**非洲国家木薯生产与加工技术研修班项目简介表**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 项目名称 | 非洲国家木薯生产与加工技术研修班 | | | | | |
| 承办单位 | 中国热带农业科学院 | | | | | |
| 举办时间 | 2021年6月28日至7月15日 | | | 项目语言 | 英语 | |
| 邀请国别 | 非洲国家 | | | 计划人数 | 25人 | |
| 培训目标 | 分享中国木薯生产和加工产业的发展现状和关键技术；帮助非洲国家提高应对热带农业产业发展挑战的能力；促进相互交流和了解，深化中非在农业等各领域的广泛合作。 | | | | | |
| 学员要求 | 专业背景 | 非洲国家政府机构、高等院校、科研院所、农业企业、各类农场等与木薯产业相关的人员 | | | | |
| 年龄 | 不高于受援国法定退休年龄 | | | | |
| 身体条件 | 身体健康，能够按时参加线上培训 | | | | |
| 语言能力 | 英语听、说、读、写能力满足授课要求 | | | | |
| 其它 | 能够使用腾讯会议平台 | | | | |
| 研修内容介绍 | 该研修班将通过专题讲座、专题研讨、云参观、云文化体验等形式，与参加研修班的学员共同探讨中非木薯生产加工现状和前景。从事木薯研究、推广、生产、加工和贸易的非洲各国学员能从本次研修班中学习掌握中国先进的木薯生产和加工技术，建立通畅的信息渠道和广泛的合作基础。  1. 主要培训课程及内容：  （1）中国疫情防控经验介绍：介绍中国在疾病救治、核酸检测、疫苗接种方面情况；  （2）中国基本国情概况：介绍中国改革开放背景和取得的巨大变化及热带农业发展；  （3）中国木薯产业及中非木薯国际合作：介绍中国木薯产业现状和中非木薯合作；  （4）中国木薯食品发展现状与前景：介绍木薯食品制作工艺、烹饪方法和食用口感；  （5）中国木薯农艺学研究：介绍木薯种植、施肥和收获等日常栽培管理；  （6）木薯主要虫害识别与防控：介绍木薯主要虫害的防控技术；  （7）木薯主要病害识别与防控：介绍木薯主要病害的防控技术；  （8）木薯种质资源与利用：介绍木薯种质资源收集、鉴定和评价；  （9）以木薯为原料生产益生菌的保存方法：介绍利用木薯生产益生菌；  （10）木薯组织培养技术和炼苗：介绍木薯组织培养过程、注意事项等技术要点；  （11）木薯先进加工技术：介绍木薯初加工和深加工的主要方法等。  研修期间，将安排知名专家学者与学员就木薯生产与加工、木薯饮食文化等内容进行线上研讨交流；还会云参观国家木薯种质资源圃、组织培养实验室、大型木薯加工厂、中国热带农业科学院展览馆、海口热带农业科技博览园、兴隆热带植物园、海南黎苗少数民族村寨等地。通过丰富的网上教学形式，研修班不仅将增强中非友谊，也将促进双方包括木薯在内的农业各领域广泛交流与合作。  2. 主讲人整体情况介绍：  （1）曾祥洁，女：海南省疾病预防控制中心副主任技师，长期从事传染病防治工作；  （2）陈秋波，男：中国热科院原副院长，研究员，长期从事国际合作工作；  （3）陈松笔，男：中国热科院品资所原副所长，研究员，从事木薯国际合作多年；  （4）张振文，男：中国热科院品资所副研究员，博士，研究方向为木薯加工；  （5）黄洁，男：中国热科院品资所研究员，长期从事基层一线木薯生产；  （6）陈青，男：中国热科院环植所研究员；  （7）时涛，男：中国热科院环植所副研究员，研究方向为木薯病害防控；  （8）欧文军，男：中国热科院品资所副研究员，参与柬埔寨木薯示范基地建设；  （9）孙海彦，女：中国热科院生物所副研究员，具有丰富的实验室操作经验；  （10）朱文丽，女：中国热科院品资所助理研究员；  （11）王飞，男：中国热科院加工所副研究员，长期为援外培训班授课。  3. 课程结束后，学员应提交国别报告，并进行线上座谈交流。 | | | | | |
| 举办地点 | 海南省海口市 | | （云）参观考察城市 | | | 海南省儋州市、万宁市、三亚市；广西壮族自治区南宁市 |
| 备注 | 1. 本次研修使用腾讯会议（国际版）平台进行线上培训，需要学员准备网络、电脑、麦克风、摄像头等有关设备。  2. 课前准备：需提前15分钟接通远程培训软件，测试设备，做好上课准备。请将个人姓名改为英文版“姓名+国别简称”（与护照一致）。  3. 教学纪律：请学员遵守上课时间和课堂纪律，出勤记录将作为颁发结业证书的依据。  4. 信息安全：为保护信息安全和个人隐私，课程资料会在课后发给学员，上课内容请不要分享到任何社交媒体。  5. 课程配备英语交传。  6. 开班前5天联系承办单位，进行网络和软硬件设备调试；承办单位提供远程技术指导和协助。 | | | | | |
| 承办单位简介 | 中国热带农业科学院（简称中国热科院）成立于1954年，是农业农村部下属的专门从事热带作物种质资源收集鉴定评价、新品种选育、栽培技术改进、病虫害防治、农业机械化和农业废弃物综合利用、热带畜禽养殖、热带农产品质量安全检测等热带农业科学研究的国家级机构。全院设有热带作物品种资源研究所、橡胶研究所、香料饮料研究所、农产品加工研究所等14个研究所，现有科技人员4000多人，其中高级专业技术人员600多人，博士400多人。中国热科院先后承担“863”计划、“973”计划、国家重点研发计划、国家自然科学基金等一批重大项目和联合国粮农组织、联合国开发计划署等国际组织重点资助项目，牵头天然橡胶、木薯、香蕉等3个国家产业技术体系建设。  中国热科院对外培训工作始于1962年，近15年来该院在商务部、农业农村部、外交部、科学技术部、联合国粮农组织、联合国开发计划署等国家部委和国际组织的大力资助和支持下举办热带农业技术援外培训班99期，培训来自世界95个国家的4011名学员。其中，2014年，联合国粮农组织授予中国热科院“FAO热带农业研究培训参考中心”。 | | | | | |
| 承办单位联系方式 | 联系人：朱家立（先生）、苏琳（女士）  办公电话：0086-898-66895787  手机：0086-15120837997（朱）、0086-18389749150（苏）  传真：0086-898-66895787  微信号：patrick\_zhujl（朱）、sulintvxq（苏）  QQ号：99220684（朱）、174705806（苏）  电子邮件地址：99220684@qq.com（朱）、sulin713802@163.com（苏） | | | | | |

**Project Introduction of Seminar on Cassava Production and Processing Technology for**

**African Countries**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Seminar on Cassava Production and Processing Technology for African Countries | | | | | |
| Organizer | Chinese Academy of Tropical Agricultural Sciences | | | | | |
| Time | 28th June-15th July, 2021 | | | Language | | English |
| Invited Countries | African Countries | | | Number of Participants | | 25 |
| Purpose | To share the development situations and important technologies of cassava production and processing industry in China, to help African countries to facilitate the capacity of facing the challenges in tropical agricultural industry development; to promote the mutual communication and understanding, deepen the wide cooperation in agriculture and other areas between China and African countries. | | | | | |
| Requirements for Participants | Professional Background | Officials, scientists, technicians and other persons working in cassava industry from the government, university, research institute, agricultural company, farm and so on in African countries | | | | |
| Age | Not exceed the statutory retirement age in participant’s own country | | | | |
| Health Condition | Be in good health and capable of attending online training as scheduled | | | | |
| Language Proficiency | Fluent in English (listening, speaking, reading and writing) | | | | |
| Others | Capable of using the platform of VooV Meeting | | | | |
| Seminar Content | The seminar will discuss the current situations and prospects of cassava production and processing in China and African countries with the form of online lectures, discussions, virtual tours and cultural experience, etc. The participants engaged in cassava research, promotion, production, processing and trade in African countries can obtain China’s advanced cassava production and processing technologies, establish one clear information channel and a wide range of cooperation with China.  1. The seminar covers a broad spectrum of lectures:  (1) Introduction to experience of pandemic prevention and control in China: introduce the circumstances of disease treatment, nucleic acid test and vaccine inoculation in China;  (2) General introduction to China’s national conditions: introduce the background of China’s reform and opening and its huge changes, as well as the development of tropical agriculture;  (3) China cassava industry and international cooperation with African countries: introduce current situations of China cassava industry and cassava cooperation between China and African countries;  (4) The development situation and prospect of Chinese cassava food: introduce the cooking method and taste;  (5) Cassava agronomy research in China: introduction to plantation, fertilization and harvest;  (6) Pest management of cassava: introduce prevention and control technologies of cassava pest;  (7) Cassava disease management: introduce prevention and control technologies of cassava disease;  (8) Cassava genetic resources and its utilization for breeding: introduce the collection, identification and analysis of germplasm resources in cassava;  (9) Storing method of probiotics based on cassava: introduce production of probiotics using cassava;  (10) Cassava tissue culture and domestication: introduce procedures and notes when tissue culture;  (11) Advanced processing techniques for cassava: introduce the principal methods of preliminary and intensive processing for cassava, etc.  During the seminar, we will also arrange well-known experts to interact with participants online about cassava production and processing, as well as cassava food culture, prepare virtual tours to the national cassava germplasm resources nursery, laboratory of tissue culture, large cassava processing plant, exhibition hall of Chinese Academy of Tropical Agricultural Sciences, Haikou Exposition Park of Tropical Agricultural Science and Technology, Xinglong Tropical Botanical Garden, Hainan Li & Miao Minority Cultural Heritage Village and other places. Through a variety of online activities, the seminar will not only enhance friendship between China and African countries, but also promote the mutual exchange and cooperation in agriculture including cassava at the same time.  2. General introduction to experts of lectures:  (1) Ms. ZENG Xiangjie: associate senior technologist of Hainan Center for Disease Control and Prevention (CDC), undertaken prevention and treatment of infectious diseases for a long term;  (2) Mr. CHEN Qiubo: former vice president of Chinese Academy of Tropical Agricultural Sciences (CATAS), researcher, engaged in international cooperation for many years;  (3) Mr. CHEN Songbi: former vice director of Tropical Crops Genetic Resources Institute (TCGRI), CATAS, researcher, engaged in cassava international cooperation for a long time;  (4) Mr. ZHANG Zhenwen: associate researcher of TCGRI, CATAS in cassava processing;  (5) Mr. HUANG Jie: researcher of TCGRI, CATAS in cassava production with smallholders;  (6) Mr. CHEN Qing: researcher of Environment and Plant Protection Institute (EPPI), CATAS;  (7) Mr. SHI Tao: associate researcher of EPPI, CATAS in cassava disease prevention and control;  (8) Mr. OU Wenjun: associate researcher of TCGRI, CATAS, participated in construction of cassava demonstration bases in Cambodia;  (9) Ms. SUN Haiyan: associate researcher of Institute of Tropical Bioscience and Biotechnology (ITBB), CATAS with a fruitful experience of cassava operation in laboratory;  (10) Ms. ZHU Wenli: assistant researcher of TCGRI, CATAS;  (11) Mr. WANG Fei: associate researcher of Agricultural Product Processing Research Institute (IAPPR), CATAS, and engaged in training courses as the lecturer for many times.  3. After lectures, participants need to join the online discussion and prepare the country report. | | | | | |
| Host City | Haikou City, Hainan Province | | Cities of Virtual Tours | | Danzhou City, Wanning City, Sanya City, Hainan Province; Nanning City, Guangxi Zhuang Autonomous Region | |
| Notes | 1. The seminar will be held online through VooV Meeting which requires participants to prepare necessary equipment, such as: internet connection, computer, microphone, camera, etc.  2. Participants should enter the virtual classroom in advance 15 minutes with the screen name “NAME+COUNTRY”, which is identical to the passport information.  3. Participants should be punctual and well-disciplined. The Certificate of Completion will be issued to those who meet all the requirements including good attendance records.  4. Participants should protect security of information and personal confidentiality concerning the seminar. Course materials will be given to participants after class, which shall not be shared via social media.  5. The courses are accompanied by English consecutive interpretation.  6. Contact the organizer prior to 5 days for testing Internet, software and hardware; the organizer will provide remote technical guidance and assistance. | | | | | |
| About the Organizer | As the national tropical agricultural scientific and research institute under the administration of Ministry of Agriculture and Rural Affairs of the People’s Republic of China, Chinese Academy of Tropical Agricultural Sciences (abbreviated as: CATAS) was founded in 1954 and its goals are focused on the collection, identification and analysis of germplasm resources in tropical crops, new variety breeding, cultivation technology improvement, integrated pest management, agricultural mechanization and waste materials utilization, farming of tropical livestock, testing for quality and safety of tropical agricultural products, etc. CATAS has 14 research institutes, such as: Tropical Crops Genetic Resources Institute, Rubber Research Institute, Spice & Beverage Research Institute, Agricultural Product Processing Research Institute, etc., with a number of more than 4000 staffs, including 600 advanced professional researchers and 400 doctors. CATAS has undertaken a host of major national projects including “863” Project, “973” Project, National Key R & D Plan, National Natural Science Foundation as well as a number of key projects funded by international organizations, such as: FAO and UNDP, etc. CATAS leads construction of national industrial technology system in natural rubber, cassava and banana.  CATAS begins to offer training aid since 1962, and for the last 15 years, CATAS offers more than 99 international training courses to 4011 participants from 95 countries in the world with the sponsor of Ministry of Commerce, Ministry of Agriculture and Rural Affairs, Ministry of Foreign Affairs, Ministry of Science and Technology, FAO and UNDP etc. CATAS was awarded “FAO Reference Center for Tropical Agriculture Research and Training” by FAO in 2014. | | | | | |
| Contact the Organizer | Contact Persons: Mr. ZHU Jiali, Ms. SU Lin  Telephone: 0086-898-66895787  Mobile Phone: 0086-15120837997 (Mr. ZHU), 0086-18389749150 (Ms. SU)  Fax: 0086-898-66895787  WeChat: patrick\_zhujl (Mr. ZHU), sulintvxq (Ms. SU)  QQ: 99220684 (Mr. ZHU), 174705806 (Ms. SU)  E-mail: 99220684@qq.com (Mr. ZHU), sulin713802@163.com (Ms. SU) | | | | | |