生产及农业发展经验。

承办单位：湖南杂交水稻研究中心

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International Training Course on Agricultural Production Technology for East Timor

 **Time:** April, 2024

 **Venue:** East Timor

 **Working Language:** English

Objectives

1. To cultivate more professional and technical talents in rice and corn production for East Timor.
2. Through this training, we will help Timor Leste to increase the promotion area of Hybrid rice and corn and increase agricultural output.
3. Through this training, we aim to promote deeper cooperation between the two Middle Eastern countries in the field of agriculture and increase the friendship between the two peoples.
4. Enhance the agricultural production and scientific management level of agricultural management personnel in East Timor.
5. Strengthen cooperation with BRI partner countries in agriculture and jointly contribute to promoting world food security.

Programs

1. Teaching professional technical knowledge, the main contents include: development overview of Hybrid rice and maize, high-yield cultivation technology of Hybrid rice and maize, Pest control technology of Hybrid rice and maize, post production processing technology of Hybrid rice and maize, promotion and application technology of Hybrid rice and maize, etc.
2. Field internship and visit inspection, the main contents include: visiting seed production technology fields, Hybrid rice, corn high-yield demonstration bases, etc.
3. Exchange and discussion, the main content includes: discussing with students the production and agricultural development experience of adapting to their own agricultural production characteristics, such as rice and corn technology.

Organizer: Hunan Hybrid Rice Research Center
Address: No.736, Yuan Da 2 Road, Furong Distric, Changsha,
Hunan, China
Postcode: 410125

Coordinator: Wei Ran
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猕猴桃产业技术国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：四川成都

🗣️ 工作语言：英语

培训目的

培训依托中新猕猴桃“一带一路”联合实验室平台，采用专家讲座、实验操作、实地实践、实地考察等教学方式，学习交流猕猴桃新品种选育、田间管理、采后贮藏加工等行业技术方法；助力中国猕猴桃产业技术成果对外共享，进一步促进发展中国家科技发展，带动当地猕猴桃产业发展，同时为探索中国优良品种及其配套技术输出积累更多经验。

培训内容

1. 理论教学：猕猴桃产业的起源与发展；猕猴桃优良品种介绍及其育种方法；猕猴桃周年管理技术培训；猕猴桃重大病虫害理论及综合防治技术；猕猴桃产业深加工现状及发展趋势；
2. 实验教学：猕猴桃不同品种果实品鉴与品质分析；猕猴桃主要病虫害调查与观察；组织培养技术；
3. 田间实践：猕猴桃采后和果园管理的田间实践；
4. 参观考察：参观商品化猕猴桃果园，考察猕猴桃采摘分选线及采后冷藏库等。

承办单位：四川省自然资源科学研究院

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International Training Workshop on Kiwifruit Production

 **Time:** June, 2024

 **Venue:** Chengdu, Sichuan

 **Working Language:** English

Objectives

Relying on the platform of the China-New Zealand Kiwifruit “Belt and Road” Joint Laboratory, the training program will adopt teaching methods like expert lectures, experimental operations, field practice as well as visits to learn and exchange technologies and methods of new variety selection and breeding, field management, post-harvest storage and processing in the kiwifruit industry, so as to realize the goal of making the technological achievements of China’s kiwifruit industry shared abroad, further promote the scientific and technological development of developing countries, drive the development of the local kiwifruit industry, at the same time, accumulate more experience for exploring the path of exporting China’s excellent crop varieties as well as its supporting technologies.

Programs

1. Theories Teaching: The origin and development of the kiwifruit industry; Introduction of excellent varieties of kiwifruit and its breeding methods; Technical training on kiwifruit annual management; Theories of major diseases and pests and Comprehensive prevention and control technology of kiwifruit; Current situation and the trend of deep processing in kiwifruit industry.
2. Operating Teaching: Fruit tasting and quality analysis among different kiwifruit varieties; Investigation and observation on major diseases and pests of kiwifruit; Tissue culture technology.
3. Field Practice: Field practice of kiwifruit picking and kiwifruit orchard management.
4. Visits and Study Tour: Visiting the commercialized kiwifruit orchard to study the fruit selection and sorting and the post-harvest cold storage.

Organizer: Sichuan Provincial Academy of Natural Resource Sciences
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Coordinator: Zhang Qian

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“科创中国”中国—塞内加尔花生全产业链国际培训班

🕒 举办时间：2024 年 7 月

📍 举办地点：山东青岛

🗣️ 工作语言：英语、法语

培训目的

将中国先进的优良品种、栽培技术、农业机械及产后加工技术引入塞内加尔，提升塞内加尔花生种植户的栽培技术水平，提高塞内加尔花生单产水平，帮助塞内加尔提高花生种植效益；促进中-塞花生产业对接，加强产业协同配合，助力塞内加尔花生产业提质增效、中国花生产业的高质量发展。

培训内容

国际花生产业发展现状及趋势、中国农耕文化、中国农业发展与政策、中国花生产业发展现状及管理模式、全球农产品贸易与食品安全、中国农产品产业链现状及展望、中国花生新品种培育、栽培及加工技术、播种与田间管理机械化等。

承办单位：山东省花生研究所

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“Innovation China” China-Senegal Peanut Full Industry Chain International Training Course

 **Time:** July, 2024

 **Venue:** Qingdao, Shandong

 **Working Language:** English, French

Objectives

To introduce the advanced varieties, cultivation techniques, agricultural machinery and postpartum processing techniques into Senegal to improve the cultivation techniques of peanut farmers in Senegal, improve the per unit area yield of peanut, and help Senegal to improve the efficiency of peanut planting. To promote the docking of the peanut industry between China and Senegal, increase industrial collaboration, and help improve the quality and efficiency of Senegal's peanut industry, as well as the high-quality development of China's peanut industry.

Programs

International peanut industry development present situation and trend, China's farming culture, China's agricultural development and policy, the development of Chinese peanut industry present situation and the management pattern, the global trade of agricultural products and food security, China's status and prospects of the industry chain of agricultural products, Chinese peanut breeding, cultivation and processing technology, mechanization of sowing and field management, etc.

Organizer: Shandong Peanut Research Institute

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Postcode: 266100

Coordinator: Yang Zhen

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中老茶树种质资源国际培训班

🕒 举办时间：2024 年 1 月

📍 举办地点：云南普洱

🗣️ 工作语言：英语

培训目的

茶树种质资源是生产利用、品种创新和生物技术研究的基础。依托云南省中老茶树资源数字化保护和种质创新应用国际联合实验室，中老两国联合开展茶树种质资源调查，对丰富茶树资源的遗传多样性、培育具有自主知识产权的茶树新品种及促进茶产业可持续发展，具有重要意义。

培训内容

中老两国的茶树种质资源的调查内容和方法，具体包括考察收集、保存编目、鉴定评价、分子标记、遗传稳定性等。

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International Training Course on Tea Germplasm in China and Laos

 **Time:** January, 2024

 **Venue:** Pu'er, Yunnan

 **Working Language:** English

Objectives

Tea germplasms are the foundation for production and utilization, variety innovation, and biotechnology research. Relying on the International Joint Laboratory of Digital Protection and Germplasm Innovation and Application of Tea Tree Resources in China and Laos in Yunnan Province, the joint investigation of tea germplasm between China and Laos is of great significance for enriching the genetic diversity of tea resources, cultivating new tea varieties with independent intellectual property rights, and promoting the sustainable development of the tea industry.

Programs

The training content and methods of tea germplasm in China and Laos include inspection and collection, preservation and cataloging, identification and evaluation, molecular markers, genetic stability, etc.

Organizer: Pu'er University

Address: No. 6, Xueyuan Road, Pu'er, Yunnan, China

Postcode: 665000

Coordinator: Dong Yajie

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垃圾焚烧发电技术国际培训班

🕒 举办时间：2024 年 10 月

📍 举办地点：浙江杭州

🗣️ 工作语言：英语

培训目的

介绍中国生活垃圾焚烧发电的发展历程、技术水平、运行管理和应用推广经验，增加对学员所在国家垃圾处理处置现状的认识，促进中国垃圾焚烧发电先进技术和管理的推广与应用。致力于解决众多发展中国家共同面临的“垃圾围城”困境，提供绿色电力能源，保障学员所在国的城镇化可持续发展，提高居民生活品质。促进发展中国家在垃圾资源化利用方面的科研水平提升，培养专业技术人才，发展中国家之间建立长期、稳定、紧密的科技合作关系，促进中国垃圾资源化利用技术与发展中国家的国际合作及交流，增进相互了解。

培训内容

1. 中国垃圾特性和处置现状及中国垃圾管理经验；
2. 垃圾焚烧技术及政策导则；
3. 垃圾热解和气化技术；
4. 垃圾焚烧污染物排放控制技术；
5. 垃圾资源化回收和中国 / 欧洲经验；
6. 垃圾焚烧发电碳排放核算与管理；
7. 垃圾焚烧炉设计原则及制造工艺；
8. 垃圾焚烧飞灰处置和二噁英控制技术；
9. 垃圾焚烧发电厂建设邻避效应破解；
10. 垃圾焚烧发电 PPP 投资建设案例分析；
11. 垃圾焚烧电厂参观；
12. 垃圾焚烧发电厂运行实操技术；
13. 垃圾焚烧发电核心技术企业 R & D 模式；
14. 学员工作展示和所在国垃圾焚烧市场现状交流；
15. 举办第 6 届“垃圾焚烧发电技术助力城市可持续发展”国际论坛。

承办单位：浙江大学

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International Training Workshop of Waste to Energy

 **Time:** October, 2024

 **Venue:** Hangzhou, Zhejiang

 **Working Language:** English

Objectives

The workshop aims to promote the popularization and application of the best available technologies for waste management and waste to energy in developing countries and provide an introduction to the development history, technical level, operation management, and application experience of waste to energy in China. We are dedicated to supporting the sustainable development of urbanization in developing countries, resolving the “waste siege” problem faced by several developing countries, and enhancing the quality of life for locals.

Also, the workshop would promote international cooperation and exchange between China and developing countries on waste-to-energy technology; Expand the influence of China’s innovative resources abroad, improve people’s quality of life; Develop professional and technical talents; Establish long-term, stable, and close scientific and technological cooperation relationships with developing countries, promoting the understanding among China and outside.

Programs

1. Waste characteristics, and management status, experience in China.
2. Waste incineration technology and policy guidelines.
3. Waste pyrolysis and gasification technology.
4. Waste incineration pollutant emission control technology.
5. Waste recycling and China/Europe experience.
6. Accounting and management of carbon emissions from waste to energy plant.
7. Design principle and manufacturing process of waste incineration boiler.
8. Waste incineration fly ash disposal and dioxin control technology.
9. Solving the “Not in my backyard” problem: the role of waste to energy plant construction.
10. Case analysis of PPP investment in waste to energy plant.
11. Visit to WtE Plants.
12. Practical operation technology of waste to energy plant.
13. R & D mode of the core technology enterprise of waste to energy.
14. Presentations of the participants, exchanging the current situation of waste management in their host country.
15. 6th International Symposium on Energy Utilization of Municipal Solid Waste for Sustainable Development of City.

Organizer: Zhejiang University

Address: Yuquan Campus, Zhejiang University, Xihu District,
Hangzhou, Zhejiang, China

Postcode: 310013

Coordinator: Mi Yan

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中国—东盟蓝碳科学与技术国际培训班

🕒 **举办时间：**2024 年 11 月

📍 **举办地点：**广西北海

🗨️ **工作语言：**英语

培训目的

此次培训班将为东盟国家从事蓝碳相关技术人员搭建交流平台。通过开设理念先进、授课质量高、应用性强的技术培训课程，提高东盟国家蓝碳生态系统调查评估能力及蓝碳生态系统的修复技术水平，优化配置海洋资源，推动发展中国家海洋生态系统的碳汇能力。

培训内容

采用“课堂授课 + 外出交流学习 + 现场技术培训 + 研讨座谈”多种形式开展培训。

1. 授课主题

①全球气候变化概况；②中国蓝碳发展概况；③中国蓝碳生态系统保护与修复概况；④蓝碳资源调查技术方法；⑤海洋生物多样性保护与修复技术方法；⑥红树林保护和修复技术方法；⑦珊瑚礁保护和修复技术方法；⑧海草床保护和修复技术方法；⑨滨海湿地保护和修复技术方法；⑩传统渔业转型技术方法；⑪蓝碳交易市场建设机制与技术方法；⑫滨海湿地生态系统观测与监测技术方法；⑬中国文化学习。

2. 外出交流学习

金海湾红树林保护区、涠洲岛珊瑚礁保护区、银滩整治修复区域交流学习、钦州中华白海豚保护基地、钦州海洋学院、合浦博物馆。

3. 技术培训

红树林种植修复技术、海洋生态环境监测技术、沙滩修复技术。

4. 研讨座谈

培训班共设置 2 场交流研讨。

承办单位：自然资源部第四海洋研究所

通信地址：广西壮族自治区北海市银海区海景大道海洋科研创新园科研一路

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China-Asean International Training Course on Blue Carbon Science and Technology

 **Time:** November, 2024

 **Venue:** Beihai, Guangxi

 **Working Language:** English

Objectives

The establishment of this training course will enhance the monitoring and assessment capacity of the blue carbon ecosystem of ASEAN countries, improve the level of blue carbon ecological protection and restoration, increase the carbon sequestration capacity of the marine ecosystem of China-Asean countries, promote greenhouse gas emission reduction and low-carbon development, promote the development and sustainable utilization of the blue economy, help carbon neutrality, and improve the adaptability to climate change. The sustainable development and utilization of ocean should be done well while developing economy.

Programs

Various forms of training are adopted, including classroom teaching, external communication and learning, on-site technical training, and seminar discussions.

1. Lecture topics

① Overview of global climate change; ② The development of blue carbon in China; ③ Protection and restoration of blue carbon ecosystem in China; ④ Blue carbon resources investigation techniques and methods; ⑤ Conservation and restoration of marine biodiversity; ⑥ Conservation and restoration of mangrove; ⑦ Conservation and restoration of coral reef; ⑧ Conservation and restoration of seagrass bed; ⑨ Conservation and restoration of coastal wetlands. ⑩ Traditional fisheries transformation techniques; ⑪ Construction mechanism and technical method of blue carbon trading market; ⑫ Coastal wetland ecosystem observation and monitoring techniques; ⑬ Chinese culture learning.

2. External communication and learning

Jinhai Bay Mangrove Conservation Area, Weizhou Island Coral Reef Conservation Area, Yintan Improvement and Restoration Area Exchange and Learning, Qinzhou Chinese White Dolphin Conservation Base, Qinzhou Marine College, and Hepu Museum.

3. Technical training

Mangrove planting and restoration technology, marine ecological environment monitoring technology, and beach restoration technology.

4. Seminar discussions

There are two exchange and discussion sessions in the training class.

Organizer: Fourth Institute of Oceanography, Ministry of Natural Resources

Address: No.1 Scientific Research Road, Ocean Scientific Research Innovation Park, Oceanview Avenue, Yinhai District, Beihai City, Guangxi, China

Postcode: 536015

Coordinator: Mu Wendan

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联合国全民早期预警倡议背景下临近预报技术的应用国际培训班

🕒 举办时间：2024 年 4 月

📍 举办地点：北京、武汉

🗨️ 工作语言：英语

培训目的

本次培训立足于全民早期预警行动计划，着重讲授其四大支柱中的第二点“观测与预报”中的科学与技术问题，以加强早期预警系统建设。通过理论学习与实践相结合的教学形式，旨在进一步提升参训学员灾害性强对流天气临近预报水平。通过培训，学员将达成以下学习成果：

1. 提高强对流天气临近预报技术的熟练程度；
2. 了解多普勒天气雷达产品在临近预报、灾害防御中的应用；
3. 掌握数值天气预报产品在强对流天气临近预报中的应用；
4. 熟悉全民早期预警倡议及中国防灾减灾经验。

培训内容

1. 中国气象国际合作；
2. 联合国全民早期预警倡议；
3. 强对流天气临近预报、多普勒天气雷达基本图像识别和回波特征、数值预报产品应用、中尺度天气分析及个例分析；
4. 中国气象局气象防灾减灾的政策和行动；
5. 全民早期预警论坛；
6. 气象防灾减灾等气象文化微课课程。

承办单位：中国气象局气象干部培训学院
通信地址：北京市海淀区中关村南大街 46 号
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International Training Course on Nowcasting Techniques under UN Early Warning for All Initiative

 **Time:** April, 2024

 **Venue:** Beijing, Wuhan

 **Working Language:** English

Objectives

In line with the UN's Early Warnings for All Initiative (EW4All), the Course focuses on the practical application of nowcasting tools to improve early warning systems. By integrating theoretical knowledge with hands-on practice, it aims to strengthen participants' nowcasting skills for improved forecasting and warning of severe convective weather. Participants' expected learning outcomes include but are not limited to:

1. Enhanced proficiency in nowcasting techniques for severe convective weather events.
2. Understanding of the deployment of Doppler Weather Radar in severe convective weather forecasting.
3. Grasp of the contribution of NWP products to severe convective weather forecasting.
4. Familiarity with the EW4All framework and China's disaster risk reduction strategies.

Programs

1. Overview of China Meteorological Administration and China's international meteorological cooperation.
2. Outline of the proposal and development of the UN Early Warnings for All Executive Action Plan.
3. Lectures on the formation, strengthening and weakening of severe convective weather nowcasting, basic characteristics of image and echo of Doppler Weather Radar, application of numerical forecasting products in nowcasting, mesoscale weather analysis, and case analysis.
4. Introduction to meteorological disaster prevention and mitigation policies and actions of the China Meteorological Administration.
5. Participants' Forum on Early Warnings for All.
6. Micro Meteo-cultural Courses on meteorological disaster prevention and mitigation etc.

Organizer: China Meteorological Administration Training Centre

Address: 46 Zhongguancun Nandajie Street, Haidian District,
Beijing, China

Postcode: 100081

Coordinator: Chen Siyu

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小岛屿发展中国家海洋与海岸带生态环境及灾害立体监测国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：浙江杭州

🗣️ 工作语言：英语

培训目的

1. 以实用性的海洋与海岸带生态遥感、海洋浮标（Argo）监测技术作为培训主体，帮助培养处理和应用海洋海岸带卫星遥感和海洋浮标资料的人才，切实提升小岛屿国家的海洋与海岸带生态环境及灾害监测能力。
2. 协助提升小岛屿国家的管理人员和科研人员对海洋与海岸带的认知能力，推动其加入联合国“海洋十年”计划等国际合作网络，以共享全球海洋立体观测数据和技术发展带来的红利。
3. 以培训班为契机，促进我国与小岛屿发展中国家的海洋管理人员和学者的交流，深化我国与小岛屿发展中国家在海洋观测与防灾减灾中的合作，提升我国在“一带一路”沿线海域的生态环境监测与公共服务能力。

培训内容

1. 知识性授课。包括海洋与海岸带卫星遥感原理、数据获取与处理、参数反演算法与灾害监测技术；海洋浮标技术与全球 Argo 观测网、数据接收和质控；小岛屿国家气候变化与防灾减灾、生态修复与蓝色碳汇、海洋空间规划与蓝色经济等可持续发展管理及对策。
2. 实习操作。卫星遥感和浮标数据的查询、下载、处理和基本应用；SOED 遥感数据共享中心和中国 Argo 实时资料中心数据使用和分析；SOED 自主开发的 SatCO2 等软件操作与使用；海洋观测设备的检测和布放实习；SOED 卫星地面站和实验室参观。
3. 现场考察。选择我国典型海洋生态修复工程或大型海洋工程，采用现场或视频讲解方式进行典型案例讲解，了解我国海岛空间规划和智慧海洋案例。
4. 讨论交流与答疑。组织专题研讨交流，学员汇报学习成果，反馈进一步需求。讨论下一步合作与人才培养方向。

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International Training on Marine and Coastal Ecological Environment and Disasters Monitoring in SIDS

 **Time:** June, 2024

 **Venue:** Hangzhou, Zhejiang

 **Working Language:** English

Objectives

1. This course takes practical marine and coastal ecological remote sensing and marine buoy (Argo) monitoring technology as the main training, to cultivate talents in processing and application of marine and coastal satellite remote sensing and Argo buoy data, and to effectively improve monitoring capacity for the marine and coastal ecosystems and disasters in SIDS.

2. This course assists the managers and researchers in SIDS to improve their understanding of the marine and coastal ecosystems, and to promote their participation in international cooperation networks such as the UN Ocean Decade Action, so as to jointly obtain the benefits of global marine stereoscopic observation data and technological development.

3. This course takes the training course as an opportunity to promote the exchanges of marine managers and scholars between China and SIDS, to deepen cooperation between China and SIDS in marine observation and disaster mitigation, and to promote China's capacity of monitoring and services for marine and coastal zones along the "Belt and Road".

Programs

1. Knowledge-based lectures. This includes marine and coastal zone satellite remote sensing principles, data acquisition and processing, parameter inversion algorithm; marine buoy technology and global Argo observation network, data acquisition and quality control; climate change and disaster, ecological restoration and blue carbon sinks, marine spatial planning, and blue economy in SIDS.

2. Practice operations. This includes query, download, processing, and basic application of satellite remote sensing and buoy data; data use and analysis of the Remote Sensing Data Sharing Center and China Argo Real-Time Data Center; inspection and practices of marine observation equipment; SOED satellite ground station and laboratory visit.

3. On-site inspection. Select typical China marine ecological restoration projects, and use on-site or video to explain typical cases to understand China's island space planning and smart ocean cases.

4. Discussions and Q & A. Organize special seminars and exchanges, so as to get feedback with further needs. Discuss the next step of cooperation and answers related to training courses and practical operations.

Organizer: Second Institute of Oceanography, Ministry of Nature
Recourse, P.R. China

Address: 36 Baochubei Road, Hangzhou, Zhejiang, China

Postcode: 310012

Coordinator: Zhang Huaguo

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高级生态学与保护生物学国际培训班

- 🕒 **举办时间:** 2023 年 10 月
- 📍 **举办地点:** 云南西双版纳
- 🗣️ **工作语言:** 英语

培训目的

通过举办培训班促进国内生态学、保护生物学研究领域的研究生、青年学者、相关从业人员等与国际热带生物学研究者之间的交流与合作，培养生态学、保护生物学领域的国际化人才。学员通过学习，对热带生态学与保护生物学前沿研究和热点问题有深入的了解，并通过实践掌握相关的野外工作技术。

培训目标为：①促进国内外生态学与保护生物学领域青年科技人员的交流与合作；②培养该研究领域的国际化人才。

培训内容

所有课程由中国科学院西双版纳热带植物园生态学与保护生物学领域的科学家及该领域的客座专家（包括境内外研究专家）共同主持，并参与教学，重点邀请热带亚洲地区从事生态学与保护生物学相关研究的学生及青年学者参与培训，采用理论讲座与野外实践相结合的方式进行授课。

1. 理论讲座主要包括：热带地区生物多样性威胁因素分析；气候变化生物学；生物多样性科学；环境教育；保护生物学及群落生态学等。
2. 实践课程（在实验室或野外）主要包括：物种分布模型研修；R 统计分析与实验设计；物种调查技术；可重复性科学；群落生态学；野外生态站样地生态学实习。
3. 课题汇报：学员分组进行课程汇报。

承办单位：中国科学院西双版纳热带植物园
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Advanced International Fieldcourse in Ecology and Conservation

 **Time:** October , 2023

 **Venue:** Xishuangbanna, Yunnan

 **Working Language:** English

Objectives

Through organizing the training course to promote exchanges and cooperation between domestic graduate students, young scholars and related practitioners in the fields of ecology and conservation research and international researchers in tropical biology, and to cultivate international talents in the fields of ecology and conservation. Through the study, the trainees will have an in-depth understanding of the cutting-edge research and hot issues in tropical ecology and conservation, and master the relevant field work techniques through practice.

The objectives of the training are: ① to promote exchanges and cooperation among young scientists and technicians in the fields of ecology and conservation at home and abroad; ② to cultivate international talents in related research fields.

Programs

All courses will be hosted by scientists in the field of ecology and conservation biology from Xishuangbanna Tropical Botanical Garden of the Chinese Academy of Sciences and visiting experts in this field (including domestic and foreign research experts), and participated in the teaching. Students and young scholars engaged in research related to ecology and conservation biology from countries in tropical Asia will be invited to participate in the training. Teaching will be conducted through a combination of theoretical lectures and field practices.

1. Theoretical lectures include: analysis of biodiversity threat factors in the tropics; climate change biology; biodiversity science; environmental education; conservation biology and community ecology.
2. Practical courses (in the laboratory & in the field) include: species distribution modeling; R statistical analysis and experimental design; species survey techniques; reproducibility science; community ecology; field ecological station study.
3. Reporting: Students are grouped to do final reports.

Organizer: Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences

Address: Menglun Town, Mengla County, Xishuangbanna Autonomous Prefecture, Yunnan Province, China

Postcode: 666303

Coordinator: Xia Xue

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“一带一路”“无废城市”建设与高质量发展国际培训班

- 🕒 **举办时间:** 2024 年 3 月
- 📍 **举办地点:** 北京、上海、盐城
- 🗣️ **工作语言:** 英文

培训目的

该培训旨在基于我国“无废城市”建设试点期间和“十四五”时期取得的经验与成效，围绕顶层设计引领和四大体系建设，在降低工业固体废物处置压力，提升主要农业固体废物综合利用水平，促进生活源固体废物减量化、资源化，切实防控危险废物环境风险和推进建筑垃圾综合利用等重点领域和关键环节取得的进展和成果，邀请亚太地区不少于 6 个国家的至少 20 名环境管理相关政府部门官员和企业技术人员，开展共建“一带一路”国家“无废城市”建设与高质量发展培训，分享我国“无废城市”建设的理念及经验，帮助亚太地区培养“无废城市”建设技术人才。同时，可促进中国和共建“一带一路”国家在“无废城市”建设领域的交流，进一步加强中国和 Related 国家在固体废物等环境保护领域的合作关系。

培训内容

培训拟针对共建“一带一路”国家包括环境管理官员和技术人员至少 20 人，开展“无废城市”建设与高质量发展相关知识与经验培训，授课计划如下：

1. 全球“无废城市”建设相关动态介绍；
2. 中国“无废城市”建设的成效分享；
3. “无废城市”建设工业固体废物、农业固体废物、生活固体废物、危险废物、建筑垃圾等领域污染防治管理经验分享；
4. 典型城市（3~5 个）“无废城市”建设的阶段性成果介绍；
5. “无废城市”建设中生活垃圾焚烧、建筑垃圾资源化利用、废弃电器电子产品拆解等典型利用处置设施技术参观。

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International Training on “Zero Waste City” Construction and High-quality Development along “the Belt and Road”

 **Time:** March, 2024

 **Venue:** Beijing, Shanghai, Yancheng

 **Working Language:** English

Objectives

The training aims to be based on the experience and achievements of “Zero Waste City” construction in China. Centering on the design guidance of the top level, the construction of the four major systems and management on five kinds of solid waste, the progress and results achieved in key areas and key aspects, it will select and invite at least 20 delegates in at least 6 BRI partner countries, to conduct training on “Zero Waste City” construction and to share our concepts and experiences, which will help countries to develop technical talents and raise awareness of “Zero Waste City” construction. Meanwhile, this training will enhance exchanges and cooperation between China and BRI partner countries.

Programs

The training is scheduled for BRI partner countries including environmental management officials and technicians will be trained in knowledge and experience in “Zero Waste City” construction. The main training contents are as follows:

1. Introduction of global “Zero Waste City” related activities;
2. Sharing the effectiveness of “Zero Waste City” construction in China;
3. Sharing of experience in pollution prevention and management in industrial solid waste, agricultural solid waste, domestic solid waste, hazardous waste, construction waste, etc.
4. Introduction to the phased achievements in typical cities (3-5);
5. Technical visit to typical facilities such as the domestic solid waste incineration, dismantling of waste electrical and electronic equipment.

Organizer: School of Environment, Tsinghua University
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Haidian District, Beijing
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Coordinator: Li Yingying
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海上丝路国家滨海蓝碳生态系统碳封存潜力评估与能力建设国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：上海

🗨️ 工作语言：英语

培训目的

盐沼湿地被认为是重要的滨海蓝碳生态系统之一，对实现碳中和具有重要意义。2013 年，国际上同意将滨海湿地碳汇纳入国家温室气体清单，但是由于缺乏专业知识培训，如何准确核算盐沼碳汇对许多成员国构成了巨大障碍。因此，海洋生物圈整合研究（IMBeR）国际大科学计划项目办公室（IPO-China）将与其主办机构华东师范大学合作，基于华东师范大学长期在海岸带滨海湿地研究成果开展培训课程。该课程将面向海上丝路沿线国家在华留学生、来自企业和国际组织的在华工作的外籍专家，通过现场真实的实验设计、数据采集、数据处理与模型预测，培训学员准确估算盐沼湿地碳储量和温室气体通量的能力，同时鼓励学员开发低成本的蓝碳新型观测工具。该培训将有助于推动中国及海上丝路沿线国家滨海蓝碳生态系统保护和修复及蓝碳交易体系建立。

培训内容

1. 滨海蓝碳生态系统的科学背景介绍；
2. 滨海植被碳循环与通量监测方法（空气—植物）；
3. 滨海蓝碳通量观测方法（植物—土壤—近海海水）；
4. 滨海蓝碳生态系统沉积物沉积通量评估技术；
5. 滨海碳封存潜力评估技术；
6. 如何向联合国报告每年盐沼中储存的（额外的）碳量；
7. 滨海蓝碳生态系统碳负排放技术及其自然解决方案。

承办单位：华东师范大学

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International Training on the Carbon Sequestration Estimate and Capacity Building of Coastal Blue Carbon Ecosystems in Maritime Silk Road Countries

 **Time:** June 1, 2024

 **Venue:** Shanghai

 **Working Language:** English

Objectives

Saltmarsh wetlands are significant coastal ecosystems that help achieve carbon neutrality. The coastal wetland carbon sinks were agreed to be included in the IPCC national greenhouse gas inventory in 2013. However, member states have faced challenges in accounting for coastal wetland carbon stocks due to a lack of expertise in responsible agencies. The International Project Office of the Integrated Marine Biosphere Research (IMBeR IPO-China) plans to develop a training session for foreign students, experts working in companies, and international organizations in China from countries along the Maritime Silk Road. The training will focus on accurately counting the carbon sequestration rate of tidal saltmarshes in collaboration with scientists from East China Normal University (ECNU), including experimental design, data acquisition, processing, predictive models, and on-site fieldwork. Trainees will be encouraged to develop low-cost observation tools to manage saltmarshes and establish blue carbon trading systems in China and other countries along the Maritime Silk Road.

Programs

1. Scientific Background of the Coastal Blue Carbon Ecosystem.
2. Methods for Monitoring Carbon Cycling and Flux of Coastal Vegetation (air-plant).
3. Coastal Blue Carbon Flux Observation Method (Plant-Soil-Nearshore Seawater).
4. Assessment Technology for Sedimentation Flux in Coastal Blue Carbon Ecosystems.
5. Assessment Technology for Carbon Sequestration Potential in Coastal Areas.
6. How Can We Report the (additional) annual amount of carbon stored in salt marsh to the United Nations ?
7. Carbon Negative Emission Technology and Nature-based Solution for Coastal Blue Carbon Ecosystem.

Organizer: East China Normal University

Address: No. 3663, North Zhongshan Road, Putuo District,
Shanghai, China

Postcode: 200062

Coordinator: Zuo Fang

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拉美地区国家气候变化与绿色发展技术国际培训班

🕒 举办时间：2024 年 4 月

📍 举办地点：北京

🗣️ 工作语言：汉语、英语、西班牙语

培训目的

1. 加强与发展中国家在绿色低碳技术领域的合作交流；
2. 帮助发展中国家培养绿色低碳领域专业技术人才；
3. 展示我国在气候变化及绿色发展方面已取得的先进技术成果和为实现“碳达峰”“碳中和”目标所做出的积极努力；
4. 促进双边科技领域合作（如联合研发等）的加强，推动国内相关技术与产品、科技企业和科研机构走出去，及一些海外优质技术项目引进来。

培训内容

- 第一天：开班仪式与中国碳达峰碳中和进展报告
- 第二天：碳达峰碳中和目标实现的科技创新路径
- 第三天：石油化工领域先进技术与设备成果分享
- 第四天：新能源汽车领域先进技术与设备成果分享
- 第五天：钢铁领域先进技术与设备成果分享
- 第六天：天然气领域中国先进技术与设备成果分享
- 第七天：氢能领域先进技术与设备成果分享（1）
- 第八天：氢能领域先进技术与设备成果分享（2）
- 第九天：“产学研”融合研讨会
- 第十天：储能领域先进技术与设备成果分享
- 第十一天：循环经济领域先进技术与设备成果分享
- 第十二天：新能源汽车领域先进技术与设备成果分享
- 第十三天：绿色低碳材料领域先进技术与设备成果分享
- 第十四天：建筑领域先进技术与设备成果分享
- 第十五天：生物发酵领域先进技术与设备成果分享与结营仪式

承办单位：科威国际技术转移有限公司

通信地址：北京中关村东路1号清华科技园科技大厦B座701B/D

邮 编：100084

联 系 人：武文龙

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International Training on Climate Change and Green Development for Latin American Countries

 **Time:** April, 2024

 **Venue:** Beijing

 **Working Language:** Chinese, English, Spanish

Objectives

1. Strengthen cooperation and exchanges with developing countries in the field of green and low-carbon technologies.
2. Assist developing countries in cultivating professional and technical talents in the green and low-carbon field.
3. Display China's advanced technological achievements in climate change and green development, as well as its active efforts to achieve the goals of "carbon peaking" and "carbon neutrality".
4. Promote the strengthening of bilateral cooperation in the fields of science and technology (such as joint research and development), promote the export of relevant domestic technologies and products, technology enterprises and research institutions, and introduce some high-quality overseas technological projects to China.

Programs

- DAY 1: Opening ceremony and progress report on China's Carbon Peak and Carbon Neutrality
- DAY 2: The path of scientific and technological innovation to achieve the goal of carbon peak and carbon neutrality
- DAY 3: Sharing of advanced technology and equipment achievements in the field of petrochemical industry
- DAY 4: Sharing of advanced technology and equipment achievements in the field of new energy vehicles
- DAY 5: Sharing of advanced technology and equipment achievements in the field of iron and steel
- DAY 6: Sharing of China's advanced technology and equipment achievements in the field of natural gas
- DAY 7: Sharing of advanced technology and equipment in the field of hydrogen energy (1)
- DAY 8: Sharing of advanced technology and equipment in the field of hydrogen energy (2)
- DAY 9: "Industry-University-Research" Integration Seminar
- DAY 10: Sharing of advanced technology and equipment achievements in the field of energy storage
- DAY 11: Sharing of advanced technology and equipment achievements in the field of circular economy
- DAY 12: Sharing of advanced technology and equipment achievements in the field of new energy vehicles
- DAY 13: Sharing of advanced technology and equipment achievements in the field of green and low-carbon materials
- DAY 14: Sharing of advanced technology and equipment achievements in the field of construction
- DAY 15: Sharing of advanced technology and equipment achievements in the field of biological fermentation and closing ceremony.

Organizer: Coway International Techtrans Co., Ltd.

Address: 701B/D, Block B, Tsinghua Science and Technology Park Science and Technology Building, No. 1 Zhongguancun East Road, Beijing, China

Postcode: 100084

Coordinator: Wu Wenlong

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“一带一路”水环境可持续发展国际培训班

🕒 举办时间：2024 年 5 月

📍 举办地点：江苏南京

🗣️ 工作语言：英语

培训目的

共建“一带一路”国家大多数为发展中国家，且多数处于干旱半干旱地区，水资源和水环境问题严峻。加强共建“一带一路”国家水资源、水环境可持续发展交流和培训，可为这些国家的水环境问题提供帮助。本培训以中国科学家在水资源、水环境方面积累的知识为出发点，邀请国内专家学者为学员授课，通过理论学习、实验室参观培训、野外考察、典型案例交流，使学员掌握水资源、水环境、海绵城市、地表水—地下水优化管理等方面的先进技术方法，熟知水环境可持续发展的核心，探索共建“一带一路”国家和地区水资源和水环境问题的解决方案，建立学术交流平台，共享学术资源，增强学者间合作，促进双方学术交流。

培训内容

1. 共建“一带一路”国家和地区面临的水环境问题；
2. 流域水文模拟与决策支持；
3. 干旱地区地下水文与生态效应；
4. 海绵城市建设推动绿色发展；
5. 生态水文与水环境修复；
6. 水文系统优化与可持续性发展；
7. 地表水—地下水综合利用；
8. 同位素技术在水环境研究中的应用；
9. 水环境研究的理论与监测技术；
10. 参观国家重点实验室，基地现场实习。

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传 真：025-83772094

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“Belt and Road” International Workshop on Sustainable Development of Water Environment

 **Time:** May, 2024

 **Venue:** Nanjing, Jiangsu

 **Working Language:** English

Objectives

Most of the BRI partner countries are developing countries, and most of them are in arid and semi-arid areas, so the problems of water resources and water environment are serious. Under the initiative of China’s “Belt and Road”, these countries may usher in a period of rapid economic development, which will pose more challenges to water resource demand and water environment quality. Therefore, it is of great strategic significance to strengthen exchanges and training on sustainable development of water resources and water environment in BRI partner countries and apply the existing knowledge and successful experience of Chinese scientists to help these countries with water environment problems.

Programs

1. Water environment problems faced by BRI partner countries.
2. River basin hydrological simulation and decision support.
3. Underground hydrology and ecological effects in arid areas.
4. Sponge city construction promotes green development.
5. Ecological hydrology and water environment restoration.
6. Hydrological system optimization and sustainable development.
7. Comprehensive utilization of surface water and groundwater.
8. Application of isotope technology in water environment research.
9. The theory and monitoring technology of water environment research.
10. Visit the national key laboratory, training at field observation and experiment station.

Organizer: Hohai University

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Postcode: 210098

Coordinator: Guan Yashuo

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植物园发展与管理国际培训班

🕒 举办时间：2024 年 8 月

📍 举办地点：上海

🗣️ 工作语言：英语

培训目的

1. 协调、促进和支持亚洲植物园的发展和管理；
2. 在全球变化迅速背景下帮助建立区域能力和专业技能；
3. 加强亚洲发展中国家植物园互联互通，促进职业技能和思想交流。

培训内容

1. 理论课：全球变化背景下植物园发展的策略、中国迁地植物志和植物驯化、植物园设计、温室管理、花卉生产和花境设计、植物保育、科普理论与实践、游客服务与市场营销、植物修复技术等。
2. 野外实习：学习和实践植物鉴定、标本制作、野外调查方法与技术。
3. 参观访问：上海植物园、松江醉白池和方塔园、上海自然历史博物馆、庐山植物园。
4. 学员任务：辰山国际民族植物学展，自我介绍和最终汇报、助教。

承办单位：上海辰山植物园
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传 真：021-67657800
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Botanical Garden Development and Management International Training Course

 **Time:** August, 2024

 **Venue:** Shanghai

 **Working Language:** English

Objectives

1. To coordinate, promote and support the development and management of Asian botanical gardens.
2. To help build regional capacity and expertise at a time of rapid global change.
3. To strengthen botanical garden networking among the Asian developing countries and promote exchange of professional skills and ideas.

Programs

1. Theory class: Strategic development of botanicagarden in a time of global change, ex situ Flora of China and plant domestication, botanical garden design, flower production and flower design, herbarium and seed bank, conservation in botancial gardens, education theory and practice, customer service and marketing, attractive and efficient technologies using plants for the environment in botanical gardens.
2. Field trips: plant identification, specimen making, field survey methods and techniques.
3. Visits: Shanghai Botanical Garden, Songjiang Zuibaichi park and Fangta park, Shanghai Natural History Museum, Lushan Botanical Garden.
4. Trainee duties: Chenshan International Ethnic Botanical Exhibition, self-introduction with PPT, final group report, teaching assistant.

Organizer: Shanghai Chenshan Botanical Garden

Address: 3888 Chenhua Road, Songjiang District, Shanghai, China

Postcode: 201602

Coordinator: Huang Shubo

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先进节能减排技术与绿色发展国际培训班

🕒 **举办时间:** 2024 年 10 月

📍 **举办地点:** 广东深圳

🗣️ **工作语言:** 汉语、英语

培训目的

帮助东南亚国家相关部门官员、地方政府官员了解中国节能减排政策及中国管理制度体系，分享中国成功经验，推动节能领域信息传递，让学员掌握全产业链的基础情况、相关技术和行业现况，实现项目合作，推动产业发展、模式创新和国际合作。

培训内容

中国能源发展的战略、中国节能探索与实践、双碳目标下的深圳绿色低碳产业发展、中国节能减排中的科技创新与技术的产业化推广、生活垃圾及农林废弃物亚临界水解燃料化技术及应用、生物质能源行业发展、高新技术在建筑节能上的运用、交通领域的节能技术、太阳能光伏技术应用、储能技术应用、绿色照明技术应用。

承办单位: 一带一路环境技术交流与转移中心（深圳）

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邮 编: 518000

联 系 人: 杨光

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传 真: 0755-28669888

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International Training on Energy Saving and Emission Reduction Technologies and Development

 **Time:** October, 2024

 **Venue:** Shenzhen, Guangdong

 **Working Language:** Chinese, English

Objectives

The aim of this seminar is to help officials from relevant departments and local governments in Southeast Asian countries to understand China's policy on energy saving and emission reduction as well as China's management system system, to share China's successful experience, to promote information transfer in the field of energy saving, to enable participants to grasp the basic situation of the whole industry chain, relevant technologies and the current situation of the industry, to realise project cooperation, and to promote industrial development, model innovation and international cooperation.

Programs

Strategies for energy development in China, exploration and practice of energy conservation in China, development of green low-carbon industries in Shenzhen under the double carbon target, scientific and technological innovation and industrial promotion of technology in energy conservation and emission reduction in China, subcritical hydrolysis fueling technology and application of domestic waste and agricultural and forestry waste, development of biomass energy industry, the use of high technology in building energy conservation, energy conservation technology in transportation, application of solar photovoltaic technology, application of energy storage technology, application of green lighting technology.

Organizer: Belt and Road Environmental Technology Exchange and Transfer Center (Shenzhen)

Address: 12/F, Building 4, Phase II, Tianan Yungu Industrial Park, Bantian Street, Longgang District, Shenzhen, Guangdong, China

Postcode: 518000

Coordinator: Yang Guang

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东南亚现代农业产业发展高层次人才国际培训班

🕒 举办时间：2024年4月

📍 举办地点：云南昆明

🗣️ 工作语言：英语

培训目的

1. 提升东南亚国家农业管理与技术人才的专业素质与能力；
2. 提升东南亚国家农业产业发展水平，促进经济发展；
3. 促进中国与东南亚农业产业发展领域的学术交流和科技合作；
4. 促进我国农业产业相关农资、技术与产品的输出，为中国与东南亚区域经济发展做出贡献；
5. 加强中国与东南亚国家在农业创新和可持续发展领域的合作，共同探索生态友好型农业模式，为区域环境保护和长期经济增长贡献力量。

培训内容

1. 学术讲座：介绍我国农业产业发展政策与方向、中国与东南亚合作现状与前景。学习主要热带作物的新品种特性、高产优质栽培技术、全球气候变暖跨境病虫害的流行与绿色防控、冷链物流、农产品精深加工、电子商务等理论与技术。
2. 现场教学与参观：参观云南农业大学高原特色产业研究院、食品科技学院、农业生物多样性国家工程中心与云南农业大数据中心，帝泊普洱、中茶集团等。
3. 中国云南北回归线大健康产业发展专题：围绕北回归线独特的大健康产业资源优势，促进中国与北回归线沿线国家农业、大健康产业及国际贸易的合作。
4. 文化交流：开展普洱茶文化、咖啡文化、云南少数民族文化介绍与体验系列活动。
5. 座谈与合作：聚焦中国与东南亚国家农业产业发展科技合作创新点，商讨以云南西双版纳与普洱中国边境口岸市县为切入技术示范点，建立中国与东南亚农业产业发展合作关系。

承办单位：云南农业大学（中国东盟教育培训中心）

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ITP for Advanced Talents in Modern Agricultural Industry development in SEA

 **Time:** April, 2024

 **Venue:** Yunnan, Kunming

 **Working Language:** English

Objectives

1. Enhance the professional quality and capabilities of agricultural management and technical personnel in Southeast Asian countries.
2. Improve the level of agricultural industry development in Southeast Asian countries and promote economic growth.
3. Promote academic exchanges and scientific and technological cooperation in the field of agricultural industry development between China and Southeast Asia.
4. Promote the export of agricultural resources, technology, and products related to China's agricultural industry, contributing to the regional economic development of China and Southeast Asia.
5. Strengthen cooperation between China and countries in South and Southeast Asia in the fields of agricultural innovation and sustainable development, jointly explore eco-friendly agricultural models, and contribute to regional environmental protection and long-term economic growth.

Programs

1. Academic Lectures: Introduction to China's agricultural industry development policies and directions, and the current status and prospects of cooperation between China and Southeast Asia. Study the characteristics of new varieties of major tropical crops, high-yield and high-quality cultivation techniques, the prevalence and green control of cross-border pests and diseases due to global warming, cold chain logistics, advanced processing of agricultural products, e-commerce, and other theories and technologies.
2. Field Teaching and Visits: Visit the Plateau Special Industry Research Institute of Yunnan Agricultural University, the College of Food Science and Technology, the National Engineering Center for Agricultural Biodiversity, and the Yunnan Agricultural Big Data Center, as well as Di Bo Pu'er, China Tea Company etc.
3. Special Topic on the Development of the Greater Health Industry along the Tropic of Cancer in Yunnan, China: Focus on the unique resources and advantages of the greater health industry along the Tropic of Cancer, promoting cooperation in agriculture, the greater health industry, and international trade between China and countries along the Tropic of Cancer.
4. Cultural Exchange: Carry out a series of activities to introduce and experience Pu'er tea culture, coffee culture, and the culture of Yunnan's ethnic minorities.
5. Discussion and Cooperation: Focus on the innovative points of scientific and technological cooperation in agricultural industry development between China and Southeast Asian countries. Discuss establishing technical demonstration points in Xishuangbanna and Pu'er, border port cities and counties of Yunnan, as the entry point to establish a cooperative relationship in agricultural industry development between China and Southeast Asia.

Organizer: Yunnan Agricultural University (China-ASEAN Education and Training Center)

Address:No. 95, Jinhei Road, Panlong District, Kunming City, Yunnan Province, China

Postcode: 650201

Coordinator: Liu Yan

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发展中国家农业机器人技术应用国际培训班

🕒 **举办时间:** 2024 年 5 月

📍 **举办地点:** 山东济南

🗣️ **工作语言:** 英语

培训目的

1. 通过举办培训班，能够帮助发展中国家培养先进农业技术装备和自动化信息技术人才，使学员掌握机器人及自动化控制技术；增进相互沟通和了解，建立广泛的科技合作渠道。

2. 通过培训、参观交流和研讨，吸收更多成员加入“国际智慧农业技术产业联盟”，在更多的国家和地区开展智慧农业技术示范与应用，共同推动智慧农业的发展。

培训内容

1. 学习自动化控制技术总体结构，介绍智能农机及自动化与控制技术基础理论知识。
2. 学习嵌入式系统的原理、无线通信及应用。
3. 学习农业机器人知识、常用传感器、伺服电机及液压系统在机器人系统中的应用、常见问题处理。
4. 学习计算机视觉、人工智能基础知识、现场总线连接、人机界面、计算机控制与信息管理等。
5. 学习自动导航、路径规划及无人驾驶的知识，应用领域。
6. 实例讲解农业机器人、温室智慧管理系统的知识及应用，实地参观考察相关企业和智慧农业示范区。

承办单位: 山东中乌技术创新研究院 (山东省科学院)

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International workshop on the application of agricultural robotics

 **Time:** May, 2024

 **Venue:** Jinan, Shandong

 **Working Language:** English

Objectives

1. By holding the workshop, discuss and exchange agricultural robots, smart agriculture, and machine vision, artificial intelligence, unmanned driving, automation and other related fields of technology; introduces China's technology and equipment in the field of agricultural robots. Establish extensive international cooperation.

2. Through training, visits, exchanges and seminars, more members will be attracted to join the "International Smart Agriculture Technology Industry Alliance", and smart agriculture technology demonstration and application will be carried out in more countries and regions to jointly promote the development of smart agriculture.

Programs

1. Introduces the overall structure of automation control technology; the basic theoretical knowledge of intelligent agricultural machinery and automation and control technology.

2. Introduces the principles, wireless communication and applications of embedded systems.

3. Introduces the knowledge of agricultural robots, the application of sensors, servo motors and hydraulic systems in robot systems, and the treatment of common problems.

4. Introduces the basics of computer vision, artificial intelligence, computer control and information management.

5. Introduces the knowledge of automatic navigation, path planning and unmanned driving, application fields.

6. Explain the knowledge and application of agricultural robot and greenhouse intelligent management system; Field visit to the smart agriculture demonstration zone.

Organizer: Shandong ZhongWu Institute of Technology
Innovation (Shandong Academy of Sciences), China
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Coordinator: Zhang Dong
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“一带一路”资源环境科学数据共享与防灾减灾知识服务国际培训班

🕒 **举办时间:** 2024 年 7 月

📍 **举办地点:** 北京

🗣️ **工作语言:** 英语

培训目的

1. 解析资源环境科学数据的特征和内涵及其在共建“一带一路”国家所面临的机遇与挑战，提升发展中国家对其的认识和理解。
2. 提供适合于跨地区、跨学科、跨领域的综合科学研究的科研信息化模式，促进资源环境数据共享和区域的可持续发展。
3. 推广和应用大数据时代的防灾减灾知识服务技术，让更多国家的科技人员参与防灾减灾知识服务。
4. 为本区域数据共享提供一批基础数据资源，优化数据共享机制，提高数据共享效率，直接服务于“一带一路”倡议。

培训内容

1. 资源环境科学数据的特征与内涵。
2. 资源环境大数据关键技术，包括遥感大数据获取技术、网络大数据获取技术、人文和社会大数据技术等。
3. 资源环境科学数据在共建“一带一路”国家的应用，包括中蒙俄经济走廊交通管线生态风险防控、中巴经济走廊自然灾害集成与防灾减灾等应用案例。
4. 资源环境科学数据共享相关技术和标准规范，包括《资源学科领域基础科学数据集成共享数据分类体系》《资源学科数据分类规范》《资源学科领域数据整合技术规范》等在内的多项相关资源学科领域基础科学数据的整合技术规范、数据处理技术规范。
5. 防灾减灾知识服务平台技术与应用，包括防灾减灾技术平台扩展、专题知识应用定制、全球典型案例分享、平台应用接口开发等技术。
6. “一带一路”国际科学组织联盟与防灾减灾国际合作。介绍“一带一路”国际科学组织联盟的发展规划、防灾减灾知识服务的国际合作内容等。

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Training on Resource & Environment Scientific Data Sharing and DRR Knowledge Service for “Belt and Road”

 **Time:** July, 2024

 **Venue:** Beijing

 **Working Language:** English

Objectives

1. To analyze the characteristics and connotation of the resource and environment scientific data and the opportunities and challenges it faces in the “Belt and Road” initiative, and promote the knowledge and understanding of it among developing countries.
2. To provide an informatization model of scientific research which is suitable for cross-regional, interdisciplinary and cross-field comprehensive scientific researches, and promote resource and environment data sharing and regional sustainable development.
3. To popularize and apply the knowledge service technology of disaster risk and reduction in the era of big data, and let more scientists and engineers of more countries can participate in it.
4. Provide a batch of basic data resources for “Belt and Road” regions data sharing, optimize data sharing mechanism, improve data sharing efficiency, and directly serve “Belt and Road” initiative.

Programs

1. Characteristics and connotation of resource and environment scientific data.
2. Key technology of resource and environment scientific data. It includes big data acquisition technology of remote sensing and network, big data technology of humanity and society, etc.
3. Application of resource and environment scientific data in the “Belt and Road”. It includes the application cases of ecological risk prevention and control of traffic pipeline in Sino-Mongolian and Russia economic corridor.
4. Standards and specifications related to scientific data sharing of resource and environment. It includes related basic scientific data integration technical specifications of the resource subject area.
5. Technology and application of platform for disaster risk and reduction knowledge service. It includes the expansion of disaster risk and reduction technology platform, the customization of thematic knowledge application, etc.
6. The alliance of international science organizations in the Belt and Road Initiative and international cooperation on disaster risk and reduction.

Organizer: Institute of Geographic Sciences and Natural Resources
Research, Chinese Academy of Sciences

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现代丝绸产品加工与创新设计技术国际培训班

🕒 举办时间：2024 年 10 月

📍 举办地点：浙江杭州

🗣️ 工作语言：英语

培训目的

1. 使东南亚等地区的各发展中国家的学员熟悉或掌握现代丝绸产品加工与创新设计的专业知识和技能，能在丝绸相关行业或企业更好地从事产品设计、工艺开发、生产质量控制及经营管理等工作，推动各发展中国家丝绸生产技术的进一步发展。

2. 加深相互了解，促进我国与东南亚等地区的各发展中国家在丝绸产品设计与加工领域的科技合作与人才交流。

培训内容

1 丝纤维制备与加工技术

1.1 中国家蚕品种及优质蚕种培育技术 1.2 制丝加工工艺 1.3 制丝技术 1.4 生丝加工生产企业现场调研

2 丝绸织造技术

2.1 中国丝织业现状与发展概述 2.2 丝织准备工程 2.3 丝绸织造技术

2.4 丝绸织造设备：织造设备发展及应用 2.5 织造生产企业现场调研

3 丝绸产品设计

3.1 丝绸图案及色彩设计 3.2 提花丝绸的计算机辅助设计 3.3 丝绸产品与数字化展示技术

3.4 生产企业现场调研

4 丝绸染整技术

4.1 丝绸印染新技术 4.2 丝绸数码印花技术 4.3 丝绸绿色行动与碳足迹核算 4.4 生产企业现场调研

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International Training Program on Process Technology and Innovation Design of Modern Silk Products

 **Time:** October, 2024

 **Venue:** Hangzhou, Zhejiang

 **Working Language:** English

Objectives

1. This workshop will let the students from developing countries to familiar with the specialized knowledge and skill on process technology and innovation design of modern silk products, and to be better engaged in silk products design, technique development, quality control, management in silk enterprises or silk industry, to promote the further development of silk production technology in the developing countries.

2. The workshop will also provide a platform for the participants from different countries to improve mutual understanding and promote sci-tech cooperation and talent exchange in the silk industry between China and other countries.

Programs

Contents: Silk fiber preparation and process technology, Woven technology on silk products, Silk products Design, Dyeing and finishing technology on silk products:

1 Silk fiber preparation and processing technology

1.1 Silkworm breeds and breeding technique in China 1.2 Filature processing technique

1.3 Filature technology 1.4 Field study about raw silk processing and production

2 Woven technology on silk products

2.1 Current and development of chinese silk industry 2.2 Modern silk-yarn preparation

2.3 Modern silk-weaving technology 2.4 Modern silk-weaving equipmen

2.5 Field study about weaving production

3 Silk products design

3.1 Designs on pattern and color of silk 3.2 The computer aided designs on silk jacquard fabrics

3.3 Silk products and digital display technology 3.4 Field study about silk products design

4 Dyeing and finishing technology on silk products

4.1 New technology of silk dyeing and finishing 4.2 Silk digital printing technology

4.3. Silk green action and carbon footprint accounting 4.4 Field study about dyeing and finishing production

Organizer: Zhejiang Sci-Tech University

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中老铁路技术标准国际培训班

🕒 举办时间：2024 年 4 月

📍 举办地点：四川成都

🗣️ 工作语言：英语

培训目的

1. 老挝等东盟国家原有铁路技术落后，随着以中国技术为依托的中老铁路开通，现亟须编制其主权国家的铁路技术标准，但专业人才和标准化等质量领域人才极度缺乏，有重大的人才培养需求，因此，通过此次培训可以培养一批老挝国家铁路技术标准化人才。

2. 解决“中国制造+中国规则”的方式在中老铁路高质量互联互通方面“水土不服”的问题，培育了解中国技术标准体系的国际人才。

培训内容

- 1、标准化通用知识培训；
- 2、国家质量基础设施（NQI）理论知识培训；
- 3、铁路基础知识培训；
- 4、铁路技术标准宣贯（不少于 2 个）。

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International Training Course on Technical Standards for China-Laos Railway

 **Time:** April, 2024

 **Venue:** Chengdu, Sichuan

 **Working Language:** English

Objectives

1. With the opening of the China-Laos railways of Chinese technology, the railway technology standards of its sovereign countries are urgent. However, there is an extreme shortage of professionals and talents in the field of standardization and other quality fields, and there is a major demand for talent training. Therefore, through this training, a group of Laos national railway technology standardized talents can be cultivated.

2. Solve the problem of “Made in China + Chinese Rules” in terms of high-quality interconnection of China-Laos Railway, and cultivate international talents who understand China’s technical standard system.

Programs

1. Standardized common knowledge training.
2. National Quality Infrastructure (NQI) theoretical knowledge training.
3. Basic knowledge training.
4. Railway technology standards (not less than 2).

Organizer: Southwest Jiaotong University

Address: Western Park of High-tech Zone, Chengdu, Sichuan Province, China

Postcode: 611756

Coordinator: Wei Chao

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激光智能制造技术与装备国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：山东青岛

🗨️ 工作语言：英语

培训目的

面向有激光智能制造技术及应用需求的工程师、高级技术人员、制造企业的高层管理人员、政府工作人员、高校或科研院所的研究人员等，开展激光智能制造技术与装备的相关培训，提升参培人员在激光加工与制造领域的管理、研究、开发及应用的综合水平。

培训内容

激光加工原理、中国激光加工技术的研究现状、激光技术在相关领域的应用及发展前沿、激光工程中的光学与光学效应、全息技术在飞秒激光加工中的应用、3D 智能制造技术、机械状态监测与故障诊断技术、激光技术在新旧动能转换中的重要作用。

承办单位：青岛理工大学

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International Training Workshop on Laser Intelligent Manufacturing Technology and Equipment

 **Time:** June, 2024

 **Venue:** Qingdao, Shandong

 **Working Language:** English

Objectives

This training program is designed for engineers, senior technicians, manufacturing enterprise senior management personnel, government workers and researchers in universities or research institutes, etc., those who have the requirement for laser intelligent manufacturing technology and application. During the training period, we will carry out the study and research on laser intelligent manufacturing technology and equipment to improve the comprehensive level of management, research, development and application in the field of laser processing and manufacturing.

Programs

Laser processing principle; Research status of laser processing technology in China; The application and development frontier of laser technology in related fields; Optics and optical effects in laser engineering; The application of holography technology in femtosecond laser processing; 3D intelligent manufacturing technology; Advanced mechanical condition monitoring and fault diagnosis technology; The important role of laser technology in the conversion of new and old kinetic energy.

Organizer: Qingdao University of Technology

Address: No.777, Jialingjiang Road, West Coast District, Qingdao, Shandong, China

Postcode: 266520

Coordinator: Zhang Cuifang

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海洋命运共同体科技法律国际培训班

🕒 举办时间：2024 年 12 月

📍 举办地点：辽宁大连

🗣️ 工作语言：英语

培训目的

通过对“海洋命运共同体”理念的阐释，对我国涉海法律、政策、制度变化的解读，以及对区块链、“双碳”、大数据等高新技术应用与海洋和法律的关系的研究，使各国学员对我国海洋法律政策中所蕴含的全球利益观和人文观建立起更具体、更深入、更坚定的认识和体悟，最终实现维持区域稳定、维护世界和平、促进互利互惠、谋求共同发展的美好愿景。

培训内容

本培训项目拟主要围绕“海洋命运共同体”理念和“双碳”目标、区块链技术、大数据、海洋科技创新等世界发展前沿领域及其法律规制展开，包括但不限于以下课程设置：

- 第一课：坚持海洋命运共同体理念，推进全球海洋科技创新与合作；
- 第二课：海洋碳汇的发展和交易机制；
- 第三课：智能船技术发展与海上保险法；
- 第四课：区块链技术与全球贸易数字基建；
- 第五课：高新技术背景下中国海事海商法律政策的最新发展；
- 第六课：深海海底勘探开发与法治保障 / 法律规制；
- 第七课：智能港行的建设与规制；
- 第八课：大数据时代中国海洋生态环境治理体系和治理能力的现代化；
- 第九课：日本核污水排海对“一带一路”国家海洋治理秩序的危害及应对；
- 第十课：海洋科技创新与国际纠纷争端解决机制。

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The International Workshop on Technology and Development of Laws towards “Community with a Shared Future in the Sea”

 **Time:** December, 2024

 **Venue:** Dalian, Liaoning

 **Working Language:** English

Objectives

The purpose of the International Workshop on Technology and Development of Laws towards “Community with a Shared Future in the Sea” is to enable students from all over the world to establish a more specific, deeper and more firm understanding of global interests and humanity contained in China’s maritime laws and policies through the interpretation of the concept of “a community with a shared future in the sea”, the interpretation of changes in China’s maritime laws, policies and institutions, and the study of the relationship between the applications of blockchain, “dual carbon”, Big data and other high-tech and the law related to the sea. On this basis, we hope to achieve the beautiful vision of maintaining regional stability and world peace, promoting mutual benefit and seeking common development ultimately.

Programs

Lesson 1: Uphold the concept of a community with a shared future in the sea to promote global innovation and cooperation in marine science and technology.

Lesson 2: Development and trading mechanism of marine carbon sinks.

Lesson 3: Development of smart ship technology and maritime insurance law.

Lesson 4: Blockchain technology and global trade digital infrastructure.

Lesson 5: The latest development of China’s maritime law and policy under the background of high-tech.

Lesson 6: Legal protection and regulation on the deep sea bed exploration and development.

Lesson 7: Construction and regulation of smart port banks.

Lesson 8: Modernization of China’s marine ecological environment governance system and capacity in the era of big data.

Lesson 9: Harm of Japan’s nuclear sewage discharge to the marine governance order of the “Belt and Road” countries and the countermeasures.

Lesson 10: Marine science and technology innovation and international dispute settlement mechanism.

Organizer: Dalian Maritime University

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发展中国家港口航道建设技术国际培训班

🕒 举办时间：2024 年 4 月

📍 举办地点：天津

🗣️ 工作语言：英语

培训目的

1. 集中培训发展中国家政府部门、科研院所和港口企业的专家和技术人员；
2. 结合工程建设实例宣讲我国港口水运标准；
3. 发挥我国建设大型港口的技术优势，为发展中国家港口建设贡献中国智慧；
4. 与发展中国家在港口建设、运营管理和科研机构等方面加强联系，开展全面的科技合作。

培训内容

1. “一带一路”互联互通介绍；
2. 中国水运交通重大工程建设进展与研究成果（深中通道、港珠澳大桥、洋山港等）；
3. 港口与航道建设技术现状及发展趋势；
4. 港口建设与技术标准体系；
5. 港口与航道升级面临的主要技术问题和解决方案；
6. 水运计量体系介绍；
7. 参观考察世界首个零碳码头（天津）；
8. 物理模型试验与计量标准实习操作。

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International Technical Workshop on Port and Waterway Construction for Developing Countries

 **Time:** April, 2024

 **Venue:** Tianjin

 **Working Language:** English

Objectives

1. Focus on training experts and technical personnel in developing countries governments, research institutes and port enterprises.
2. Combining with the engineering construction example, we will publicize the water transport standard of China.
3. Giving the technical advantages of China's construction of large-scale ports, contribute China's wisdom to the port construction of developing countries.
4. Strengthen ties with developing countries in port construction, operation management and scientific research institutions to carry out comprehensive scientific and technological cooperation.

Programs

1. Introduction of connectivity progress of Belt & Road.
2. Construction and research achievement of major transport project in China.
3. The present situation and development trend of port and waterway construction.
4. The standard system of port construction and technology.
5. Major technical problems and solutions to upgrade for port and waterway.
6. Introduction of measurement standard construction technology in water transport engineering.
7. Study visit (Tianjin).
8. Practice operation for physical model in test lab and measurement standard.

Organizer: Tianjin Research Institute for Water Transport Engineering, M.O.T.

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发展中国家“中文+航海职业技能”新技术国际培训班

🕒 举办时间：2024年10月

📍 举办地点：江苏南京

🗣️ 工作语言：英语、汉语

培训目的

1. 为共建“一带一路”国家的互联互通提供有力的航运人才支撑和技术支持；
2. 为发展中国家培养“懂技术、善管理、会创新”的高级轮机工程技术人才。

培训内容

- 1、中国国情课；
- 2、现代船舶轮机技术发展趋势；
- 3、船舶海洋防污染技术；
- 4、WinGD 柴油机电喷技术；
- 5、Kongsberg 轮机模拟器；
- 6、船舶智能化机舱技术开发；
- 7、船舶智能化机舱实操；
- 8、中国文化概况；
- 9、培训展示、学员总结。

承办单位：江苏海事职业技术学院

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“Chinese + Nautical Vocational Skills” New Technology Training Program for Developing Country

 **Time:** October, 2024

 **Venue:** Nanjing, Jiangsu

 **Working Language:** Chinese, English

Objectives

1.This program provides rich shipping talents resources and strong technical support for the connectivity of BRI partner countries.

2.It aims to cultivate senior marine engineering technicians who know well about shipping skills, management and innovation for developing countries.

Programs

- 1.The condition of China.
- 2.The development trend of modern marine engine technology.
- 3.Marine pollution prevention technology for ships.
- 4.WinGD diesel electronic injection technology.
5. Kongsberg marine engine simulator.
6. Technological development of intelligent engine room technology for ships.
7. Practical operation of ship intelligent engine room.
8. Overview of Chinese culture.
9. Training presentation and student summary.

Organizer: Jiangsu Maritime Institute

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“一带一路”港口数字化转型国际培训班

🕒 **举办时间：**2024年6月

📍 **举办地点：**北京、宁波

🗣️ **工作语言：**英语

培训目的

通过本研修班，推广我国在港口数字化建设等方面的技术及经验，加强共建“一带一路”国家学员对我国信息化技术在港口智能化、数字化发展方面应用实践的了解，提升对港口数字化技术及应用的认识和理解，推进我国与共建“一带一路”国家政府间数字港口信息化建设技术合作，促进多边合作交流。

培训内容

本研修班将采用专题讲座、案例分析、交流研讨会、技术考察和访问等多种方式进行。

具体内容包括：

1. 中国港口建设与管理现状与成就；
2. 中国港口数字化建设的现状及发展趋势；
3. 中国港口数字化转型技术及应用实例分析；
4. 中国全自动化码头系统管理经验及标准体系建设；
5. 港口数据安全的保障措施和手段；
6. 中国传统码头智能化、数字化改造的案例实践；
7. 参访各国港口数字化发展现状及存在的技术问题研讨；
8. 实地参观考察。

承办单位：交通运输部水运科学研究院

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International Training Workshop on Port Digital Transformation for Belt and Road Countries

 **Time:** June, 2024

 **Venue:** Beijing, Ningbo

 **Working Language:** English

Objectives

This training course aims to promote China's technologies and experiences in port digitalization, strengthen the understanding of trainees from BRI partner countries on the practical applications of China's information technologies in areas like intelligent and digitalized port development, enhance their recognition and understanding of port digitalization technologies and applications, advance technical cooperation between China and BRI partner countries on government digital port information construction, and facilitate multilateral cooperation and exchanges.

Programs

This training will be conducted through various methods such as special lectures, case studies, exchange seminars, technical investigation and site visits.

The specific content includes:

1. Current status and achievements of China's port construction and management.
2. Current status and development trends of China's port digitalization.
3. Analysis of China's port digital transformation technologies and application cases.
4. China's experience in fully automated terminal system management and standards system construction.
5. Security measures and means for port data security.
6. Case studies and practices of intelligentization and digital transformation of China's traditional terminals.
7. Discussion on the current status of port digitalization development and existing technical problems in the trainee countries.
8. On-site visits.

Organizer: China Waterborne Transport Research Institute
Address: 8th Xitucheng Road, Haidian District, Beijing, China
Postcode: 100088
Coordinator: Ding Qian

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援巴海洋信息技术研讨与实践国际培训班

- 🕒 **举办时间:** 2024 年 7 月
- 📍 **举办地点:** 黑龙江哈尔滨
- 🗣️ **工作语言:** 英语

培训目的

本项目主要围绕巴基斯坦急需海洋信息相关科学来辅助其经济开发、生态保护、文化生活等各方面发展的事实。由于海洋信息科学在巴基斯坦尚处于起步阶段，在相关方面的理论知识、实际设备开发、人员从业经验都有待提升。本项目将通过举办海洋信息理论研讨会，并结合海洋信息实践培训的方式，提升巴基斯坦相关院校在海洋信息方面的研究实力和学科建设，培养更多的高水平从业人员，解决巴基斯坦在生产实践中遇到的重大难题。

培训内容

本项目的内容分为两大部分，共计 15 天。

1. 在哈尔滨工程大学举办海洋信息理论研讨会

利用哈尔滨工程大学在海洋信息领域的丰厚积累和领先地位，将在哈尔滨工程大学举办海洋信息理论研讨会，分别在水声物理、水下通信、水声探测、水声定位、水下机器人这五个课题，为来访的外国人员进行理论知识培训和交流研讨，并提供相关仪器设备的参观和演示活动。

2. 在哈尔滨工程大学举办海洋信息实践培训班

在理论研讨会之后，中方相应专家和人员将为国外来访人员提供实践培训，指导他们使用相关仪器设备，并开展联合实验，培养相关人员的动手实践能力

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China Pakistan Marine Information Workshop and Training Course

 **Time:** July, 2024

 **Venue:** Harbin, Heilongjiang

 **Working Language:** English

Objectives

This project mainly focuses on the fact that Pakistan is in urgent need of marine information science to assist its economic development, ecological protection, cultural life and other aspects of development. As marine information science is still in its infancy in Pakistan, theoretical knowledge, practical equipment development and personnel experience in related aspects need to be improved. By holding seminars on marine information theory and combining with practical training on marine information, this project will enhance the research strength and discipline construction of relevant institutions in Pakistan in marine information, train more high-level practitioners, and solve major problems encountered in production practice in Pakistan.

Programs

This training course is divided into two parts and lasts 15 days:

1. Hold a workshop on marine information theory in Harbin Engineering University

Taking advantage of the rich accumulation and leading position of Harbin Engineering University in the field of marine information, the marine information theory seminar will be held in our school, respectively, in the five topics of underwater acoustic physics, underwater communication, underwater acoustic detection, underwater acoustic positioning, and underwater robots, to provide theoretical knowledge training and exchange discussions for foreign visitors, and provide visits and demonstrations of relevant instruments and equipment.

2. Hold a marine information practice training courses in Harbin Engineering University

After the theoretical seminar, our corresponding experts and personnel will provide practical training for foreign visitors, guide them to use relevant instruments and equipment, and carry out joint experiments to cultivate the hands-on practical ability of relevant personnel.

Organizer: Harbin Engineering University

Address: No.145 Nantong Street, Nangang District, Harbin
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Coordinator: Ma Lu

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空间科学卫星数据处理与分析国际培训班

🕒 举办时间：2024 年 6 月

📍 举办地点：北京

🗣️ 工作语言：英语

培训目的

本期培训班的预期目标是面向共建“一带一路”国家分享中国自主空间科学数据资源和空间科学研究经验，鼓励更多的青年科研工作者应用中国空间科学卫星数据开展空间科学领域基础研究，帮助发展中国家提升空间科学基础研究能力，在空间科学研究方面寻求和发现更多合作方式与伙伴。

培训内容

中国科学院国家空间科学中心计划组织实施中国空间科学任务数据分析与应用培训项目，培训项目将面向共建“一带一路”国家以及具有一定空间科学研究基础和设施的新兴航天国家的博士生或博士后等青年研究人员开放。旨在帮助青年科研工作者了解中国空间科学卫星任务，获取和使用空间科学卫星数据进行科学研究。本期培训内容聚焦于空间科学先导专项首发星 DAMPE 卫星伽马射线数据的统计与分析方法、伽马射线科学研究主题报告等。在课程结束时，将设置一项作业用以鼓励学生在实践中分析应用 DAMPE 数据进行科学研究。

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Data Analysis and Processing International Training Program of Space Science Satellite Project

 **Time:** June, 2024

 **Venue:** Beijing

 **Working Language:** English

Objectives

The objective of this training program is as follows:

1. Sharing China's space science data and research experience with BRI partner countries; 2. Encouraging the young researchers to involve in the China's space science data application and space scientific research; 3. Contributing to the development of space science research among the countries of the Belt and Road Initiative; 4. Developing the exchanges and cooperation among the countries of the Belt and Road Initiative Programs.

Programs

National Space Science Center, Chinese Academy of Sciences (CAS) proposes a training program on China space science missions' data analysis and application. The training program will be open to postgraduates or postdoctoral researchers from BRI partner countries and emerging aerospace countries with space program and facility. It aims to help those researchers in their early stage to get an idea of China space science missions, and learn to acquire and apply space science satellite data to scientific research.

The training program will concentrate on the statistic method and the analysis software for the gamma-ray data of Dark Matter Particle Explore (DAMPE) satellite mission. Lectures and short reviews on some gamma-ray scientific topics will also be presented in this training program. In the end of program, an assignment will be given to encourage the students to analyze the DAMPE data in practice for the scientific research.

Organizer: National Space Science Center, Chinese Academy of Sciences

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智能制造系统关键技术及其应用国际培训班

- 🕒 **举办时间:** 2024 年 5 月
- 📍 **举办地点:** 四川绵阳
- 🗣️ **工作语言:** 英语、越南语

培训目的

近年来,中国在高质量发展转型过程中科学技术进步取得了长足进步,中国一直秉承世界命运共同体的理念。越南作为邻国,也是友国,近年来经济发展速度很快,但是绝大多数企业是劳动密集型企业,其生产效率和质量亟须不断提升,因此对越南开展“智能制造关键使能技术及其应用”培训具有如下目的。

1. 先进制造技术对制造业的赋能和增效提质。通过先进制造技术的普及和推广,提升越南制造业企业的整体自动化水平,提升企业产能和产品质量,进而加快世界的整体复苏。
2. 扩大中国先进制造技术及产品对越南的惠及。通过培训扩大本国企业技术的输出,加快中国经济和越南经济的快速发展,加快中国智造技术在一带一路国家的拓展和发展。

培训内容

1. 先进制造技术总体概论及其发展趋势(8学时理论);
2. 现代设计技术概述及其方法(计算机辅助设计)(16学时理论+12学时实践);
3. 制造自动化技术概述及其在制造业的应用(10学时理论+8学时实践);
4. 工业机器人技术在制造业中的集成创新应用(10学时理论+8学时实践);
5. 机器视觉技术在制造业的典型应用案例分析(10学时理论+6学时实践);
6. 人工智能与大数据技术在制造业的应用及其案例分析(8学时理论+6学时实践);
7. 智能工厂与绿色制造集成设计方法(10学时理论);
8. 智能制造典型工厂参观与调研(4学时实践)。

承办单位: 西南科技大学

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International Training Course on Key Technologies for Intelligent Manufacturing and its Applications

 **Time:** May, 2024

 **Venue:** MianYang, Sichuan

 **Working Language:** English, Vietnamese

Objectives

In recent years, China has made great progress in science and technology in the process of high-quality development transformation, and its influence in third world countries has gradually increased. China has been adhering to the concept of a community with a shared future. As a neighbor and friend country, Vietnam has developed rapidly in recent years, but the vast majority of enterprises are labor-intensive enterprises, and their production efficiency and quality need to be continuously improved. Therefore, carrying out the “advanced manufacturing key technology and its application” for Vietnam has the following purposes:

1. Advanced manufacturing technology for the manufacturing industry to enable and improve efficiency and quality.
2. Expand the benefits of China’s advanced manufacturing technology and products to Vietnam.

Programs

- 1.General introduction to advanced manufacturing technology and its development trend (8 credit hours, theory) .
- 2.Overview of modern design technology and its methods (computer-aided design) (16 credit hours theory + 12 credit hours practice) .
- 3.Overview of manufacturing automation technology and its application in manufacturing industry (10 credit hours theory + 8 credit hours practice) .
- 4.Integrated and innovative application of industrial robot technology in manufacturing industry (10 credit hours theory + 8 credit hours practice) .
- 5.Analysis of typical application cases of machine vision technology in manufacturing industry (0 credit hours theory + 6 credit hours practice) .
- 6.Application and case analysis of artificial intelligence and big data technology in manufacturing industry (8 credit hours theory + 6 credit hours practice) .
- 7.Integrated design method of smart factory and green manufacturing (10 credit hours theory).
- 8.Intelligent manufacturing typical factory visit and research (4 hours of practice).

Organizer: Southwest University of Science and Technology

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船舶检验技术管理国际培训班

🕒 举办时间：2024 年 5 月

📍 举办地点：湖北武汉

🗣️ 工作语言：英语

培训目的

通过邀请“一带一路”有关国家的船舶检验部门、海事管理部门、港口管理部门、航运部门相关人员参加培训，介绍我国船检技术、船检制度，以及造船业、航运业发展情况和最新技术，可有效促进相关国家航运技术发展，保障航运安全，保护海洋环境。同时，也可有效扩大朋友圈，促进我国与相关国家在船检、海事与航运的国际合作，促进我国与各国船检技术的共同进步，增进这些国家的对华友好，建立良好合作氛围。

培训内容

授课内容为介绍我国船检技术、造船业、航运业的发展情况和最新技术，并聚焦参培国关注的重点领域，包括但不限于：中国造船、航运、船检行业发展、国际海事组织（IMO）环保及海事安全领域最新技术及公约进展、客船安全、船舶消防、内河规范及检验技术、载运危险货物船舶和 LNG 船舶技术要点、PSC 检查要点和缺陷分析、智能船舶、绿色船舶技术介绍等。此外，视情况安排学员座谈交流或实地参观，介绍中国造船及航运最新科研成果应用与实践，增进了解，拓展合作，切实落实“一带一路”科技创新合作战略目标。

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International Ship Survey Technology Management Training Program

 **Time:** May, 2024

 **Venue:** Wuhan, Hubei

 **Working Language:** English

Objectives

By inviting trainees from vessel inspection department, maritime administration, port management administration, shipping department of “Belt and Road” countries to attend the program to introduce China survey technology, survey system, the shipbuilding industry and shipping industry development situation and the latest technology, we will effectively promote the development of the related national shipping technology and ensure the safety of shipping as well as the protection of marine environment. At the same time, we will expand Chinese circle of friends, to promote international cooperation on ship survey, maritime services and shipping between China and relevant countries, promote common development of survey technology among countries, improve the friendship so as to build cooperation relationships with these countries.

Programs

This program introduces the development and latest technologies in fields of ship inspection technologies, shipbuilding industry and shipping industry in China, and focuses on the key areas of the recipient countries, including but not limited to the following:

China’s shipbuilding, shipping, ship inspection industry development, latest technology issues and progress of IMO environmental protection and maritime safety, passenger ship safety, ship fire protection, inland river regulations and inspection technology, key technologies of ships carrying dangerous goods and LNG ships, PSC inspection key points and defect analysis, intelligent ships, green ship technology introduction. In addition, participants will be arranged for discussion and exchange or field visits as appropriate to introduce the application and practice of China’s latest scientific research achievements in shipbuilding and shipping, enhance understanding, expand cooperation, and effectively implement the strategic objectives of the “Belt and Road” scientific and technological innovation cooperation.

Organizer: China Classification Society

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Coordinator: Qiao Qian

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“一带一路”港口绿色低碳与智慧发展国际培训班

🕒 举办时间：2024 年 9 月

📍 举办地点：北京

🗣️ 工作语言：英语

培训目的

向“一带一路”有关合作国家港口领域的中高级管理人员和技术人员宣传我国港口在绿色、智慧发展等方面取得的成就，讲述我国交通主管部门在加强沿海和内河港口航道规划建设，全面提升港口航道高质量发展水平等方面所做出的努力，讲好中国交通故事。

培训内容

培训班将邀请交通运输部有关司局官员、交通运输科研院所港口领域专家和交通运输行业企业管理者作为主要师资团队，培训内容涵盖我国港航政策介绍、先进技术推广、企业管理运营经验交流、交通科研院所实地调研现场教学等，主要课程包括中国交通文化、中国水运重大工程和科研历程、中国港口发展概述与绿色发展路径、中国航道管理概述、澜湄航道整治工程介绍、港珠澳大桥建设管理及实践、智慧航道建设、港口和船舶防污染方案等。

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The “Belt and Road” International Training Course on Green and Smart Development of Ports

-  **Time:** September, 2024
-  **Venue:** Beijing
-  **Working Language:** English

Objectives

The “Belt and Road” International Training Course on Green and Smart Development of Ports is held to show the achievements of China’s ports in green and smart development, targeting at senior managers and technicians in countries along the Belt and Road. The training course is expected to share China’s transport stories by imparting China’s endeavor to enhance the planning and construction of coastal and inland waterway, thus promoting high-quality development of port and waterway.

Programs

The training course is characterized by powerful teaching teams, rich contents and diversified forms. Officials from relevant departments and bureaus of the Ministry of Transport, experts from transport research institutes, as well as managers from transport enterprises will be invited to give lectures ranging from waterway related policies, technology promotion to experience in enterprise management and operation. Various training forms will be incorporated in the training course, such as lecture, discussion and on-site teaching. The training content will focus on China’s transport culture, the progress of China’s major water transport projects and scientific research, overview of China’s port development and green development path, overview of China’s waterway management, introduction to Lancang-Mekong Waterway regulation project, construction management and practice of Hong Kong-Zhuhai-Macao Bridge, smart waterway construction, prevention solutions of pollution from ports and ships.

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