

Symposium on Advances in Biology of Algae and Cyanobacteria (ABAC)

February 8-9, 2018

Banaras Hindu University, Varanasi, India

REGISTRATION FORM

(To be received on or before January 10, 2018)

Name: Prof./Dr./Mr./Mrs./Ms.
Designation
Institution
Mailing Address
Tel. (O)..... (R)..... (M).....
Fax No. Email:

REGISTRATION FEE

Participants	Up to Jan. 15, 2018	After Jan. 15, 2018	On Spot
Indian Delegates	2500/-	3000/-	3500/-
Accompanying Person	1500/-	2000/-	2500/-
Students	2000/-	2500/-	3000/-

Registration Fee includes: Conference kit, breakfast, lunch and dinner during the days of symposium. However, the cost of the accommodation is to be borne by the participants.

Payment can be made online using following information.

Name: Advances in Biology of Algae and Cyanobacteria: Convener **IFS Code:** SBIN0000211
Account # 36791602815 **Bank Name:** SBI **Branch Name:** SBI, BHU Main Branch

*Payment Details:

Bank Transaction ID (UTR):

Transaction Date:

Amount:

Name of Bank:

Accommodation Required Yes

No

Type of Accommodation: Guest House

Hotel

Date:

Place:

Signature of Delegate

This is to certify that the above named student is enrolled as bonafide student in our Institute/University and is qualified for student membership rates.

Date:

Signature of certifying Authority with Seal

*Please send payment details to convenorabac2018@gmail.com

DEADLINES

Submission of Abstract (One per registration)	30 th December 2017
Notification and Acceptance of Paper	15 th January 2018
Receipt of Registration form and Registration Fee	15 th January 2018
Booking of Accommodation	15 th January 2018

ACCOMMODATION

The accommodation may be arranged in the university guest house and students hostels. Those desirous of accommodation in 3-5 star hotels may indicate their choice and will have to pay the actual hotel charges.

THE CITY OF VARANASI

The holy city of Varanasi, known as the city of temples and learning, has a great historical and cultural importance. This religious capital of India is situated on the bank of the holy river Ganga and is preside over by Lord Shiva. The city has been a symbol of spiritualism, philosophy and mysticism for thousands of years. Varanasi is also renowned for its rich tapestry, music, arts, crafts and education.

How to reach?

The city is well connected to all the major Indian cities and states by air, road and rail. Airport is about 30 km, Varanasi cant and Maduadeah railway stations are about 8 and 4 km, respectively, from BHU campus. Nearby places of interest include Sarnath, where Lord Buddha delivered his first sermon (20 km), Ram Nagar Fort (5 km), Chunar Fort (40 km), Vindhyachal (70 km) and Sangam (Allahabad, 120 km).



Prof. K.D. Pandey
Convener
ABAC-2018
Centre of Advanced Study in Botany
Institute of Science
Banaras Hindu University
Varanasi-221005

9450547298

convenorabac2018@gmail.com

www.bhu.ac.in



Symposium on Advances in Biology of Algae and Cyanobacteria (ABAC) February 8-9, 2018



Organized by

Centre of Advanced Study in Botany
Institute of Science
Banaras Hindu University
Varanasi 221 005

Prof. K.D. Pandey
Convener

Dr. S.P. Singh
Organizing Secretary

Dear Friends

We cordially invite you to the **Symposium on 'Advances in Biology of Algae and Cyanobacteria'** at Banaras Hindu University, Varanasi, during February 8-9, 2018. Leading scientists from various universities and institutes of the country shall participate in the symposium.

Venue: Mahamana 150th Birth Anniversary Hall, Seminar complex, Banaras Hindu University, Institute of Science, Varanasi.

Banaras Hindu University

The Banaras Hindu University (BHU) founded by Pt. Madan Mohan Malviya ji in 1916, stands as one of the most prestigious central universities in the country. It is the largest residential university in Asia with over 75 Hostels for resident students. A living embodiment of Malviya ji, Dr. Annie Besant and Dr. S. Radhakrishnan, this seat of learning epitomizes synthesis of ancient wisdom and the recent scientific temper. The University has by now made its mark at the National and International level in frontiers of Science, Humanities, Arts, Culture, Business management, Religion ethics, Technology, Medicine, and Agriculture. The University has 2 campuses and is organized into six Institutes, 14 Faculties and 130 departments with total students enrolled exceeds 32,000 from over 34 nations.

Institute of Science

The Faculty of Science established in 1916 was upgraded to Institute of Science in 2015. The institute has 6 centres and 13 different departments of Physical, Chemical, Mathematical, Earth and Biological Sciences.

Centre of Advanced Study in Botany

Department of Botany is the second oldest P.G. Department (established in 1919) and a premier centre of teaching and research in plant science in the country. The department, based on its outstanding achievements in teaching and research during the past decades, was chosen by the UGC for Department of Special Assistance/Special Assistance Program (DSA/SAP) in 1972, and subsequently as the Centre of Advanced Study (CAS) in 1980 and as the Centre of Excellence under COSIST program in 1984. The department has been sanctioned VIth phase of CAS with thrust areas Phycology, Ecology, Mycology and Plant Pathology. The department has teaching programs for undergraduate and postgraduate students in Botany, Industrial Microbiology (vocational course at U.G. level) and special courses in Environmental Sciences and Applied Microbiology at P.G. level. The current research endeavors include: (i) Physiological, biochemical and molecular approaches to stress tolerance in cyanobacteria; Biotechnological potential and product development in algae and cyanobacteria (ii) Green house gas Influx, responses to pollutants, carbon sequestration, biodiversity and ecological complexity, soil microbiology and sustainable agriculture (iii) Molecular plant pathology and management of plant diseases (iv) Morphogenesis and molecular biology of higher plants.

The School of Algae

Prof. Y. Bharadwaja established the school of algae, and in 1933 he described a new species *Draparnaldiopsis indica* sp. nov. (Chaetophorales, Chlorophyta) from a Varanasi pond. The higher plant-like features of the alga were so fascinating that its photograph appeared on a frontispiece in the classic book "The Structure and reproduction of Algae" vol. I by F.E. Fritsch (1935), Cambridge University Press.

Reproductive details of *D. indica* were established by Prof. R.N. Singh who extended his observations to the cytological and life cycle details of other green algae during 1942-1945. Later, he initiated research on blue-green algae with emphasis on the role in nitrogen recuperation in paddy field soils. This subsequently culminated mid-way in a research paper entitled "Reclamation of usar lands in India with blue-green algae" published in Nature (1950), and finally in the monumental monograph "Role of Blue-Green Algae in Nitrogen Economy of Indian Agriculture" published by Indian Council of Agriculture Research, New Delhi (1961). Subsequently, his focus of research shifted to genetics of blue-green algae and their viruses (cyanophages).

Other faculty members who led diversification and modernization of research in phycology include Dr. J.N. Misra (brown algae), Prof. Y.S.R.K. Sarma (algal cytology and taxonomy), Dr. C.S.P. Rao (red algae), Prof. H.D. Kumar (genetics, environmental phycology), Prof. E.R.S. Talpasayi (cyanobacterial physiology), Prof. Y.B.K Chowdary (algal cytology), Prof. S.P. Singh (metal-cyanobacterial interaction), Prof. D.N. Tiwari (cyanobacterial cell differentiation), Prof. A.K. Kashyap (ammonium transport), Prof. B.R. Chaudhary (algal cytology), Prof. A.K. Rai (salt stress physiology) and Prof. L.C. Rai (molecular biology of abiotic stress tolerance). The tradition is sustained by a mix of third, fourth and even fifth generation of phycologists that form one-third of the faculty in the Department.

Major Topics

- Molecular biology: Genomics, proteomics and metabolomics of cyanobacteria
- Photosynthesis and light harvesting; stress biology of cyanobacteria
- Algal biotechnology: Biomass production, photobioreactors, biofuels and hydrogen energy
- Synthetic biology and metabolic engineering, cyanophages, transgenics
- Pharmaceuticals and biomolecules from algae and cyanobacteria
- Biodiversity and management of algal growth in aquatic ecosystems
- Cyanobacteria-plant interactions, biofertilizers



Conference Participation and Submission of Abstracts:

Participation is open for any one involved in R&D, teaching, consultancy, planning etc. in biology of algae and cyanobacteria. Interested participants are invited to contribute papers as oral/poster presentation. Abstract of the paper (about 250 words excluding title and affiliations, in Times new Roman, 12 font size, double spacing) should be prepared using MS word and sent to the convener by email at convenorabac2018@gmail.com as file attachment.

Organizing Committee

Patron:	Vice-chancellor, Banaras Hindu University
Chairperson:	Director, Institute of Science, BHU
Co-chairpersons:	Prof. M. Agrawal, Head, Department of Botany, BHU Prof. R.S. Upadhyay, Deputy coordinator CAS Botany
Convener:	Prof. K.D. Pandey, CAS in Botany, I.Sc., BHU
Organizing Secretary:	Dr. S.P. Singh, CAS in Botany, I.Sc., BHU

National Advisory Committee

Prof. S.K. Apte, Mumbai	Prof. A.S. Ahluwalia, Chandigarh	Prof. S.K. Verma, Pilani
Prof. A.N. Rai, Shillong	Prof. S.P. Adhikari, Santiniketan	Prof. J.I.S. Khattar, Patiala
Prof. N. Anand, Chennai	Prof. Surendra Singh, Jabalpur	Dr. P.K. Singh, Varanasi

Local Advisory Committee

Prof. J.P. Gaur	Prof. Santosh K. Dubey	Dr. R.K. Sharma	Botany Section, MMV
Prof. N.K. Dubey	Dr. H. Singh	Dr. Y. Mishra	Prof. M.B. Tyagi
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Prof. S. Pandey	Dr. R. Singh		