

# **National Symposium on Algal Diversity and Resource Status: Current Trends in Utilization and Prospects for Innovation**

**21-23 September 2017**

**Venue**

**V.O. Chidambaram College, Tuticorin**

**Organized by**

**PG & Research Department of Botany**

**&**

**Marine Ecology & Conservation Lab**

**PG & Research Department of Zoology**

**V.O. Chidambaram College**

*In association with*

**Seaweed Research and Utilisation Association**

**&**

**Krishnamurthy Institute of Algae, Chennai**



**Since 1951**

**V.O. CHIDAMBARAM COLLEGE**

[Accredited by NAAC with 'A' Grade]

Tuticorin-628 008, Tamil Nadu, India

Website: [www.voccollege.ac.in](http://www.voccollege.ac.in)

## **ABOUT THE INSTITUTION**

V. O. Chidambaram College, founded by Kulapathi A. P. C. Veerabahu in 1951 and recognized by UGC under 12(b) and 2(f), is a Postgraduate and Research Centre affiliated to Manonmaniam Sundaranar University, Tirunelveli. Managed by V. O. Chidambaram Educational Society, the college provides higher education to the economically and gender wise discriminated sections hailing from the backward areas of southern districts of Tamil Nadu, India. The college has 13 departments offering 15 undergraduate, 20 postgraduate and 11 certificate courses. Nine departments are recognized research centres.

## **PG & RESEARCH DEPARTMENT OF BOTANY**

The Post Graduate and Research Department of Botany, one of the oldest departments in the college, was started in 1957. It has been recognized as research centre since 2008. The department has completed 57 years of dedicated service with stalwarts who have made a mark in this field over the years. The priority areas of research are Phytoplanktons, Seed Biochemistry, Ethnomedicine, Ethnopharmacology, Biodiversity, Seaweed and Seagrass. The department has produced 43 Ph.D.s and about 500 research papers have been published so far. The department has a DST - FIST funded research laboratory. Recently, a MoU has been signed with Sokoto State University, Nigeria for academic/research collaboration.

## **MARINE ECOLOGY & CONSERVATION LAB**

Marine Ecology & Conservation Lab, functioning under PG & Research Dept. of Zoology, was established under the 'Innovative Programme' of the UGC which has sanctioned a PG course on 'M.Sc. Conservation of Marine Environment' from 2013. The Lab has state of the art facilities like SCUBA diving equipment, underwater camera, geo-informatics lab, inverted microscope, digital microscopes etc.

## **SEAWEED RESEARCH AND UTILISATION ASSOCIATION (SRUA)**

SRUA, a Non-Governmental Organisation, was established on 6<sup>th</sup> September 1970 at the Marine Algal Research Station of Central Salt & Marine Chemicals Research Institute (CSIR), Mandapam, Tamil Nadu by Prof. V. Krishnamurthy (late), who was the Assistant Director of the Institute and Founder President of SRUA. It has more than 200 members. SRUA organizes National Conference/Symposium/Workshops every year jointly with one of the Research/Educational Institutions on different aspects of marine algae. SRUA publishes "Seaweed Research and Utilisation Journal" (ISSN 0971-7560) biannually. Till now, 38 volumes have been published.

## **KRISHNAMURTHY INSTITUTE OF ALGOLOGY (KIA)**

KIA was established by Prof. V. Krishnamurthy in 1991 and dedicated to serve the students and faculty in the field of Algal Biology. The institute celebrates its foundation day since 2003. Distinguished algologists were conferred with Life Time Achievement Award. The institute publishes the bi-annual journal 'Indian Hydrobiology' (ISSN 0971-6548).

## ABOUT THE SYMPOSIUM

Algae are a natural component of most ecosystems. Aquatic algae range in size from microscopic to large kelp. Microalgae like phytoplankton play a major role in not only sequestering atmospheric CO<sub>2</sub> through photosynthesis but also contribute approximately 40 to 50% of the oxygen in the atmosphere. The use of algae as food and feed is known since centuries. Seaweeds are cheap sources of minerals and trace elements. They are the only source for the production of phytochemicals like agar, carrageenan and algin, used in food, medicine and pharmacy industries. Its use as food and medicine prior to 2000 BC has found a mention in ancient Chinese medicinal literature.

The algae due to their unique characteristics are ideal for deployment in selective removal or reducing the concentration of heavy metals. They are used as manures and liquid fertilizers in agriculture besides as supplement feed to farm animals. Algae based biofuels may provide a viable alternative to fossil fuels. Algae are emerging as one of the most promising sustainable resources of biomass, alternative fuel oil, food, feed supplements and other valuable compounds of importance to humans. Though much advancement have been made in algal biotechnology, the basic science needs parallel concentration as information on taxonomy, biology and ecology are vital for sustaining the natural algal diversity. Considering the wider importance of algal resources, this symposium offers a comprehensive platform for the researchers to present their findings and discuss their views.

## TOPICS OF SYMPOSIUM

- Taxonomy, diversity and distribution
- Biochemical and Nutritional characteristics
- Chemical ecology
- Biotechnology: Phycocolloid biosynthesis pathway, in vitro phycocolloid production, strain improvement, tissue culture
- Natural products and their biomedical potential
- Phycoremediation
- Application in agriculture & veterinary: SLF, Biostimulant etc
- Nutraceuticals & Functional foods
- Algal culture/Cultivation: Prospects & Technological improvements
- Phycocolloids: Improvement in extraction process
- Associated ecosystems and organisms
- Resource Exploitation: Past and present
- Conservation and management

## SUBMISSION OF ABSTRACTS

An abstract, not exceeding 250 words with not more than 5 keywords in Times New Roman 12 font with 1.5 line space, shall be submitted. The abstract shall contain Title, Name of the author(s), Affiliation and address with E-mail ID, Mobile and fax number. The last date for submission of abstract is 31.07.2017.

## PUBLICATION

The papers presented in this Symposium will be published in Seaweed Research and Utilisation Journal's special issue. The journal has been included in the UGC's list of approved journals. Full papers in Microsoft Word format shall be submitted in A4 paper, typed on one page in double space Times New Roman font 12 leaving margins of 1" on all sides. Two hard copies along with a soft copy (by email) have to be submitted. The submitted papers will be subjected to review by experts and acceptance is the discretion of the Editorial Board.

## REGISTRATION FEES

PG students	:	Rs. 500-00
Research Scholars	:	Rs. 750-00
Faculty Members/Researchers	:	Rs. 1000-00
Participants from Industry	:	Rs. 2000-00

Registration fees entitle the participant with symposium kit, tea and working lunch. No TA/DA will be provided. The Registration Fees (through DD or account transfer with transaction details) shall be sent along with Registration Form [Account Name: 'Principal V.O.C. College Grants Scheme', SB A/C No. 6052843786, Indian Bank (20,M/3-1<sup>st</sup> street, Subbiah Mudaliar Puram), Millerpuram Branch, Tuticorin, Tamil Nadu, IFSC Code: IDIB000M208, MICR Code:627019015].

## ABOUT TUTICORIN

Tuticorin or Thoothukudi is a coastal city located along southeast coast of Tamil Nadu in between Rameswaram and Kanniyakumari. It is well connected by Air (with Chennai), train and Road. The climate will be hot almost all through the year except during October-February.

## ACCOMMODATION

Good hotels are available in Tuticorin. Arrangements can be made to accommodate students/scholars in the college hostel at a nominal fee on request. Separate Ladies Hostel is also available in the college campus.

	Non AC		AC		Contact Numbers	
	Single	Double	Single	Double		
Chitra Lodge#	500.00	825.00	—	1317.00	2328877	#Tax included, *Tax extra, @ 20% discount possible
Hotel Visaka#	500.00	715.00	—	1400.00	2329601	
Hotel Raj*	—	—	1750.00	2000.00	2240000	
Kani Hotel*@	—	—	2000.00	2500.00	2300311	
Hotel Sugam#	—	900.00	—	1519.00	2328172	
City Tower	---	1000.00	---	1200.00	2347655	

## AWARD FOR BEST PAPER PRESENTATION

Three best paper awards each for technical session presentation and poster presentation will be given to encourage researchers of 35 years and below. A certificate and cash reward of Rs. 1000/- will constitute each award.

## SRUA GENERAL BODY MEETING

The General Body meeting of SRUA will be held on 21.09.2017 evening.

## ORGANIZING COMMITTEE

### CHIEF PATRON

**Shri. A.P.C.V. Chockalingam**

Honorable Secretary, V.O.Chidambaram College

### PATRON

**Dr. C. Veerabahu**

Principal, V.O.Chidambaram College

### CO-PATRONS

**Dr. M. Baluswami**

President, SRUA; President, KIA

**Dr. Venkataraman Kumar**

Vice-President, SRUA

### ORGANIZING CHAIRMEN

**Dr. V.R. Mohan**

PG & Research Department of Botany  
V.O.Chidambaram College

**Dr. A. Murugan**

Marine Ecology & Conservation Lab  
PG & Research Department of Zoology  
V.O.Chidambaram College

### CONVENERS

**Dr. N. Kaliaperumal**

Executive Committee Member, SRUA

**Dr. P. Anatharaman**

CAS in Marine Biology, Annamalai University  
Secretary, SRUA

### ORGANIZING SECRETARIES

**Dr. J. Indhira Piriyaadharsani**

Marine Ecology & Conservation Lab  
PG & Research Department of Zoology  
V.O.Chidambaram College

**Dr. V. Sornalakshmi**

PG & Research Department of Botany  
V.O.Chidambaram College

**Dr. P. Tresina Soris**

PG & Research Department of Botany  
V.O.Chidambaram College

**Dr. S. Selvam**

Marine Ecology & Conservation Lab  
PG & Research Department of Zoology  
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