

4th International Conference on Global Efforts on Agriculture Forestry, Environment and Food Security

September 17-19, 2022

VENUE: Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal

Publication Partners:

International Journal of Agricultural and Applied Sciences (IJAAS)
Universal Journal of Agricultural Research (UJAR)- Scopus Indexed

Organized by



Agricultural & Environmental Technology Development Society (AETDS), U. S. Nagar, Uttarakhand, India



Institute of Forestry, Tribhuvan University, Nepal



Faculty of Agriculture (FOA), Agriculture and Forestry University, Chitwan, Nepal



Forest Research Centre for Eco-rehabilitation, Prayagraj (U.P.), India



Gandaki University (GU), Pokhara, Nepal

in association with



Institute of Root Biology, Yangtze University, China



Soils, Water and Environmental Res. Inst. (SWERI), Agriculture Research Center, (ARC) Giza, Egypt



HIGHLIGHTS OF THE CONFERENCE SESSIONS

- Technical Session having Lead, Oral and Poster Presentations
- Expert lectures from invited speakers
- Plenary & Concluding sessions
- Best Oral/Poster Presentation Award (each technical session)

Important Dates

Last date for receipt of abstracts:	20.07.2022
Communication of acceptance:	20.07.2022
Last date for registration:	20.07.2022
Last date Nominations for Award:	20.07.2022
Last Date for Submission of Papers/ Book Chapters:	20.07.2022

Conference Registration Form : <https://tinyurl.com/2p8rxjew>

Contact us :

www.agetds.com, Email: gafef2022@gmail.com



+91 7004942581, 7677466479, 9319931159, 9412970088

Invitation

Welcome to the 4th International Conference on “Global Efforts on Agriculture, Forestry, Environment and Food Security (Theme: Climate Change and Its Impact) (GAFEF-2022)” that will be jointly organized by Agricultural & Environmental Technology Development Society (AETDS), U.S. Nagar, Uttarakhand, **India**, Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, **Nepal**, Faculty of Agriculture, Agriculture and Forestry University, Rampur, Chitwan, **Nepal**, Forest Research Centre for Eco-rehabilitation, Prayagraj (U.P.), **India**, Gandaki University, Kaski, Pokhara, **Nepal** & in association with Institute of Root Biology, Yangtze University, **China** and Soil, Water & Environment Research Institute, Giza, **Egypt** at Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal on **September 17-19, 2022**.

The Organizing Committee of the Conference takes this privilege to invite scientists, researchers, academicians of national and international repute, professionals, research scholars, NGOs, social and extension workers, students, corporate, entrepreneurs, farmers, and others who are actively involved in Research and Development practices related to agricultural and applied sciences. The major objective of the conference is to provide a unified global platform representing multiple disciplines to share and discuss their experiences, research findings, and developmental activities in agricultural and applied sciences align to development of agriculture with other complimentary disciplines.

ABOUT THE INTERNATIONAL CONFERENCE

Agriculture is the cornerstone of developing countries; more than 60% of people depend on it for their survival. The agricultural sector is confronted with several global difficulties, including climate change, urbanization, resource sustainability, and environmental issues such as; run-off and pesticide and fertilizer accumulation. However, increasing agricultural productivity remains the most plausible option to meet the tremendous challenge of feeding 9.8 billion people by 2050, necessitating a 70 per cent increase in food output. Experience of countries that have succeeded in reducing hunger and malnutrition shows that growth originating in agriculture, through smallholder farmers, is at least twice as effective in benefiting the poorest as growth from non-agriculture sectors.

4th International Conference on “Global Efforts on Agriculture, Forestry, Environment and Food Security (Theme: Climate Change and Its Impact) (GAFEF-2022)” has been designed to focus on various scientific tracks covering major areas of research on agriculture, biological and applied sciences. This Conference anticipates to bring together the global scientific community, policymakers, administrators, industry representatives, and other stakeholders for real brain storming on these glaring issues related to current crisis of global agriculture.

I. Presentations during Conference

Lead Paper Presentations/Invited Talk

The presentation under this category would offer an insight into the various themes of the conference. A Technical Committee will identify 2-3 speakers in each theme. Each lecture will be of 15-20 minutes followed by discussion. Lead speakers of the congress will be requested to provide 3-4 pages extended summaries of their presentation for inclusion in the congress proceedings.

Contributory Paper Presentations

This section would provide an opportunity for oral presentation of research papers received/submitted for poster presentation. Limited number of papers will be selected by the committee for presentation based on importance of subject matter and its relevance to the sub-themes of the congress and speakers will be informed well in advance for making the presentation. The presentation will be of 7-8 minutes.

Poster Presentations

Separate 'Poster Sessions' covering all the themes will be organized to encourage wider interaction and information sharing. The extended summary contributed for presentation will be screened as per the theme. Each poster session will have Chairman and Co-Chairman. They will prepare and present summary of the concerned Poster Session for formulation of meaningful recommendations.

II. Exhibition and Advertisement

An exhibition will be organized at the venue. The details of the space available and charges etc. will be made available in the second circular and on the Society Website. Advertisement can be included in the conference publications.

III. Guidelines for Preparation of Extended Summary

- Extended Summary should not exceed 1000 words excluding illustration (one) and references. The title should be short, specific and phrased to identify the content of the article. Heading should be in capital letter. i Extended Summary should be typed in MS-Word, Times New Roman with normal fonts. Font's size for different parts of extended summary are Title - 14 points bold, Authors – 12 point, Institute name – 11 points italic, Content – 11 points.
- Kindly Mention Name of the Theme in **Extended Summary**
- It should include the author(s) name(s), email id and place of work including the name of the university / organization, State, PIN code and the country. In case, the present address of any of the author is different, it should be given with complete address as footnote. The extended summary should begin with brief introduction and objectives, followed by methodology, results, conclusion and references (maximum two) and illustration (one). Heading of Methodology, Results, Conclusion and References should be given in capital letters. No heading for introduction is required.
- The guidelines are also available at Society [webpage \(https://agetds.com/gafef-2022-pokhara-nepal/\)](https://agetds.com/gafef-2022-pokhara-nepal/)
- **Sample Abstract/Extended Summary Format: <https://tinyurl.com/2t3rdurd>**
- The extended summaries of all the contributory papers will be published and provided to the delegates as soft copy during the conference. These must reach the Organizing Secretary in the prescribed format latest by **20.07.2022**. Extended summary prepared without following the style and format and guidelines will not be accepted for publication. A soft copy of the extended summary prepared in MS-Word doc may be mailed to : gafef2022@gmail.com
- **Conference Registration Form : <https://tinyurl.com/2p8rxjew>**

MAJOR THEMES/SUBTHEMES AND TRACKES OF THE CONFERENCE

Theme 1: Innovative Approach in Forestry, Agricultural and Allied Sciences

- Innovative approaches in Scientific and Sustainable Forest Management.
- Innovative approaches in Soil Health, Land Resources, and Land Use Planning and management
- Innovation for Precised Agriculture, Soil and Water Conservation for a sustainable agricultural system
- Modern aspects of crop production technologies
- Organic Farming with residue-free production
- Production and Management of Sericulture, Apiculture, Forestry, Vermicomposting, Fishery, Mushroom, etc.
- innovative approach for enhancing the Farmers' income
- Integrated Nutrient, Weed, Diseases and Pest Management
- International perspective in Animal Health and animal husbandry: Innovations and challenges
- Advances in Dairy Science and Technology for enhancing the farmer's income
- Modern approach of Traditional and Herbal Medicines
- Scientific studies and development in allied sectors like fisheries, dairy, poultry, home science, etc.
- ITK, ICT, IPR, Smart Agriculture and Transfer of Technology (TOT) for Farmers Innovation
- Govt. Policies and planning for Sustainable Development of Agriculture
- Hi-tech Horticulture, Horticultural innovations, food processing, and value addition
- Aquaculture: present and future
- Innovation in agricultural engineering
- Agricultural marketing, Export, entrepreneurship development, and Agri-business management opportunities
- Income Analysis of production and marketing of Agri-enterprise
- Farm mechanization and post-harvest technologies to enhance farm profitability
- Agribusiness education, research, extension and training

Theme 2: Agroforestry, Natural resource management, Food and Environmental Security

- Agroforestry and sustainable development
- Technological innovations in Agroforestry
- Agroforestry for environmental conservation, climate change adaptation and mitigation
- Agroforestry policies, implementation; and future approaches for enhanced impacts
- Natural Resources Management their Conservation and sustainable Utilization of Natural Resources
- IPR and Utilization of Plant resources: Issues and current challenges
- Bio-remediation, renewable energy and energy conservation
- Application of remote sensing and geographical information system in agriculture and natural resources management
- Regional planning and sustainable development

Theme 3: Climate Change and its Impact

- Challenges for Future Crop Altera
- Developing climate change resilient crops
- Climate Change and Abiotic stress management
- Impact of Climate Change on Insect pests, diseases and their management

- Climate Change and Horticulture
- Animal / Veterinary Sciences and Climate Change
- Approaches for Climate Change Mitigation
- Adapting Environmental Stress: Technological Advances and Unique Biological Characteristics
- Climate change and global warming: Impacts, Policies, Planning, and Management
- Green technologies for sustainability
- Environment Pollution and Disasters: Monitoring and Management
- Environmental and sustainable energy friendly resources: renewable energy, green energy, bio-fuels and waste product energy
- Medical, pharmaceutical and health care management

Theme 4: Life Sciences, Biomedical Sciences, and Biotechnological aspects

- Biodiversity (Plant/Animal) and Marine biology
- Molecular Biology, Bioinformatics, Biochemistry, Genetic Engineering, and Enzymology
- Modern Trends in Geography, Botany, Zoology, Microbiology, Plant Science, Geology, etc.
- Bio-nanotechnology
- Biotic and Abiotic Stress Management, Weather forecast
- Reproductive and molecular biology
- Infectious, viral and parasitic disease
- Wellness, health, and antibiotic resistance
- Biosynthesis, mycoscience, and metabolism
- Application of medicinal biotechnology for livelihood support
- Clinical and experimental oncology
- Biotechnology, bioinformatics, diagnostics, and therapeutics
- Bio-nanotechnology, signaling pathways, and molecular diagnostic
- Structural engineering, signal processing, imaging, image processing, hydrology, and environmental engineering

Theme 5: AGRI and Animal Husbandry Startups

- Natural Animal Nutrition- Alternative value chain other than meat products in animals- Natural Plant Protection products
 - Natural Products for Regulating Phytohormones to increase tolerance of crops towards climatic stress and disease attacks
 - Technologies for Regenerative Agriculture and Carbon farming
- All other biodiversity-friendly green technologies of startups/ideas towards sustainable Crop and Animal production**

Chairperson

- Prof. Binod Prasad Heyojoo, Campus Chief, Institute of Forestry, TU, Pokhara Campus Pokhara, Nepal
- Prof. C.P.Singh, President, AETDS and Former Prof. G.B.P.U.A.&T., Pantnagar, UK, India

Conference Director

- Dr. Arjun Prasad Bastola, Institute of Forestry, TU, Pokhara, Nepal

Organizing Convener

- Prof. Sanjay Swami, School of NRM, CAU, Barapani, Meghalaya, India

Chief Organizing Secretary

- Dr. Wajid Hasan, Secretary, AETDS, KVK, Jahanabad, BAU, Bihar, India

Organizing Secretary

- Dr. Santosh Marahatta, Department of Agronomy, Agriculture and Forestry University, Rampur, Chitwan, Nepal

Besides invited papers covering key issue, there will be oral and poster presentations. The full length selected research/review papers/articles/ Book Chapters will be publishing in the following as:

(A) Conference Proceeding (ISBN): Full length article

(B) Reputed Journal (Regular/Special Issue):

All selected papers will be published in special issues and it will take 8 to 12 month's times

I. International Journal of Agricultural and Applied Sciences (IJAAS) (<https://agetds.com/ijaas/>)

II. Universal Journal of Agricultural Research (UJAR)- Scopus Indexed ([Scopus preview - Scopus - Universal Journal of Agricultural Research](#))

(C) Edited Book with ISBN: edited book published by an International publisher with ISBN as a book chapter and it will take 8 to 10 month's times

Proposed Books Title

- i. Conservation Agriculture and Smart Mechanization to Protect Natural Resources
- ii. Abiotic and Biotic Stress Management to Mitigate Climate Change Impacts
- iii. Precision Nutrient Management, Organic Farming and Bio-diversity Conservation
- iv. Innovative Extension Systems for doubling farmers income
- v. Last Mile Delivery of Agronomic Management Practices
- vi. Applied Perspective in Crop Protection
- vii. Innovations in Weed Management Science

Note:

1. No TA & DA will be paid to participants by AETDS Society
2. No any abstract will be published without registration in the conference.

Conference Presentation Awards

- Best Oral Presentation Award (each technical session)
- Best Poster Presentation Award (each technical session)

Note: No need to apply, these awards decided by session chairman during conference

Participants will submit extended summary of their research paper before the last date. The submitted Abstracts/ Papers/ Book chapters will be reviewed by GAFEF 2022 SCREENING TEAM and based on the comments of the reviewers the Editor-in-chief/ Editorial board will take final decision for acceptance of the manuscript.

Poster Presentation

Size: 24"x36" 1x1.2 m. Font Size: Title- 86pt, Authors- 50pt, Sub heading-36pt, Text-24 pt, Caption-18pt

Poster should be include- Title, Name, Address, Introduction, Materials and methods, Results and Conclusion.

Delegates are requested to kindly send the soft copies of their Abstracts, full length paper/articles and book chapters for publishing with duly fill registration form by mail to: gafef2022@gmail.com, **before 20, July 2022.**

Conference Registration Form

<https://tinyurl.com/2p8rxjew>

Conference Registration (GAFEF-2022)

Registration Contribution (Before 20 July, 2022)					
On spot registration will be extra charges (Rs. 1000/- (20\$))					
Participants Categories	SAARC Countries (INR)*NPR	Other Countries (USD)	Article Processing Contribution		
			IJAAS	UJAR	Book Chapters
Delegates/Scientists/RA, SRF, PDF/Academicians/Professionals	5000/-	300/-	Free	400\$	1000/- (20\$)
Students (UG, PG, Ph.D.)	3000/-	200/-	Free	400\$	1000/- (20\$)
Corporate Sectors and Industries	10000/-	500/-	Free	400\$	1000/- (20\$)
Accompanying Person	INR 2500/- (Only for conference Lunch and Tea)				
<ul style="list-style-type: none"> • No abstract will be published without registration at the conference. • Conference registration/Society contribution fee is non-refundable and registration contribution includes working tea, lunch, and registration kit only. • * Nepalese participants can pay contributions to NPR currency • All right reserved, Publication Fee should be paid after acceptance only. • International Journal of Agricultural and Applied Sciences (IJAAS). • Universal Journal of Agricultural Research (UJAR)- Scopus Indexed Journal • No guarantee of registration kit for on-spot registration. In the case of Covid 19, the conference will be conducted via online mode 					

Advertisement and Sponsorship Publication Details

Advertisement details	
Ads Specification for souvenir	Fee (INR)
Front Cover Inside (Color)	50,000
Back Cover Inside (Color)	30,000
Full Page (Color)	25,000
Full Page (Black/ White)	15,000

Sponsorship Details	
Category	Fee (INR)
Platinum	1,50,000/-
Gold	1,00,000/-
Silver	75,000/-

Mode of Payment and Bank Details

Conference Registration Contribution can be paid by Cash/NEFT/IMPS/Net banking in favor of the following:



PayPal <https://paypal.me/aetds>

Account Name: Agricultural & Environmental Technology Development Society
Bank Name: Punjab National Bank
Payable at: Galla Mandi, Rudrapur, Uttarakhand, India
A/C No: 7724000100022340, IFS Code: PUNB0772400, MICR Code: 263024204

AETDS Society Awards and Honors

- Life Time Achievement Award
- Fellow Award/ Eminent Scientist Award/ Distinguished Scientist Award/Outstanding Scientist Award
- Scientist of the Year Award/ Outstanding Achievement Award
- Best Veterinarian/ Horticulturist /Agronomist/ Entomologist/ Plant Pathologist/ Plant Breeder/ Soil and Water Conservationist Award
- Excellence in Extension Award/ Best Extension Scientist Award/ Best KVK Scientist Award
- Best Teacher/ Excellence in Teaching Award
- Best Research Scholar Award
- Young Women Scientist Award
- Environmental Protection Research Award/Environmentalist Award
- Young Horticulturist/ Agronomist /Biologist/ Biotechnologist/ Professional Award
- Young Scientist Award/ Young Achiever Award
- Young Scientist Associate Award
- Outstanding/ Best Dissertation Award/ Ph. D. Thesis Award
- Innovative Farmer/ Entrepreneur Award
- **Global Scientist Award (Screening Based on Google Citation Score, 3 Awards in each category (Research Scholar, Assistant Professor, Associate Professor, Professor))**
- **Dr. V. P. Tyagi Memorial Award one Award in each category in the field of Agricultural Sciences (Research Scholar, Scientist)**

All interested delegates/researchers/academicicians/farmers/students/Entrepreneurs are requested to send a soft copy of their bio-data with filled award nomination form send to Secretary, AETDS to Email: gafef2022@gmail.com, before **20 July, 2022**. (Award Nomination Contribution **INR 5500/- (100US \$)**). Prescribed award nomination form available on society web page (www.agetds.com). Conference Registration is mandatory for award nomination.

- **Award Nomination Form: <https://tinyurl.com/2ztr7vec>**
- **Conference Registration Form : <https://tinyurl.com/2p8rxjew>**

***Note:**

The society has the full right to deciding the number of awards. Age limit below 40 years for young scientist, young fellow, young achiever, young teacher and young extension scientist award.
No TA & DA will be paid to participants/ awardee by AETDS Society

Accommodation Details

Accommodation will be arranged for the participants in the hotels at Pokhara valley near the conference venue on prior request and pre-payment basis as given below and no spot accommodation will be provided on conference days. Kindly confirm your accommodation on or before 30 August, 2022

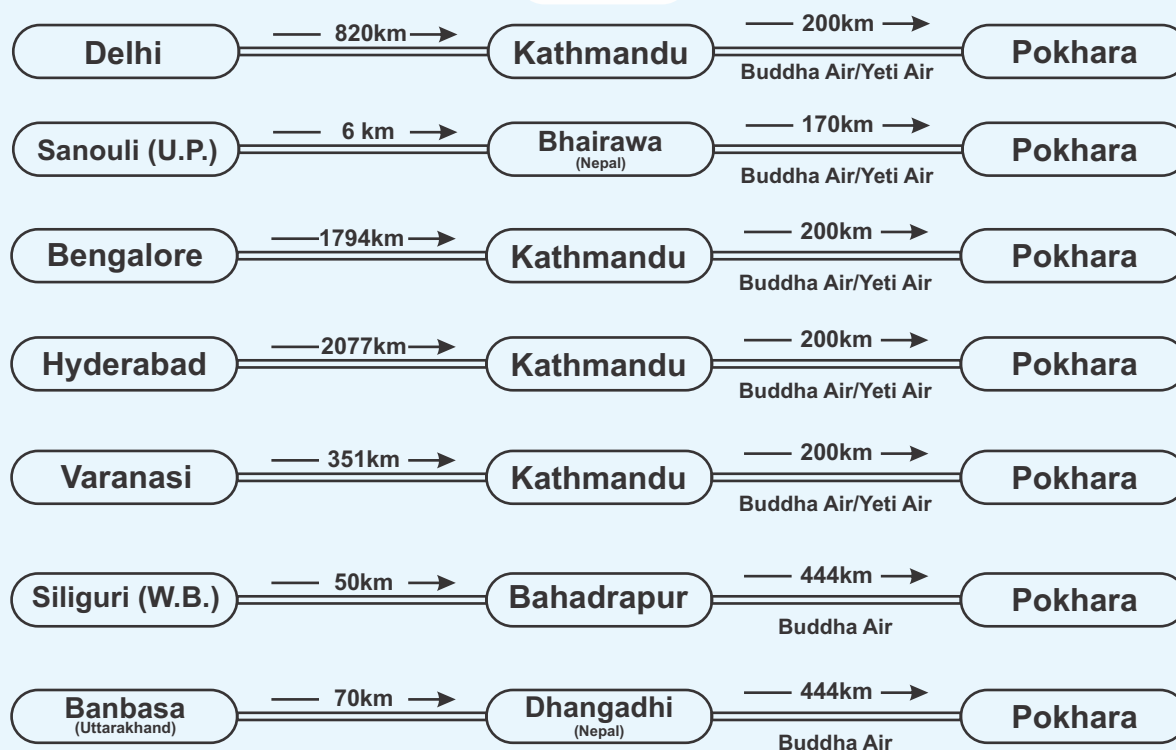
Accommodation Categories	Pay/Day (Individuals Non -Sharing) (INR)	Pay/Day (Double Sharing) (INR)
Normal Hotel	2000-3500	4000-6000
Deluxe Hotel	4000-6000	6000-7000
Note : Accommodation will be done only after receipt of advance payment.		

Weather of Pokhara in September

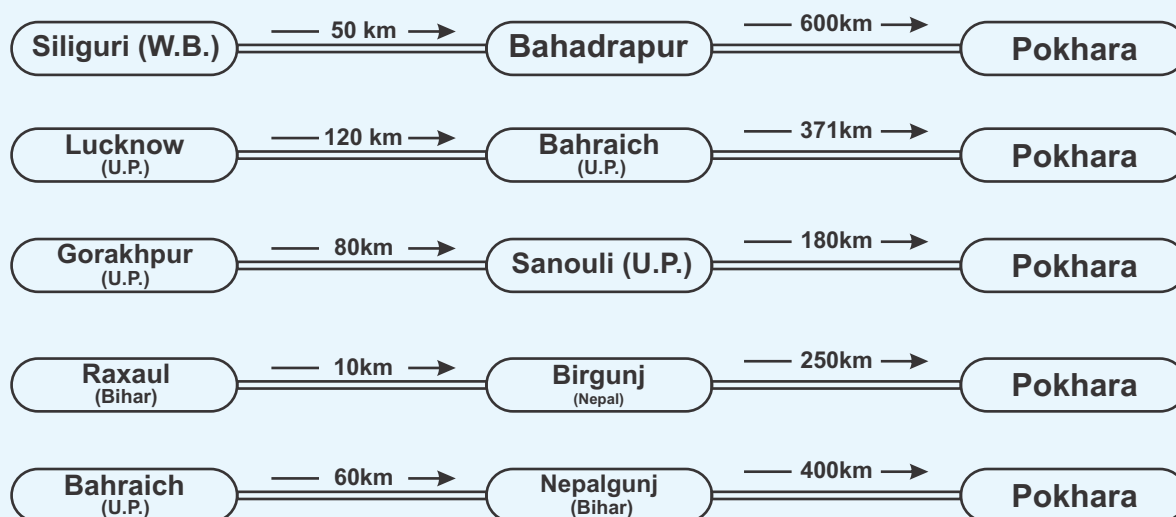
Weather of Pokhara during the conference will be very pleasant and enjoyable due to average day and night temperature range from 25-27°C and 15-17°C, respectively.

How to reach Pokhara, Nepal from Indian cities

By Air

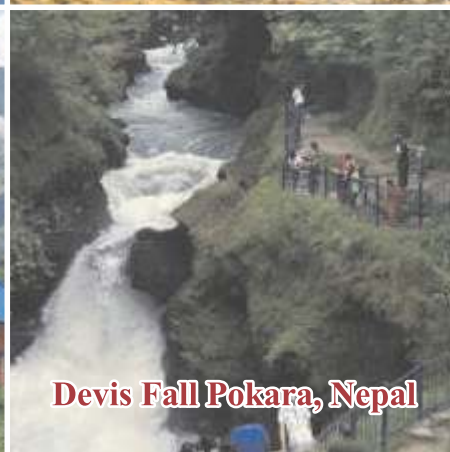


By Road



Pokhara is situated at an altitude of 827 meters above the sea level and is 200 kilometers west of Kathmandu. Prithivi Raj Marga is the highway linked with by Bhairahawa by Siddhartha Raj Marga (Sunauli border), it's a combination of the long arrays of world famous snow clad peaks, emerald Lakes, turbulent rivers with deep Georges and picturesque villages inhabited by major, Gurungs and Thakalis. Pokhara offers the magnificent views of Dhaulagiri, Manaslu, Machhapuchhare, five peaks of Annapurna Himalayas and others. Pokhara numerous Lakes known as "Tal" in Nepal offer fishing, boating and swimming, that assures the famous Phewa, Begnas and Rupa lakes. Pokhara sightseeing is also referred as the center of adventure. It is the starting point for almost all of the popular trekking & rafting destinations. The serenity of Phewa Lake and the magnificence of Machhapuchhare [6,977m] rising behind it, creates an ambiance of peace and magic.

Some of major place to visit during the Pokhara sightseeing tour:



Conference Organizing Committee

Patron

- Prof. (Dr.) Dharma Kant Banskota, Vice-Chancellor, Tribhuvan University, Kathmandu, Nepal
- Prof. (Dr.) Arvind Kumar, Vice-Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi, U.P., India
- Prof. (Dr.) Punya Prasad Regmi, Vice-Chancellor, Agriculture and Forestry University (AFU), Rampur, Chitwan, Nepal
- Prof.(Dr.) U. S. Singh, South Asia Regional Coordinator & India Country Manager at International Potato Center (CIP), New Delhi
- Prof. Naba Raj Devkota, Vice-Chancellor, Gandaki University, Pokhara, Nepal
- Prof. Amar P. Garg, Vice-Chancellor, Shobhit Institute of Engineering & Technology, (Deemed-to-be-Univ) Meerut, U.P., India

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- Dr. Manish Kumar, Narain College Shikohabd UP

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- Dr. Pradeep Kumar, NERIST, Itanagar
- Dr. Riyaz Ahmad, SR Memorial University, Barabanki
- Dr. Shweta Shambhavi, SSAC, BAU, Sabour
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- Asha Singh Rajavat, Amity University, Noida
- Dr. Alimudeen, College of Veterinary & Animal Sciences, Pookode
- Dr. Anil Kumar, Bihar Agricultural University, Sabour
- Dr. Khushboo Dubey, Jannayak Chandrasekhar University, Ballia
- Mr. Amit Kumar, Dwivedi, DDU Gorakhpur University
- Dr. Mohd Gulfishan, Glocal University, Saharanpur

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