

SERB - DST & DBT SPONSORED

Multi-disciplinary
NATIONAL CONFERENCE
Science & Technology
for a Sustainable Future

March 06-07, 2020



Organised by
DAV COLLEGE, JALANDHAR
Punjab - 144 008

THEMES & TOPICS

Themes & Sub-Themes

Abstract submission

Code DAV 101 : Chemistry

Heterocyclic compounds, Pharmaceuticals, Organic synthesis, Supra-molecular chemistry. Inorganic materials, Environmental Chemistry, Organo-metallics, Nuclear Chemistry, Co-ordination compounds. Kinetics, Catalysis, Spectroscopy, Electrochemistry. Advanced Materials, Polymers, Nanomaterials, Thin films, hydrogels, Medicinal Chemistry

Dr. Rajeve Kr. Sharma
chemistry@davjalandhar.com

Code DAV 102 : Physics

High energy & particle Physics, Radiation measurement, Dosimetry, Nuclear scattering & reactions, Nuclear models & spectroscopy. Plasma Physics, Space plasma, Low temp. plasma sci., Plasma accelerators, Laser plasma interactions. Crystal growth, Thin films, Nanomaterials, Polycomposites, Spintronics. Sustainable fuels, Thermodynamical systems, Solar & Wind Energy Technologies, Alternative fuels, Climate control & environment.

Dr. Atul Bhalla
physics@davjalandhar.com

Code DAV 103 : Mathematics

Implicit Finite Difference Methods, Finite Element, Spectral Quasilinearization, Collocation Methods, Successive Linearization, Algorithms for Multidisciplinary Problems, Advances in Numerical Methods, Stochastic Chaos, Fractional Dynamical Systems, Nonlinear Science & Applications, Discrete Element Techniques, Computational Efficiency of Solution Procedures, Mathematical Modeling, Applications of Mathematics in Management & Sciences

Dr. Ashu Bahl
mathematics@davjalandhar.com

Code DAV 104 : Zoology

Parasitology & Immunology : Epidemiology, Parasites on Humans, Veterinary & Poultry. Cell & Molecular Biology : Physiology & Toxicology, Molecular Biology, Cytogenetics and stem cells. Economic Zoology : Apiculture, Sericulture, Pest Management, Nanotechnology in Medicine. Environment : Freshwater Biology, Biodiversity & Taxonomy, waste management.

Mr. Punit Puri
zoology@davjalandhar.com

Code DAV 105 : Botany

Plant Diversity and Taxonomy, Sustainable Agriculture, Plant Stress Management, Plant Invasions, Environment Conservation and Protection, Plant Genetic Resources, Industrial Plant Products, Phytoremediation, Biofuels, Plant cytogenetics

Dr. Komal Arora
botany@davjalandhar.com

Code DAV 106 : Bio-Technology

Medical Biotechnology : Genetic disorder, Pharmaceuticals, Nutraceuticals, Immunotechnology. Plant/Animal Biotechnology: Plant/Animal Tissue Culture, Transgenics, Molecular and Biochemical technology. Industrial Biotechnology: Microbial technology, Bio-informatics.

Dr. Sanjay Sharma
biotechnology@davjalandhar.com

Code DAV 107 : Food Science & Technology

Food Processing & Dairy Technology, Functional Foods, Food Analysis Techniques, Food Safety and Regulations, Food Quality Control, Food Additives, Fermentation and Preservation Techniques, Probiotic, Prebiotic & Nutraceuticals, Food Packaging Techniques

Ms. Anu Gupta
foodscience@davjalandhar.com

SCIENTIFIC PROGRAMME

Technical sessions will include Plenary and Invited talks of 45 minutes duration. The programme consists of Technical sessions of Chemical and Physical sciences on First day and Life Sciences / Bio-tech / Food Tech on 2nd day. Delegates will present poster only. Selected oral presentations will be allowed. For Poster presentation space of 36" × 48" will be provided.

ABOUT THE CONFERENCE

Multi-disciplinary National Conference Science & Technology for Sustainable Future

06 - 07 March 2020

OUR PROFILE : INTRODUCING OURSELVES

The Institution established in 1918 in the sacred memory of Maharishi Dayanand Saraswati to impart modern knowledge alongwith Vedic traditions to the youth of contemporary India, DAV College, Jalandhar has grown into an academic giant in the last One Hundred & One years of its matchless service of growth and grooming of youth of this part of country. Guided by the missionary zeal and visionary approach of its Founding Fathers, the college is constantly evolving, improving and updating itself to be one-up against the challenges of a swiftly changing world environment with globalization and advancements in the social, technological, economical and political landscape, it becomes imperative for us to acquire new ways of thinking and new concepts of perceiving reality. This paradigm shift towards a new world order compels us to 'Innovate'. For this we at DAV Jalandhar are always taking the challenges, finding opportunities and devising changes to foster developments. We believe in adjusting the existing educational systems into a system that is universal and holistic, thus making every student a 'global' student.

DAV College Jalandhar at present is one of the largest academic centres of North India imparting instructions in Arts, Science, Commerce, Computer Science, Food Science & Technology and Management Studies. Besides a host of courses at the under graduate level, the college provides instructions in 14 disciplines at the PG level. This Institution has distinction of running post graduation in Chemistry since 1971, post graduation in Physics since 1999 & post graduation in Zoology since 2001 in this part of India. The DAV College is recognised by Department of Science & Technology, Ministry of Science & Technology, New Delhi under DST-FIST Scheme. College is also recognised under 'DBT-Star College Scheme' by Department of Bio-technology, Ministry of Science & Technology, New Delhi.

INVITATION

As a part of our continuing initiative to maintain the transformation of the present age into the age of Science & Technology and build a knowledge pool, we at the DAV College, Jalandhar are organizing a **National Conference "Science & Technology for Sustainable Future", on 06th & 07th March 2020**. The Conference will act as a significant forum for scholarly interaction among researchers and practitioners of Basic & Applied Sciences and those interested in the advancement of these Sciences. The Conference shall provide an opportunity to present and observe the latest researches, results and ideas in the areas of Basic & Applied Sciences and will aim to strengthen relation between industry, research labs and universities for building knowledge economies. The conference is expected to have a tremendous impact on global knowledge sharing.

AIMS

The aims of the Conference are :

- To facilitate interaction between researchers working in the fields of development and application of sciences, with a special emphasis on electronics, energy, biotechnology and environment.
- To exchange expertise with researchers, seek cooperation opportunities locally and internationally, and to be up-to-date on the latest technologies and scientific progress in preparing, characterizing and using available and recently invented materials.
- To create opportunities for the next generation workforce to develop their professional skills.

CALL FOR PAPERS

Original contributions and review based on the experimental work, theoretical research, simulation, development, design, testing and measurement work are solicited for presentation at **National Conference**.

FORMAT OF ABSTRACT FOR POSTER PRESENTATION

The length of the abstracts should not exceed 500 words. The abstracts should be information rich, self-contained and may include figures, particularly line diagrams, sufficient for referees to judge the quality of work. Titles must be typed in bold letters of 12 point size. The author's name and affiliation may follow the title, and name of presenting author should be underlined. The text (10 point size) may start after a gap of two lines in single space. The category in which authors want the paper to be considered should be mentioned at the top-right corner of the page in bold letters. Participants can submit the abstracts through email attachments to above given email ids before **25th February, 2020**. The poster display space of 36"×48" will be available.

ABSTRACT BOOK

Abstract book of contributory papers shall be published on this occasion and it will be released on the inaugural session of the Conference. In addition, it will be put on the College website i.e. www.davjalandhar.com

IMPORTANT DATES

Last date for submission of Abstracts of Paper	25 February, 2020
Notification of accepted papers for poster presentation	28 February, 2020

REGISTRATION

All the participants are requested to send the duly filled registration form alongwith prescribed registration fee by A/c Payee Demand Draft favouring "Principal, DAV College, Jalandhar" payable at Jalandhar. The registration form may also be downloaded from the www.davjalandhar.com

Registration Fees

Category	Amount
Academic/ R & D	Rs. 750/-
Research students	Rs. 500/-
Students	Rs. 200/-

The last date for the Registration is 25th February, 2020.

AWARDS

There will be One Award in each category for young scientist, for the best poster presentation from students and young researchers (upto 35 years of age).

ACCOMMODATION

Participants will be provided accommodation in the Guest House/Hostel. But due to the limited availability of Guest House/Hostel accommodation, the reservations shall be made in Hotels of different categories for the delegates on their behalf. For research students, hostel facility is also available at rate of Rs. 300/- per head for two days. Those interested may contact the Convener, upto **29th February, 2020**.

ABOUT THE CONFERENCE

Schedule of Conference

March 06, 2020

Registration : 09:00 - 09:30 a.m.
 Inaugural Session : 09:30 - 11:00 a.m.
 Tea Break
 Technical Session-I : 11:30 - 01:30 p.m.
(Chemical, Physical & Mathematical Sciences)
 Lunch Break
 Technical Session-II : 02:30 - 04:30 p.m.
(Oral & Poster Presentations of all subjects)

March 07, 2020

Technical Session-III : 09:30 - 11:30 a.m.
(Life Sciences, Biotechnology & Food Technology)
 Valedictory Session
 Tea Break

CHIEF PATRON

Dr. Punam Suri

President, DAVCMC, New Delhi

PATRON

Sh. Shiv Raman Gaur

Director (Higher Education)
 DAVCMC, New Delhi

CONFERENCE CHAIRMAN

Dr. S K Arora

Principal
 DAV College, Jalandhar

CO-ORDINATOR

Sh. Ajay Aggarwal

DAV College, Jalandhar

CONVENOR

Dr. Rajeev Kr. Sharma

DAV College, Jalandhar

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Ms. Sheetal Aggarwal, Department of Chemistry, DAV College, Jalandhar

CONTACT

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Registration Form

Multi-disciplinary National Conference
Science & Technology for Sustainable Future

06-07 March, 2020

(Format to be attached with demand draft)

Delegate Poster Presentation

Name.....

Position

Field of Specialization.....

Name of Institute/organization.....

Mailing Address

.....

Phone CodeNo. (O)(R).....

Mobile..... Fax..... E-mail.....

Title of the Paper.....

.....

Subject Code

Accommodation Wanted: Yes/No Hotel/Hostel :

I am enclosing Draft/Cheque No..... Amount.....

Date.....in favour of Principal, DAV College, Jalandhar, payable at

Jalandhar

Signature:

Date :

TRAVEL DETAILS

Name.....

Arrival at Jalandhar : Air/Train/Bus/Taxi (Please ✓)

Train No..... Flight

Date Time

Departure from Jalandhar : Air/Train/Bus/Taxi (Please ✓)

Train No..... Flight

Date Time

NOTE : Additional forms may be photocopied & please send your Journey Plan well in time. Reception committee will receive you from the Place whatever you have mentioned in the travel detail. The registration form can be downloaded from www.davjalandhar.com.
Drafts should be in favour of Principal, DAV College, Jalandhar.