

**INTERNATIONAL WORKSHOP  
ON  
“DEVELOPMENT OF FOOD GREEN CITIES  
FOR URBAN SUSTAINABILITY”**

**April 26-27, 2022**

**(A Virtual Event)**

*Organised by -*



***Nepal Academy of Science and Technology (NAST)  
Lalitpur, Nepal***

*in partnership with*



***Centre for Science and Technology of the  
Non-Aligned and Other Developing Countries  
(NAM S&T Centre), New Delhi, India***

## INTRODUCTION:

Globally, the urban population is increasing rapidly to 55% and is expected to increase to 68% by 2050. This rapid population increase will take place mainly in developing countries, so proper planning and management is essential for sustainable urban development.

There is a huge demand of food supply for urban inhabitants due to the increasing trend of urbanization. The current food system in the cities cannot meet the growing food demand sustainably. With urbanization, food insecurity issues arise and modern urban agriculture systems could be a means to decrease food supply risks. Urban agriculture can play a valuable role in sustainable food systems with environmental, social, economic and health benefits. So the national and local governments need to become more strategic in responding to the challenges and opportunities posed by rapid urbanization by formulating a national urbanization strategy and better coordinated actions by all the stakeholders involved including the private sector.

The advancement of urban agriculture can help to manage urban food production, promote greeneries and facilitate waste management by properly maintaining public health. The local production and use of seasonal foods help to meet the food demand of seasonal products in short supply chain and improve resource efficiency by decreasing the waste or loss of food produced for human consumption that will help to fulfill the Sustainable Development Goals (SDG 11) of cities and communities. For urban areas to produce food itself to some extent and maintain greenery, the concept of Food Green City (FGC) is realized i.e. by integrating urban agriculture with urban planning for addressing socio-economic and environmental issues. It can also improve the quality of local food products that are without pesticides, seasonal, fresh, prevent waste and are delivered in a more sustainable and less carbon intensive way.

The green roof technologies has gained popularity fulfilling the demand of fresh healthy organic food to the city dwellers due to COVID pandemic keeping natural green environment improving air quality. So, food green city approaches are being realized using various methods of urban horticulture practices like utilizing barren lands of city gardens, parks, roadsides, roof tops and balconies along with modern soil less vertical farming like aquaponics, hydroponics and aeroponics. These approaches shorten the food supply chain fulfilling the food demand in cities and improving environmental quality by consuming less energy and resources. It generates the entrepreneurship among the youths and beautifies the cities by conserving landscapes. Green spaces are also imperious for improving mental and physical health of the urban population.

In this context, to develop Food Green Cities combining urban agriculture and the land used in planning and management system along with solid waste management to provide healthy food and social living environments with improving socio-economic and employment generation in the cities, the Centre for Science & Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre), New Delhi jointly with Nepal Academy of Science and Technology (NAST), Lalitpur, Nepal is organizing a two days International Workshop on '**Development of Food Green Cities for Urban Sustainability**' during **April 26-27, 2022**. The Workshop will be hosted by NAST and organized in **Virtual-Mode**.

### **PROPOSED OBJECTIVES:**

To set the pillars of food green city for better land use with extensive greenery, energy efficient technologies, food security, socio-economic growth integrating modern organic farming systems and improving traditional local technologies to fulfill the specific need of country adaptations in urban agriculture generating entrepreneurships and employment opportunities.

The Workshop intends to provide basic knowledge on the subject through interactive lectures about various aspects of the Development of Food Green Cities and explore various concepts, opportunities and challenges.

### **TOPICS TO BE COVERED:**

The Workshop will cover the following topics:

- Concept of Food green Cities: Opportunities and Challenges
- Existing Urban Food Supply Chain and its Sustainability
- Integrated Organic Farming Techniques
- Organic Certification and R&D on Value Chain of Agricultural Products
- Methods of Urban Agriculture: Traditional versus Modern
- Urban Agricultural Products
- Solid Waste Management and Utilization
- Digital Platform for Food Green Cities

## IMPORTANT DATES:

ACTIVITY	DATE
<i>Registration/Submission of Applications (along with Extended Abstract) Starts</i>	<i>March 18, 2022</i>
<i>Deadline for Submission of Applications (along with Extended Abstract)</i>	<i>April 18, 2022</i>
<i>Submission of Manuscripts of Papers</i>	<i>April 20, 2022</i>
<i>Confirmation to Selected Applicants and Communication of Virtual Platform Details (Link)</i>	<i>April 22, 2022</i>
<i>Dates of the Workshop</i>	<i>April 26-27, 2022</i>

## PROGRAMME:

A tentative program of the Workshop is given below:

TIME (Nepal Time: GMT+5:45 hrs.)	PROGRAMME STRUCTURE	
	26 April 2022 (Tuesday)	27 April 2022 (Wednesday)
11:30 am -12:00 pm	<i>Inaugural Session</i>	<i>Keynote Lecture - III</i>
12:00 pm -12:30 pm	<i>Keynote Lecture - I</i>	<i>Keynote Lecture - IV</i>
12:30 pm -13:30 pm	<i>Technical Session - I</i>	<i>Technical Session - III</i>
13:30 pm -14:00 pm	<i>Break</i>	
14:00 pm -14:30 pm	<i>Keynote Lecture - II</i>	<i>Keynote Lecture - V</i>
14:30 pm -15:30 pm	<i>Technical Session - II</i>	<i>Concluding Session and Adoption of Resolution</i>

*Note- A final Session-wise Programme will be made available to the participants before the Workshop*

## CERTIFICATES:

A Certificate of Participation will be provided to the participants electronically on the successful completion of the Workshop.

## ABOUT THE ORGANIZERS:

### ❖ NAM S&T CENTRE:

The Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre), New Delhi is an Inter-governmental Organization with a Membership of 47 countries spread over Asia, Africa, Middle East and Latin America. The Centre was set-up in 1989 in New Delhi, India in pursuance of the decisions of various NAM Summits with the objective of promoting mutually beneficial cooperation among the NAM and other developing countries for collective self-reliance. The Centre undertakes a variety of programmes, including organization of International Workshops, Conferences and Training Courses, and implementation of Collaborative S&T Projects. It also offers short-term Research Fellowships to Scientists and Technologists from developing countries in association with the Centres of Excellence in various countries. The Centre also brings out books, monographs and other scientific publications in different subjects that are of interest to developing countries. The Centre's activities provide opportunity for scientist-to-scientist contact and interactions, familiarizing participants on the latest developments and techniques in the subject areas, identification of the requirements of training and expert assistance, locating technologies for transfer between the Members and other developing countries, and dissemination of STI information etc. In addition, the Centre encourages *Academic-R&D-Industry Interactions* in the developing countries through its NAM S&T-Industry Network.



### ❖ NEPAL ACADEMY OF SCIENCE AND TECHNOLOGY (NAST):

Nepal Academy of Science and Technology (NAST) is an autonomous apex body established in 1982. The aim of this body is to promote science and technology in the country. The objectives of NAST are: advancement of science and technology for all-round development of the nation; preservation and further modernization of indigenous technologies; promotion of research in science and technology, and identification and facilitation of appropriate technology transfer.



## PARTICIPANTS:

Researchers, scientists, technocrats, innovators, government officials and policy makers, municipality administrators and representatives from industry and non-government organizations - who are engaged in the field of industrial research and areas related to urban agriculture; are invited to participate in this Workshop. The combination of participants from various developing countries will allow for exchange of knowledge, ideas and experiences as well as opportunities for global networking and collaboration. Please note that English will be the official language of the Workshop.

## RESOURCE PERSONS:

The resource persons for the Workshop will comprise eminent experts and professionals in the relevant fields from Nepal, India and other developed and developing countries.

## SUBMISSION OF APPLICATIONS:

Interested experts and professionals from the NAM and other developing countries may submit their applications electronically to the Director General, NAM S&T Centre, New Delhi at the official email address: [namstcentre@gmail.com](mailto:namstcentre@gmail.com) as early as possible but latest by **18 April, 2022 (Monday)**.

Applicants from Nepal can, however, send their requests directly to the Chief Scientific Officer, Nepal Academy of Science and Technology (NAST) at email address: [kantishrestha2006@gmail.com](mailto:kantishrestha2006@gmail.com).

**Presentation of Papers:** Participants are welcome to present research/scientific papers or country status reports during the Workshop on any of the themes related to the Workshop. Therefore, applicants may submit the abstracts of their papers that will be presented by them along with the applications.

The following documents must be submitted as attachments along with e-mail:

- i. Filled-in **Application Form** (blank-form enclosed)
- ii. An **Opinion** (a short paragraph; in **MS-Word** only) on what qualifies you to participate in the Workshop
- iii. A **Short CV** (maximum two pages in the format enclosed; in **MS-Word** only)
- iv. An **Extended Abstract** (in **MS-Word** only) of the Paper that would be presented at the Workshop (about 1-1 ½ pages)

*Note: The documents at (ii), (iii) and (iv) above must be in MS-Word format only; PDF or image files will not be accepted. Hard copies of the Nomination Form and the above attachments are **NOT REQUIRED** to be submitted.*

## PUBLICATION OF AS FOLLOW UP OF THE WORKSHOP

A Publication edited by one or more international experts and based on the papers presented by the participants during the Workshop and also containing papers contributed by other eminent experts in the field will be published in the form of a book as a follow-up of this Workshop. Therefore, all participants are requested to submit the manuscripts of their full papers (in MS-Word format only) well in advance, but latest by **20 April, 2022 (Wednesday)**.

## SELECTION OF APPLICANTS:

Selection of applicants will be made based on their academic and professional background, and relevance of their current engagements in the concerned fields. Successful applicants will be electronically informed about their selection by **22 April, 2022 (Friday)**.

The details about the virtual-platform that will be used for the Workshop including the log-in details will be communicated to all the selected applicants.

## SECRETARIAT AND ENQUIRIES:

<p><b>NAM S&amp;T CENTRE</b> <b>AmitavaBandopadhyay, Ph.D.</b> Director General Centre for Science &amp; Technology of the Non-Aligned and other Developing (NAM S&amp;T Centre) Core-6A, 2nd Floor, India Habitat Centre, Lodhi Road New Delhi – 110003, India Tel: +91-11-24645134, 24644974; Fax: +91-11-24644973 E-mail: <a href="mailto:namstcentre@gmail.com">namstcentre@gmail.com</a> Website: <a href="http://www.namstct.org">http://www.namstct.org</a></p>	<p><b>NEPAL ACADEMY OF SCIENCE AND TECHNOLOGY</b> <b>KantiShrestha, Ph.D.</b> Chief Scientific Officer Faculty of Science, Nepal Academy of Science and Technology (NAST), Khumaltar, Lalitpur, Nepal PO BOX: 3323, Kathmandu Tel: 00977-1-5547715/5547714, Fax: 00977-1-5547713 Mob: 00977-9851163250 Email: <a href="mailto:kantishrestha2006@gmail.com">kantishrestha2006@gmail.com</a> Website: <a href="http://nast.gov.np/new/">http://nast.gov.np/new/</a></p>
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**26 - 27 APRIL, 2022  
[VIRTUAL-MODE]**

**APPLICATION FORM**

PLEASE TYPE OR USE BLOCK CAPITALS  
(NO COLUMN SHOULD BE LEFT BLANK)

**SECTION –A**

(To be filled in by the Applicant)

1 First Name (Prof. /Dr. /Mr. /Mrs. /Ms.): .....

Middle Name: .....

Last Name: .....

2 Father's / Spouse Name: .....

3 Designation (Position held): .....

4 Nationality: .....

5 Date of Birth: .....

Place of Birth (City) .....(Country).....

6 Name of the Parent Institution (Employer): .....

Full Address (Office): .....

.....

Phone: ..... Fax: .....

E-mail: .....

7 Full Address (Home): .....

.....

Phone: ..... Mobile: .....

Fax: ..... E-mail: .....

8 Educational Qualifications: Highest Degree. ....  
Year of Award: ..... University: .....  
Field of Study: .....

9 Brief Bio data (CV)  
.....

*(Maximum two pages in MS Word only; to be attached on separate sheet as per the attached format)*

10 A Write-up (in MS-Word format only) on what qualifies you to attend the Workshop

11 An Extended Abstract (in MS-Word only) of the Paper that would be presented at the Workshop (about 1-1 ½ pages)

Date: ..... Signature: .....

**SECTION –B**

**ENDORSEMENT BY THE NOMINATING AUTHORITY**

*(The Applicant in a Member Country of the NAM S&T Centre must get the Nomination Form endorsed by the Focal Point of the Centre in his/her country, if he/she wishes to take advantages extended to the official nominee of the country. For the list of member countries and names /addresses of the Focal Points please visit the Centre’s official website; [www.namstct.org](http://www.namstct.org).)*

Signature: .....

Name (in full): .....

Designation: .....

Date: .....

**SEAL**

**Enclosures:**

1. A Brief CV (maximum two pages, as per attached format; in MS Word only)
2. An Opinion (in MS-Word format only) on what qualifies you to attend the Workshop
3. An Extended Abstract (in MS-Word only) of the Paper that would be presented at the Workshop (about 1-1 ½ pages)

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**CURRICULUM VITAE**

**1. Personal Details:**

**Name:** *(Prof/Dr/Mr/Mrs/Ms)*  
*Roman*

**Font Name:** *Times New*

**Designation:** *Position Title*

**Font Size:** *12*

**Present Employer:** *Full Address (Office)*

**City/State/Province:**

**Country:**

**Nationality:**

**Date of Birth:** *dd/mm/yyyy*

**Proficiency in English Language:**

**Permanent Address:** *Full Address (Home)*

**Gender:**

**Contact: Mobile:**

**Telephone Office:**

**Fax:**

**E-mail:**

**Alternative e-mail:**

**2. Academic Qualifications:** *In chronological order*

<b>Qualification Awarded</b> <i>Degree/Diploma/Certificate</i>	<b>Major Subject</b>	<b>University/ Institution</b>	<b>Year</b> <i>(From-To)</i>

**3. Professional Experience:** *In chronological order*

Organisation/ Institution	Position Title	Year (From-To)	Nature of duties
i.			
ii.			

*Total number of years of relevant experience –*

**4. Research Experience:** *In chronological order*

Research Title	Duration	Status

**5. Experience with respect to the title of the Workshop:**

**6. Details of Awards/Recognitions (if any):**

**7. Any other information:** *Not more than 50 words*

**8. Recent Publications:** *Only five recent publications to be mentioned*

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