



DAYANANDA SAGAR COLLEGE OF ENGINEERING



VIRTUAL INTERNATIONAL CONFERENCE

ON

"Recent Advances in Chemical and Biological Sciences" (ViRACBS-2020)

Organized by: Department of Chemistry, Biotechnology and Chemical Engineering

7-9th December, 2020

DAYANANDA SAGAR COLLEGE OF ENGINEERING

"An autonomous institute affiliated to VTU, approved by AICTE & UGC,
accredited by NAAC with 'A' Grade" & Accredited by NBA
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru, Karnataka 560078

Web : www.viracbs2020.dsce.edu.in

Registration link : <https://forms.gle/6GxnAP6NYPciXVUc6>

Knowledge Partner



Indian ceramic Society
Karnataka Chapter



Electrochemical Society of
India, IISc., Bangalore

About the Conference (ViRACBS-2020)

The purpose of the International conference is to provide conducive environment for participants to share the innovations and technology in the field of Engineering and Sciences. This provides platform for Researchers, Engineers, Academicians and as well as industry professionals to exchange innovations and ideas. In order to keep our activities alive in the pandemic Covid19 situation, virtual conference is organized. The conference provides good opportunity to national and international researchers to present and exchange their ideas in the field of chemical and biological sciences.

In this regard, Dayananda Sagar College of Engineering in association with Indian Ceramic Society-Karnataka Chapter and Electrochemical Society of India, IISc Campus, Bengaluru is organizing an International conference on "Recent Advances in Chemical and Biological Sciences"-(ViRACBS-2020) in which leading scientists and technologists in the field of Materials and Engineering Sciences from India and abroad will be presenting technical talk on various topics under chemical and biological sciences.

About Dayananda Sagar College of Engineering

Dayananda Sagar College of Engineering (DSCE) is an Autonomous Institute approved by All India Council for Technical Education (AICTE), Govt. of India and affiliated to Visvesvaraya Technological University (VTU). It has widest choice of engineering branches having 15 Under Graduate programs & 13 Post Graduate programs. In addition, it has 20 Research Centers in various branches of Engineering catering to research scholars for obtaining Ph.D under VTU. All the UG programs are accredited by NBA DSCE is accredited by NAAC with "A' grade.

The Institute is spread over twenty nine acres of land with large infrastructure supported by laboratories with State-Of-The-Art, Equipment & Machines. The Central Library with modern facilities and the Digital Library provides the knowledge base for the students. The campus Wi-Fi is equipped with large bandwidth internet facility. The College has good faculty strength with highest professional integrity and committed to the academics with transparency in their actions. The faculty members are research oriented having number of sponsored R & D projects from different agencies such as Department of Science & Technology, Defense Research & Development Organization (DRDO), Indian Space Research Organization (ISRO) and AICTE.

About Electrochemical Society of India

The Electrochemical Society of India, ECSI in short, has been in existence on the IISc Campus for over 60 years. It is a Professional Society to provide a platform for discussions in the area of Electrochemistry, Corrosion, Batteries, Coatings, Electroplating and forming, and other electrochemical science and technology areas.

This forum will address various technical problems related to electroplating, metal finishing, powder coating, and chemical analysis and environmental issues. All such units are encouraged to become members of ECSI will be able to enjoy all the benefits, the professional society can offer such as access to library, consultancy, reduced registration fees for refresher courses etc. The industries can also nominate their staff as a liaison officer.

About Indian Ceramic Society - Karnataka Chapter

The Indian Ceramic Society (InCerS), a non-profit organization, was established in 1928 with the blessings and active support of Pandit Madan Mohan Malaviya, at Banaras Hindu University (BHU), Varanasi. Presently InCerS has more than 2000 members including foreign Members comprising a wide variety of individuals and interest groups that include Scientist, Engineers, Researchers, and Manufacturers, Plant personnel, Educators, Students, Marketing and Sales Professionals as well as others in related materials disciplines. More details are available at www.incers.org. Indian Ceramics Society Karnataka Chapter (Erstwhile Indian Ceramic Society, Bangalore chapter started in 1977) is one of the very active chapters and has won the Best Chapter Award many times, including the one in 2019. Indian Ceramic Society Karnataka Chapter (ICSKC) has been organizing Seminars/Workshops on regular basis, including the most recent being the ACeND-2018.

About Department of Chemistry

Department of Chemistry was established in the year 1979 and is one of the oldest departments of DSCE. The department offers courses for first year BE and various branches of Engineering. Department also offers Ph.D. degree in various specializations of Chemistry.

The Department is equipped with state-of-the-art infrastructure which includes a VTU research center, affiliated to Visvesvaraya Technological University, Belagavi. The department is currently executing a research project from VGST under the scheme Centre of Excellence in Science, Education and Medicine (CESEM). The department holds many publications in peer-reviewed international journals with high impact factor. Department of Chemistry has MOU for Research and holds an institutional membership with Electrochemical Society of India, IISc campus. The faculty members are experienced, committed, highly qualified in various specializations. Students are encouraged to participate in extra-curricular and co-curricular activities. Industry Institute interaction is nurtured by organizing and coordinating frequent industrial visits, Expert Lectures and Seminars

About Department of Biotechnology

Department of Biotechnology established in 2006 offers a four-year B.E. Biotechnology Program with an intake of 60. The Department is accredited by NBA in 2017. Our undergraduate students have been consistently obtaining VTU ranks below 10 and thrice topped the university scoring highest percentage of marks across all branches of Engineering. To-date the department has received a total of Rs 2.90 crores as R & D grants from funding agencies such as DST, DBT, VGST, KSCST etc. The department also offers a one-year PG Diploma in Plant Genetic Engineering under the Biotechnology Skill Enhancement program (BiSEP) funded by KBITS, Govt. of Karnataka with a grant of Rs 50.00 Lakhs. The Department has excellent infrastructure and state of the art laboratories. In addition, a Semi-commercial Plant Tissue Culture Laboratory present caters to the needs of the farmers by providing quality planting materials. Our faculty and students have publications in SCI and SCOPUS indexed journals.

About Department of Chemical Engineering

The Department of Chemical Engineering established in the year 1982 is the best in the state of Karnataka. Currently both undergraduate and post-graduate programs are being offered. It is also recognized as Research Centre by VTU. The faculty is actively engaged in research and have published numerous papers in National and International journals. The alumni of the department have secured their places in the higher echelons of the society and technical world. The Department has good interaction with industries. It is a recognized center of research for VTU. The Department has successfully completed a UKINDIA collaborated Education Research Initiative, a funded project with Dundee College, UK and Shell Technologies, Bengaluru

Call for Abstracts

Prospective authors are encouraged to contribute to and shape the conference through submissions of their original, unpublished research abstracts. The conference solicits contributions of abstracts in the following topics but not limited to. **Essential title page information includes, Title, Author names and affiliations, Abstract (restrict to 250 words) and Keywords.** All the abstracts should be sent to the following email address: **viracbs2020@dayanandasagar.edu**

Abstract template available in the website.

Conference Topics

Chemistry

1. Smart materials
2. Catalysis and adsorption
3. Polymer nanocomposites
4. Nanomaterials and Nanotechnology
5. Functional materials
6. Novel materials for environmental applications
7. Porous and catalytic materials
8. Advanced ceramic materials
9. Material Science and Engineering

Biotechnology

1. Green Technology and Environment
2. Biotechnology applications in genomics and proteomics
3. Nano biotechnology and bioengineering
4. Industrial and microbial biotechnology
5. Nutraceuticals and food processing
6. Computational drug delivery and pharmaceutical biotechnology
7. Molecular medicine and diagnostics

Chemical Engineering

1. Nano materials and nanotechnology
2. Solid waste treatment
3. Wastewater treatment
4. Membrane technology
5. Petroleum refining and petrochemicals
6. Sustainability
7. Food technology
8. Energy
9. Biochemical engineering

Virtual Oral Presentation

Presentations are invited from UG/PG students, Research Scholars, Scientists and Academicians addressing conference theme.

There will be "Best Oral Presentation Awards"

Registration

Category of delegates	Registration Fees (INR)
Students/ Research Scholars	100
Faculty/Research Scientist	250
Industry/Foreign delegates	500

Publications

Selected Papers shall be published in Scopus Indexed Journals after peer review. Further, publishing/partnering Journals will be updated in the Conference website.

Important Dates

Particulars	Date
Abstract Submission	27.11.2020
Abstract Acceptance	30.11.2020
Last date for Registration	30.11.2020
Full paper submission	Only Short listed abstract will be invited to submit the full length paper.
Full paper acceptance	As per the guidelines of the Journal

Mode of Payment

Account name: DSCE

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Branch: Dayananda Sagar College Branch

Contact Us: viracbs2020@dayanandasagar.edu

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Dr. Kumar K. M.

Address for Communication

Dr. B.R. Veena

Organizing Secretary

Associate Professor, Department of Chemical Engineering

Dayananda Sagar College of Engineering

Bangalore 560 078, Karnataka, India.

Ph: +91 9448804370

Tel: +91-80-42161740

E-mail: viracbs2020@dayanandasagar.edu

Dr. M. Dinamani

Organizing Secretary

Associate Professor, Department of Chemistry,

Dayananda Sagar College of Engineering

Bangalore 560 078, Karnataka, India.

Ph: +91 9844596125

Tel: +91-80-42161700

E-mail: viracbs2020@dayanandasagar.edu

Dr. C. Hema Kumar

Organizing Secretary,

Associate Professor, Department of Biotechnology

Dayananda Sagar College of Engineering

Bangalore 560 078, Karnataka, India.

Ph: +91 7019238054

Tel: +91-80-42161748

E-mail: viracbs2020@dayanandasagar.edu