

**Shri Swami Vivekanand shikshan Sansthas**

**Padmabhushan  
Dr Vasantodada Patil  
Mahavidyalaya, Tasgaon Sangli**

*Organize*

*Second International Conference  
on*

**Integrative Approach in Environmental  
and Applied Sciences**

**8<sup>th</sup> & 9<sup>th</sup> Februwary-2019**

*In collaboration with*

**Department of Environmental Sciences  
Shivaji University, Kolhapur**

**at**

**Baha'I Academy, Panchagani (MS) India**

*The Second International Conference on “Integrative Approach in Environmental and Applied Sciences-2019” has organized by Padmabhushan dr Vasantraodada Patil Mahavidyalay, Tasgaon, dist. Sangli in collaboration with Dept. of Environmental sciences, Shivaji University, Kolhapur.*



*The IAEAS-2019 was organized to bring together researchers, scientists, and industry professionals to discuss innovative ideas and diverse topics on next generation of chemical, Biological and Environmental sciences. IAEAS-2019 was joined by 80 delegates from different institutions from India.*



*Department of Chemistry, Botany and Zoology of P.D.V.P. Mahavidyalaya, Tasgaon jointly participate and concluded its work for successful organization of two days Conference on February 8th-9th, 2019 at Baha'i Academy, Panchagani, Maharashtra, India.*





Honorable Prin. Abhaykumar Salunkhe  
Executive President  
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

**MESSAGE**

Heartiest congratulations for arranging an International Conference on "INTEGRATIVE APPROACH IN ENVIRONMENTAL AND APPLIED SCIENCES." on 8th and 9th February 2019 at Baha'i Academy, Panchagani on the occasion of birth centenary year of founder of our management great educationalist Shikshanmaharshi Dr. Bapuji Salunkhe in collaboration with the Department of Environmental Science, Shivaji University, Kolhapur. I am sure that very fruitful deliberations will take place in the conference which will be highly beneficial to the students, participants and society.

Good wishes from Shri Swami Vivekanand Shikshan Sanstha, Kolhapur for the grand success of the conference.

With best regards.



Honorable Chandrakant Dada Patil  
(Minister, Govt. of Maharashtra), President  
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

**MESSAGE**

I am very happy to know that Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon is organizing an International Conference on "INTEGRATIVE APPROACH IN ENVIRONMENTAL AND APPLIED SCIENCES." on 8th and 9th February 2019 at Baha'i Academy, Panchagani on the occasion of birth centenary year of great educationalist Shikshanmaharshi Dr. Bapuji Salunkhe in collaboration with the Department of Environmental Science, Shivaji University, Kolhapur.

I hope scientists and research scholars from varied disciplines will share their knowledge and academic experiences which will be highly beneficial to the students, participants and society.

Good wishes from for the grand success of the conference.

With best regards.





Honorable Prin. Shubhangi Gavade  
Secretary,  
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur

**MESSAGE**

I am delighted to know that Padmabhushan Dr.Vasantrodada Patil Mahavidyalaya, Tasgaon of our management is organizing an International Conference on "INTEGRATIVE APPROACH IN ENVIRONMENTAL AND APPLIED SCIENCES."on 8th and 9th February 2019 at Baha'i Academy, Panchagani on the occasion of birth centenary year of founder of our management great educationalist Shikshanmaharshi Dr. Bapuji Salunkhe in collaboration with the Department of Environmental Science, Shivaji University, Kolhapur.

It gives me great pleasure to welcome you at this conference. I hope scientists and research scholars from varied disciplines will share their knowledge and academic experiences which will be highly beneficial to the students, participants and society.

Good wishes from Shri Swami Vivekanand Shikshan Sanstha, Kolhapur for the grand success of the conference.

With best regards.



Honorable Prof. (Dr.) Devanand Shinde  
Vice Chancellor,  
Shivaji University, Kolhapur

**MESSAGE**

I am very happy to know that Padmabhushan Dr.Vasantrodada Patil Mahavidyalaya, Tasgaon is organizing an International Conference on "INTEGRATIVE APPROACH IN ENVIRONMENTAL AND APPLIED SCIENCES."on 8th and 9th February 2019 at Baha'i Academy, Panchagani on the occasion of birth centenary year of great educationalist Shikshanmaharshi Dr. Bapuji Salunkhe in collaboration with the Department of Environmental Science, Shivaji University, Kolhapur. The theme of the conference is very vital. I hope scientists and research scholars from varied disciplines will share their knowledge and academic experiences which will be highly beneficial to the students, participants and society. Good wishes for the grand success of the conference.

With best regards.







Honorable Prof. (Dr.) D. T. Shirke  
Pro-Vice Chancellor,  
Shivaji University, Kolhapur

**MESSAGE**

I am happy to know that Padmabhushan Dr. Vasantaoada Patil Mahavidyalaya, Tasgaon is organizing an International Conference on "INTEGRATIVE APPROACH IN ENVIRONMENTAL AND APPLIED SCIENCES" on 8th and 9th February 2019 at Baha'i Academy, Panchagani on the occasion of birth centenary year of great educationalist Shikshanmaharshi Dr. Bapuji Salunkhe in collaboration with the Department of Environmental Science, Shivaji University, Kolhapur.

It gives me pleasure to wish the success at this conference. I hope scientists and researchers from varied disciplines will share their knowledge and academic experiences which will be highly beneficial to the students, participants and society.

With best regards.



**Dr. Prakash D. Rao**  
M. Sc., Ph.D., M.Ed., D. Ed., M.A., B.A., D.Lit., M.Phil.  
Professor and Head

**SHIVAJI UNIVERSITY, KOLHAPUR**  
**DEPARTMENT OF ENVIRONMENTAL SCIENCE**



Est. 1962  
Tasgaon, Kolhapur

Valsyagar, KOLHAPUR-416 004  
Makarashtra, INDIA  
Tel. : 0231-2606024 / 0231  
Fax : 0091-0231-2681330/2233  
Mobile : 9421190051  
E-mail : drprao@yashwantrao.ac.in  
pd\_r\_09@shivajiuniv.ac.in

Ref. No. /1117C/2017

Date: 6 FEB 2019

**MESSAGE**

I am very happy to extend warm congratulations to Padmabhushan Dr. Vasantaoada Patil Mahavidyalaya, Tasgaon, Dist. Sangli and Department of Environmental Science, Shivaji University, Kolhapur for organising an International Conference on "Integrative Approach in Environmental and Applied Sciences" on the occasion of birth centenary celebration of Shikshan Maharshi Dr. Bapuji Salunkhe, a founder of Shri, Swami Vivekanand Shikshan Sanstha, Kolhapur.

I am happy that the theme of the international conference is interdisciplinary and involves the inclusion of the scientist, academicians and students from the field of environmental and applied sciences. The conference will give a platform to the young budding scientists to look towards alarming issues related to mankind.

I am confident that the deliberations and discussions at the international conference will provide a platform to generate the innovative methods for sustainable development and management of the problems of society.

I extend my warm greeting to eminent scientists and participants attending this international conference. I wish the conference a grand success and hope that the major academic insights emerging out of the discussion will be helpful to extend sustainable service to mankind.

Prof. (Dr.) P. D. Rao







*The conference program featured a wide variety of invited and contributed lectures from national and international speakers with expertise in the field of Chemistry, Botany, Zoology and Environment as well as oral sessions.*



### *Conference Scope*

*IAEAS-2019 themes include the following research and development areas (about 26 themes).*

#### Major Theams of IAEAS-2019

|    |  |    |   |
|----|--|----|---|
| 1  | Animal Physiology and Biochemistry                                 | 14 | Metal Complex   |
| 2  | Aquaculture, Sericulture, Apiculture, Ornithology and Parasitology | 15 | Multidisciplinary Perspective for sustainable planet              |
| 3  | Biodiversity and Environmental Sustainability                      | 16 | Nanotechnology  |
| 4  | Biotechnology and Genetic Engineering                              | 17 | Natural Product and its Applications                              |
| 5  | Catalyst   | 18 | Natural recourses and its Conservation                            |
| 6  | Climate Change and Global Warming                                  | 19 | Organic synthesis   |
| 7  | Coordination Chemistry   | 20 | Plant Physiology, Pathology, Cytogenetic, Taxonomy, Ethanobotany, |
| 8  | Drug Synthesis   | 21 | Polymer   |
| 9  | Ecology and Ecosystem  | 22 | Steam Cell Technology   |
| 10 | Ecotourism   | 23 | Sustainable Agriculture and its development                       |
| 11 | Food and Drug Analysis   | 24 | Sustainable Chemistry   |
| 12 | Kinetic Study  | 25 | Toxicology and Pollution control                                  |
| 13 | Medicinal Chemistry  | 26 | Waste Management  |

# WELCOME AND OPENING CEREMONY



*The first day of conference started with Welcoming and Opening Ceremony. The following representatives as well as the Chief Guest and the Guest of honor had addressed to delegates with short welcoming speeches.*



***Prof. Dr. P. D. Raut  
Head, Dept. of  
environmental Sciences  
Shivaji University, Kolhapur***



***Principal Dr. A. A. Karande  
Life member, Shri Swami  
Vivekanand Shikshan  
Sanstha, Kolhapur***



# WELCOME AND OPENING CEREMONY



***Dr. Azadi Lesan  
Director  
Baha'I Acadamy, Pamchagani***



***Dr. Ashish Lambat  
Sevadal Mahila Mahavidyalaya,  
Nagpur***



***Principal Dr. R. R. Kumbhar  
P.D.V.P. Mahavidyalaya  
Tasgaon, Dist. Tasgaon***



***Dr. Ajay N. Ambhore  
Convener, IAEAS-2019  
P.D.V.P. Mahavidyalaya, Tasgaon***





*Welcome by Baha’I Academy, Panchagany (MS) India*



*Hundreds of research paper abstracts were submitted by the researchers from different institute through India from which 71 research papers are selected by the scrutiny committee of IAEAS-2019 for oral presentation and publication*



# WELCOME SPEECH



***Dr. Ajay N. Ambhore  
Convener, IAEAS-2019  
P.D.V.P. Mahavidyalaya,  
Tasgaon. Dist. Sangli***



***Principal Dr. R. R. Kumbhar  
P.D.V.P. Mahavidyalaya,  
Tasgaon. Dist. Sangli***

# INVITED TALK

*Invited talks and technical sessions have been prepared in accordance with conference scope to discuss the challenges, opportunities and recent advances in chemical sciences. The conference had 8 speakers.*





# INVITED TALK



# ACKNOWLEDGEMENTS

*The Convener of IAEAS – 2019, Dr. S. A. Khade,, expressed deep gratitude on behalf of organizing Committee to the Principal P.D.V.P. Mahavidyalaya, Tasgaon for hosting such a spectacular event. The Convener expressed deep gratitude on behalf of organizing Committee to Dept. of Enviornmental Sciences, Shivaji University, Kolhapur, for their extensive help.*

*Special thanks were extended to Baha'I Acadamy, Panchagani, who worked all together and extremely hard to prepare an outstanding conference.*

*Finally, tender thanks were expressed to the Faculty of Chemistry, Botany and Zoology department as well as teaching and nonteaching staff of P.D.V.P. Mahvidyalaya, tasgaon, who did impressive and dedicated work.*



Total Participants: 80



*Alka Inamdar*  
IQAG Co-Ordinator,  
PD VP Mahavidyalaya,  
Tasgaon.

*Milind S. Hujare*  
Prin. Dr. Milind S. Hujare  
Principal  
Padmabhushan Dr. Vasantrodada Patil  
Mahavidyalaya, Tasgaon (Sangli).

*Thank  
you*