



The Kerala State Higher Education Council
കേരള സംസ്ഥാന ഉന്നതവിദ്യാഭ്യാസ കൗൺസിൽ



Brain Gain Programme

Department of Chemical Oceanography

Cochin University of Science and Technology (CUSAT)

In association with

The Kerala State Higher Education Council



Dr. SHUBHA SATHYENDRANATH

Merit Scientist

Plymouth Marine Laboratory, UK

Duration 26th January - 9th April 2024

Department of Chemical Oceanography,
School of Marine Sciences

Lakeside Campus,

Cochin University of Science and Technology (CUSAT)

Cochin 682016

ABOUT THE SCHOLAR

Dr Shubha Sathyendranath has more than 40 years' research experience in the fields of marine optics and remote sensing of ocean colour. She has received many international laurels like Member of the Order of the British Empire (MBE) for the extraordinary contributions and service of people, Chevalier (Knight) of the Order of Cultural Merit, A. G. Huntsman Award for Excellence in Marine Science to name a few.



Dr Sathyendranath's research interests include ocean biogeochemistry and ecology from space, ocean colour modelling, spectral characteristics of light penetration underwater, bio-optical properties of phytoplankton, modelling primary production, bio-geochemical cycles in the sea, climate change, biological-physical interactions in the marine system, ecological provinces in the sea, ecological indicators and phytoplankton functional type.

Overview of the programme:

Brain Gain is a scheme to attract non-resident Indian academics and scientists to Universities in the state for short-term teaching and research, and connect Indian students to the foreign faculty/scientists. In addition to teaching courses, Brain Gain scholars may give campus-wide and community lectures, run workshops or seminars on specific themes, conduct collaborative research with teachers or students, help initiate international programmes and contribute to curriculum development. Scholars who continue as Guests under the Brain Gain will offer short-term courses, initiate research projects, extend teaching, research collaborations, help initiate international programmes and contribute to curriculum development. They can run hands-on workshops of translational significance and academic seminars besides public lectures of social benefits.

About the Department of Chemical Oceanography

The Department of Chemical Oceanography was established in 1996 in its current form and has rich credentials in teaching and research in chemical oceanography. It has well qualified and experienced scientific personnel and analytical facilities that include several sophisticated instruments such as UV - VIS Spectrometers, ICP-AES, AAS, GC, HPLC, GCMS, LCMS, FTIR, GCMSMS, LCHRMS, Electrophoresis, High-Speed Centrifuge, Rotary Evaporator, etc. The Department conducts MSc. Hydrochemistry programme and PhD programmes. The department welcomes collaborative tie ups, analysis, consultation works and short term specialized instrumentation training programmes.

Organising Committee

Patran:

Prof (Dr.) P. G. Sankaran, Hon'ble Vice-Chancellor, CUSAT

Co-ordinator:

Dr. Shaju S. S., Head, Dept. of Chemical Oceanography

Joint co-ordinators:

Dr. Habeen Rahman K., Asst. Professor, Dept. of Chemical Oceanography

Dr. Jorphin Joseph, Asst. Professor, Dept. of Chemical Oceanography

Inauguration

**Inauguration of Brain Gain Scholar in Residence Programme
(January 29, 2024)**

School of Marine Science Auditorium

Inaugural address

Prof (Dr.) P. G. Sankaran, Hon'ble Vice-Chancellor, CUSAT

Felicitation

Prof. Dr. A.A. Mohamed Hatha, Director, School of Marine Sciences

Dr. B. Meenakumari, Former Chairperson, National Biodiversity Authority
& Deputy Director General (FS), ICAR.

Brain Gain Scholar Lecture

Dr. SHUBHA SATHYENDRANATH

Topic: "Water quality and human health, with a focus on Vembanad Lake"

Academic Engagements of the Brian Gain Scholar at CUSAT

- Lectures on topics related to oceanography, remote sensing, biogeochemistry, climate change
- Sharing the Best Practices on research and translation of research
- Interaction with students, teachers , scientists and other stake holders
- Research discussions with faculties and scientists
- Workshops on international collaborations, scientific writing, ocean colour applications

Contact Details:

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Co-ordinator, Brain Gain Programme,

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